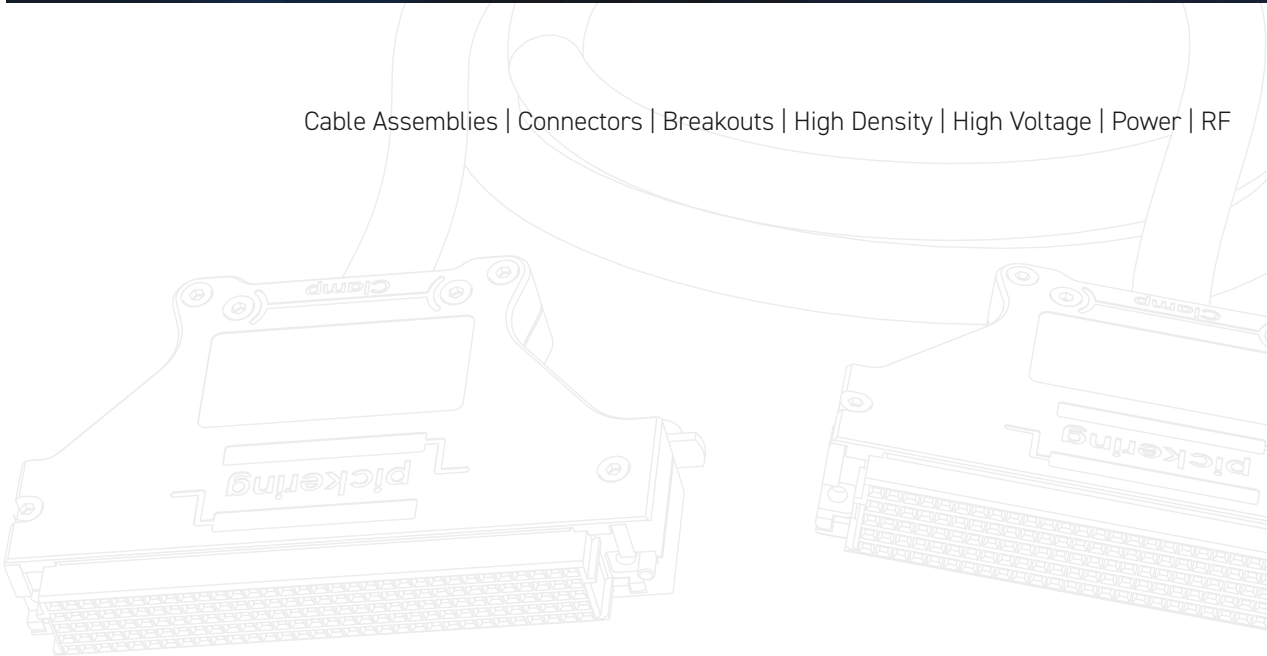


Connection Solutions




























Cable Assemblies | Connectors | Breakouts | High Density | High Voltage | Power | RF



Switching | Simulation | Programmable Resistors | Custom Design | Connectivity & Cables

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Section 1:	500-Pin SEARAY	
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Section 6:	78-Pin D-Type	
Section 7:	68-Pin 1.27mm Pitch Micro-D.....	
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Section 9:	50-Pin IDC	
Section 10:	50-Pin D-Type, Standard Voltage	
Section 11:	50-Pin D-Type, High Voltage	
Section 12:	44-Pin D-Type	
Section 13:	37-Pin D-Type, Standard Voltage	
Section 14:	37-Pin D-Type, High Voltage.....	
Section 15:	26-Pin D-Type	
Section 16:	25-Pin D-Type	
Section 17:	20-Pin GMCT.....	
Section 18:	15-Pin D-Type	
Section 19:	9-Pin D-Type, Standard Voltage	
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Section 22:	3-Pin Power D-Type.....	
Section 23:	RF Cable Assemblies.....	
Section 24:	MS-M RF.....	
Section 25:	Custom Cable Solutions	

Introduction

Pickering Interfaces supplies the widest range of switching products available in the Test and Measurement industry and complements these switching products with a range of instrumentation and utility modules.

The diverse requirements of these products results in different connector styles being used according to the platform and the signals being carried. Users have to connect from these connectors to the device under test and to the instrumentation in the test system.

Pickering Interfaces is committed to fully supporting all the connectors used on its products to make the user experience of integrating our products trouble free. We offer a range of connection solutions for every connector we use, and offer additional products as demanded by the industry.

Selecting a Connection Solution

First identify the connector that the product uses, this is always clearly identified on the product data sheet. Then use either this catalog or our web site www.pickeringtest.com/products/cables-connectors and locate the corresponding connector solutions by connector type. Many of our product data sheets also have a direct link to the specific connector used on the product, the link opens a data sheet describing the connection solutions available. For each connector we offer a range of connection options relative to the connector being used:

- **Cable Assemblies:** A range of cables with a mating connector on either one end or both ends. Cables can also be made available to convert between one connector style and another – for example converting between a high density connector suitable for use on the front of PXI or PCI modules and 50 way Ribbon Cable connectors.
- **Breakout Boxes:** A breakout box provides an interface between a mating connector and a set of screw operated terminals. The use of breakout boxes simplifies the wiring operation to the cable. Most breakout boxes are provided with a complete metal enclosure and include a cable clamp for strain relief. This protects the wiring and the cable termination.
- **Connectors:** Simple mating connectors that provide a method for integrators to wire to a part that mates with the front panel connector of the selected device. These are ideal for systems where low purchase cost is required and labor is available to undertake the wiring operation. A backshell option on most connectors protects the connecting wires.
- **PCB Connectors:** A range of straight and right angle PCB connectors to facilitate a direct PCB connection.



Ordering and Pricing Information

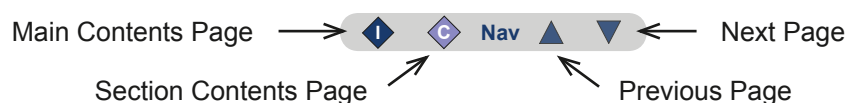
Each connector data sheet provides the order code for the connection solution and pricing for each part can be found on our web site or by contacting the local sales office.

Custom Connection Solutions

We can provide customized connection solutions if the exact solution you require is not shown in our standard range. We have a wide range of already defined custom solutions and are always willing to consider and then quote for custom connection solutions.

Customers can now design their own cable assembly online. See <http://pickeringtest.com/cdt>

Document Navigation - Buttons



500-Pin SEARAY™ Connector Accessories

- **Mating Connectors**
- **Connector Hoods**
- **Cable Assemblies**
- **Guaranteed Compatibility**

The 500-Pin SEARAY connector is used on switching products to provide a very high density 2A connector solution that is suitable for use to 200VDC. Pickering Interfaces have developed a range of standard connection solutions to simplify the task of integrating the product into a test system. Due to the high density and skill levels involved in terminating this connector we recommend the use of Pickering Interfaces solutions. Additionally, 1A connector and cabling solutions are also available.

Connector to Connector cable assemblies provide a simple method of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create their own cable based solutions.

Pickering Interfaces can manufacture custom connector accessories to suit any application. If you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



SEARAY is a trademark of Samtec, Inc.

Part Number Listing for all 500-Pin SEARAY Connection Accessories

Cables: 500-Pin SEARAY (250-Port Version) Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	Rear	Male	Rear	A500RMR-500RMR-4B050	A500RMR-500RMR-4B100	A500RMR-500RMR-4B200	Yes	1.5
Male	Rear	5x50-Pin D-Type, Female	45° Away from Pin 1	A500RMR-05F050D4B050	A500RMR-05F050D4B100	A500RMR-05F050D4B200	Yes	1.8

Cables: 500-Pin SEARAY (250-Port Version) Connector to Underterminated								
End 1		End 2 Underterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Male	Rear	Boot Lace Ferrules	A500RMR-F-4B050	A500RMR-F-4B100	A500RMR-F-4B200	Yes	1.6	
		Tinned Ends	A500RMR-T-4B050	A500RMR-T-4B100	A500RMR-T-4B200			
		Cut End	A500RMR-C-4B050	A500RMR-C-4B100	A500RMR-C-4B200			




Cable Connectors: 500-Pin SEARAY (250-Port Version)						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Male	Rear	C500RMR-4SB-4B	C500RMR-4SB-4B	Yes	1.10

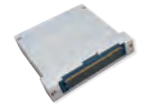
Cables: 500-Pin SEARAY (500-Port Version) Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	Rear	Male	Rear	A500RMR-500RMR-0A050	A500RMR-500RMR-0A100	A500RMR-500RMR-0A200	No	1.13

Cables: 500-Pin SEARAY (500-Port Version) Connector to Underterminated								
End 1		End 2 Underterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Male	Rear	Boot Lace Ferrules	A500RMR-F-0A050	A500RMR-F-0A100	A500RMR-F-0A200	No	1.14	
		Tinned Ends	A500RMR-T-0A050	A500RMR-T-0A100	A500RMR-T-0A200			
		Cut End	A500RMR-C-0A050	A500RMR-C-0A100	A500RMR-C-0A200			

Cable Connectors: 500-Pin SEARAY (500-Port Version)						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Male	Rear	C500RMR-4SB-0A	C500RMR-4SB-0A	No	1.15



Contents - Mating Accessories For Pickering Products

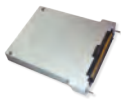
Cable Assemblies: 250-Port Version				
View	Description	End 1	End 2	Page
	Cable Assy, 500-Pin SEARAY (250-Port Version), 2A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 1.5
	Cable Assy, 500-Pin SEARAY (250-Port Version) to Unterminated, 2A, 0.5m, 1m and 2m Custom lengths by quotation		Unterminated with Options	Page 1.6
	Cable Assy, 500-Pin SEARAY (250-Port Version) to 5 x 50-Pin D-Type, 2A, 0.5m, 1m and 2m Custom lengths by quotation		Female	Page 1.8

Connectors: 250-Port Version				
View	Description	Type	Gender	Page
	Cable Connector 500-Pin SEARAY (250-Port Version), 2A, Solder Bucket Headers	With or Without Backshell	Male	Page 1.10

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies: 500-Port Version				
View	Description	End 1	End 2	Page
	Cable Assy, 500-Pin SEARAY (500-Port Version), 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 1.13
	Cable Assy, 500-Pin SEARAY (500-Port Version) to Unterminated, 1A, 0.5m, 1m and 2m Custom lengths by quotation		Unterminated with Options	Page 1.14

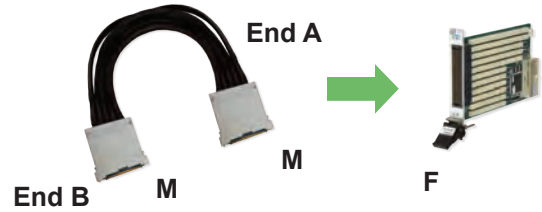
Connectors: 500-Port Version				
View	Description	Type	Gender	Page
	Cable Connector 500-Pin SEARAY (500-Port Version), 1A, Solder Bucket Headers	With or Without Backshell	Male	Page 1.15

Custom Termination

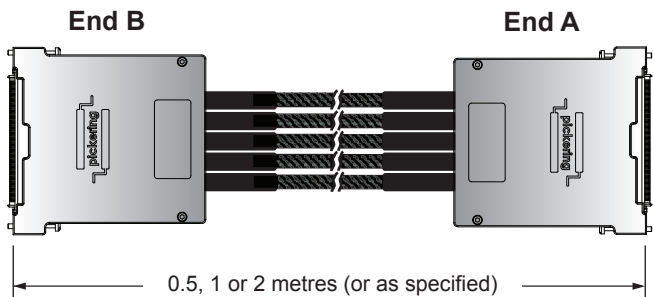
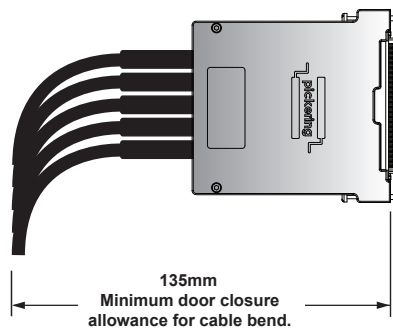
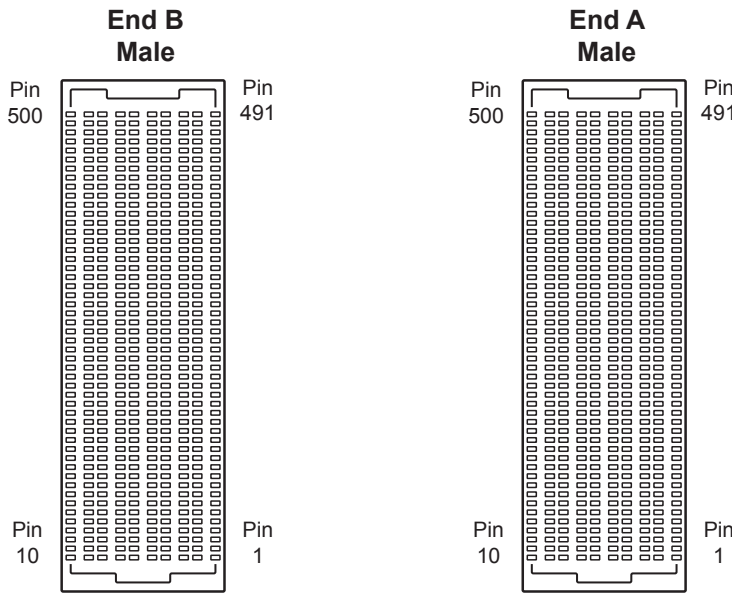
Section 25

500-Pin SEARAY Cable Assy - Male to Male

- 250-Port High Specification Cable
- 5 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction



The male connector of this cable assembly is suitable for direct connection to Pickering Interfaces products using the 500-Pin SEARAY connector. Screwlocks are provided to secure the cable assembly to a mating product.



Technical Specification

Connector Type (End A):	500-Pin SEARAY (250-Port version)
Gender	Male
Securing Method	M2.5 screwlocks, male
Connector Type (End B):	500-Pin SEARAY (250-Port version)
Gender	Male
Securing Method	M2.5 screwlocks, male
Cable Assembly Rating:	
Maximum Current	2A
Maximum Voltage	200VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H97.7 x W19.9 x D99.5mm
Cable Type:	
Conductor: Material	Tinned Copper
Strands	7/0.15mm (26AWG)
Resistance	0.2Ω/m
Insulation	PFA
Outer Sleeve	-
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	135mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

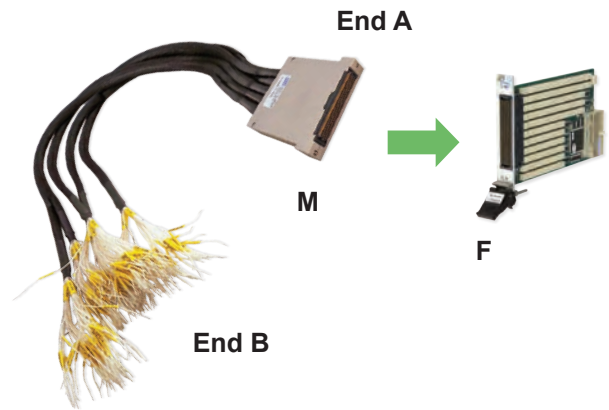
- 500-Pin SEARAY Cable Assy (250-Port Version), 2A,
 Male to Male, 0.5m Long **A500RMR-500RMR-4B050**
 Male to Male, 1.0m Long **A500RMR-500RMR-4B100**
 Male to Male, 2.0m Long **A500RMR-500RMR-4B200**

500-Pin SEARAY Cable Assy - Male to Unterminated

- 250-Port High Specification Cable
- 5 Wire Bundles to Improve Flexibility
- Fully Screened Cable with Strain Relief
- Fully Coded to Ensure Easy Connection

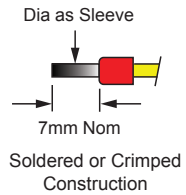
The male SEARAY connector of this cable assembly is suitable for direct connection to Pickering Interfaces products. Unterminated connections are provided at the other end of the cable for a variety of applications. Screwlocks enable the SEARAY connector to be secured to its mating product.

When using this product please ensure appropriate electrical safety precautions are observed.

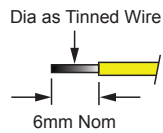


End B Options

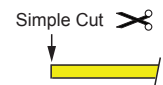
Ferrules



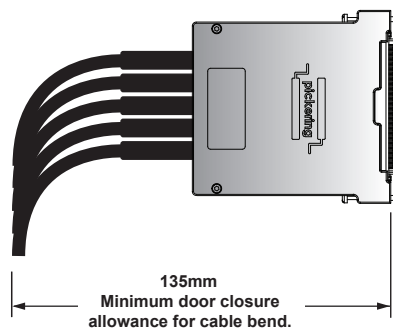
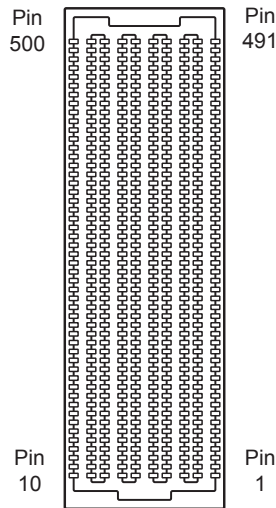
Tinned End



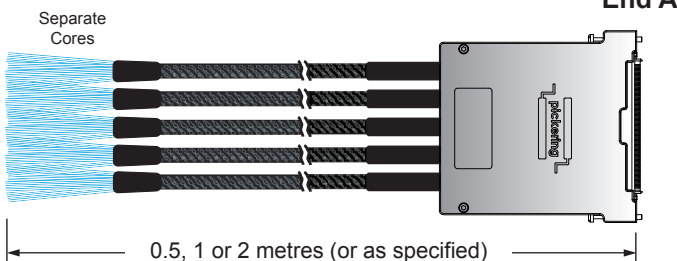
Cut End



End A - Male



End B



Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A):	500-Pin SEARAY (250-Port version)
Gender	Male
Securing Method	M2.5 screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nominal
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	2A
Maximum Voltage	200VDC
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H97.7 x W19.9 x D99.5mm
Cable Type:	
Conductor: Material	Tinned Copper
Strands	7/0.15mm (26AWG)
Resistance	0.2Ω/m
Insulation	PFA
Outer Sleeve	-
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	135mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

500-Pin SEARAY (250-Port Version) Cable Assy, 2A,

Male to Unterminated, Ferrules, 0.5m [A500RMR-F-4B050](#)

Male to Unterminated, Ferrules, 1.0m [A500RMR-F-4B100](#)

Male to Unterminated, Ferrules, 2.0m [A500RMR-F-4B200](#)

Male to Unterminated, Tinned End, 0.5m [A500RMR-T-4B050](#)

Male to Unterminated, Tinned End, 1.0m [A500RMR-T-4B100](#)

Male to Unterminated, Tinned End, 2.0m [A500RMR-T-4B200](#)

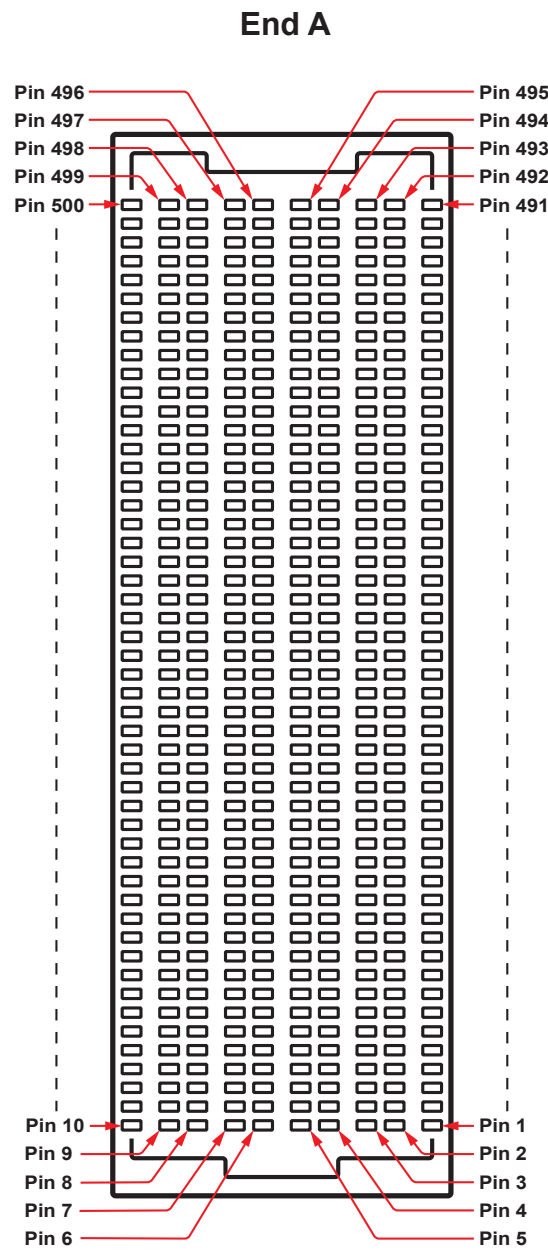
Male to Unterminated, Cut End, 0.5m [A500RMR-C-4B050](#)

Male to Unterminated, Cut End, 1.0m [A500RMR-C-4B100](#)

Male to Unterminated, Cut End, 2.0m [A500RMR-C-4B200](#)

Wiring Schedule for 500-Pin SEARAY (250-Port Version) Cable Assy Male to Unterminated

Pin Connections / Wire labelling				
Pins	Pins	Pins	Pins	Pins
491 & 492	493 & 494	495 & 496	497 & 498	499 & 500
481 & 482	483 & 484	485 & 486	487 & 488	489 & 490
471 & 472	473 & 474	475 & 476	477 & 478	479 & 480
461 & 462	463 & 464	465 & 466	467 & 468	469 & 470
451 & 452	453 & 454	455 & 456	457 & 458	459 & 460
441 & 442	443 & 444	445 & 446	447 & 448	449 & 450
431 & 432	433 & 434	435 & 436	437 & 438	439 & 440
421 & 422	423 & 424	425 & 426	427 & 428	429 & 430
411 & 412	413 & 414	415 & 416	417 & 418	419 & 420
401 & 402	403 & 404	405 & 406	407 & 408	409 & 410
391 & 392	393 & 394	395 & 396	397 & 398	399 & 400
381 & 382	383 & 384	385 & 386	387 & 388	389 & 390
371 & 372	373 & 374	375 & 376	377 & 378	379 & 380
361 & 362	363 & 364	365 & 366	367 & 368	369 & 370
351 & 352	353 & 354	355 & 356	357 & 358	359 & 360
341 & 342	343 & 344	345 & 346	347 & 348	349 & 350
331 & 332	333 & 334	335 & 336	337 & 338	339 & 340
321 & 322	323 & 324	325 & 326	327 & 328	329 & 330
311 & 312	313 & 314	315 & 316	317 & 318	319 & 320
301 & 302	303 & 304	305 & 306	307 & 308	309 & 310
291 & 292	293 & 294	295 & 296	297 & 298	299 & 300
281 & 282	283 & 284	285 & 286	287 & 288	289 & 290
271 & 272	273 & 274	275 & 276	277 & 278	279 & 280
261 & 262	263 & 264	265 & 266	267 & 268	269 & 270
251 & 252	253 & 254	255 & 256	257 & 258	259 & 260
241 & 242	243 & 244	245 & 246	247 & 248	249 & 250
231 & 232	233 & 234	235 & 236	237 & 238	239 & 240
221 & 222	223 & 224	225 & 226	227 & 228	229 & 230
211 & 212	213 & 214	215 & 216	217 & 218	219 & 220
201 & 202	203 & 204	205 & 206	207 & 208	209 & 210
191 & 192	193 & 194	195 & 196	197 & 198	199 & 200
181 & 182	183 & 184	185 & 186	187 & 188	189 & 190
171 & 172	173 & 174	175 & 176	177 & 178	179 & 180
161 & 162	163 & 164	165 & 166	167 & 168	169 & 170
151 & 152	153 & 154	155 & 156	157 & 158	159 & 160
141 & 142	143 & 144	145 & 146	147 & 148	149 & 150
131 & 132	133 & 134	135 & 136	137 & 138	139 & 140
121 & 122	123 & 124	125 & 126	127 & 128	129 & 130
111 & 112	113 & 114	115 & 116	117 & 118	119 & 120
101 & 102	103 & 104	105 & 106	107 & 108	109 & 110
91 & 92	93 & 94	95 & 96	97 & 98	99 & 100
81 & 82	83 & 84	85 & 86	87 & 88	89 & 90
71 & 72	73 & 74	75 & 76	77 & 78	79 & 80
61 & 62	63 & 64	65 & 66	67 & 68	69 & 70
51 & 52	53 & 54	55 & 56	57 & 58	59 & 60
41 & 42	43 & 44	45 & 46	47 & 48	49 & 50
31 & 32	33 & 34	35 & 36	37 & 38	39 & 40
21 & 22	23 & 24	25 & 26	27 & 28	29 & 30
11 & 12	13 & 14	15 & 16	17 & 18	19 & 20
1 & 2	3 & 4	5 & 6	7 & 8	9 & 10

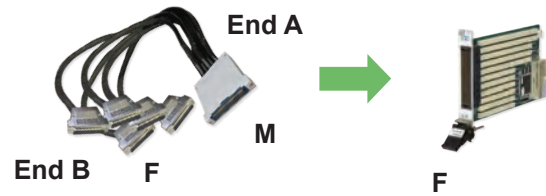


**Male SEARAY Connector
(viewed from the mating face)**

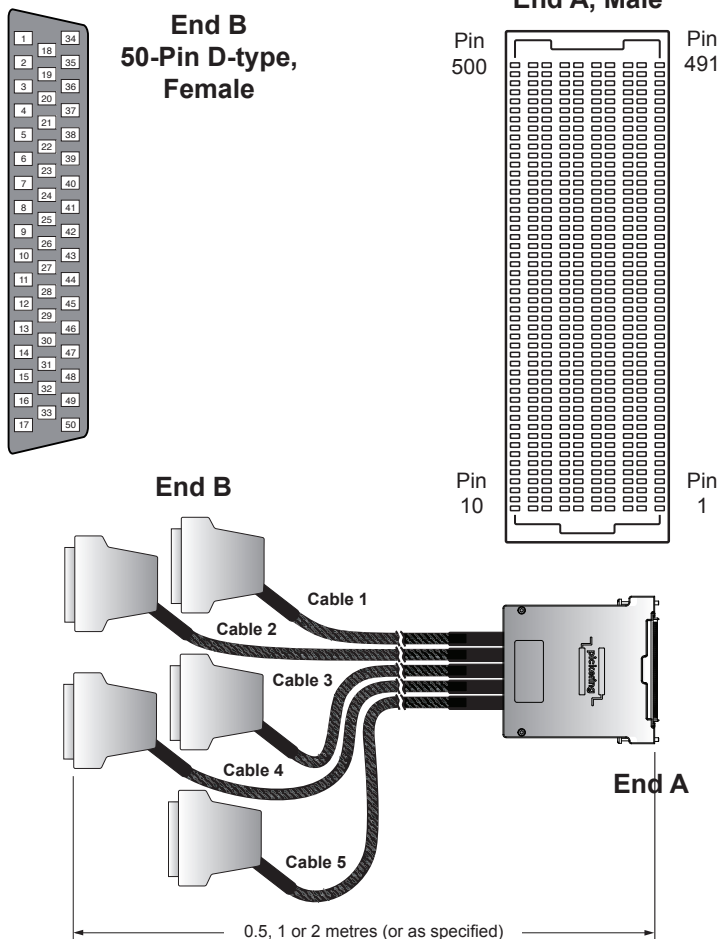
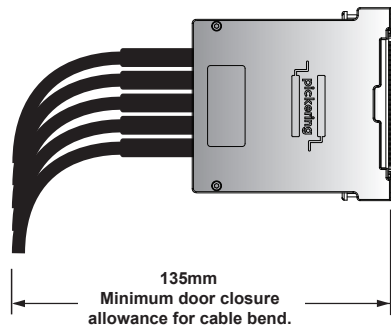
Notes: 1. Adjacent pins are connected together to provide the 2 Amp current rating.
2. Individual wires are labelled with the two relevant pin numbers at End B.

500-Pin SEARAY Connector, Male to 5 x 50-Pin D-Type, Female

- **250-Port High Specification Cable**
- **Highly Flexible Cable with Braided Sleeve**
- **Strain Relief**
- **Fully Screened Cable Construction**



The male SEARAY connector of this cable assembly is suitable for direct connection to Pickering Interfaces products. Five 50-Pin D-Type connectors allow an interface to other devices. Screwlocks are provided at both ends to secure the cable assembly to mating products.



Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A):	500-Pin SEARAY (250-Port version)
Gender	Male
Securing Method	M2.5 screwlocks, male
Connector Type (End B):	5 x 50-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	2A
Maximum Voltage	200VDC
Insulation Resistance	1000MOhm
SEARAY Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H97.7 x W19.9 x D99.5mm
50-Pin Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	
Conductor: Material	Tinned Copper
Strands	7/0.15mm (26AWG)
Resistance	0.2Ω/m
Insulation	PFA
Outer Sleeve	-
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	135mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

500-Pin (250-Port) SEARAY to 5 x 50-Pin D-Type Cable Assy, 2A,

Male to Female, 0.5m Long

A500RMR-05F050D4B050

Male to Female, 1.0m Long

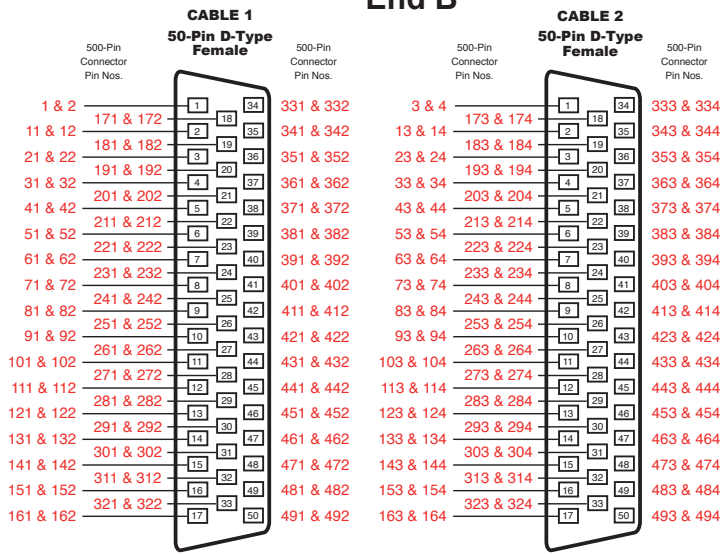
A500RMR-05F050D4B100

Male to Female, 2.0m Long

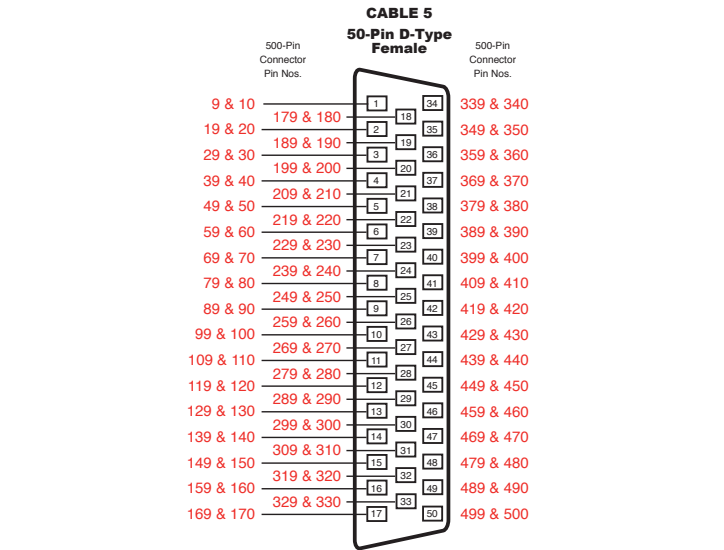
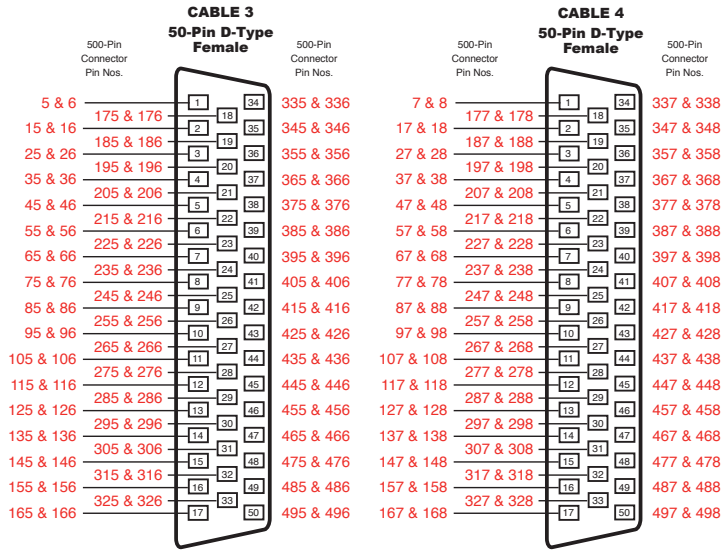
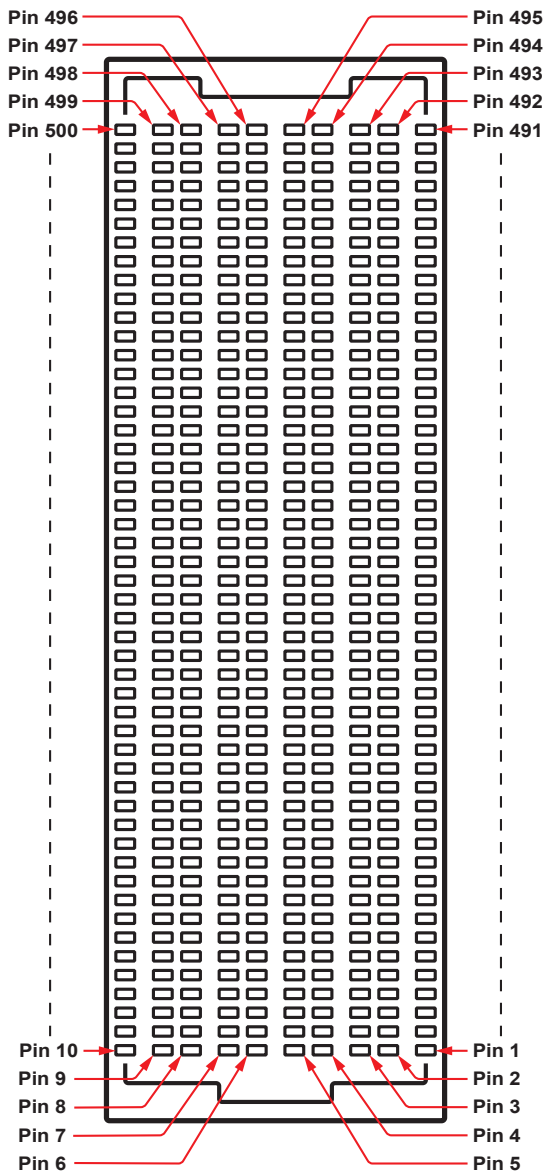
A500RMR-05F050D4B200

Wiring Schedule for 500-Pin SEARAY (250-Port Version) to 5 x 50-Pin D-Type Male to Female

End B



End A



Mating faces detailed

Male SEARAY Connector (viewed from the mating face)

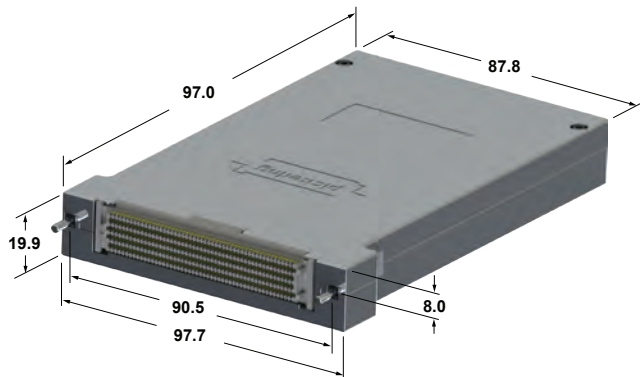
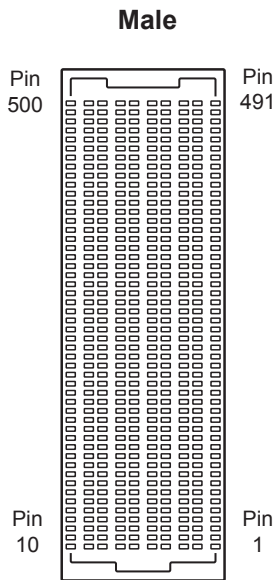
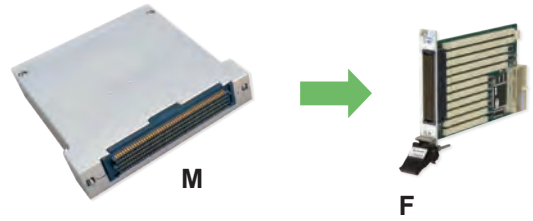
500-Pin SEARAY Connector Accessories

500-Pin SEARAY Connector - Male

- 500-Pin (250-Port) Connector
- Connector Only or Connector and Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate a cable via solder bucket connections to a PCB linked to a 500-Pin SEARAY connector. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

When this product is used without a backshell users should make their own cable strain relief arrangements and ensure that appropriate electrical safety precautions are observed.



Pin-Out information can be found on the next page of this document.

Technical Specification

Connector Type:	500-Pin SEARAY (250-Port version)
Gender	Male
Securing Method:	
Product with Backshell	M2.5 screwlocks, male
Product without Backshell	Push fit
Wire Connection	Solder bucket headers
Connector Ratings:	
Maximum Current	2A
Maximum Voltage	200VDC
Cable Exit:	Rear
Cable Exit Size	-
Overall Size (Approx)	H97.7 x W19.9 x D99.5mm
500-Pin SEARAY:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	26AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

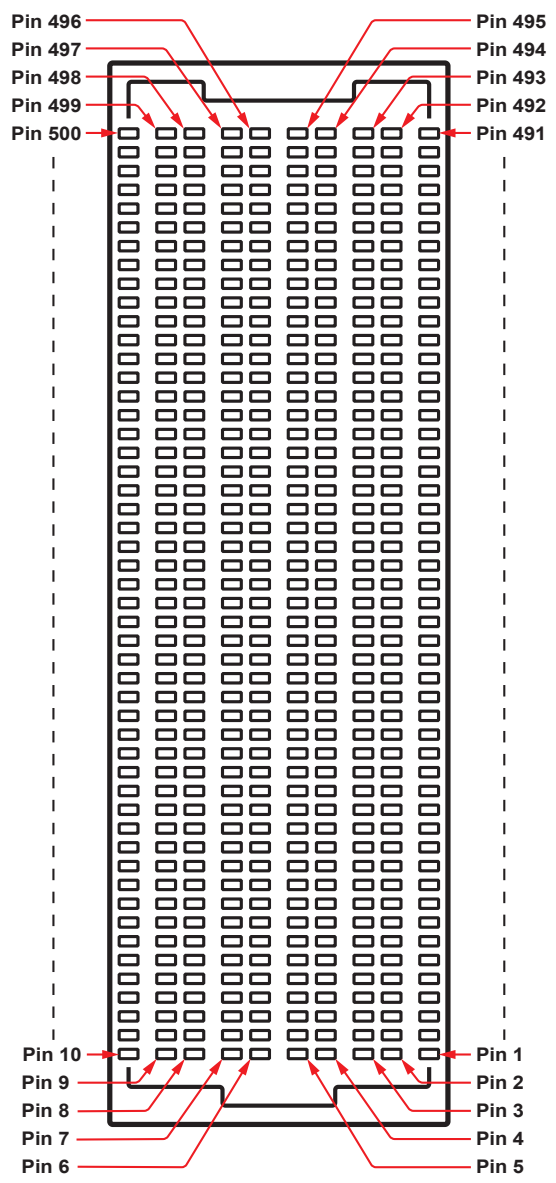
Product Order Codes

500-Pin SEARAY Connector (250-Port Version), 2A, Solder Bucket, with Backshell and Male M2.5 Screwlocks:

Male C500RMR-4SB-4B
Without Backshell, Male C500RMX-4SB-4B

Pin-Out Information for 500-Pin SEARAY Connector - Male (250-Port Version)

Pin Connections				
Pins	Pins	Pins	Pins	Pins
491 & 492	493 & 494	495 & 496	497 & 498	499 & 500
481 & 482	483 & 484	485 & 486	487 & 488	489 & 490
471 & 472	473 & 474	475 & 476	477 & 478	479 & 480
461 & 462	463 & 464	465 & 466	467 & 468	469 & 470
451 & 452	453 & 454	455 & 456	457 & 458	459 & 460
441 & 442	443 & 444	445 & 446	447 & 448	449 & 450
431 & 432	433 & 434	435 & 436	437 & 438	439 & 440
421 & 422	423 & 424	425 & 426	427 & 428	429 & 430
411 & 412	413 & 414	415 & 416	417 & 418	419 & 420
401 & 402	403 & 404	405 & 406	407 & 408	409 & 410
391 & 392	393 & 394	395 & 396	397 & 398	399 & 400
381 & 382	383 & 384	385 & 386	387 & 388	389 & 390
371 & 372	373 & 374	375 & 376	377 & 378	379 & 380
361 & 362	363 & 364	365 & 366	367 & 368	369 & 370
351 & 352	353 & 354	355 & 356	357 & 358	359 & 360
341 & 342	343 & 344	345 & 346	347 & 348	349 & 350
331 & 332	333 & 334	335 & 336	337 & 338	339 & 340
321 & 322	323 & 324	325 & 326	327 & 328	329 & 330
311 & 312	313 & 314	315 & 316	317 & 318	319 & 320
301 & 302	303 & 304	305 & 306	307 & 308	309 & 310
291 & 292	293 & 294	295 & 296	297 & 298	299 & 300
281 & 282	283 & 284	285 & 286	287 & 288	289 & 290
271 & 272	273 & 274	275 & 276	277 & 278	279 & 280
261 & 262	263 & 264	265 & 266	267 & 268	269 & 270
251 & 252	253 & 254	255 & 256	257 & 258	259 & 260
241 & 242	243 & 244	245 & 246	247 & 248	249 & 250
231 & 232	233 & 234	235 & 236	237 & 238	239 & 240
221 & 222	223 & 224	225 & 226	227 & 228	229 & 230
211 & 212	213 & 214	215 & 216	217 & 218	219 & 220
201 & 202	203 & 204	205 & 206	207 & 208	209 & 210
191 & 192	193 & 194	195 & 196	197 & 198	199 & 200
181 & 182	183 & 184	185 & 186	187 & 188	189 & 190
171 & 172	173 & 174	175 & 176	177 & 178	179 & 180
161 & 162	163 & 164	165 & 166	167 & 168	169 & 170
151 & 152	153 & 154	155 & 156	157 & 158	159 & 160
141 & 142	143 & 144	145 & 146	147 & 148	149 & 150
131 & 132	133 & 134	135 & 136	137 & 138	139 & 140
121 & 122	123 & 124	125 & 126	127 & 128	129 & 130
111 & 112	113 & 114	115 & 116	117 & 118	119 & 120
101 & 102	103 & 104	105 & 106	107 & 108	109 & 110
91 & 92	93 & 94	95 & 96	97 & 98	99 & 100
81 & 82	83 & 84	85 & 86	87 & 88	89 & 90
71 & 72	73 & 74	75 & 76	77 & 78	79 & 80
61 & 62	63 & 64	65 & 66	67 & 68	69 & 70
51 & 52	53 & 54	55 & 56	57 & 58	59 & 60
41 & 42	43 & 44	45 & 46	47 & 48	49 & 50
31 & 32	33 & 34	35 & 36	37 & 38	39 & 40
21 & 22	23 & 24	25 & 26	27 & 28	29 & 30
11 & 12	13 & 14	15 & 16	17 & 18	19 & 20
1 & 2	3 & 4	5 & 6	7 & 8	9 & 10



**Male SEARAY Connector
(viewed from the mating face)**

Note: Adjacent pins are connected together to provide the 2 Amp current rating.

500-Pin SEARAY Additional Connection Accessories

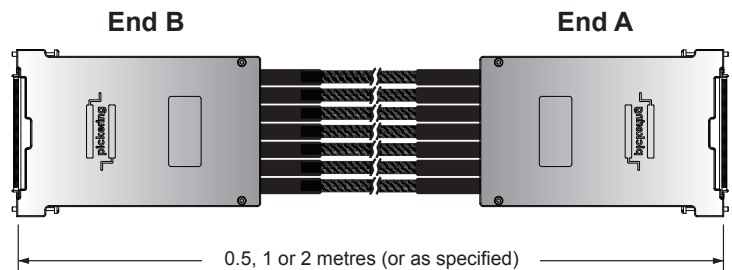
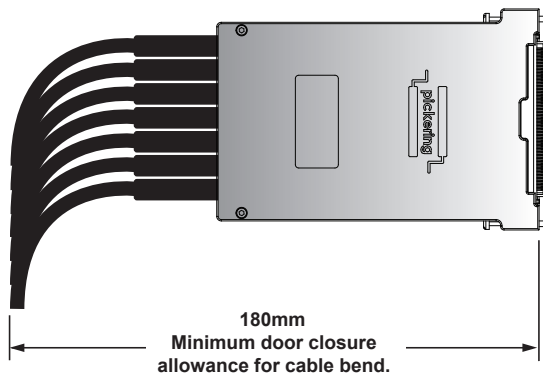
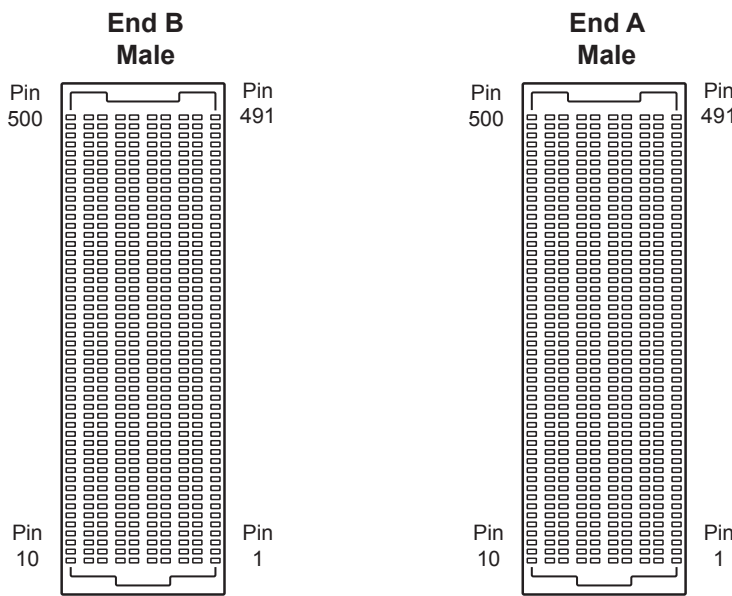
Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

500-Pin SEARAY Cable Assy - Male to Male

- 500-Port High Specification Cable
- 7 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction

The male connector of this cable assembly is suitable for direct connection to other products using the 500-Pin SEARAY connector. Screwlocks are provided to secure the cable assembly to a mating product.

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	500-Pin SEARAY (500-Port version)
Gender	Male
Securing Method	M2.5 screwlocks, male
Connector Type (End B):	500-Pin SEARAY (500-Port version)
Gender	Male
Securing Method	M2.5 screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	200VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H97.7 x W19.9 x D145mm
Cable Type:	
Conductor: Material	Tinned Copper
Strands	7/0.15mm (26AWG)
Resistance	0.2Ω/m
Insulation	PFA
Outer Sleeve	-
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	180mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

- 500-Pin SEARAY Cable Assy (500-Port Version), 1A,
 Male to Male, 0.5m Long **A500RMR-500RMR-0A050**
 Male to Male, 1.0m Long **A500RMR-500RMR-0A100**
 Male to Male, 2.0m Long **A500RMR-500RMR-0A200**

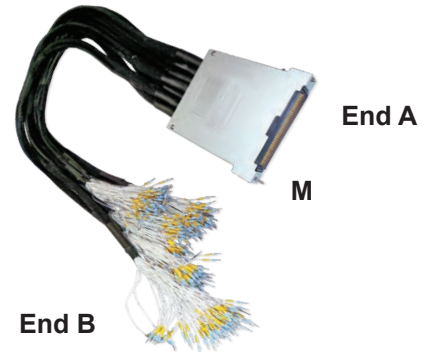
500-Pin SEARAY Cable Assy - Male to Unterminated

- 500-Port High Specification Cable
- 7 Wire Bundles to Improve Flexibility
- Fully Screened Cable with Strain Relief
- Fully Coded to Ensure Easy Connection

The male SEARAY connector of this cable assembly is suitable for direct connection to other products. Unterminated connections are provided at the other end of the cable for a variety of applications. Screwlocks enable the SEARAY connector to be secured to its mating product.

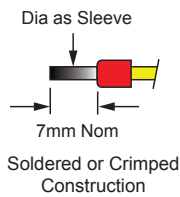
When using this product please ensure appropriate electrical safety precautions are observed.

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

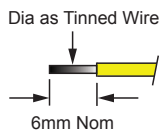


End B Options

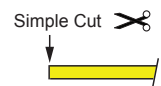
Ferrules



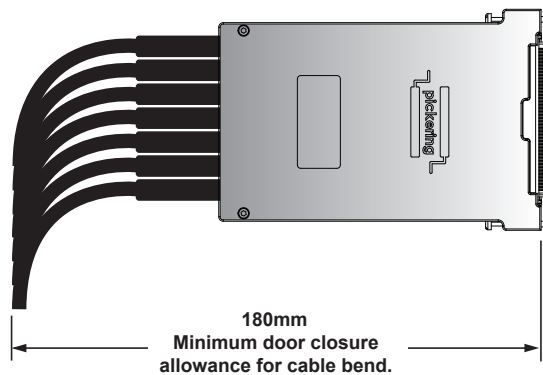
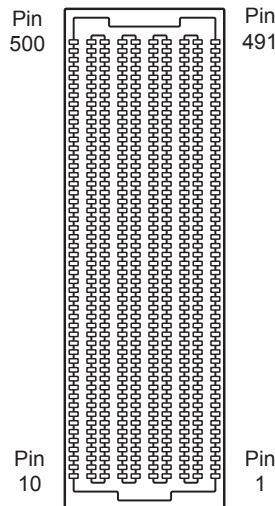
Tinned End



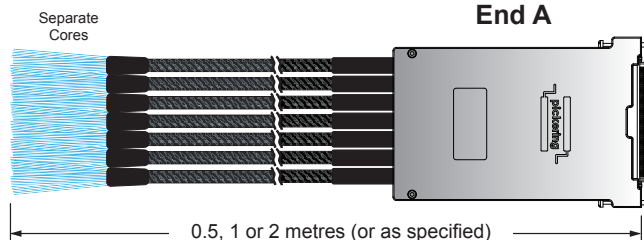
Cut End



End A - Male



End B



Technical Specification

Connector Type (End A):	500-Pin SEARAY (500-Port version)
Gender	Male
Securing Method	M2.5 screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nominal
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	200VDC
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H97.7 x W19.9 x D145mm
Cable Type:	
Conductor: Material	Tinned Copper
Strands	7/0.15mm (26AWG)
Resistance	0.2Ω/m
Insulation	PFA
Outer Sleeve	-
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	180mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

500-Pin SEARAY (500-Port Version) Cable Assy, 1A,

Male to Unterminated, Ferrules, 0.5m	A500RMR-F-0A050
Male to Unterminated, Ferrules, 1.0m	A500RMR-F-0A100
Male to Unterminated, Ferrules, 2.0m	A500RMR-F-0A200
Male to Unterminated, Tinned End, 0.5m	A500RMR-T-0A050
Male to Unterminated, Tinned End, 1.0m	A500RMR-T-0A100
Male to Unterminated, Tinned End, 2.0m	A500RMR-T-0A200
Male to Unterminated, Cut End, 0.5m	A500RMR-C-0A050
Male to Unterminated, Cut End, 1.0m	A500RMR-C-0A100
Male to Unterminated, Cut End, 2.0m	A500RMR-C-0A200

500-Pin SEARAY Connector - Male

- 500-Pin (500-Port) Connector
- Connector Only or Connector and Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate a cable via solder bucket connections to a PCB linked to a 500-Pin SEARAY connector. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

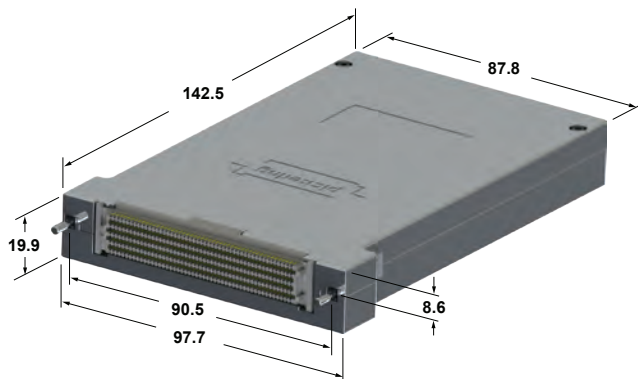
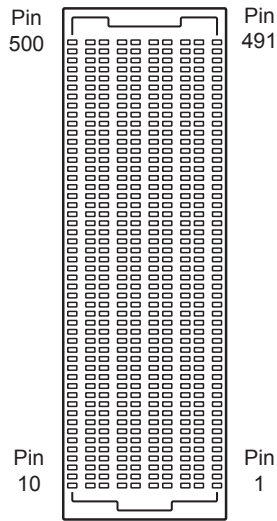
When this product is used without a backshell users should make their own cable strain relief arrangements and ensure that appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



With Backshell

Male



Pin-Out information can be found on the next page of this document.

Technical Specification

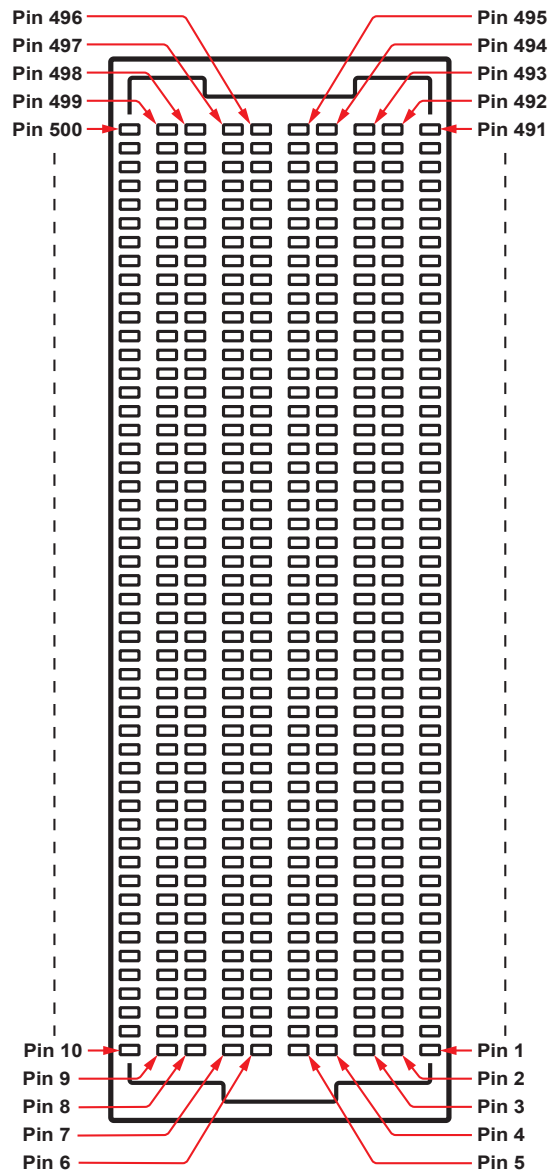
Connector Type:	500-Pin SEARAY (500-Port version)
Gender	Male
Securing Method:	
Product with Backshell	M2.5 screwlocks, male
Product without Backshell	Push fit
Wire Connection	Solder bucket headers
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	200VDC
Cable Exit:	Rear
Cable Exit Size	-
Overall Size (Approx)	H97.7 x W19.9 x D145mm
500-Pin SEARAY:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	26AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

500-Pin SEARAY Connector (500-Port Version), 1A, Solder Bucket, with Backshell and Male M2.5 Screwlocks:

- Male** C500RMR-4SB-0A
Without Backshell, Male C500RMX-4SB-0A

Pin-Out Information for 500-Pin SEARAY Connector - Male (500-Port Version)



Male SEARAY Connector
(viewed from the mating face)

200-Pin LFH Connector Accessories

- **150VDC, 1A**
- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**



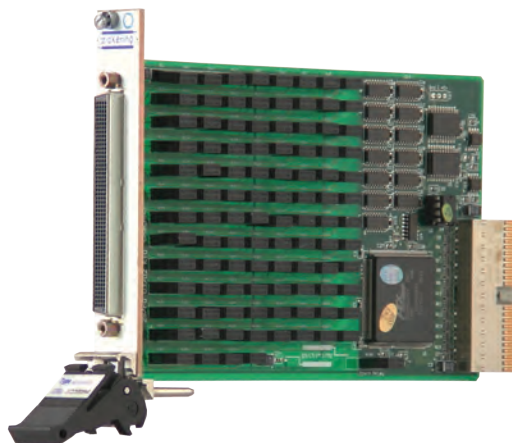
The 200-Pin LFH connector is used on switching products to provide a high density 1A connector solution that is suitable for use to 150V. Pickering Interfaces has developed a full range of standard connection solutions to simplify the task of integrating product into a test system. The high density and skill levels involved in terminating this connector means that we do strongly recommend that users use Pickering Interfaces solutions.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer tinned copper ends.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 200-Pin LFH Connection Accessories







Cables: 200-Pin LFH Connector to Connector						
End 1	End 2	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Type (inc Screwlocks)	Type (inc Screwlocks)	0.5m Long	1m Long	2m Long		
200-Pin LFH, Male, (4-40 UNC, Male)	200-Pin LFH, Female (4-40 UNC, Male)	A200LMR-200LFR-6A050	A200LMR-200LFR-6A100	A200LMR-200LFR-6A200	Yes (Male end)	2.5
	200-Pin LFH, Female, (4-40 UNC, Female)	A200LMR-200LFR-5A050	A200LMR-200LFR-5A100	A200LMR-200LFR-5A200	Yes (Male end)	2.7
200-Pin LFH, Male, 90° Exit (4-40 UNC, Male)	200-Pin LFH, Female, (4-40 UNC, Female)	A200LMB-200LFR-5A050	A200LMB-200LFR-5A100	A200LMB-200LFR-5A200	Yes (Male end)	2.8
200-Pin LFH, Male, (4-40 UNC, Male)	200-Pin LFH, Male, (4-40 UNC, Male)	40-970A-200-0.5m-MM	40-970A-200-1m-MM	40-970A-200-2m-MM	Yes	2.6
200-Pin LFH, Female, (4-40 UNC, Male)	200-Pin LFH, Female, (4-40 UNC, Male)	A200LFR-200LFR-6A050	A200LFR-200LFR-6A100	A200LFR-200LFR-6A200	No	2.25
200-Pin LFH, Female, (4-40 UNC, Female)	200-Pin LFH, Female, (4-40 UNC, Female)	40-970A-200-0.5m-FF	40-970A-200-1m-FF	40-970A-200-2m-FF	No	2.26
200-Pin LFH, Male, (4-40 UNC, Male)	4 x 50-Pin Ribbon, Female, (Push Fit)	40-971A-200-0.5m-MF	40-971A-200-1m-MF	40-971A-200-2m-MF	Yes	2.11
	4 x 50-Pin Ribbon, Male, (Latches)	40-971A-200-0.5m-MM	40-971A-200-1m-MM	40-971A-200-2m-MM	Yes	2.13
	4 x 50-Pin D-Sub, Male, (4-40 UNC, Male)	40-971A-200D-0.5m-MM	40-971A-200D-1m-MM	40-971A-200D-2m-MM	Yes	2.15
	4 x 50-Pin D-Sub, Female, (4-40 UNC, Female)	40-971A-200D-0.5m-MF	40-971A-200D-1m-MF	40-971A-200D-2m-MF	Yes	2.15
200-Pin LFH, Female, (4-40 UNC, Female)	4 x 50-Pin Ribbon, Female, (Push Fit)	40-971A-200-0.5m-FF	40-971A-200-1m-FF	40-971A-200-2m-FF	No	2.29
	4 x 50-Pin Ribbon, Male, (Latches)	40-971A-200-0.5m-FM	40-971A-200-1m-FM	40-971A-200-2m-FM	No	2.31



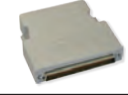


Cables: 200-Pin LFH Connector to Underterminated						
End 1 (inc Screwlocks)	End 2 Underterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
		0.5m Long	1m Long	2m Long		
200-Pin LFH, Male, (4-40 UNC, Male)	Tinned Ends	40-972A-200-0.5m-MU	40-972A-200-1m-MU	40-972A-200-2m-MU	Yes	2.9
200-Pin LFH, Female, (4-40 UNC, Female)		40-972A-200-0.5m-FU	40-972A-200-1m-FU	40-972A-200-2m-FU	No	2.27

Connector Blocks and Cable Connectors: 200-Pin LFH						
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page		
	With Backshell	Without Backshell				
PXI Connector Block, Male (4-40 UNC, Male)	40-965-200-M	92-965-200-M	Yes (PXI)	2.18		
Connector Block, Female (4-40 UNC, Female)	B200LFR-2F-5B	B200LFX-2F-5B	No	2.33		
PCI Connector Block, Male (4-40 UNC, Male)	50-965-200-M	N/A	Yes (PCI)	2.19		
Cable Connector, Male (4-40 UNC, Male)	40-961A-200-M	92-961-200-M	Yes	2.20		
Cable Connector, Male, 90° Exit (4-40 UNC, Male)	C200LMB-2SP-5A	N/A	Yes	2.23		
Cable Connector, Male (M3, Male)	40-961A-200-M3-M	N/A	No	2.34		
Cable Connector, Female (4-40 UNC, Male)	C200LFR-2SP-5A	C200LFX-2SP-5A	No	2.35		
Cable Connector, Female (4-40 UNC, Female)	40-961A-200-F	92-961-200-F	No	2.36		
Cable Connector, Female (M3, Female)	40-961A-200-M3-F	N/A	No	2.36		


PCB Connectors: 200-Pin LFH						
Type	Mount	Gender	Screwlocks	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	4-40 UNC, Female	40-963-200-RF	No	2.23
	Straight PCB Mount	Male	4-40 UNC, Female	40-963-200-SM	No	2.22

Contents - Mating Accessories For Pickering Products

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 200-Pin LFH, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	Female, with Male Screwlocks	Page 2.5
			Male, with Male Screwlocks	Page 2.6
	Extender Cable Assy, 200-Pin LFH, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	Female, with Female Screwlocks	Page 2.7
	Extender Cable Assy, 200-Pin LFH, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks, Cable Exit 90° (Towards Pin 1)	Female, with Female Screwlocks, Rear Cable Exit	Page 2.8
	Cable Assy, 200-Pin LFH, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	Unterminated with Tinned Ends	Page 2.9
	Cable Assy, 200-Pin LFH, 1A, to 50-Pin Ribbon, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	4 x 50-Pin Ribbon, Female	Page 2.11
			4 x 50-Pin Ribbon, Male	Page 2.13
	Cable Assy, 200-Pin LFH, 1A, to 50-Pin D-Type, 0.5m, 1m and 2m Custom lengths by quotation	Male, with Male Screwlocks	4 x 50-Pin D-Type, Fem, with Female Screwlocks	Page 2.15
			4 x 50-Pin D-Type, Male, with Male Screwlocks	

Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	PXI Connector Block, 200-Pin LFH, 1A, Screw Terminal.	With or Without Backshell	Male	Page 2.18
	PCI Connector Block, 200-Pin LFH, 1A, Screw Terminal.	With Backshell		Page 2.19
	Cable Connector 200-Pin LFH, 1A, Solder-Pin, 4-40 UNC Male Screwlocks	With or Without Backshell		Page 2.20
	Cable Connector 200-Pin LFH, 1A, Cable Exit 90°, Solder-Pin, 4-40 UNC Male Screwlocks	With Backshell		Page 2.21
	PCB Connector 200-Pin LFH, 1A, Female Screwlocks	Straight PCB Mount		Page 2.22




Female PCB Connectors

View	Description	Type	Gender	Page
	PCB Connector 200-Pin LFH, 1A, 4-40 UNC Female Screwlocks	Right Angle PCB Mount	Female	Page 2.23


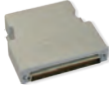


Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies

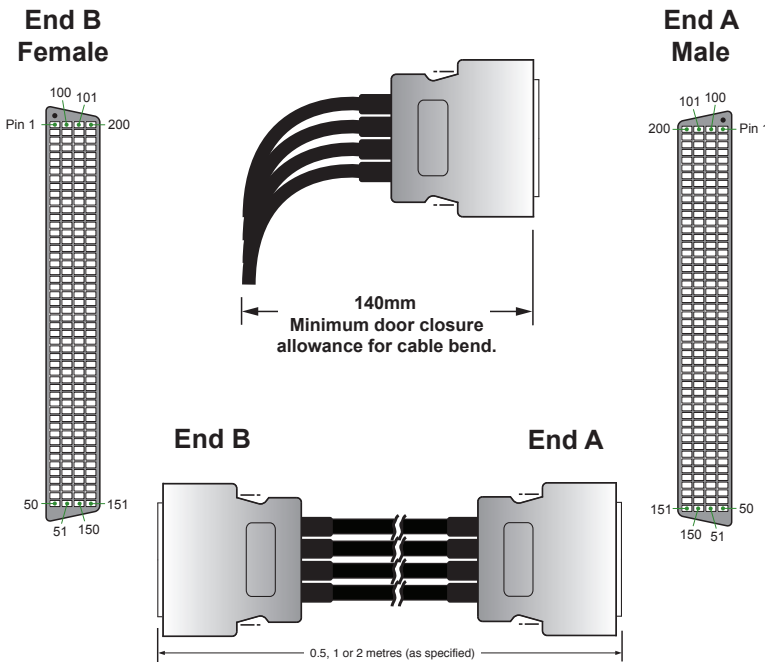
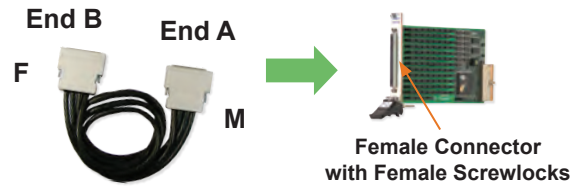
View	Description	End 1	End 2	Page
	Cable Assy, 200-Pin LFH, 1A 0.5m, 1m and 2m Custom lengths by quotation	Female, with Male Screwlocks	Female, with Male Screwlocks	Page 2.25
		Female, with Female Screwlocks	Female, with Female Screwlocks	Page 2.26
	Cable Assy, 200-Pin LFH to Unterminated, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female, with Female Screwlocks	Unterminated with Tinned Ends	Page 2.27
	Cable Assy, 200-Pin LFH, 1A, to 50-Pin Ribbon, 0.5m, 1m and 2m Custom lengths by quotation	Female, with Female Screwlocks	4 x 50-Pin Ribbon, Female	Page 2.29
			4 x 50-Pin Ribbon, Male	Page 2.31

Connector Blocks/Connectors

View	Description	Type	Gender	Page
	Connector Block, 200-Pin LFH, 1A, Screw Terminal. 4-40 UNC Female Screwlocks	With or Without Backshell	Female	Page 2.33
	Cable Connector 200-Pin LFH, 1A, Solder-Pin, M3 Male Screwlocks	With Backshell	Male	Page 2.34
	Cable Connector 200-Pin LFH, 1A, Solder to PCB, 4-40 UNC Male Screwlocks	With or Without Backshell	Female	Page 2.35
	Cable Connector 200-Pin LFH, 1A, Solder to PCB, 4-40 UNC or M3 Female Screwlocks	With or Without Backshell	Female	Page 2.36
		With Backshell (M3)		

200-Pin LFH Cable Assembly - Male to Female

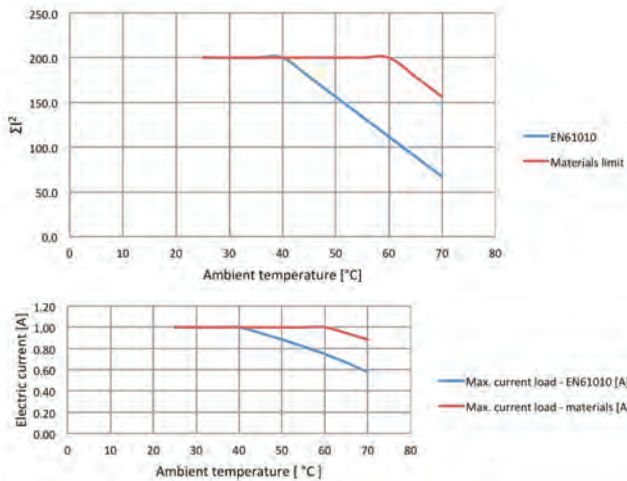
- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Screened Cable Construction with Strain Relief
- Female Connectors include Male Screwlocks
- End B is Suitable for Connecting to PCB Mount Connectors and Breakouts



Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mΩ
Cable Exit	Rear
Overall Size (Approx) Male	H87 x W18 x D84mm
Female	H92 x W18 x D84.7mm
Cable Type:	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)
Notes:	Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for A200LMR-200LFR-6A100



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

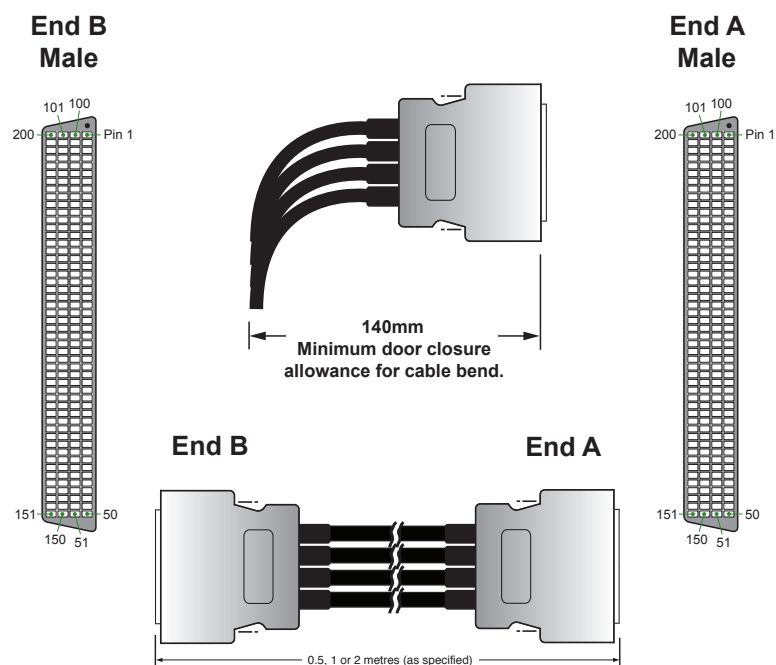
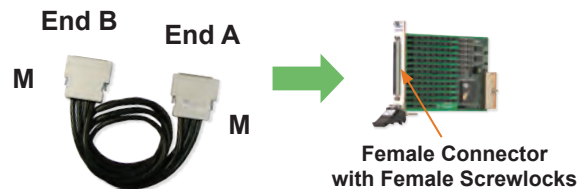
200-Pin LFH Cable Assy, 1A, Male to Female,

- 0.5m Long**
- 1.0m Long**
- 2.0m Long**

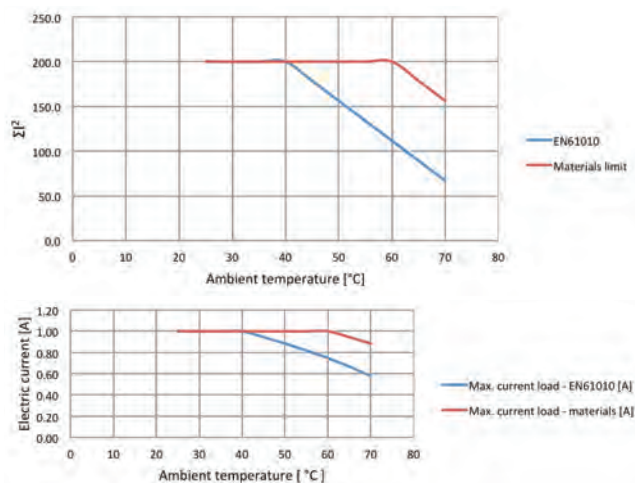
- A200LMR-200LFR-6A050**
- A200LMR-200LFR-6A100**
- A200LMR-200LFR-6A200**

200-Pin LFH Cable Assembly - Male to Male

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- End B is Suitable for Connection to Another Module, or for Connection to a Female Connector with 4-40UNC Female Screwlocks



Characteristic Plots for 40-970A-200-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H87 x W18 x D84mm
Cable Type:	
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)
Notes:	
	Other cable lengths can be supplied in multiples of 0.5m.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Male to Male,

0.5m Long

40-970A-200-0.5m-MM

1.0m Long

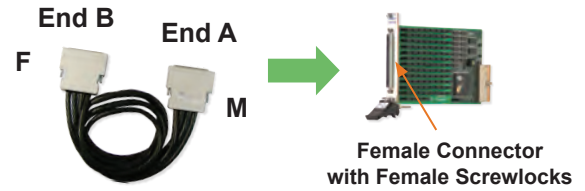
40-970A-200-1m-MM

2.0m Long

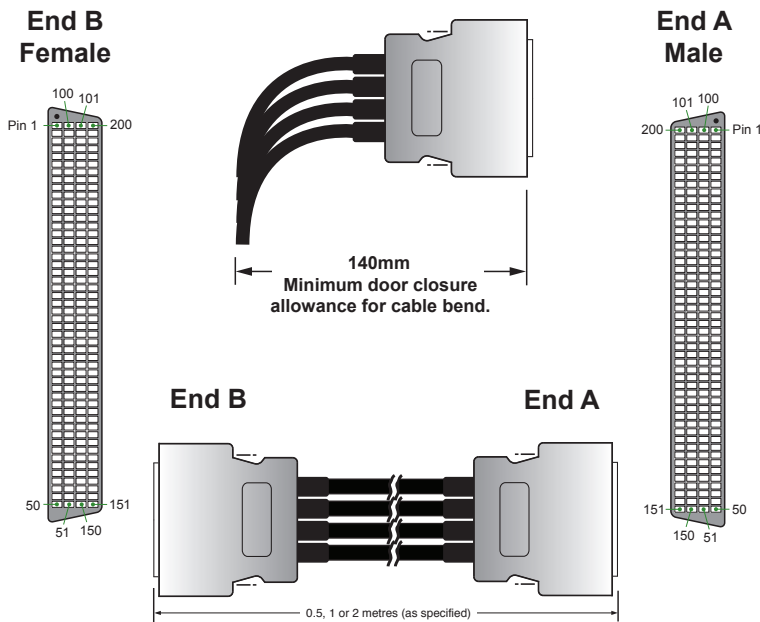
40-970A-200-2m-MM

200-Pin LFH Extender Cable Assembly - Male to Female

- High Specification Cable with Strain Relief
- 4 Wire Bundles to Improve Flexibility
- Fully Screened Cable Construction
- End B is Suitable for Connection to Another Cable



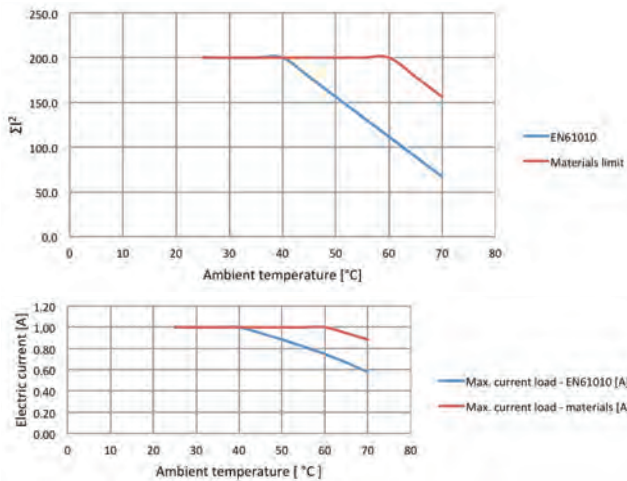
Note: 200-Pin female cable connectors with female screwlocks only connect to a Pickering 200-Pin male cable connector with male screwlocks and to a 200-Pin male connector block.



Technical Specification

Connector Type (End A): Gender Securing Method	200-Pin LFH Male 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	200-Pin LFH Female 4-40 UNC screwlocks, female
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx) Male Female	Gold over nickel <20mOhm Rear H87 x W18 x D84mm H97 x W18 x D84.7mm
Cable Type:	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch
Conductor: Material Strands Resistance Insulation	Tinned Copper 7/36 (28AWG) 0.2Ω/m PVC
Outer Sleeve Screened Construction Additional Braided Sleeve	PVC Yes No
Cable O/D Minimum Bend Radius Door Closure Allowance	10mm (Individual cables) 25mm 140mm (see diagram)
Notes:	<ul style="list-style-type: none"> • The female end of this extender cable allows the fitting of a 200-Pin male cable connector with male screwlocks. • Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for A200LMR-200LFR-5A100



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

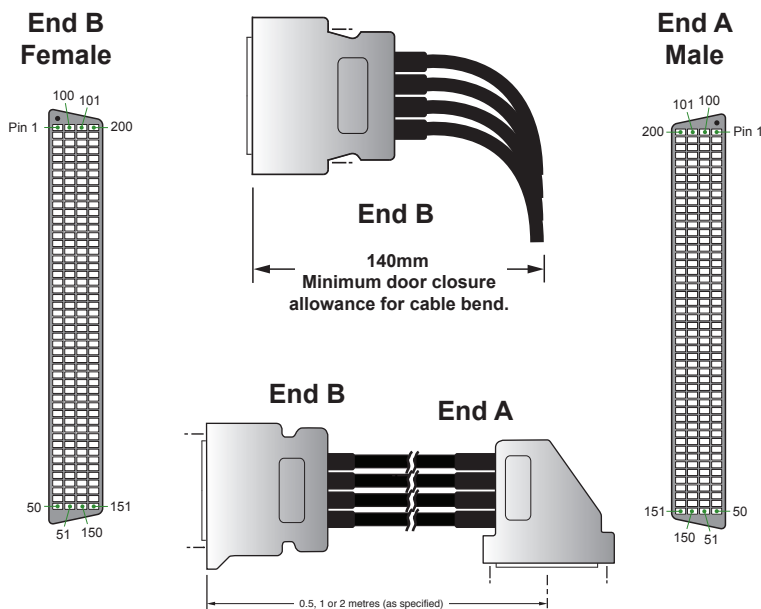
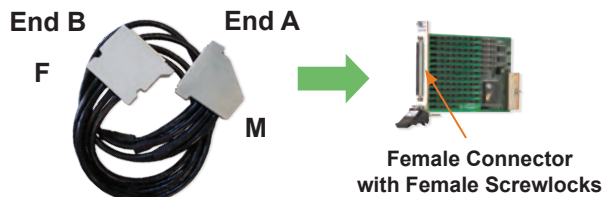
Product Order Codes

200-Pin LFH Extender Cable Assy, 1A, Male to Female,	
0.5m Long	A200LMR-200LFR-5A050
1.0m Long	A200LMR-200LFR-5A100
2.0m Long	A200LMR-200LFR-5A200

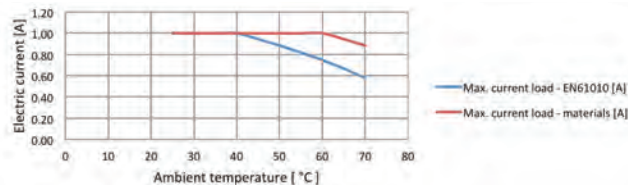
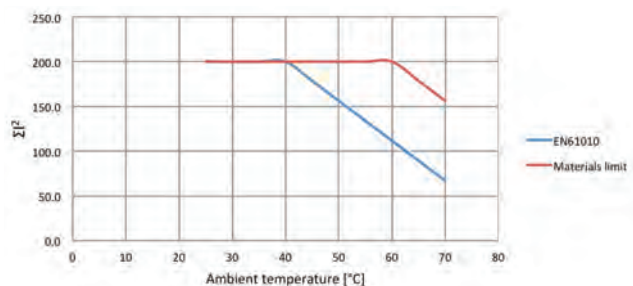
200-Pin LFH Extender Cable Assembly - Male to Female

- High Specification Cable with Strain Relief
- Male Connector with Bottom Cable Exit
- 4 Wire Bundles to Improve Flexibility
- Fully Screened Cable Construction
- End B is Suitable for Connection to Another Cable

Note: 200-Pin female cable connectors with female screwlocks only connect to a Pickering 200-Pin male cable connector with male screwlocks and to a 200-Pin male connector block.



Characteristic Plots for A200LMB-200LFR-5A100



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Male: 90° (Towards Pin 1) Female: Rear
Overall Size (Approx)	
Male	H87 x W17 x D80mm
Female	H97 x W18 x D84.7mm
Cable Type:	
	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc)
	1.27mm pitch
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	End A: 80mm (Connector) End B: 140mm (see diagram)

Notes:

- The female end of this extender cable allows the fitting of a 200-Pin male cable connector with male screwlocks.
- Other cable lengths can be supplied in multiples of 0.5m.

Product Order Codes

200-Pin LFH Extender Cable Assy, 1A, Male to Female,

0.5m Long

A200LMB-200LFR-5A050

1.0m Long

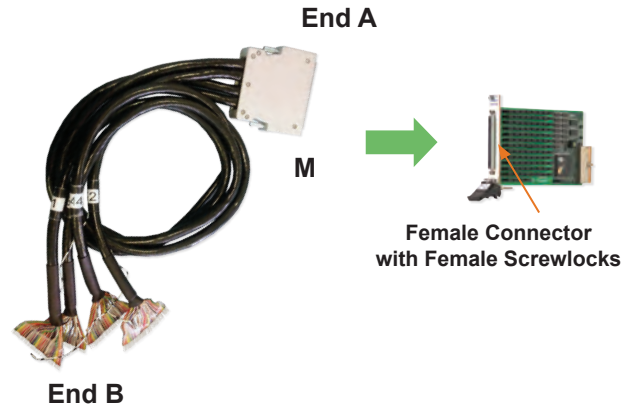
A200LMB-200LFR-5A100

2.0m Long

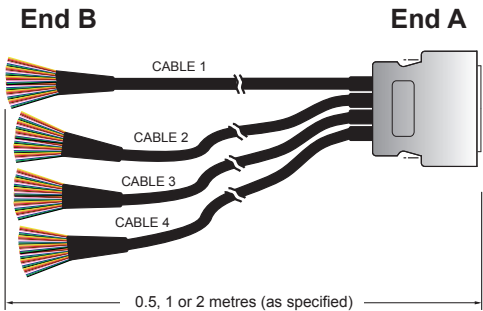
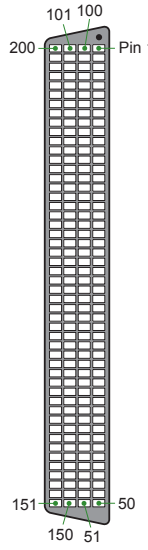
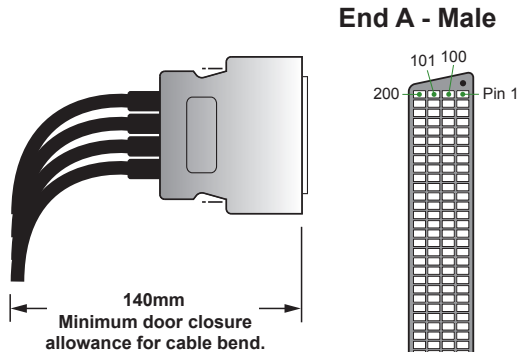
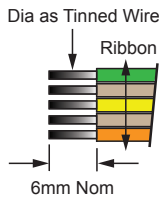
A200LMB-200LFR-5A200

200-Pin LFH Cable Assembly - Male to Unterminated

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief in LFH Connector
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection



End B Tinned Ends only

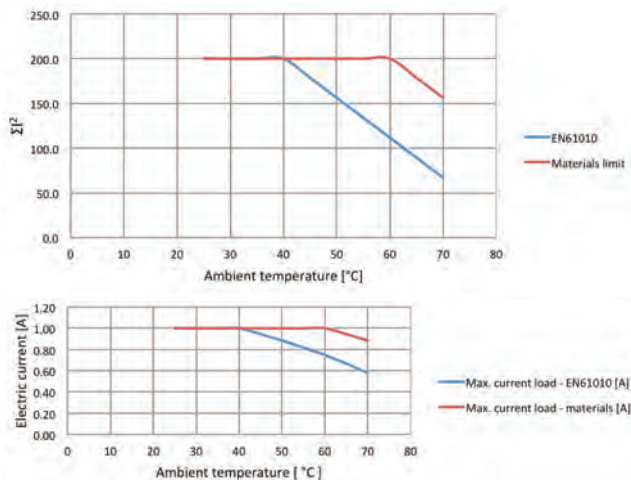


Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A): Gender Securing Method	200-Pin LFH Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Contacts	4 x 50-Pin Unterminated Tinned contacts only Yes. Color coded. 6mm min tinned copper
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold over nickel <20mOhm Rear H87 x W18 x D84mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material Strands Resistance Insulation	Tinned copper 7/36 (28AWG) 0.2Ω/m PVC
Outer Sleeve Screened Construction Additional Braided Sleeve	PVC Yes No
Cable O/D Minimum Bend Radius Door Closure Allowance	10mm (Individual cables) 25mm 140mm (see diagram)
Notes:	Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-972A-200-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 200-Pin LFH Cable Assy, 1A, Male to Unterminated,**
Tinned Ends, 0.5m Long 40-972A-200-0.5m-MU
Tinned Ends, 1.0m Long 40-972A-200-1m-MU
Tinned Ends, 2.0m Long 40-972A-200-2m-MU

Wiring Schedule for 200-Pin LFH Cable Assy Male to Unterminated

End B

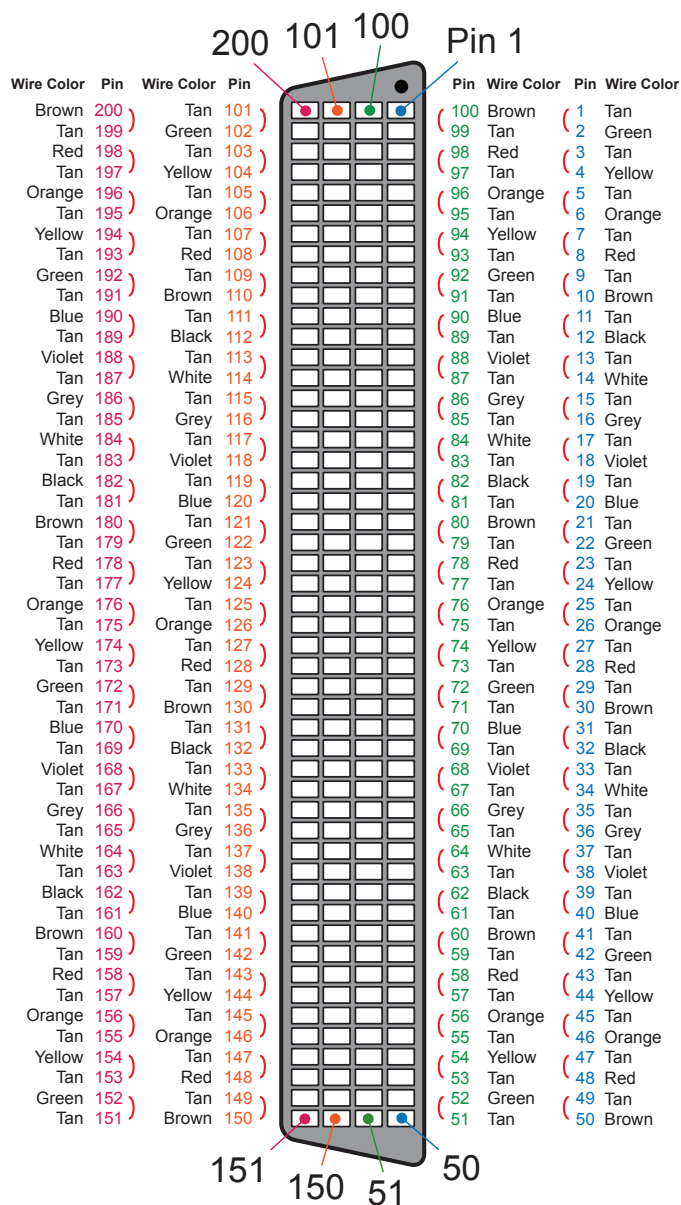
200-Pin LFH Connector Wiring (Cable 1)			
Pin	Wire Color	Pin	Wire Color
2	Green	1	Tan (Green Pair)
4	Yellow	3	Tan (Yellow Pair)
6	Orange	5	Tan (Orange Pair)
8	Red	7	Tan (Red Pair)
10	Brown	9	Tan (Brown Pair)
12	Black	11	Tan (Black Pair)
14	White	13	Tan (White Pair)
16	Grey	15	Tan (Grey Pair)
18	Violet	17	Tan (Violet Pair)
20	Blue	19	Tan (Blue Pair)
22	Green	21	Tan (Green Pair)
24	Yellow	23	Tan (Yellow Pair)
26	Orange	25	Tan (Orange Pair)
28	Red	27	Tan (Red Pair)
30	Brown	29	Tan (Brown Pair)
32	Black	31	Tan (Black Pair)
34	White	33	Tan (White Pair)
36	Grey	35	Tan (Grey Pair)
38	Violet	37	Tan (Violet Pair)
40	Blue	39	Tan (Blue Pair)
42	Green	41	Tan (Green Pair)
44	Yellow	43	Tan (Yellow Pair)
46	Orange	45	Tan (Orange Pair)
48	Red	47	Tan (Red Pair)
50	Brown	49	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 2)			
Pin	Wire Color	Pin	Wire Color
52	Green	51	Tan (Green Pair)
54	Yellow	53	Tan (Yellow Pair)
56	Orange	55	Tan (Orange Pair)
58	Red	57	Tan (Red Pair)
60	Brown	59	Tan (Brown Pair)
62	Black	61	Tan (Black Pair)
64	White	63	Tan (White Pair)
66	Grey	65	Tan (Grey Pair)
68	Violet	67	Tan (Violet Pair)
70	Blue	69	Tan (Blue Pair)
72	Green	71	Tan (Green Pair)
74	Yellow	73	Tan (Yellow Pair)
76	Orange	75	Tan (Orange Pair)
78	Red	77	Tan (Red Pair)
80	Brown	79	Tan (Brown Pair)
82	Black	81	Tan (Black Pair)
84	White	83	Tan (White Pair)
86	Grey	85	Tan (Grey Pair)
88	Violet	87	Tan (Violet Pair)
90	Blue	89	Tan (Blue Pair)
92	Green	91	Tan (Green Pair)
94	Yellow	93	Tan (Yellow Pair)
96	Orange	95	Tan (Orange Pair)
98	Red	97	Tan (Red Pair)
100	Brown	99	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 3)			
Pin	Wire Color	Pin	Wire Color
102	Green	101	Tan (Green Pair)
104	Yellow	103	Tan (Yellow Pair)
106	Orange	105	Tan (Orange Pair)
108	Red	107	Tan (Red Pair)
110	Brown	109	Tan (Brown Pair)
112	Black	111	Tan (Black Pair)
114	White	113	Tan (White Pair)
116	Grey	115	Tan (Grey Pair)
118	Violet	117	Tan (Violet Pair)
120	Blue	119	Tan (Blue Pair)
122	Green	121	Tan (Green Pair)
124	Yellow	123	Tan (Yellow Pair)
126	Orange	125	Tan (Orange Pair)
128	Red	127	Tan (Red Pair)
130	Brown	129	Tan (Brown Pair)
132	Black	131	Tan (Black Pair)
134	White	133	Tan (White Pair)
136	Grey	135	Tan (Grey Pair)
138	Violet	137	Tan (Violet Pair)
140	Blue	139	Tan (Blue Pair)
142	Green	141	Tan (Green Pair)
144	Yellow	143	Tan (Yellow Pair)
146	Orange	145	Tan (Orange Pair)
148	Red	147	Tan (Red Pair)
150	Brown	149	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 4)			
Pin	Wire Color	Pin	Wire Color
152	Green	151	Tan (Green Pair)
154	Yellow	153	Tan (Yellow Pair)
156	Orange	155	Tan (Orange Pair)
158	Red	157	Tan (Red Pair)
160	Brown	159	Tan (Brown Pair)
162	Black	161	Tan (Black Pair)
164	White	163	Tan (White Pair)
166	Grey	165	Tan (Grey Pair)
168	Violet	167	Tan (Violet Pair)
170	Blue	169	Tan (Blue Pair)
172	Green	171	Tan (Green Pair)
174	Yellow	173	Tan (Yellow Pair)
176	Orange	175	Tan (Orange Pair)
178	Red	177	Tan (Red Pair)
180	Brown	179	Tan (Brown Pair)
182	Black	181	Tan (Black Pair)
184	White	183	Tan (White Pair)
186	Grey	185	Tan (Grey Pair)
188	Violet	187	Tan (Violet Pair)
190	Blue	189	Tan (Blue Pair)
192	Green	191	Tan (Green Pair)
194	Yellow	193	Tan (Yellow Pair)
196	Orange	195	Tan (Orange Pair)
198	Red	197	Tan (Red Pair)
200	Brown	199	Tan (Brown Pair)

End A

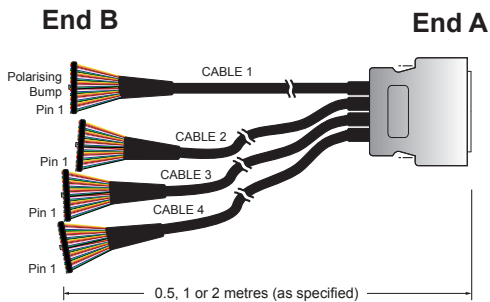
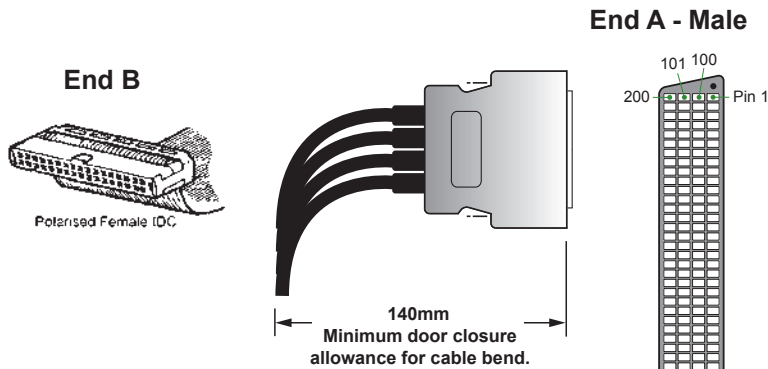
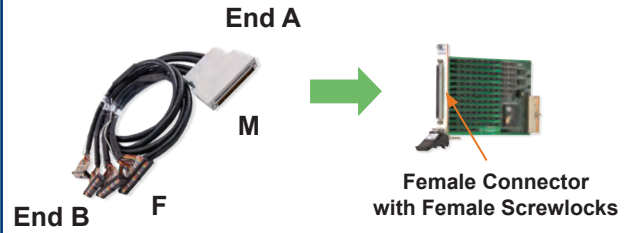


200-Pin LFH Male Connector (Mating Face)

— Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

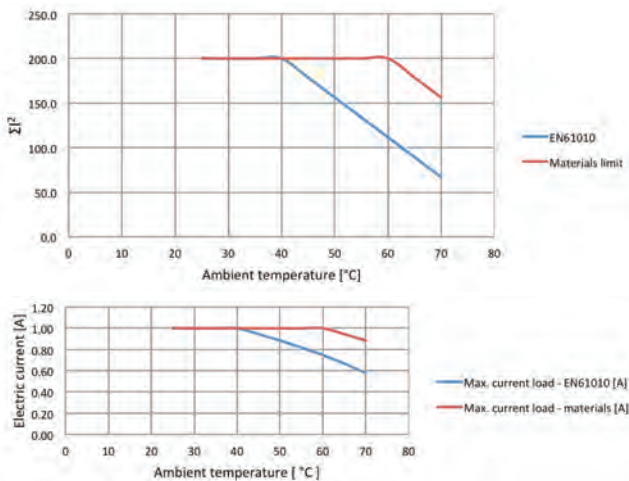
Cable Assembly: 200-Pin LFH (Male) to 4 x 50-Pin Ribbon (Female)

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection



Wiring Schedule information can be found on the next page of this document.

Characteristic Plots for 40-971A-200-1m



The top graph shows the ambient ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

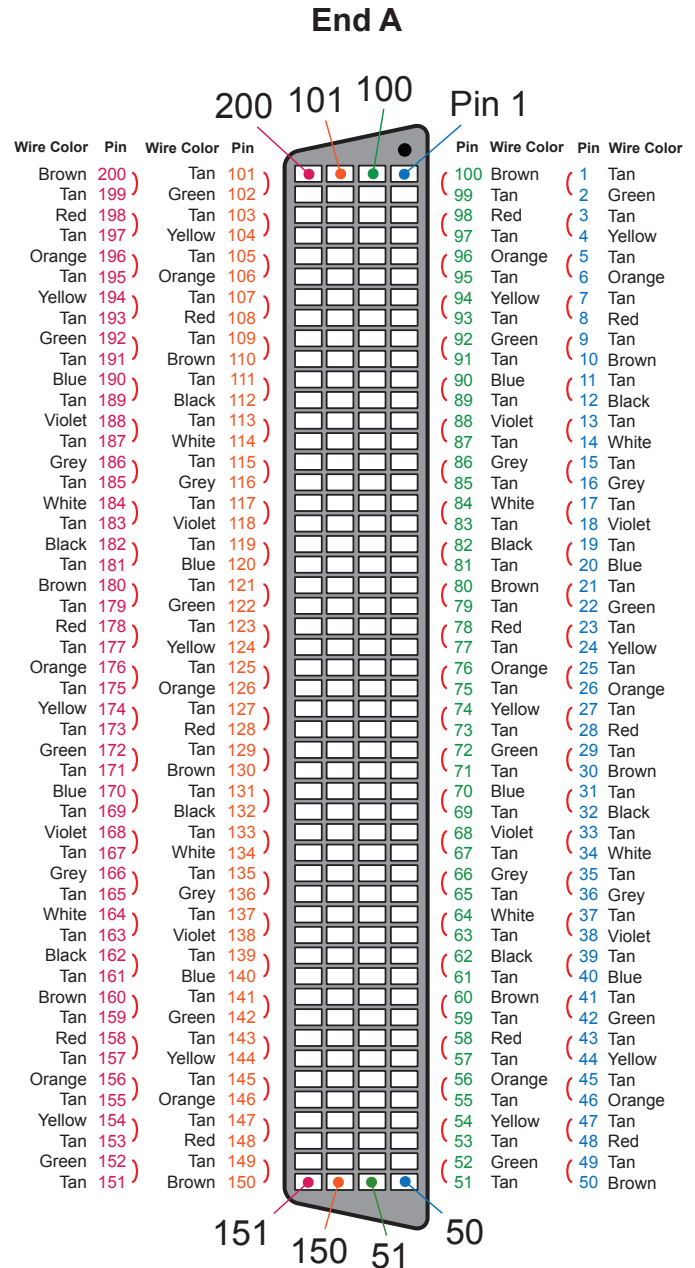
Connector Type (End A): Gender Securing Method	200-Pin LFH Male 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	4 off x 50-Pin ribbon, 0.1" (2.54mm) pitch Female, Push fit
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MOhm
Connector (End A): Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold over nickel <20mOhm Rear H87 x W18 x D84mm
Connectors (End B): Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Phosphor bronze/Au flash <20mOhm Side H17 x W68 x D6mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material Strands Resistance Insulation	Tinned copper 7/36 (28AWG) 0.2Ω/m PVC
Outer Sleeve Screened Construction Additional Braided Sleeve	PVC Yes No
Cable O/D Minimum Bend Radius Door Closure Allowance	10mm (Individual cables) 25mm 140mm (see diagram)
Notes:	Other cable lengths can be supplied in multiples of 0.5m.

Product Order Codes

- 200-Pin LFH Cable Assy, 1A, Male to 50-Pin Ribbon, Female,**
0.5m Long 40-971A-200-0.5m-MF
1.0m Long 40-971A-200-1m-MF
2.0m Long 40-971A-200-2m-MF

Wiring Schedule for 200-Pin LFH (Male) to 4 x 50-Pin IDC (Female)

CABLE 1				CABLE 2				CABLE 3				CABLE 4			
200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	Color
2	Green	1	Tan	2	Green	1	Tan	2	Green	1	Tan	2	Green	1	Tan
4	Yellow	3	Tan	4	Yellow	3	Tan	4	Yellow	3	Tan	4	Yellow	3	Tan
6	Orange	5	Tan	6	Orange	5	Tan	6	Orange	5	Tan	6	Orange	5	Tan
8	Red	7	Tan	8	Red	7	Tan	8	Red	7	Tan	8	Red	7	Tan
10	Brown	9	Tan	10	Brown	9	Tan	10	Brown	9	Tan	10	Brown	9	Tan
12	Black	11	Tan	12	Black	11	Tan	12	Black	11	Tan	12	Black	11	Tan
14	White	13	Tan	14	White	13	Tan	14	White	13	Tan	14	White	13	Tan
16	Grey	15	Tan	16	Grey	15	Tan	16	Grey	15	Tan	16	Grey	15	Tan
18	Violet	17	Tan	18	Violet	17	Tan	18	Violet	17	Tan	18	Violet	17	Tan
20	Blue	19	Tan	20	Blue	19	Tan	20	Blue	19	Tan	20	Blue	19	Tan
22	Green	21	Tan	22	Green	21	Tan	22	Green	21	Tan	22	Green	21	Tan
24	Yellow	23	Tan	24	Yellow	23	Tan	24	Yellow	23	Tan	24	Yellow	23	Tan
26	Orange	25	Tan	26	Orange	25	Tan	26	Orange	25	Tan	26	Orange	25	Tan
28	Red	27	Tan	28	Red	27	Tan	28	Red	27	Tan	28	Red	27	Tan
30	Brown	29	Tan	30	Brown	29	Tan	30	Brown	29	Tan	30	Brown	29	Tan
32	Black	31	Tan	32	Black	31	Tan	32	Black	31	Tan	32	Black	31	Tan
34	White	33	Tan	34	White	33	Tan	34	White	33	Tan	34	White	33	Tan
36	Grey	35	Tan	36	Grey	35	Tan	36	Grey	35	Tan	36	Grey	35	Tan
38	Violet	37	Tan	38	Violet	37	Tan	38	Violet	37	Tan	38	Violet	37	Tan
40	Blue	39	Tan	40	Blue	39	Tan	40	Blue	39	Tan	40	Blue	39	Tan
42	Green	41	Tan	42	Green	41	Tan	42	Green	41	Tan	42	Green	41	Tan
44	Yellow	43	Tan	44	Yellow	43	Tan	44	Yellow	43	Tan	44	Yellow	43	Tan
46	Orange	45	Tan	46	Orange	45	Tan	46	Orange	45	Tan	46	Orange	45	Tan
48	Red	47	Tan	48	Red	47	Tan	48	Red	47	Tan	48	Red	47	Tan
50	Brown	49	Tan	50	Brown	49	Tan	50	Brown	49	Tan	50	Brown	49	Tan



50-Pin IDC Female Connectors (Mating Face)

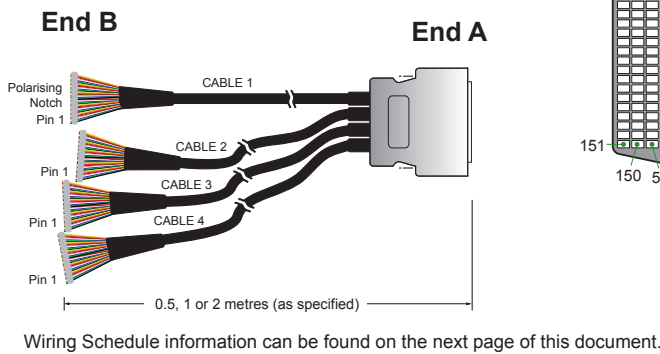
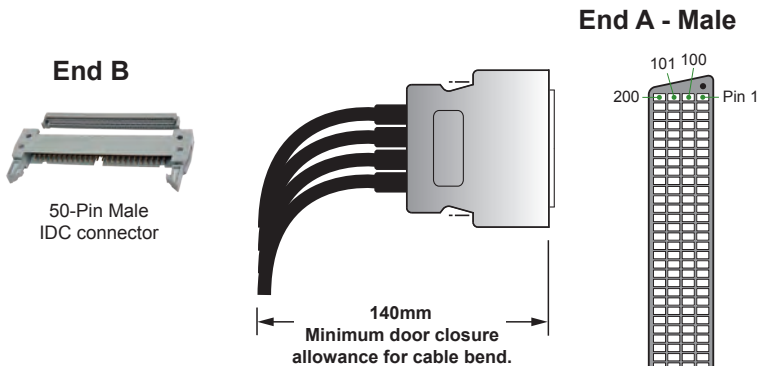
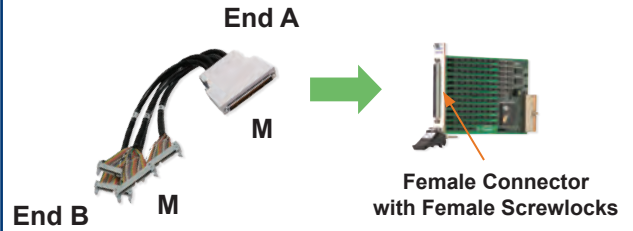
Note: The cables are formed of twisted pairs of the odd and even wires (1&2, 3&4, etc)

200-Pin LFH Male Connector (Mating Face)

↪ Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

Cable Assembly: 200-Pin LFH (Male) to 4 x 50-Pin Ribbon (Male)

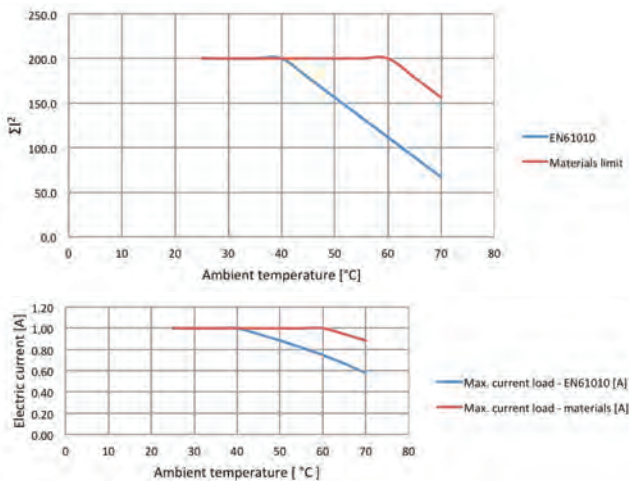
- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection



Technical Specification

Connector Type (End A): Gender Securing Method	200-Pin LFH Male 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	4 off x 50-Pin ribbon, 0.1" (2.54mm) pitch Male, Latches
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MΩm
Connector (End A): Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold over nickel <20mΩm Rear H87 x W18 x D84mm
Connectors (End B): Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Cu alloy/selective Au flash <20mΩm Side H30.4 x W82.3 x D8mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch. Tinned copper 7/36 (28AWG) 0.2Ω/m PVC PVC Yes No 10mm (Individual cables) 25mm 140mm (see diagram)
Notes:	Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-971A-200-1m



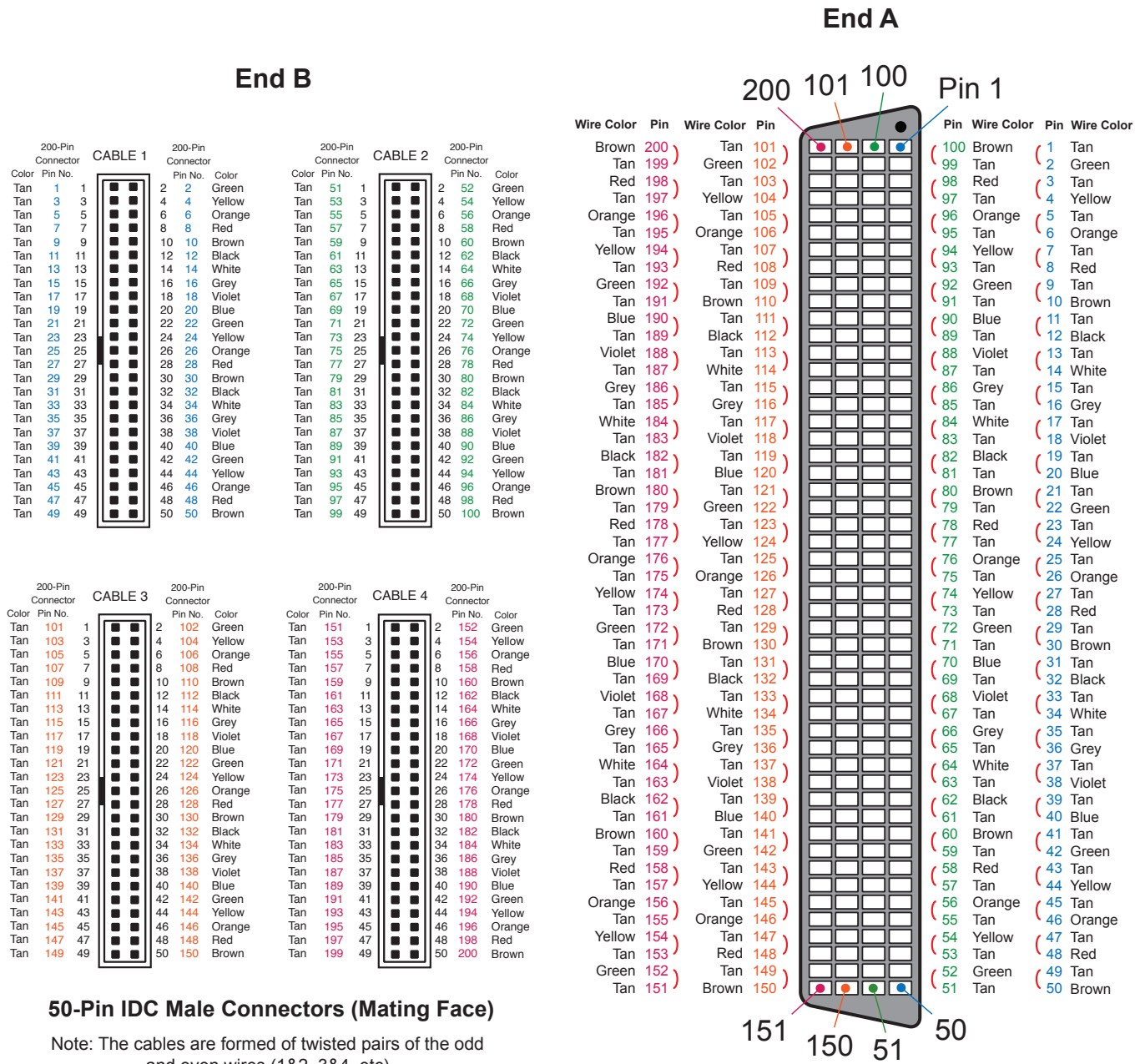
The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 200-Pin LFH Cable Assy, 1A, Male to 50-Pin Ribbon, Male,**
0.5m Long 40-971A-200-0.5m-MM
1.0m Long 40-971A-200-1m-MM
2.0m Long 40-971A-200-2m-MM

Wiring Schedule for 200-Pin LFH (Male) to 4 x 50-Pin IDC (Male)



50-Pin IDC Male Connectors (Mating Face)

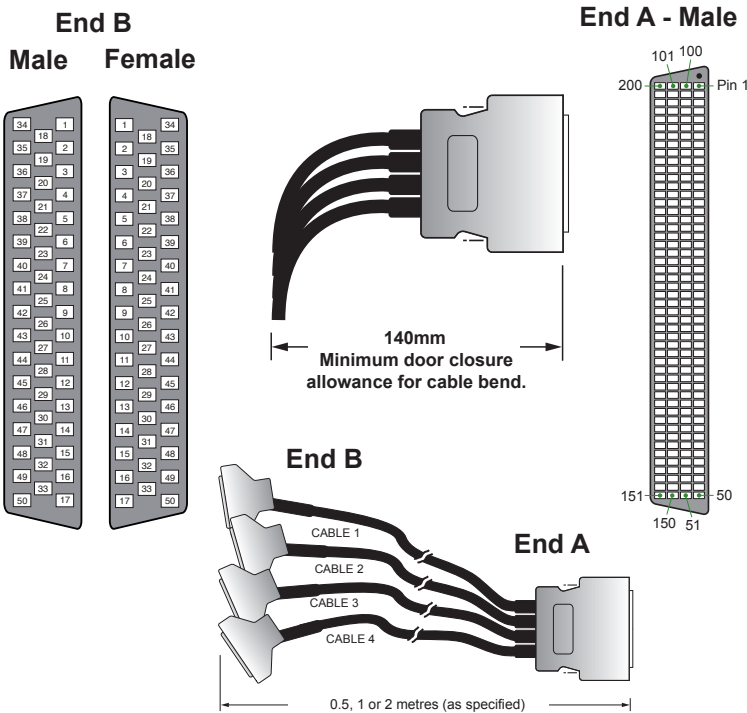
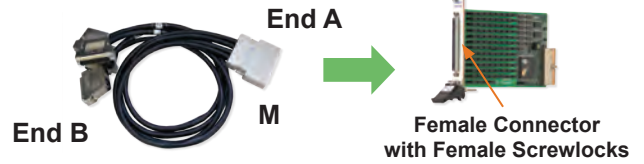
Note: The cables are formed of twisted pairs of the odd and even wires (1&2, 3&4, etc)

200-Pin LFH Male Connector (Mating Face)

— Denotes Twisted Pairing i.e. Pins 1 and 2 use paired wires

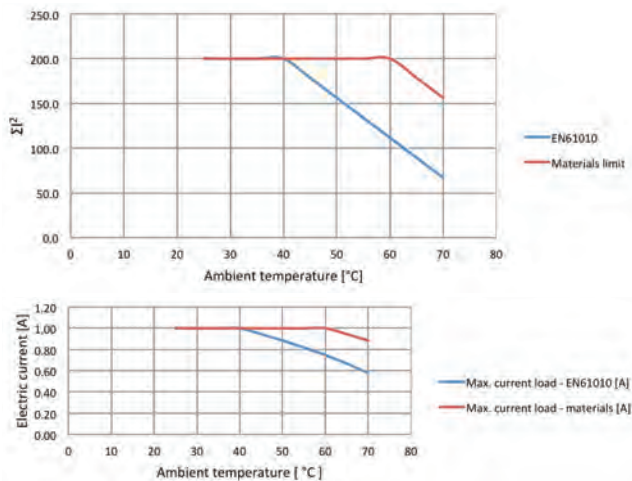
Cable Assembly: 200-Pin LFH (Male) to 4 x 50-Pin D-Type

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Can be used with Pickering 50-Pin D-Type Breakouts. See Section 10.



Wiring Schedule information can be found on the following pages.

Characteristic Plots for 40-971A-200D-1m



The top graph shows the permitted I^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the I^2 is complied with.

Technical Specification

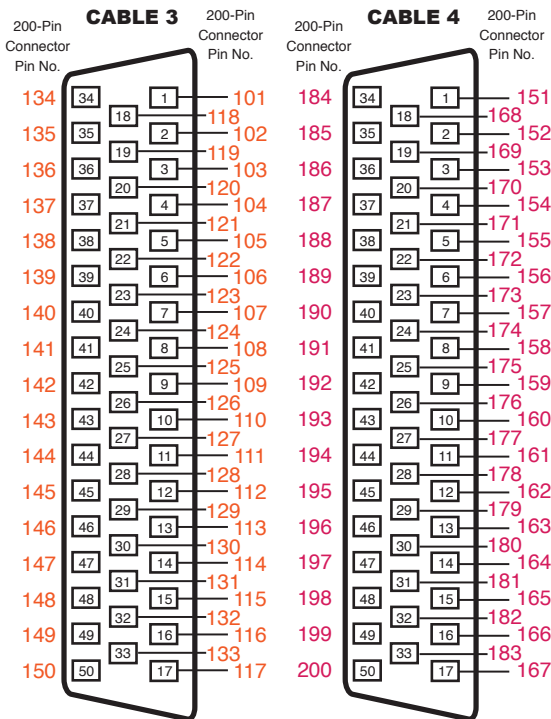
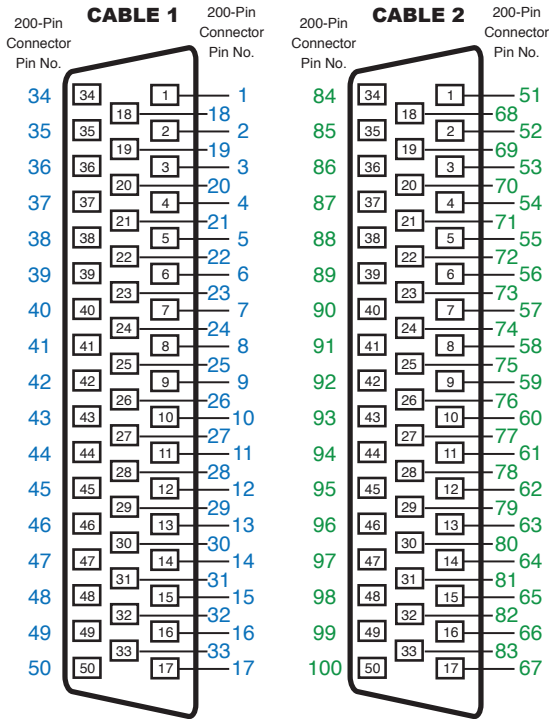
Connector Type (End A): Gender Securing Method	200-Pin LFH Male 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method:	4 off x 50-Pin D-Sub, Male or female
Male Female	4-40 UNC screwlocks, male 4-40 UNC screwlocks, female
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MOhm
Connector (End A): Contact Material Contact Resistance Cable Exit	Gold over nickel <20mOhm Rear
Connectors (End B): Contact Material Contact Resistance Cable Exit	Gold/Copper <20mOhm 45°
Cable Type: Overall Size (Approx)	H87 x W18 x D84mm
Conductor: Material Strands Resistance Insulation	Tinned copper 7/36 (28AWG) 0.2Ω/m PVC
Outer Sleeve Screened Construction	PVC Yes
Additional Braided Sleeve Cable O/D	No 10mm (Individual cables)
Minimum Bend Radius Door Closure Allowance	25mm 140mm (see diagram)
Notes:	Other cable lengths can be supplied in multiples of 0.5m.

Product Order Codes

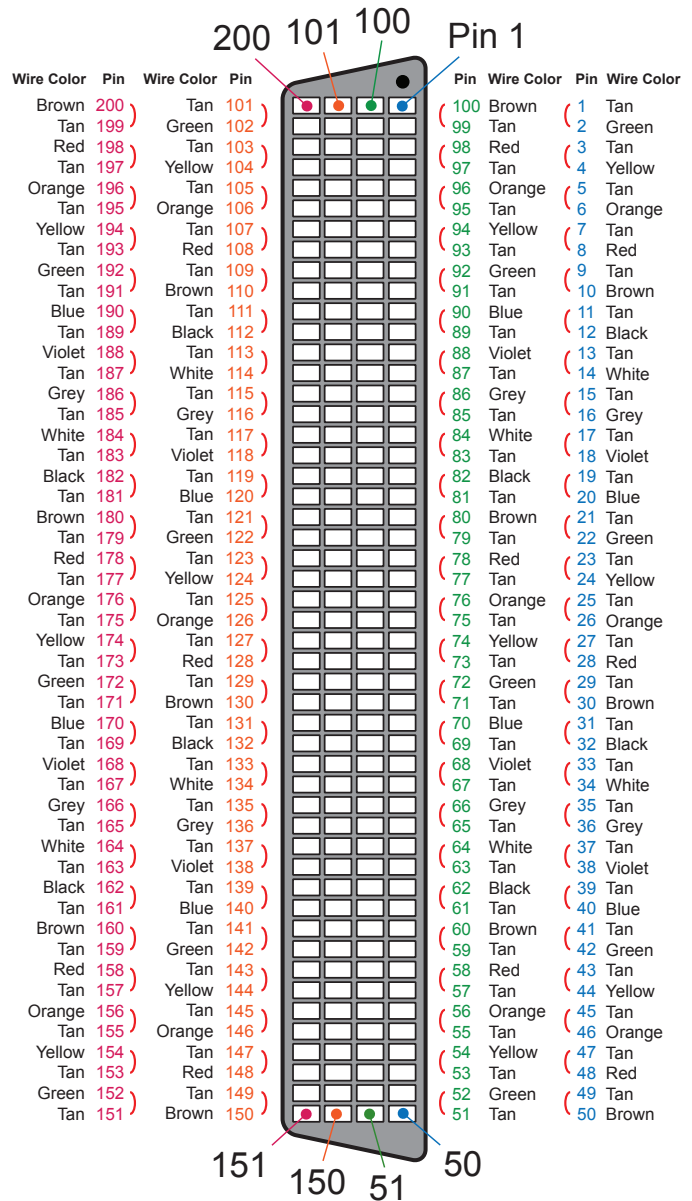
- 200-Pin LFH Cable Assy, 1A, Male to 50-Pin D-Type, Male**
- 0.5m Long [40-971A-200D-0.5m-MM](#)
 - 1.0m Long [40-971A-200D-1m-MM](#)
 - 2.0m Long [40-971A-200D-2m-MM](#)
- 200-Pin LFH Cable Assy, 1A, Male to 50-Pin D-Type, Female**
- 0.5m Long [40-971A-200D-0.5m-MF](#)
 - 1.0m Long [40-971A-200D-1m-MF](#)
 - 2.0m Long [40-971A-200D-2m-MF](#)

Wiring Schedule for 200-Pin LFH (Male) to 4 x 50-Pin D-Type (Male)

End B



End A



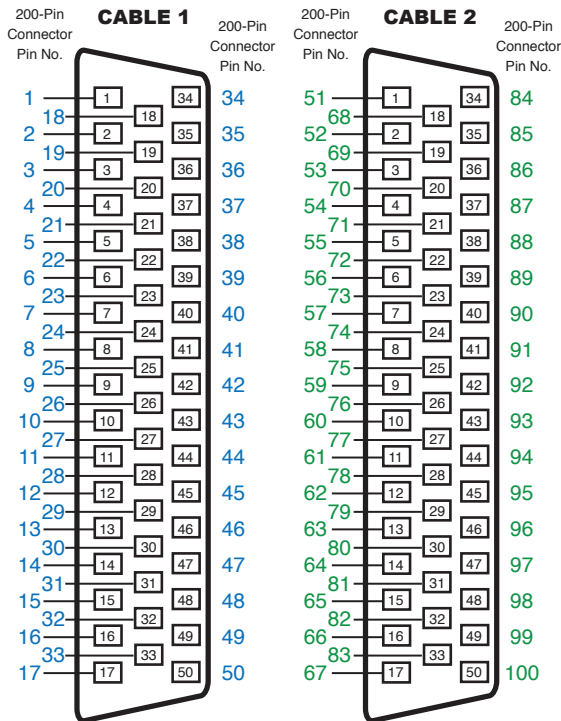
200-Pin LFH Male Connector (Mating Face)

Denotes Twisted Pairing i.e. Pins 1 and 2 use paired wires

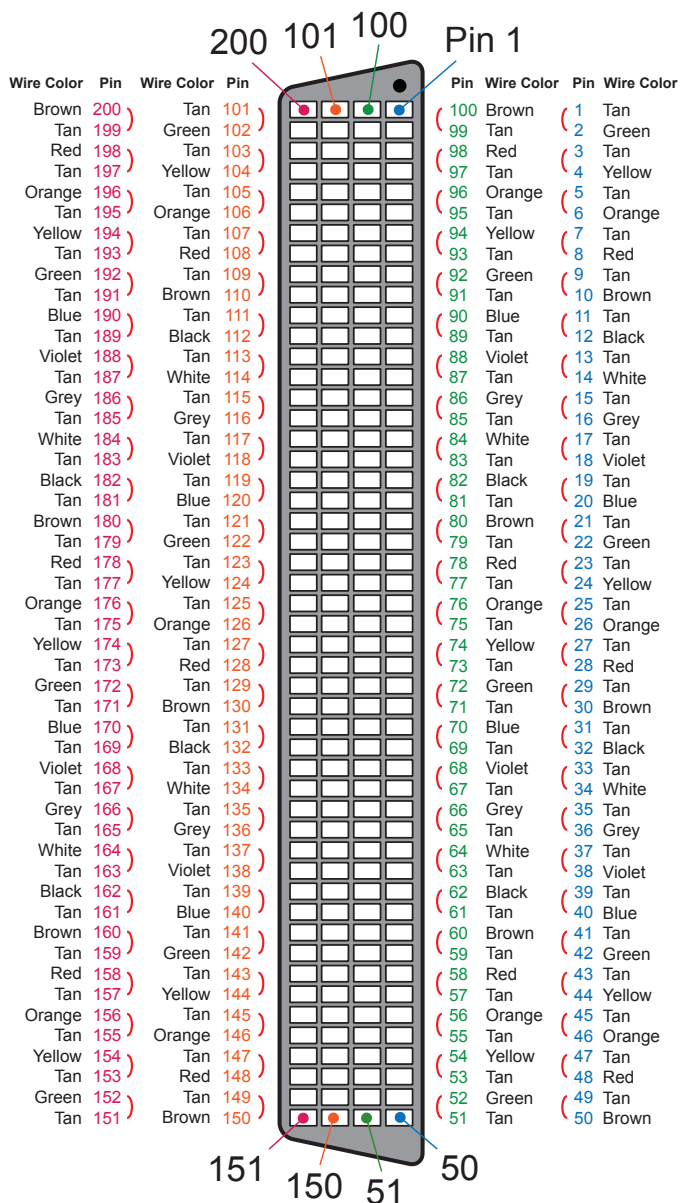
50-Pin D-Type Male Connectors (Mating Face)

Wiring Schedule for 200-Pin LFH (Male) to 4 x 50-Pin D-Type (Female)

End B



End A



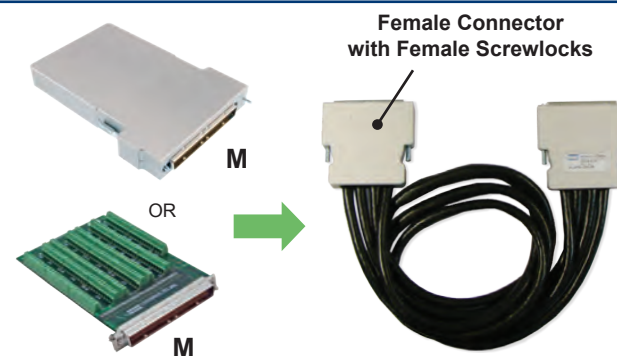
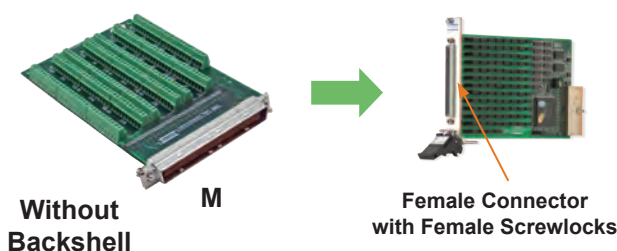
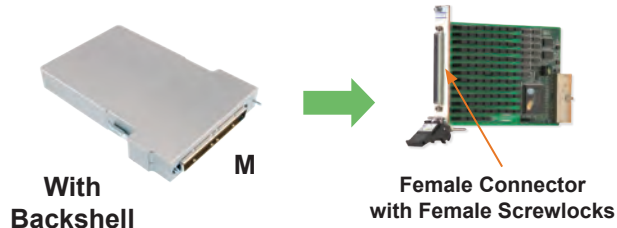
200-Pin LFH Male Connector (Mating Face)

Denotes Twisted Pairing i.e. Pins 1 and 2 use paired wires

50-Pin D-Type Female Connectors (Mating Face)

200-Pin LFH PXI Connector Block - Male

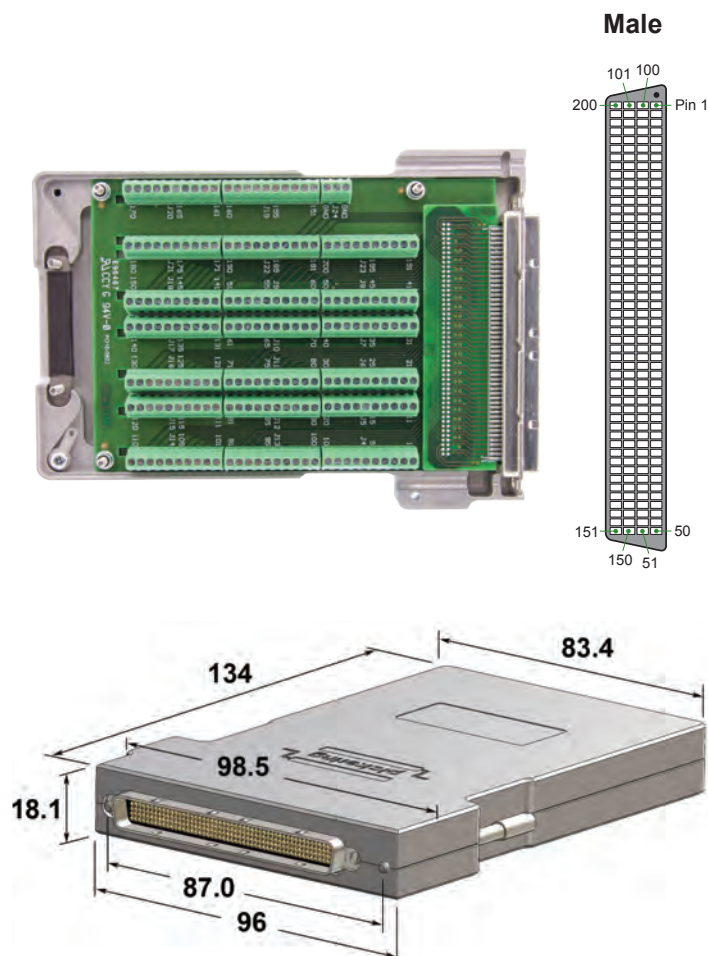
- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals



Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE/PFA cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell.

This PXI connector block will not fit to PCI cards, or to cables with male screwlocks. Connector blocks supplied without a backshell do not include cable strain relief.



Technical Specification

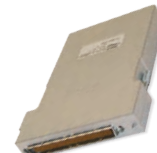
Connector Type:	200-Pin LFH
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit	Rear - 32 x 11mm
Overall Size (Approx)	H98.5 x W18.1 x D138mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhms
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE/PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

200-Pin LFH PXI Connector Block, 1A, Screw Terminal,
 Male with Backshell, [40-965-200-M](tel:40-965-200-M)
 Male without Backshell, [92-965-200-M](tel:92-965-200-M)

200-Pin LFH PCI Connector Block - Male

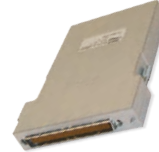
- Mates to PCI Module Panel Connector
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals



M



Female Connector with Female Screwlocks



M



Incompatible screwlocks

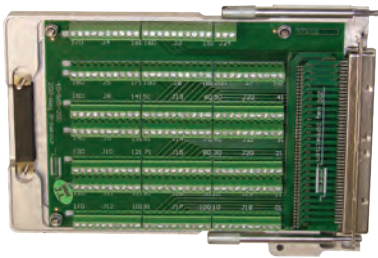


F

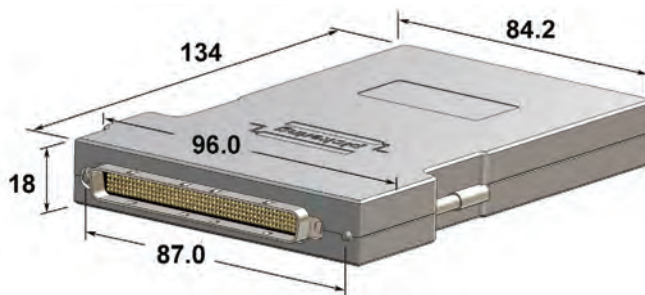
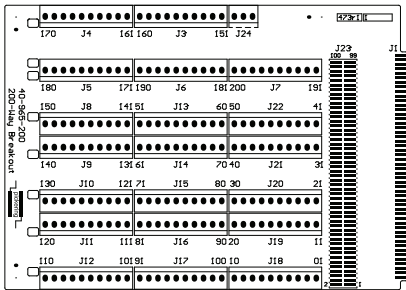
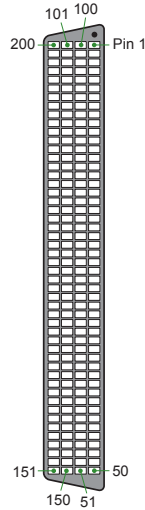
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

Suitable for use on the front of PCI modules this connector block provides a simple method of connecting to high density 200-Pin LFH connectors. The screw terminals use a rising cage screw clamp mechanism to minimize risk of copper strand breakage. PTFE/PFA cables are recommended for use with this connector block to maximise copper cross sectional area and insulation properties.

This PCI connector block is not recommended for use with PXI cards. It uses male screwlocks and will not mate to Pickering cables.



Male



Technical Specification

Connector Type:	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit	Rear - 32 x 11mm
Overall Size (Approx)	H96 x W18 x D138mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhms
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE/PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

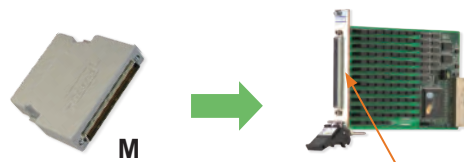
200-Pin LFH PCI Connector Block, 1A, Screw Terminal, Male with Backshell & Screwlocks **50-965-200-M**

200-Pin LFH Connector - Male

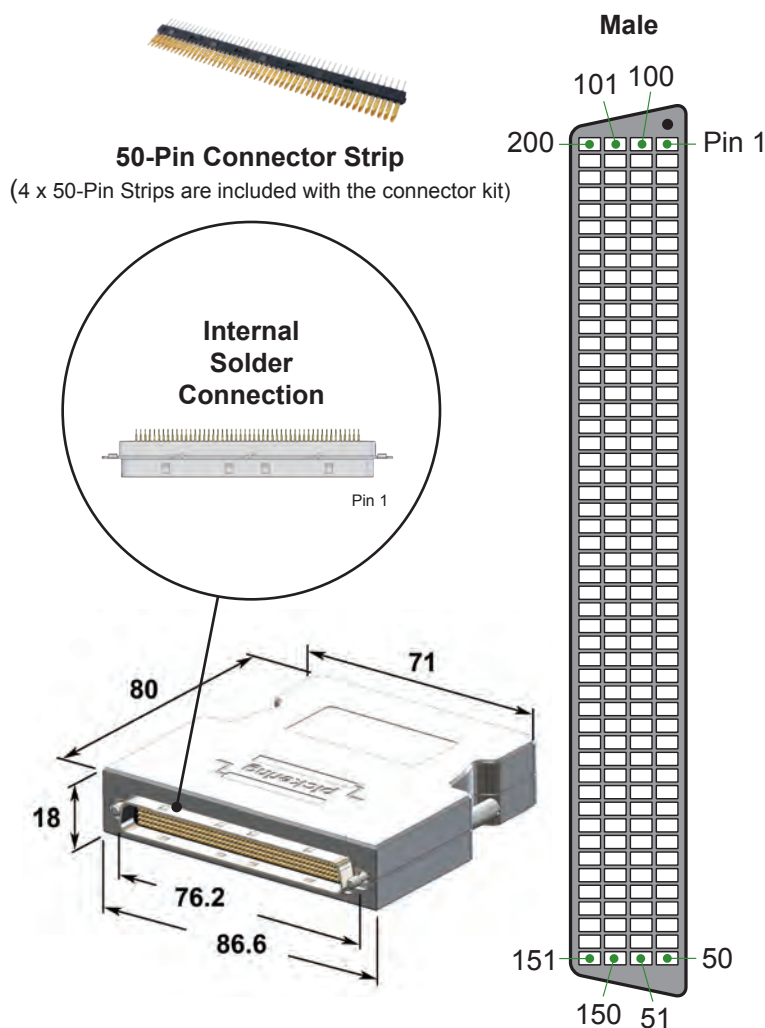
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the 200-Pin LFH connector. It is difficult to terminate a cable to the 200-Pin LFH because of the high density and fine pitch. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



Female Connector with Female Screwlocks



Technical Specification

Connector Type:	200-Pin LFH
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40UNC Screwlocks, male
Wire Connection	Solder pin
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit:	Dual rear exit
Cable Exit Size	Each exit: 4.8 x 24mm
Overall Size (Approx)	H87 x W18 x D84mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	50-Pin twisted pair ribbon cable, 1.27mm pitch,
Additional Cable Clamp	Yes (in backshell)
Notes:	This connector is supplied in kit form.

Product Order Codes

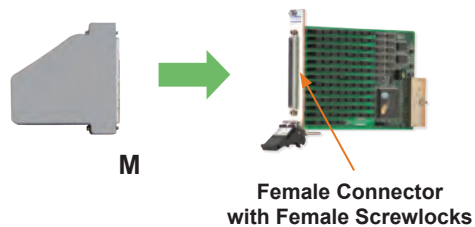
200-Pin LFH Connector, 1A, Solder Pin,
Male with Backshell
Male without Backshell

40-961A-200-M

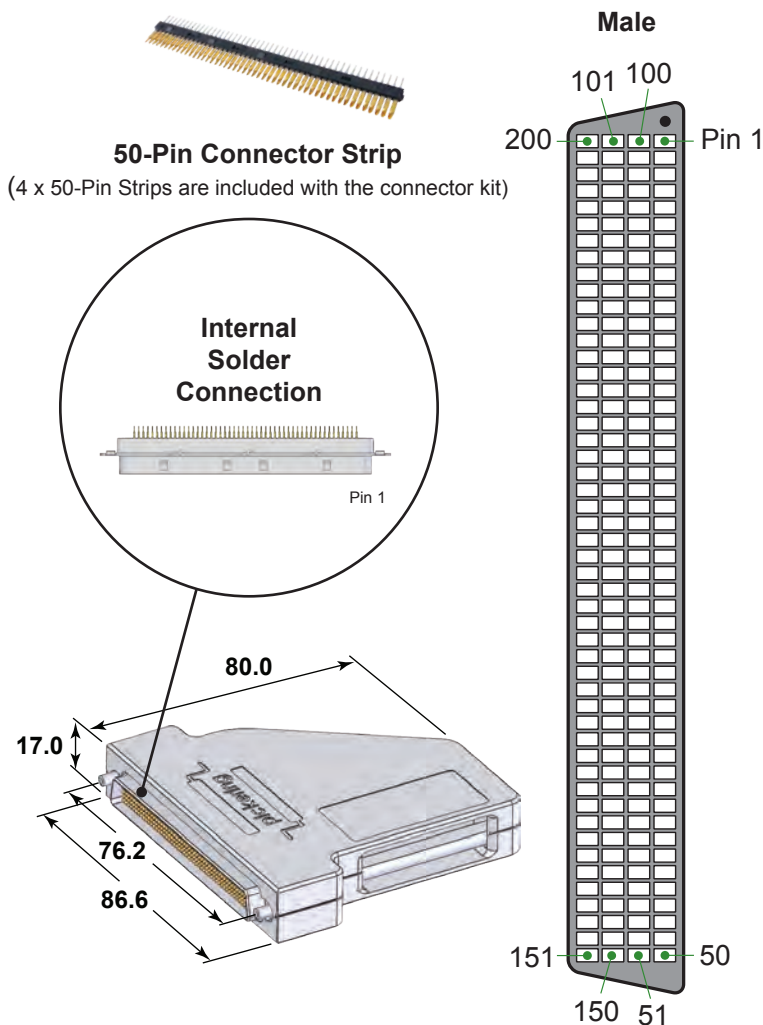
92-961-200-M

200-Pin LFH Connector - Male

- Connector and Backshell
- Bottom Cable Exit
- Cable Clamp in Backshell
- Soldered Cable Termination



This accessory is designed to allow users to directly terminate with soldered connections to the 200-Pin LFH connector. It is difficult to terminate a cable to the 200-Pin LFH because of the high density and fine pitch. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Technical Specification

Connector Type: Gender Securing Method: Product with Backshell Wire Connection	200-Pin LFH Male 4-40 UNC screwlocks, male Solder pin
Connector Ratings: Maximum Current Maximum Voltage Cable Exit:	1A 150VDC 90° (Towards Pin 1) 38 x 13mm
Overall Size (Approx) 200-Pin LFH: Contact Material Contact Resistance	H86.6 x W17 x D83.5mm Gold over nickel <20mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG 50-Pin twisted pair ribbon cable, 1.27mm pitch,
Additional Cable Clamp	Yes (in backshell)
Notes: This connector is supplied in kit form.	

Product Order Codes

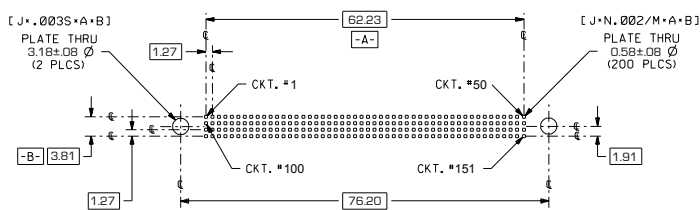
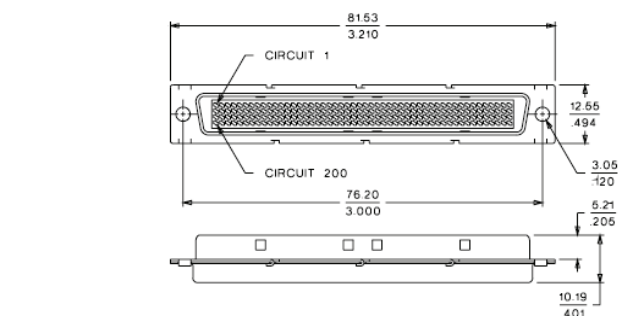
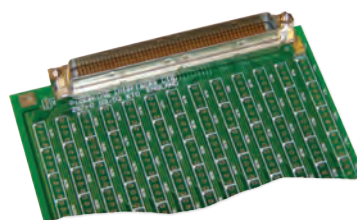
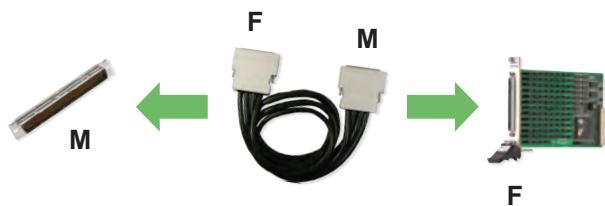
200-Pin LFH Connector, 1A, Solder Pin,
Male with Backshell **C200LMB-2SP-5A**

200-Pin LFH Connector, Straight PCB Mount - Male

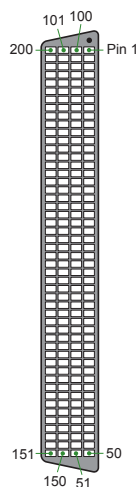
- Straight PCB Mount
- Ideal for User Created Termination Solutions
- Supplied in Kit Form with Assembly Instructions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

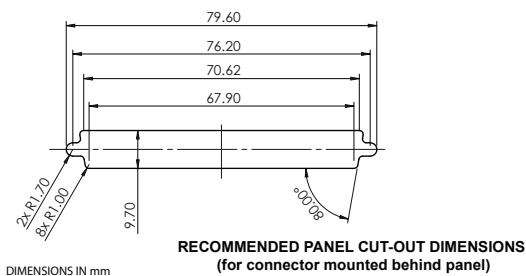
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



P.C. BOARD MOUNTING DIMENSIONS CONNECTOR SIDE
RECOMMENDED P.C. BOARD THICKNESS 1.6mm

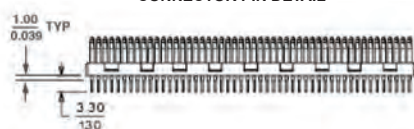


Male



RECOMMENDED PANEL CUT-OUT DIMENSIONS
(for connector mounted behind panel)

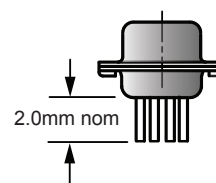
CONNECTOR PIN DETAIL



Technical Specification

Connector Type:	200-Pin LFH
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	150VDC
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	2.0mm nom (See diagram)

Leg Length



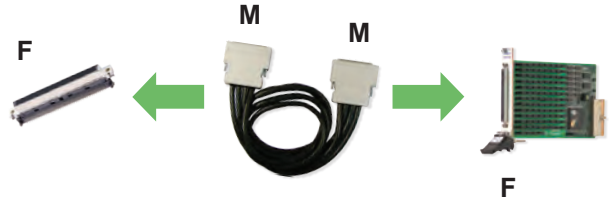
Product Order Codes

200-Pin LFH Connector, 1A, Straight PCB Mount,
Male

40-963-200-SM

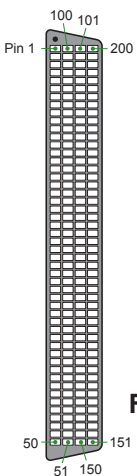
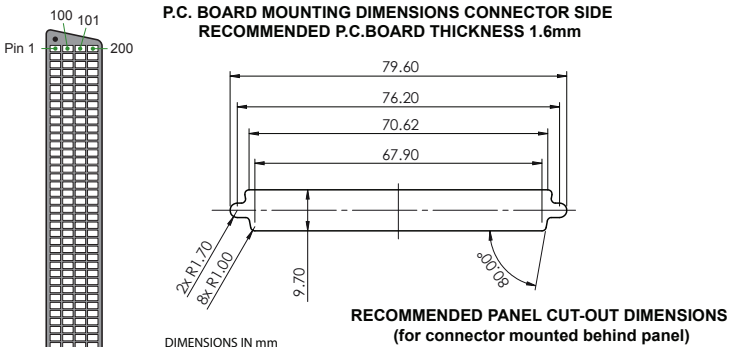
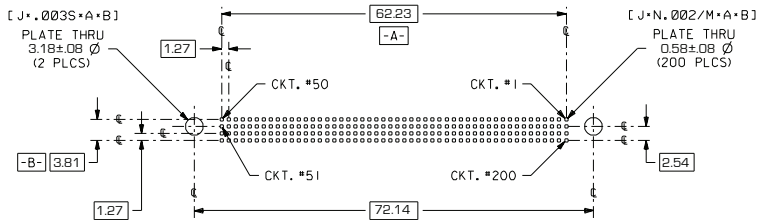
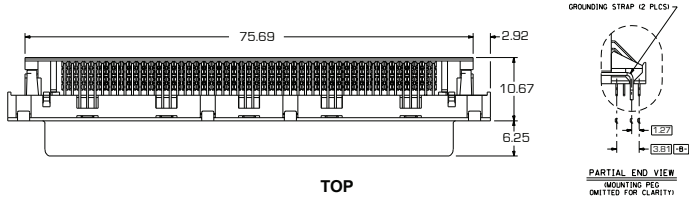
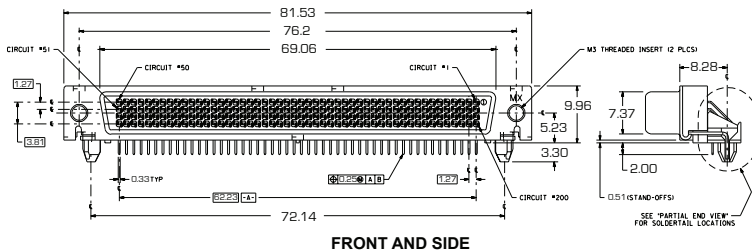
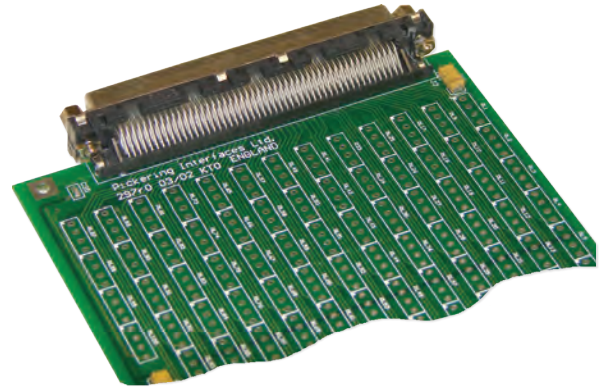
200-Pin LFH Connector, Right Angle PCB Mount - Female

- Right Angle PCB Mount
- Ideal for User Created Termination Solutions



This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

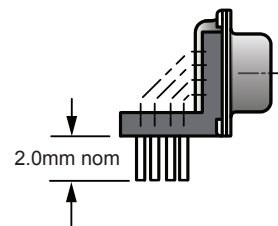
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Technical Specification

Connector Type:	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	150VDC
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	2.0mm nom (See diagram)
Notes:	The kit includes 4-40 UNC screwlocks that will fit into the M3 threaded holes.

Leg Length



Product Order Codes

200-Pin LFH Connector, 1A, Right Angle PCB Mount, Female

40-963-200-RF

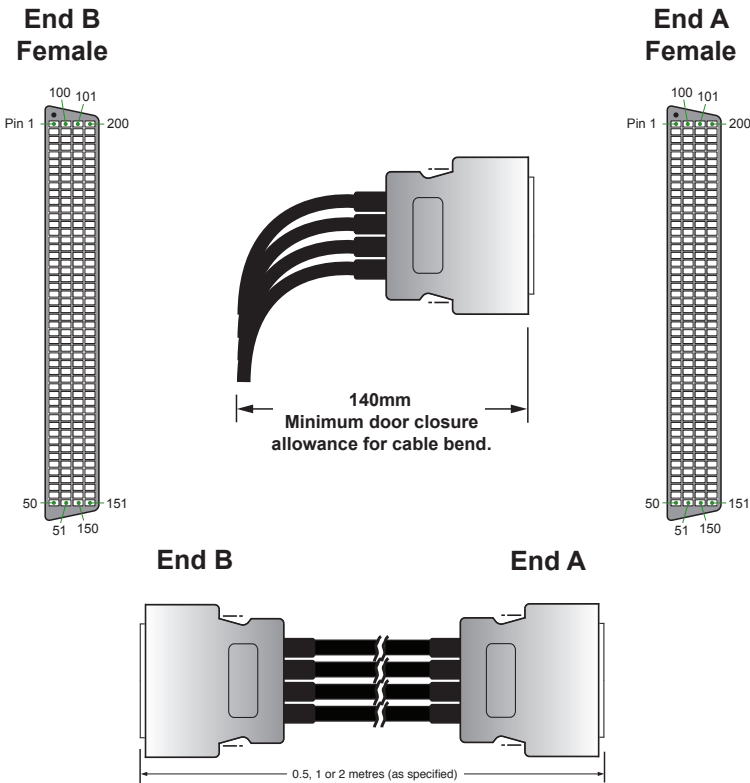
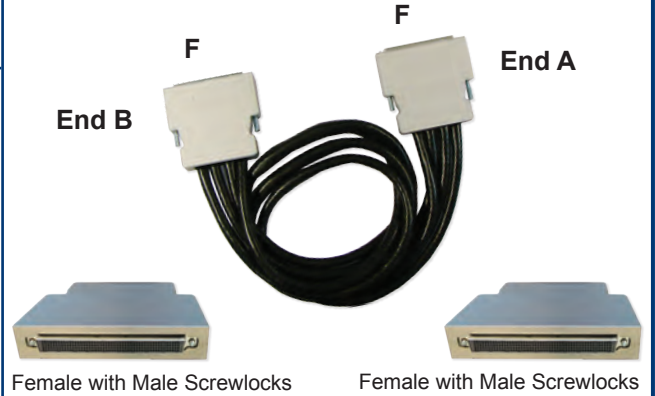
200-Pin LFH Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

200-Pin LFH Cable Assembly - Female to Female

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Screened Cable Construction with Strain Relief
- Connectors include Male Screwlocks

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

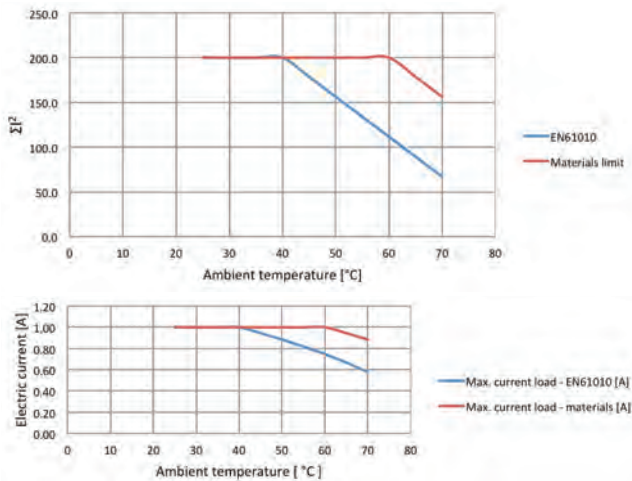


Technical Specification

Connector Type (End A):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	200-Pin LFH
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx) Female	H92 x W18 x D84mm
Cable Type:	
Conductor: Material	Tinned Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm (Individual cables)
Minimum Bend Radius	25mm
Door Closure Allowance	140mm (see diagram)

Notes:
Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for A200LFR-200LFR-6A100



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Female to Female,

- 0.5m Long**
- 1.0m Long**
- 2.0m Long**

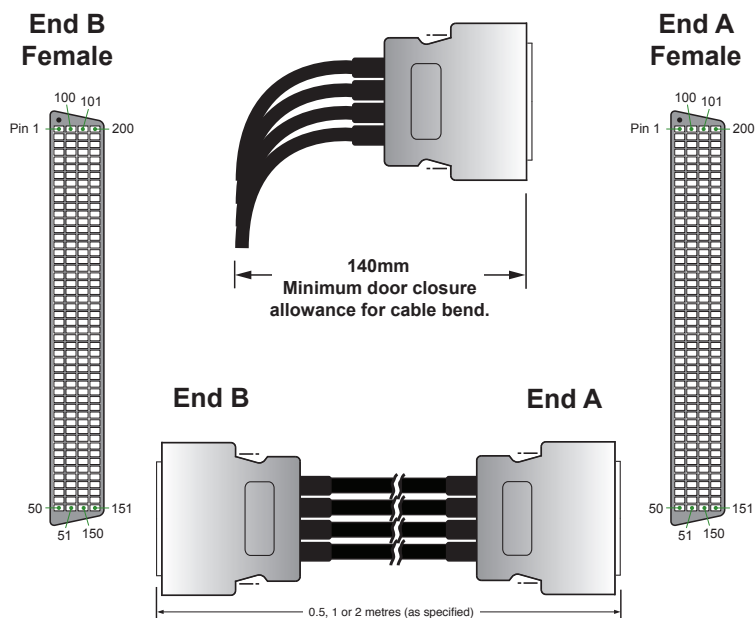
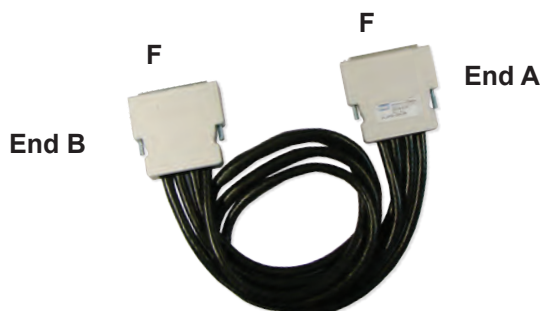
- A200LFR-200LFR-6A050**
- A200LFR-200LFR-6A100**
- A200LFR-200LFR-6A200**

200-Pin LFH Cable Assembly - Female to Female

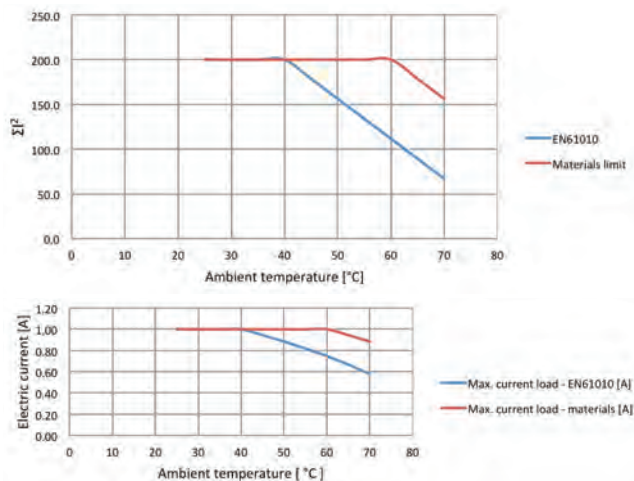
- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction

Note: 200-Pin female cable connectors with female screwlocks only connect to a Pickering 200-Pin male cable connector with male screwlocks and to a 200-Pin male connector block.

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Characteristic Plots for 40-970A-200-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A): Gender Securing Method	200-Pin LFH Female 4-40 UNC screwlocks, female
Connector Type (End B): Gender Securing Method	200-Pin LFH Female 4-40 UNC screwlocks, female
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx) Female	Gold over nickel <20mOhm Rear H97 x W18 x D84.7mm
Cable Type:	4 off x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch Tinned Copper 7/36 (28AWG) 0.2Ω/m PVC PVC Yes No 10mm (Individual cables) 25mm 140mm (see diagram)
Conductor: Material Strands Resistance Insulation	Tinned Copper 7/36 (28AWG) 0.2Ω/m PVC
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	PVC Yes No 10mm (Individual cables) 25mm 140mm (see diagram)
Notes:	Other cable lengths can be supplied in multiples of 0.5m.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Female to Female,

0.5m Long

40-970A-200-0.5m-FF

1.0m Long

40-970A-200-1m-FF

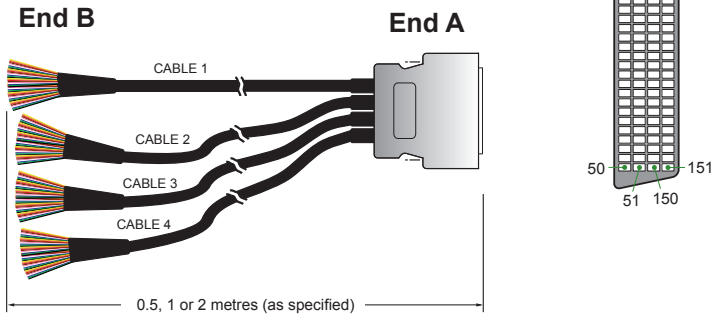
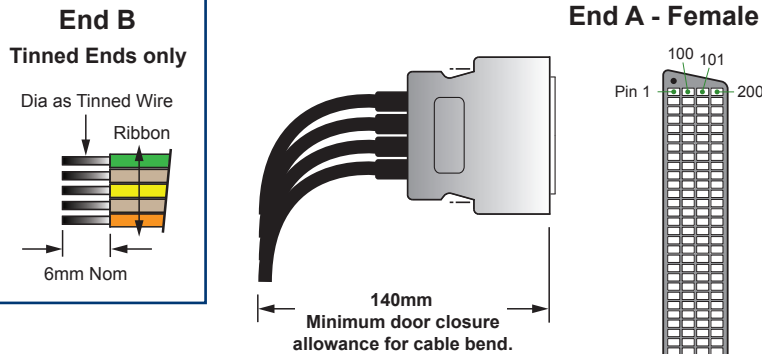
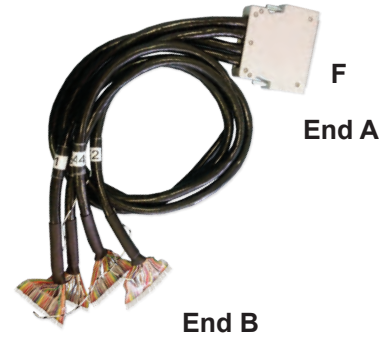
2.0m Long

40-970A-200-2m-FF

200-Pin LFH Cable Assembly - Female to Unterminated

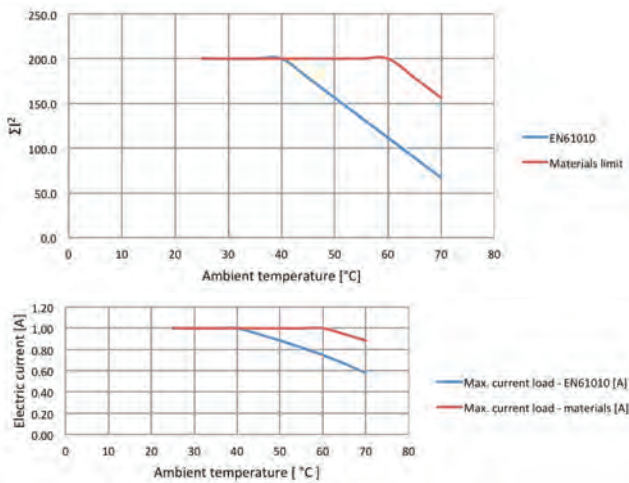
- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief in LFH Connector
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Wiring Schedule information can be found on the next page of this document.

Characteristic Plots for 40-972A-200-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A): Gender Securing Method	200-Pin LFH Female 4-40 UNC screwlocks, female
Unterminated End (End B): Free Wire Length Individual Wire Labelling Contacts	4 x 50-Pin Unterminated Tinned contacts only Yes. Color coded. 6mm min tinned copper
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold over nickel <20mOhm Rear H97 x W18 x D84.7mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch. Tinned copper 7/36 (28AWG) 0.2Ω/m PVC PVC Yes No 10mm (Individual cables) 25mm 140mm (see diagram)
Notes:	Other cable lengths can be supplied in multiples of 0.5m.

Product Order Codes

200-Pin LFH Cable Assy, 1A, Female to Unterminated, Tinned Ends, 0.5m Long	40-972A-200-0.5m-FU
Tinned Ends, 1.0m Long	40-972A-200-1m-FU
Tinned Ends, 2.0m Long	40-972A-200-2m-FU

Wiring Schedule for 200-Pin LFH Cable Assy Female to Unterminated

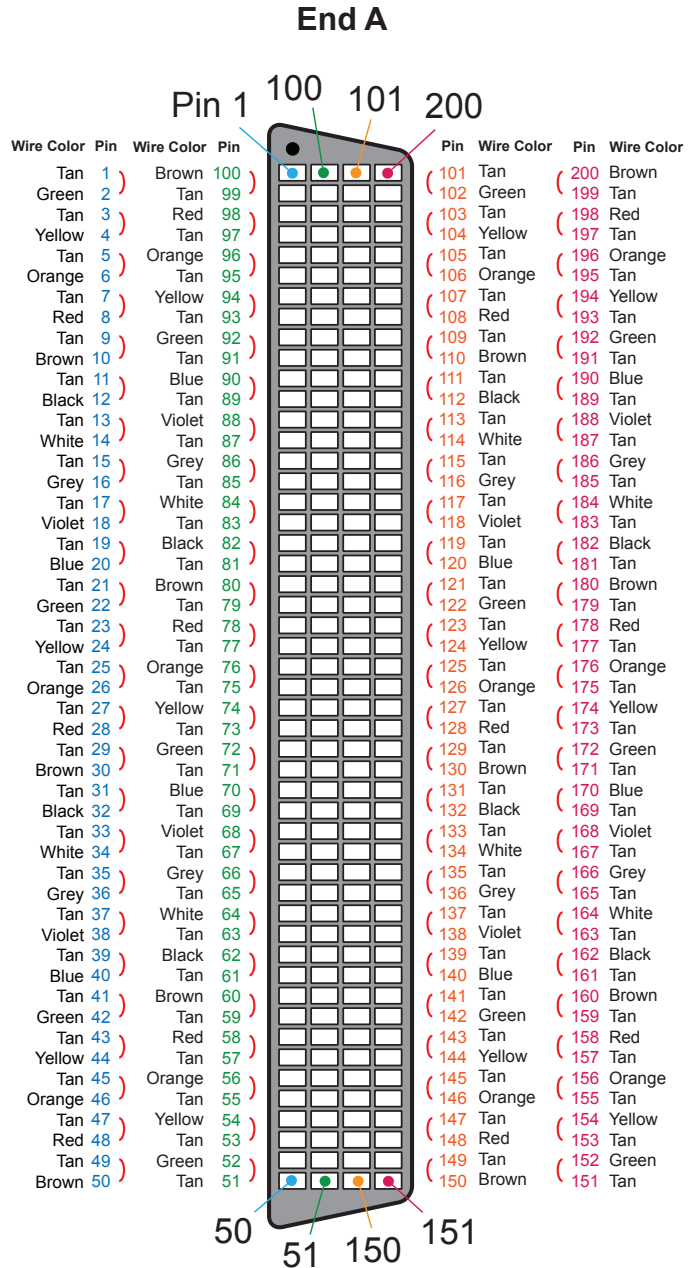
End B

200-Pin LFH Connector Wiring (Cable 1)			
Pin	Wire Color	Pin	Wire Color
2	Green	1	Tan (Green Pair)
4	Yellow	3	Tan (Yellow Pair)
6	Orange	5	Tan (Orange Pair)
8	Red	7	Tan (Red Pair)
10	Brown	9	Tan (Brown Pair)
12	Black	11	Tan (Black Pair)
14	White	13	Tan (White Pair)
16	Grey	15	Tan (Grey Pair)
18	Violet	17	Tan (Violet Pair)
20	Blue	19	Tan (Blue Pair)
22	Green	21	Tan (Green Pair)
24	Yellow	23	Tan (Yellow Pair)
26	Orange	25	Tan (Orange Pair)
28	Red	27	Tan (Red Pair)
30	Brown	29	Tan (Brown Pair)
32	Black	31	Tan (Black Pair)
34	White	33	Tan (White Pair)
36	Grey	35	Tan (Grey Pair)
38	Violet	37	Tan (Violet Pair)
40	Blue	39	Tan (Blue Pair)
42	Green	41	Tan (Green Pair)
44	Yellow	43	Tan (Yellow Pair)
46	Orange	45	Tan (Orange Pair)
48	Red	47	Tan (Red Pair)
50	Brown	49	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 2)			
Pin	Wire Color	Pin	Wire Color
52	Green	51	Tan (Green Pair)
54	Yellow	53	Tan (Yellow Pair)
56	Orange	55	Tan (Orange Pair)
58	Red	57	Tan (Red Pair)
60	Brown	59	Tan (Brown Pair)
62	Black	61	Tan (Black Pair)
64	White	63	Tan (White Pair)
66	Grey	65	Tan (Grey Pair)
68	Violet	67	Tan (Violet Pair)
70	Blue	69	Tan (Blue Pair)
72	Green	71	Tan (Green Pair)
74	Yellow	73	Tan (Yellow Pair)
76	Orange	75	Tan (Orange Pair)
78	Red	77	Tan (Red Pair)
80	Brown	79	Tan (Brown Pair)
82	Black	81	Tan (Black Pair)
84	White	83	Tan (White Pair)
86	Grey	85	Tan (Grey Pair)
88	Violet	87	Tan (Violet Pair)
90	Blue	89	Tan (Blue Pair)
92	Green	91	Tan (Green Pair)
94	Yellow	93	Tan (Yellow Pair)
96	Orange	95	Tan (Orange Pair)
98	Red	97	Tan (Red Pair)
100	Brown	99	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 3)			
Pin	Wire Color	Pin	Wire Color
102	Green	101	Tan (Green Pair)
104	Yellow	103	Tan (Yellow Pair)
106	Orange	105	Tan (Orange Pair)
108	Red	107	Tan (Red Pair)
110	Brown	109	Tan (Brown Pair)
112	Black	111	Tan (Black Pair)
114	White	113	Tan (White Pair)
116	Grey	115	Tan (Grey Pair)
118	Violet	117	Tan (Violet Pair)
120	Blue	119	Tan (Blue Pair)
122	Green	121	Tan (Green Pair)
124	Yellow	123	Tan (Yellow Pair)
126	Orange	125	Tan (Orange Pair)
128	Red	127	Tan (Red Pair)
130	Brown	129	Tan (Brown Pair)
132	Black	131	Tan (Black Pair)
134	White	133	Tan (White Pair)
136	Grey	135	Tan (Grey Pair)
138	Violet	137	Tan (Violet Pair)
140	Blue	139	Tan (Blue Pair)
142	Green	141	Tan (Green Pair)
144	Yellow	143	Tan (Yellow Pair)
146	Orange	145	Tan (Orange Pair)
148	Red	147	Tan (Red Pair)
150	Brown	149	Tan (Brown Pair)

200-Pin LFH Connector Wiring (Cable 4)			
Pin	Wire Color	Pin	Wire Color
152	Green	151	Tan (Green Pair)
154	Yellow	153	Tan (Yellow Pair)
156	Orange	155	Tan (Orange Pair)
158	Red	157	Tan (Red Pair)
160	Brown	159	Tan (Brown Pair)
162	Black	161	Tan (Black Pair)
164	White	163	Tan (White Pair)
166	Grey	165	Tan (Grey Pair)
168	Violet	167	Tan (Violet Pair)
170	Blue	169	Tan (Blue Pair)
172	Green	171	Tan (Green Pair)
174	Yellow	173	Tan (Yellow Pair)
176	Orange	175	Tan (Orange Pair)
178	Red	177	Tan (Red Pair)
180	Brown	179	Tan (Brown Pair)
182	Black	181	Tan (Black Pair)
184	White	183	Tan (White Pair)
186	Grey	185	Tan (Grey Pair)
188	Violet	187	Tan (Violet Pair)
190	Blue	189	Tan (Blue Pair)
192	Green	191	Tan (Green Pair)
194	Yellow	193	Tan (Yellow Pair)
196	Orange	195	Tan (Orange Pair)
198	Red	197	Tan (Red Pair)
200	Brown	199	Tan (Brown Pair)



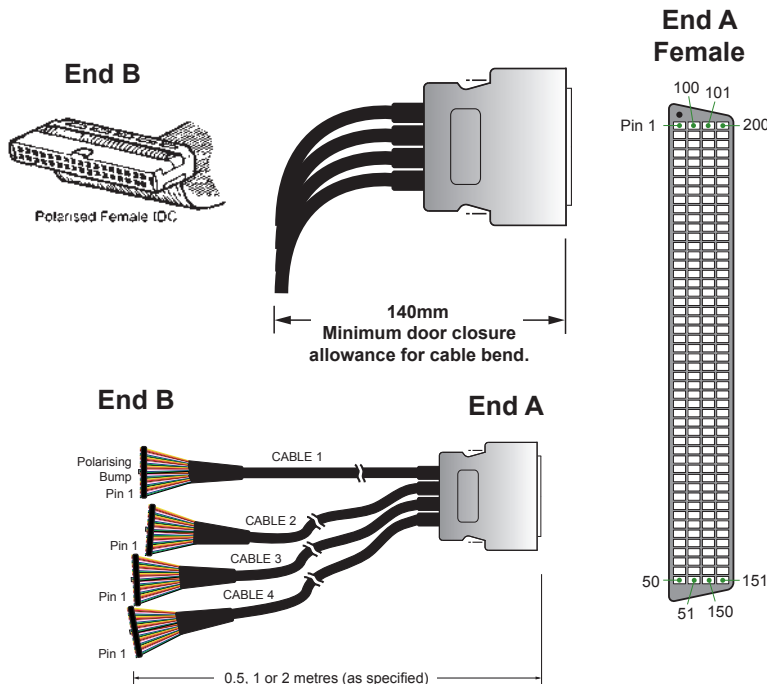
200-Pin LFH Female Connector (Mating Face)

— Denotes Twisted Pairing i.e. Pins 1 and 2 use paired wires

Cable Assembly: 200-Pin LFH (Female) to 4 x 50-Pin Ribbon (Female)

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Wiring Schedule information can be found on the next page of this document.

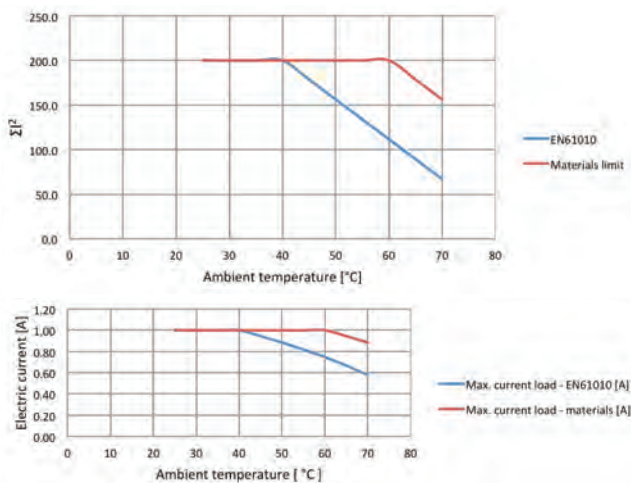
Technical Specification

Connector Type (End A): Gender Securing Method	200-Pin LFH Female 4-40 UNC screwlocks, female
Connector Type (End B): Gender Securing Method	4 off x 50-Pin ribbon, 0.1" (2.54mm) pitch Female, Push fit
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MΩm
Connector (End A): Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold over nickel <20mΩm Rear H97 x W18 x D84.7mm
Connectors (End B): Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Phosphor bronze/Au flash <20mΩm Side H17 x W68 x D6mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material Strands Resistance Insulation	Tinned copper 7/36 (28AWG) 0.2Ω/m PVC
Outer Sleeve Screened Construction Additional Braided Sleeve	PVC Yes No
Cable O/D Minimum Bend Radius Door Closure Allowance	10mm (Individual cables) 25mm 140mm (see diagram)

Notes:

Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-971A-200-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

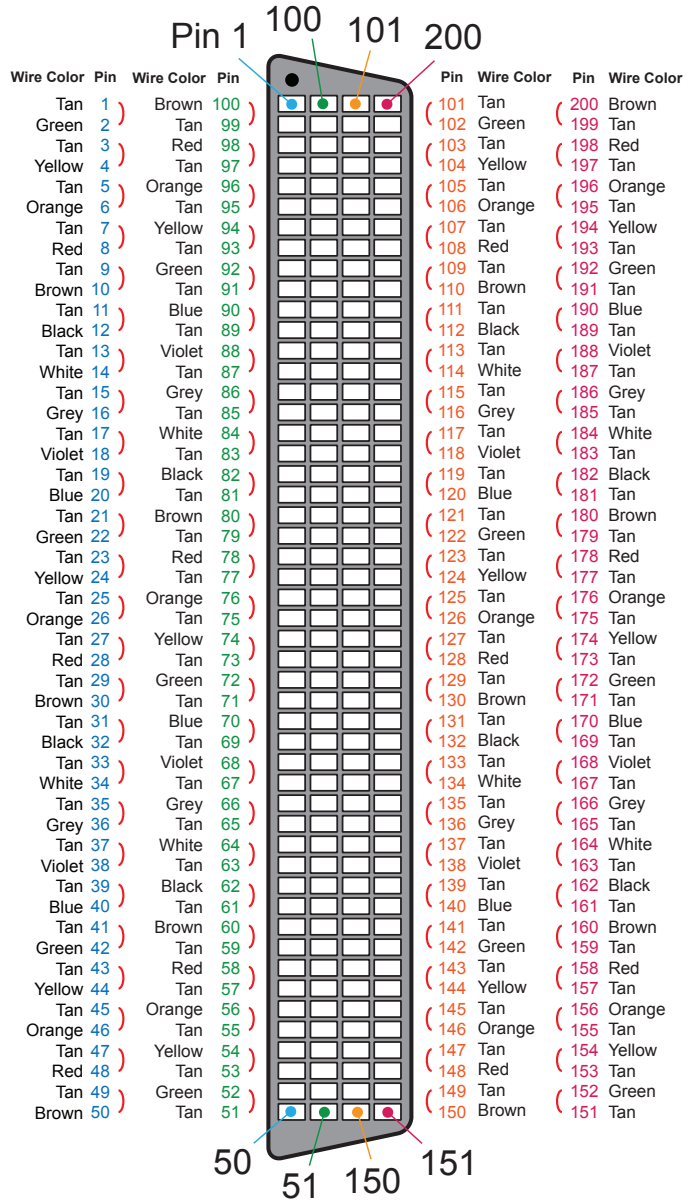
200-Pin LFH Cable Assy, 1A, Female to 50-Pin Ribbon, Female,	
0.5m Long	40-971A-200-0.5m-FF
1.0m Long	40-971A-200-1m-FF
2.0m Long	40-971A-200-2m-FF

Wiring Schedule for 200-Pin LFH (Female) to 4 x 50-Pin IDC (Female)

End B

200-Pin Connector			200-Pin Connector			200-Pin Connector			200-Pin Connector			200-Pin Connector		
Color	Pin No.		Color	Pin No.		Color	Pin No.		Color	Pin No.		Color	Pin No.	
Green	2	2	Tan	1	1	Green	52	2	Tan	51	1	Green	102	2
Yellow	4	4	Tan	3	3	Yellow	54	4	Tan	53	3	Yellow	104	4
Orange	6	6	Tan	5	5	Orange	56	6	Tan	55	5	Orange	106	6
Red	8	8	Tan	7	7	Red	58	8	Tan	57	7	Red	108	8
Brown	10	10	Tan	9	9	Brown	60	10	Tan	59	9	Brown	110	10
Black	12	12	Tan	11	11	Black	62	12	Tan	61	11	Black	112	12
White	14	14	Tan	13	13	White	64	14	Tan	63	13	White	114	14
Grey	16	16	Tan	15	15	Grey	66	16	Tan	65	15	Grey	116	16
Violet	18	18	Tan	17	17	Violet	68	18	Tan	67	17	Violet	118	18
Blue	20	20	Tan	19	19	Blue	70	20	Tan	69	19	Blue	120	20
Green	22	22	Tan	21	21	Green	72	22	Tan	71	21	Green	122	22
Yellow	24	24	Tan	23	23	Yellow	74	24	Tan	73	23	Yellow	124	24
Orange	26	26	Tan	25	25	Orange	76	26	Tan	75	25	Orange	126	26
Red	28	28	Tan	27	27	Red	78	28	Tan	77	27	Red	128	28
Brown	30	30	Tan	29	29	Brown	80	30	Tan	79	29	Brown	130	30
Black	32	32	Tan	31	31	Black	82	32	Tan	81	31	Black	132	32
White	34	34	Tan	33	33	White	84	34	Tan	83	33	White	134	34
Grey	36	36	Tan	35	35	Grey	86	36	Tan	85	35	Grey	136	36
Violet	38	38	Tan	37	37	Violet	88	38	Tan	87	37	Violet	138	38
Blue	40	40	Tan	39	39	Blue	90	40	Tan	89	39	Blue	140	40
Green	42	42	Tan	41	41	Green	92	42	Tan	91	41	Green	142	42
Yellow	44	44	Tan	43	43	Yellow	94	44	Tan	93	43	Yellow	144	44
Orange	46	46	Tan	45	45	Orange	96	46	Tan	95	45	Orange	146	46
Red	48	48	Tan	47	47	Red	98	48	Tan	97	47	Red	148	48
Brown	50	50	Tan	49	49	Brown	100	50	Tan	99	49	Brown	150	50

End A



50-Pin IDC Female Connectors (Mating Face)

Note: The cables are formed of twisted pairs of the odd and even wires (1&2, 3&4, etc)

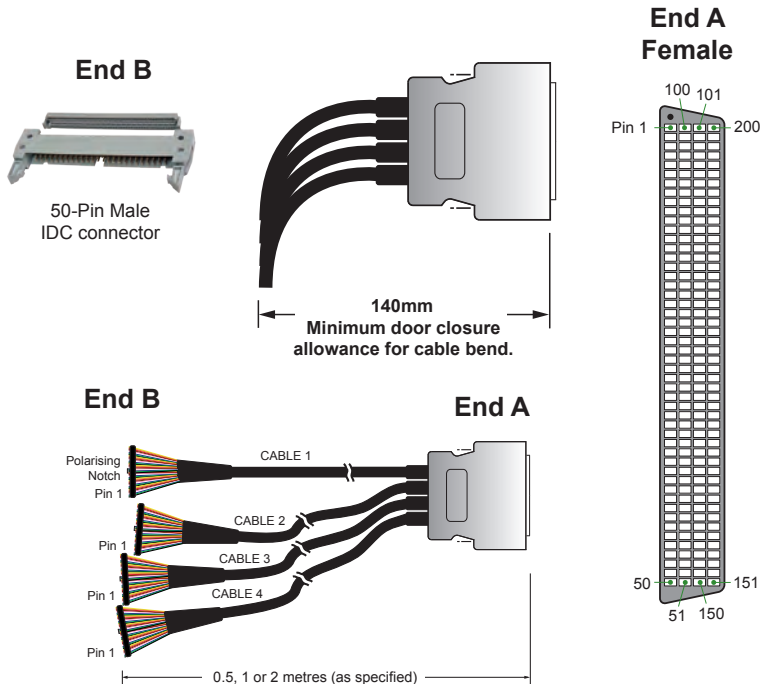
200-Pin LFH Female Connector (Mating Face)

— Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

Cable Assembly: 200-Pin LFH (Female) to 4 x 50-Pin Ribbon (Male)

- High Specification Cable
- 4 Wire Bundles to Improve Flexibility
- Strain Relief
- Fully Screened Cable Construction
- Fully Color Coded to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

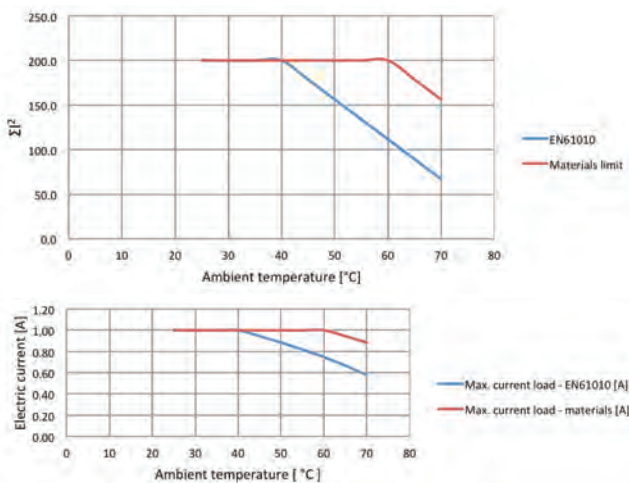


Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A): Gender Securing Method	200-Pin LFH Female 4-40 UNC screwlocks, female
Connector Type (End B): Gender Securing Method	4 off x 50-Pin ribbon, 0.1" (2.54mm) pitch Male, Latches
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150VDC 1000MOhm
Connector (End A): Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold over nickel <20mOhm Rear H97 x W18 x D84.7mm
Connectors (End B): Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Cu alloy/selective Au flash <20mOhm Side H30.4 x W82.3 x D8mm
Cable Type:	4 off Identified x 50-Pin twisted pair ribbon cable with twisted pairs of the odd and even wires (1 & 2, 3 & 4, etc) 1.27mm pitch.
Conductor: Material Strands Resistance Insulation	Tinned copper 7/36 (28AWG) 0.2Ω/m PVC
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	PVC Yes No 10mm (Individual cables) 25mm 140mm (see diagram)
Notes:	Other cable lengths can be supplied in multiples of 0.5m.

Characteristic Plots for 40-971A-200-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

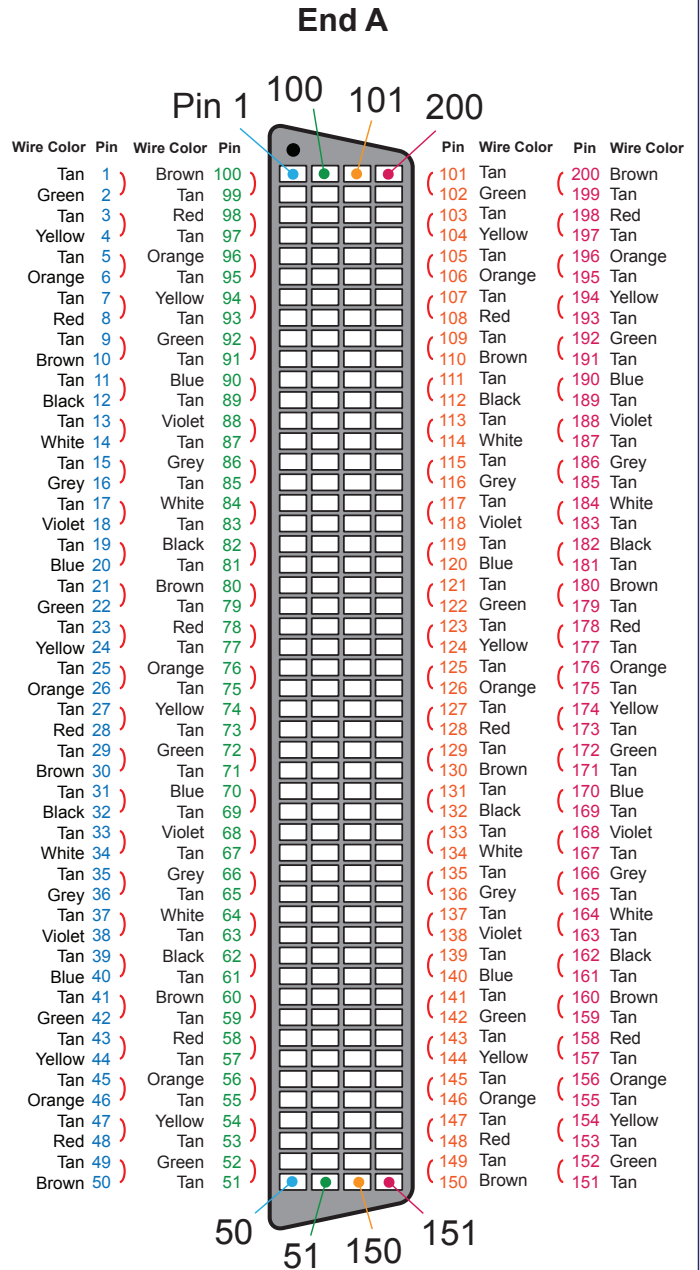
200-Pin LFH Cable Assy, 1A, Female to 50-Pin Ribbon, Male,	
0.5m Long	40-971A-200-0.5m-FM
1.0m Long	40-971A-200-1m-FM
2.0m Long	40-971A-200-2m-FM

Wiring Schedule for 200-Pin LFH (Female) to 4 x 50-Pin IDC (Male)

CABLE 1			CABLE 2			CABLE 3			CABLE 4		
200-Pin Connector Pin No.	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	200-Pin Connector Pin No.	Color	200-Pin Connector Pin No.	200-Pin Connector Pin No.	Color
Tan 1	2	Green	Tan 51	2	Green	Tan 101	2	Green	Tan 151	1	Green
Tan 3	4	Yellow	Tan 53	4	Yellow	Tan 103	4	Yellow	Tan 153	3	Yellow
Tan 5	6	Orange	Tan 55	6	Orange	Tan 105	6	Orange	Tan 155	5	Orange
Tan 7	8	Red	Tan 57	8	Red	Tan 107	8	Red	Tan 157	7	Red
Tan 9	10	Brown	Tan 59	10	Brown	Tan 109	10	Brown	Tan 159	9	Brown
Tan 11	12	Black	Tan 61	12	Black	Tan 111	12	Black	Tan 161	11	Black
Tan 13	14	White	Tan 63	14	White	Tan 113	14	White	Tan 163	13	White
Tan 15	16	Grey	Tan 65	16	Grey	Tan 115	16	Grey	Tan 165	15	Grey
Tan 17	18	Violet	Tan 67	18	Violet	Tan 117	18	Violet	Tan 167	17	Violet
Tan 19	20	Blue	Tan 69	20	Blue	Tan 119	20	Blue	Tan 169	19	Blue
Tan 21	22	Green	Tan 71	22	Green	Tan 121	22	Green	Tan 171	21	Green
Tan 23	24	Yellow	Tan 73	24	Yellow	Tan 123	24	Yellow	Tan 173	23	Yellow
Tan 25	26	Orange	Tan 75	26	Orange	Tan 125	26	Orange	Tan 175	25	Orange
Tan 27	28	Red	Tan 77	28	Red	Tan 127	28	Red	Tan 177	27	Red
Tan 29	30	Brown	Tan 79	30	Brown	Tan 129	30	Brown	Tan 179	29	Brown
Tan 31	32	Black	Tan 81	32	Black	Tan 131	32	Black	Tan 181	31	Black
Tan 33	34	White	Tan 83	34	White	Tan 133	34	White	Tan 183	33	White
Tan 35	36	Grey	Tan 85	36	Grey	Tan 135	36	Grey	Tan 185	35	Grey
Tan 37	38	Violet	Tan 87	38	Violet	Tan 137	38	Violet	Tan 187	37	Violet
Tan 39	40	Blue	Tan 89	40	Blue	Tan 139	40	Blue	Tan 189	39	Blue
Tan 41	42	Green	Tan 91	42	Green	Tan 141	42	Green	Tan 191	41	Green
Tan 43	44	Yellow	Tan 93	44	Yellow	Tan 143	44	Yellow	Tan 193	43	Yellow
Tan 45	46	Orange	Tan 95	46	Orange	Tan 145	46	Orange	Tan 195	45	Orange
Tan 47	48	Red	Tan 97	48	Red	Tan 147	48	Red	Tan 197	47	Red
Tan 49	50	Brown	Tan 99	50	Brown	Tan 149	50	Brown	Tan 199	49	Brown

50-Pin IDC Male Connectors (Mating Face)

Note: The cables are formed of twisted pairs of the odd and even wires (1&2, 3&4, etc)



200-Pin LFH Female Connector (Mating Face)

— Denotes Twisted Pairing i.e. Pins 1 and 2 use paired wires

200-Pin LFH Connector Block - Female

- Connector and PCB Only or Connector, PCB and Backshell
- Female Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE/PFA cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell.

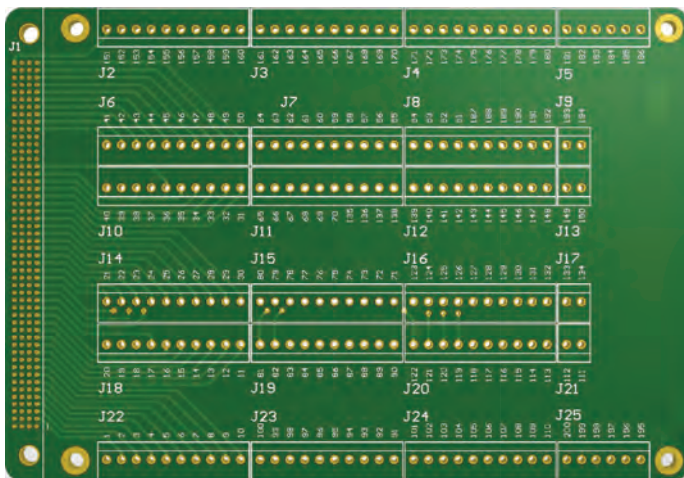
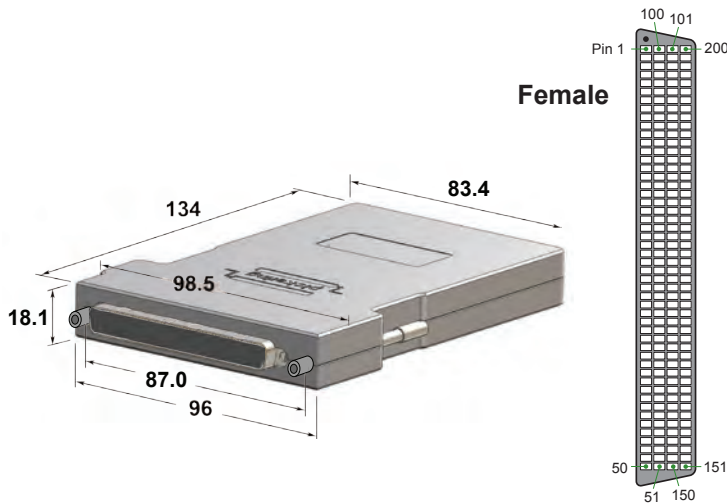
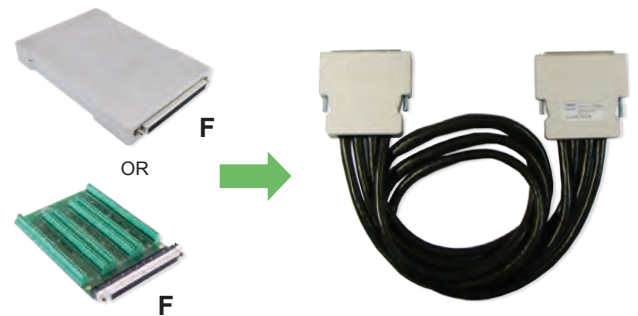
This connector block uses female screwlocks and is ideal for mating to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.

This Connector Block is Not Suitable for Connection to a Pickering Switching Product

With Backshell



Without Backshell



Technical Specification

Connector Type:	200-Pin LFH
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, female
Product without Backshell	4-40 UNC screwlocks, female
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit	Rear - 32 x 11mm
Overall Size (Approx)	H98.5 x W18.1 x D138mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhms
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE/PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

200-Pin LFH PXI Connector Block, 1A, Screw Terminal,

Female with Backshell

B200LFR-2F-5B

Female without Backshell

B200LFX-2F-5B

200-Pin LFH Connector - Male

- Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination
- M3 Screwlocks - Male

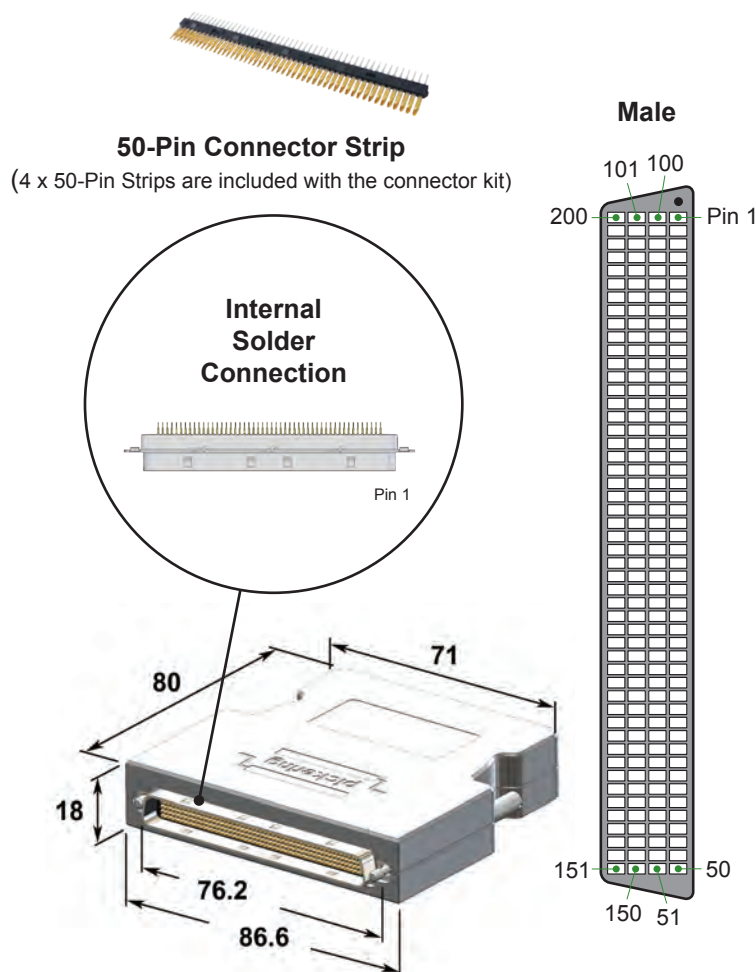
This accessory is designed to allow users to directly terminate with soldered connections to the 200-Pin LFH connector. It is difficult to terminate a cable to the 200-Pin LFH because of the high density and fine pitch. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

If this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



M



Technical Specification

Connector Type: Gender Securing Method Wire Connection	200-Pin LFH Male M3 screwlocks, male Solder pin
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 150VDC Dual rear exit Each exit: 4.8 x 24mm H87 x W18 x D84mm
200-Pin LFH: Contact Material Contact Resistance	Gold over nickel <20mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG 50-Pin twisted pair ribbon cable, 1.27mm pitch,
Additional Cable Clamp	Yes (in backshell)
Notes: This connector is supplied in kit form.	

Product Order Codes

200-Pin LFH Connector, 1A, Solder Pin, with Backshell, Male with M3 Screwlocks **40-961A-200-M3-M**

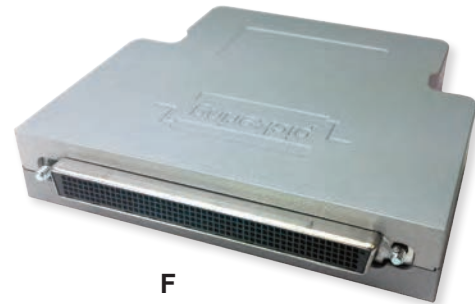
200-Pin LFH Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination
- Male 4-40 UNC Screwlocks

This accessory is designed to allow users to terminate a cable with soldered connections to a PCB. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

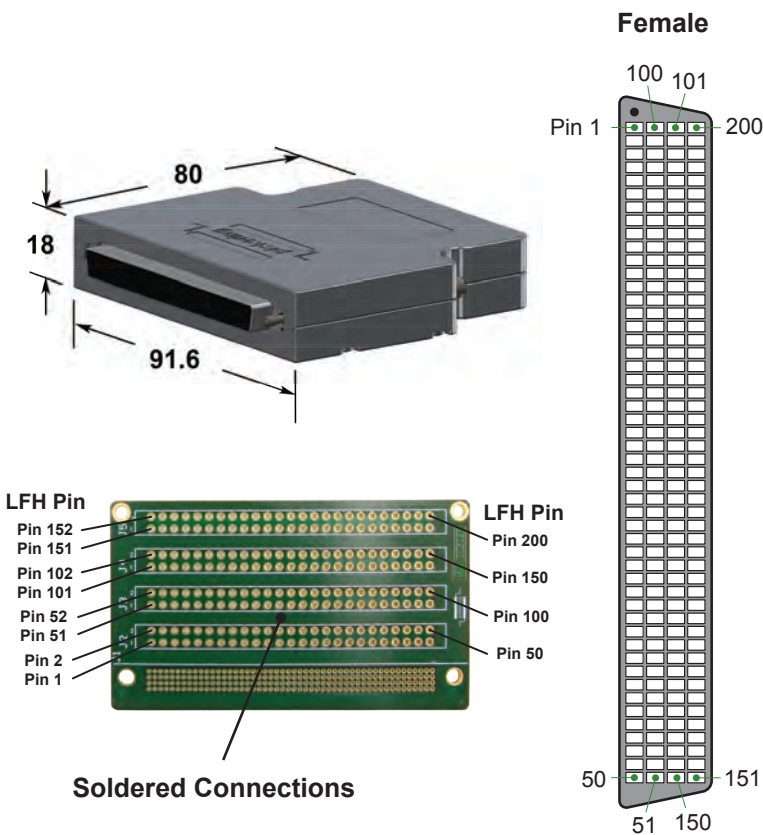
If this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



F

With Backshell



Technical Specification

Connector Type:	200-Pin LFH
Gender	Female
Securing Method	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder to PCB
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit:	Dual rear exit
Cable Exit Size	635mm ²
Overall Size (Approx)	H92 x W18 x D84.7mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Insulation	PVC
Additional Cable Clamp	Yes (in backshell)
Notes:	This connector is supplied in kit form.

Product Order Codes

- 200-Pin LFH Connector, 1A, with Backshell,
 Female with 4-40 UNC Male Screwlocks **C200LFR-2SP-5A**
 Female without Backshell **C200LFX-2SP-5A**

200-Pin LFH Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination
- Female 4-40 UNC or M3 Screwlocks

This accessory is designed to allow users to terminate a cable with soldered connections to a PCB. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

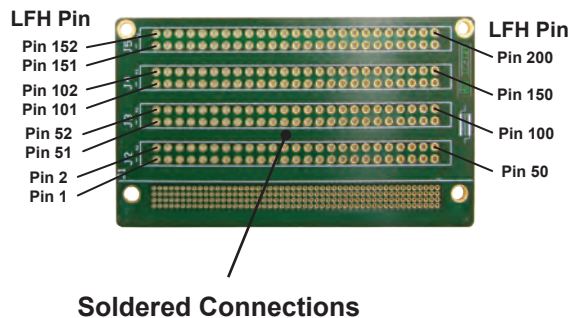
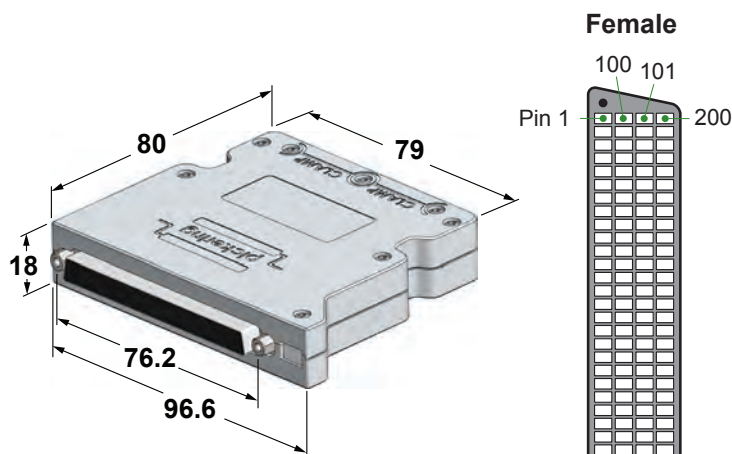
If this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



F

With
Backshell



Technical Specification

Connector Type:	200-Pin LFH
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC or M3 screwlocks, female
Product without Backshell	4-40UNC Screwlocks, female
Wire Connection	Solder to PCB
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	150VDC
Cable Exit:	Dual rear exit
Cable Exit Size	611mm ²
Overall Size (Approx)	H97 x W18 x D84.7mm
200-Pin LFH:	
Contact Material	Gold over nickel
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Insulation	PVC
Additional Cable Clamp	Yes (in backshell)
Notes:	
This connector is supplied in kit form.	

Product Order Codes

200-Pin LFH Connector, 1A, with Backshell,

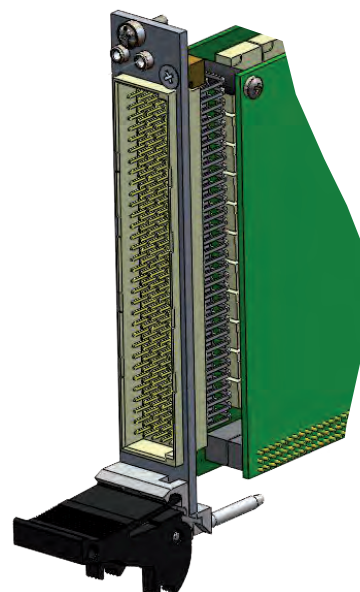
Female with 4-40 UNC Female Screwlocks **40-961A-200-F**

Female with M3 Female Screwlocks **40-961A-200-M3-F**

Female without Backshell **92-961-200-F**

160-Pin DIN41612 Connection Accessories

- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**



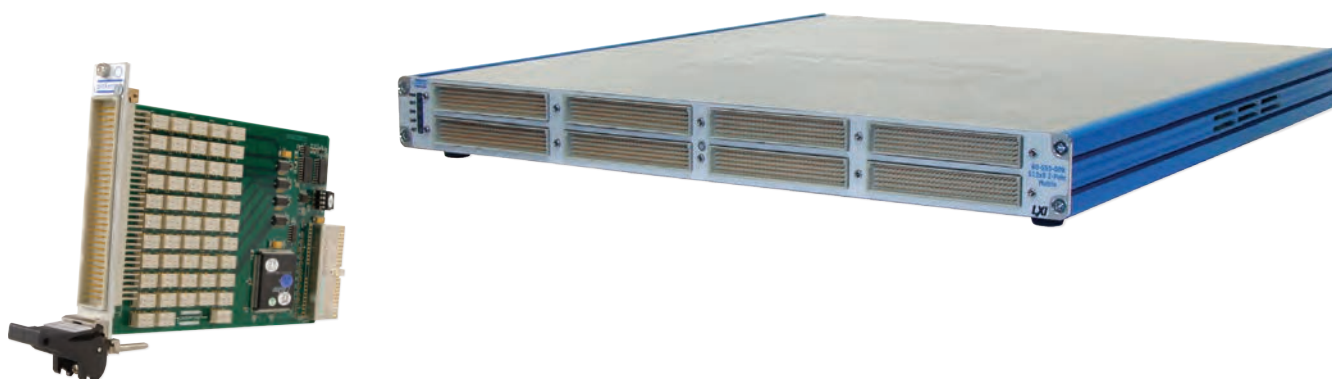
The 160-Pin DIN41612 connector is used on switching products to provide a high density 2A connector solution. Pickering Interfaces has developed a full range of standard connection solutions to simplify the task of integrating products into a test system.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote DIN rail mounted breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.










Part Number Listing for all 160-Pin DIN41612 Connection Accessories







Cables: 160-Pin DIN41612 Connector to Connector						
End 1	End 2	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Type (inc Screwlocks)	Type (inc Screwlocks)	0.5m Long	1m Long	2m Long		
160-Pin DIN41612, Male, Rear Cable Exit (2 x M2.5, Female)	60-Pin DIN41612, Female, Rear Cable Exit (1 x M2.5, Male)	40-970-160-0.5m-MF	40-970-160-1m-MF	40-970-160-2m-MF	Yes (Female end)	3.5
160-Pin DIN41612, Female, Rear Cable Exit (1 x M2.5, Male)	160-Pin DIN41612, Female, Rear Cable Exit (1 x M2.5, Male)	40-970-160-0.5m-FF	40-970-160-1m-FF	40-970-160-2m-FF	Yes	3.6
160-Pin DIN41612, Male, Rear Cable Exit (2 x M2.5, Female)	60-Pin DIN41612, Female, Rear Cable Exit (2 x M2.5, Female)	40-970-160-0.5m-MM	40-970-160-1m-MM	40-970-160-2m-MM	No	3.23
160-Pin DIN41612, Female, 45° Cable Exit (1 x M2.5, Male)	160-Pin DIN41612, Female, 45° Cable Exit (1 x M2.5, Male)	A1604F5-1604F5-0A050	A1604F5-1604F5-0A100	A1604F5-1604F5-0A200	Yes	3.7
160-Pin DIN41612, Female, 90° Cable Exit (1 x M2.5, Male)	160-Pin DIN41612, Female, 90° Cable Exit (1 x M2.5, Male)	A1604FT-1604FT-0A050	A1604FT-1604FT-0A100	A1604FT-1604FT-0A200	Yes	3.8

Cables: 160-Pin DIN41612 Connector to Untermated						
End 1 (inc Screwlocks)	End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
		0.5m Long	1m Long	2m Long		
160-Pin DIN41612, Female, Rear Cable Exit (1 x M2.5, Male)	Ferrules	40-972-160-0.5m-FU	40-972-160-1m-FU	40-972-160-2m-FU	Yes	3.9
	Tinned End	A1604FR-T-0A050	A1604FR-T-0A100	A1604FR-T-0A200		
	Cut End	A1604FR-C-0A050	A1604FR-C-0A100	A1604FR-C-0A200		
160-Pin DIN41612, Female, 45° Cable Exit (1 x M2.5, Male)	Ferrules	A1604F5-F-0A050	A1604F5-F-0A100	A1604F5-F-0A200	Yes	3.10
	Tinned End	A1604F5-T-0A050	A1604F5-T-0A100	A1604F5-T-0A200		
	Cut End	A1604F5-C-0A050	A1604F5-C-0A100	A1604F5-C-0A200		
160-Pin DIN41612, Female, 90° Cable Exit (1 x M2.5, Male)	Ferrules	A1604FT-F-0A050	A1604FT-F-0A100	A1604FT-F-0A200	Yes	3.11
	Tinned End	A1604FT-T-0A050	A1604FT-T-0A100	A1604FT-T-0A200		
	Cut End	A1604FT-C-0A050	A1604FT-C-0A100	A1604FT-C-0A200		
160-Pin DIN41612, Male, Rear Cable Exit (2 x M2.5, Female)	Ferrules	40-972-160-0.5m-MU	40-972-160-1m-MU	40-972-160-2m-MU	No	3.24
	Tinned End	A1604MR-T-0A050	A1604MR-T-0A100	A1604MR-T-0A200		
	Cut End	A1604MR-C-0A050	A1604MR-C-0A100	A1604MR-C-0A200		



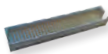
Connector Blocks, Breakouts and Cable Connectors: 160-Pin DIN41612				
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
	With Backshell	Without Backshell		
Connector Block, Female (1 x M2.5, Male)	40-965-160-F	92-965-160-F	Yes	3.12
Connector Block, Male (1 x M2.5, Female)	B1604MR-4F-0A	92-965-160-M	No	3.25
Breakout, Female (2 x M2.5, Male)	40-967-160-F	-	Via Cable	3.13
Breakout, Male (2 x M2.5, Female)	40-967-160-M	-	Via Cable	3.19
Cable Connector, Rear Exit, Female (1 x M2.5, Male)	40-960-160-F	92-960-160-F	Yes	3.14
Cable Connector, 45° Exit, Female (1 x M2.5, Male)	40-960-160-F5	-	Yes	3.15
Cable Connector, 90° Exit, Female (1 x M2.5, Male)	40-960-160-FT	-	Yes	3.16
Cable Connector, Rear Exit, Male (2 x M2.5, Female)	40-960-160-M	92-960-160-M	No	3.26

PCB Connectors: 160-Pin DIN41612					
Type	Mount	Gender	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	40-963-160-RF	No	3.17
		Male	40-963-160-RM	No	3.20
	Straight PCB Mount	Female	C1604FX-4PS-0A (Modified)	No	3.18
			40-963-160-SF (Unmodified)	No	3.27
		Male	40-963-160-SM (Modified)	No	3.21
			C1604MX-XPS-0A (Unmodified)	No	3.28

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 160-Pin DIN41612, 2A, 0.5m, 1m and 2m	Male, Rear Cable Exit, 2 x M2.5 Female Screwlocks	Female, Rear Cable Exit, 1 x M2.5 Male Screwlock	Page 3.5
	Cable Assy, 160-Pin DIN41612, 2A, 0.5m, 1m and 2m Custom lengths by quotation	Female, Rear Cable Exit, 1 x M2.5 Male Screwlock	Female, Rear Cable Exit, 1 x M2.5 Male Screwlock	Page 3.6
	Cable Assy, 160-Pin DIN41612, 2A, 0.5m, 1m and 2m Custom lengths by quotation	Female, Cable Exit 45°	Female, Cable Exit 45°	Page 3.7
		Female, Cable Exit 90°	Female, Cable Exit 90°	Page 3.8
	Cable Assy, 160-Pin DIN41612 to Unterminated, 2A, 0.5m, 1m and 2m Custom lengths by quotation	Female, Rear Cable Exit	Unterminated with Options	Page 3.9
		Female, Cable Exit 45°	Unterminated with Options	Page 3.10
		Female, Cable Exit 90°	Unterminated with Options	Page 3.11



Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Connector Block, 160-Pin DIN41612, 2A, Screw Terminal	With or Without Backshell	Female	Page 3.12
	Breakout with DIN Rail Mount, 160-Pin DIN41612, 2A, Screw Terminal			Page 3.13
	Cable Connector 160-Pin DIN41612, 2A, Crimp-Pin	With Backshell & 1 x M2.5 Screwlock or Without Backshell		Page 3.14
		With Backshell Cable Exit 45°		Page 3.15
		With Backshell Cable Exit 90°		Page 3.16
	PCB Connector 160-Pin DIN41612, 2A	Right Angle PCB Mount		Page 3.17
		Straight PCB Mount (Modified)		Page 3.18




Contents - Mating Accessories For Pickering Products



Male Breakouts/PCB Connectors				
View	Description	Type	Gender	Page
	Breakout with DIN Rail Mount, 160-Pin DIN41612, 2A, Screw Terminal		Male	Page 3.19
		Right Angle PCB Mount		Page 3.20
		Straight PCB Mount (Modified)		Page 3.21

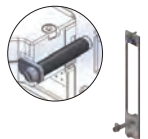
Contents - Additional Accessories

Although some of these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 160-Pin DIN41612, 2A, 0.5m, 1m and 2m Custom lengths by quotation	Male, Rear Cable Exit, 2 x M2.5 ScrewlOCKs	Male, Rear Cable Exit, 2 x M2.5 ScrewlOCKs	Page 3.23
	Cable Assy, 160-Pin DIN41612 to Untermated, 2A, 0.5m, 1m and 2m Custom lengths by quotation	Male, Rear Cable Exit	Untermated with Options	Page 3.24

Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Connector Block, 160-Pin DIN41612, 2A, Screw Terminal	With or Without Backshell	Male	Page 3.25
		With Backshell & 2 x M2.5 ScrewlOCKs or Without Backshell		Page 3.26
	PCB Connector (Unmodified) 160-Pin DIN41612, 2A	Straight PCB Mount	Female	Page 3.27
		Straight PCB Mount	Male	Page 3.28

Tools		
View	Description	Page
	Crimp Tool, DIN41612	Page 3.14
	Extractor Tool, DIN41612	Page 3.14

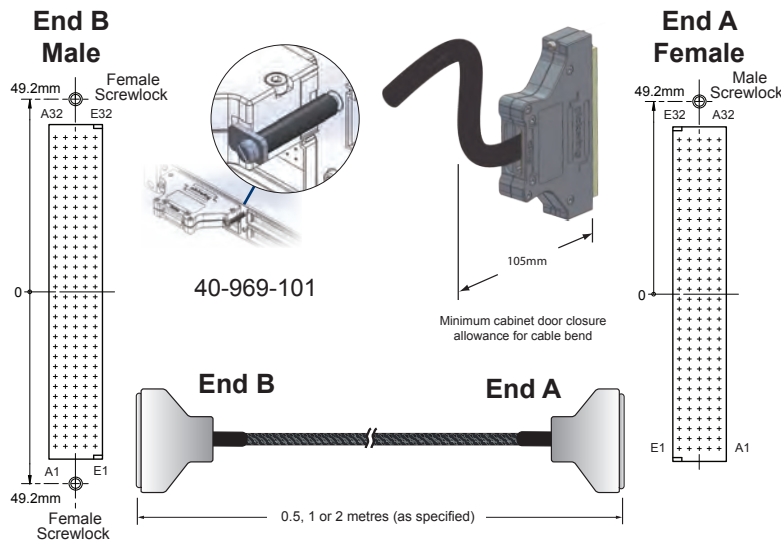
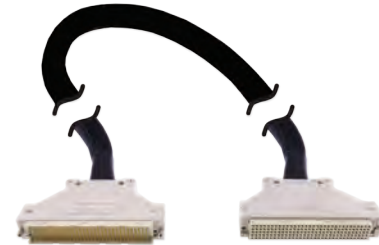
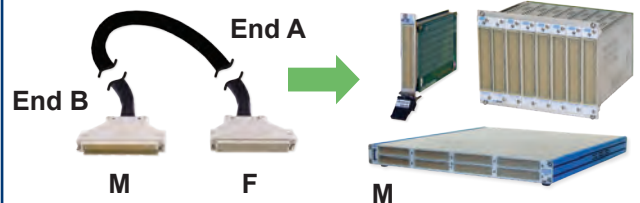
Other Items		
View	Description	Page
	Screwlock Assy, 160-Pin	Page 3.14
	3U PXI Front Panel Kit	Page 3.14

160-Pin DIN41612 Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Rear Exit
- Braided Sleeving and Strain Relief
- Fully Screened Cable Construction
- Optional Separate Screwlock Assembly and Alternative PXI Front Panel

For applications in LXI products where 4 connectors are used in a horizontal row if the user requires all connectors to have a second fixing then the right hand connector can be fitted with the optional screwlock assembly as shown.

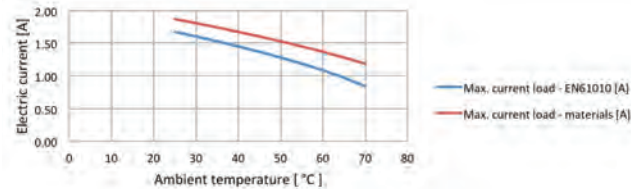
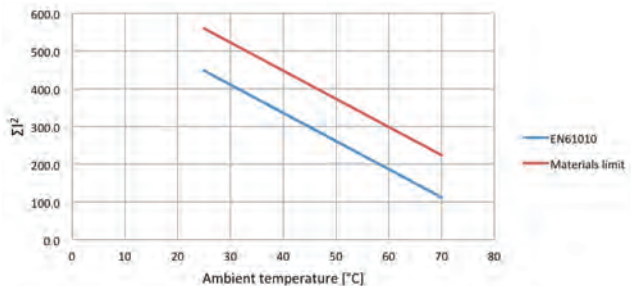
For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See page 3.14.



Technical Specification

Connector Type (End A):	160-Pin DIN41612
Gender	Female
Securing Method	1 x M2.5 screwlock, male (Centrally positioned)
Connector Type (End B):	160-Pin DIN41612
Gender	Male
Securing Method	2 x M2.5 screwlocks, female (Centrally positioned)
Cable Assembly Rating:	
Maximum Current	2A
Maximum Voltage	500V DC or AC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	Rear
Overall Size (Approx)	H99 x W18 x D61mm
Cable Type:	
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	15mm
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)
Notes:	
	• Other cable lengths can be supplied.
	• An additional Screwlock assembly (40-969-101) suitable for a variety of applications, and an alternative PXI Front Panel Kit (44-960-160-FP) are also available.

Characteristic Plots for A1604MR-1604FR-5A050



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

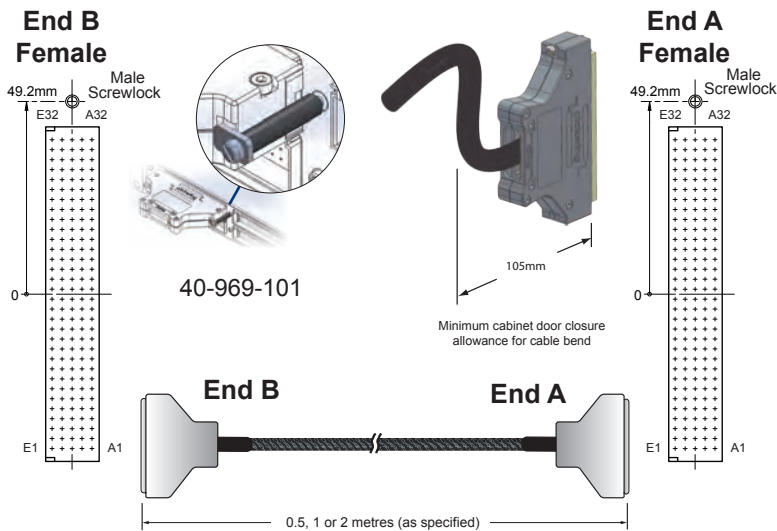
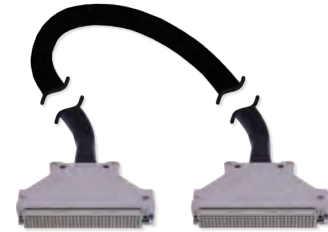
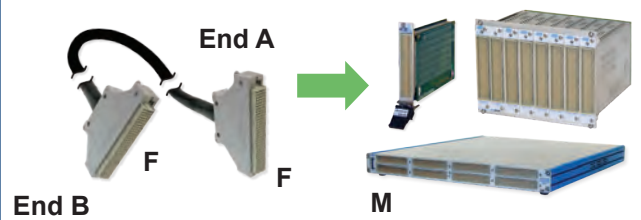
160-Pin DIN41612 Cable Assy, 2A, Male to Female, 0.5m Long	40-970-160-0.5m-MF
Male to Female, 1.0m Long	40-970-160-1m-MF
Male to Female, 2.0m Long	40-970-160-2m-MF
Screwlock Assy 160-Pin	40-969-101
PXI Front Panel Kit	44-960-160-FP

160-Pin DIN41612 Cable Assy - Female to Female

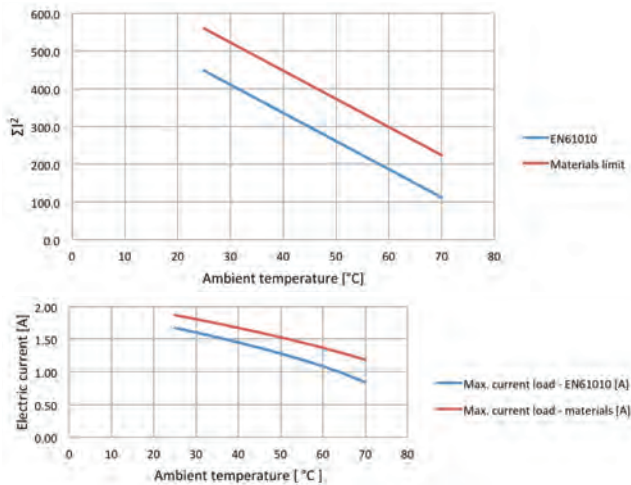
- High Specification Cable
- Highly Flexible Cable with Rear Exit
- Braided Sleaving and Strain Relief
- Fully Screened Cable Construction
- Optional Separate Screwlock Assembly and Alternative PXI Front Panel

For applications in LXI products where 4 connectors are used in a horizontal row if the user requires all connectors to have a second fixing then the right hand connector can be fitted with the optional screwlock assembly as shown.

For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See page 3.14.



Characteristic Plots for 40-970-160-0.5m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	160-Pin DIN41612
Gender	Female
Securing Method	1 x M2.5 screwlock, male (Centrally positioned)
Connector Type (End B):	160-Pin DIN41612
Gender	Female
Securing Method	1 x M2.5 screwlock, male (Centrally positioned)
Cable Assembly Rating:	
Maximum Current	2A
Maximum Voltage	500V DC or AC peak
Insulation Resistance	1000M Ω m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20m Ω m
Cable Exit	Rear
Overall Size (Approx)	H99 x W18 x D61mm
Cable Type:	
Individual wires, screened & sleeved	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137 Ω /m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	15mm
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

- Other cable lengths can be supplied.
- An additional Screwlock assembly (40-969-101) suitable for a variety of applications, and an alternative PXI Front Panel Kit (44-960-160-FP) are also available.

Product Order Codes

**160-Pin DIN41612 Cable Assy, 2A,
Female to Female, 0.5m Long**

40-970-160-0.5m-FF

Female to Female, 1.0m Long

40-970-160-1m-FF

Female to Female, 2.0m Long

40-970-160-2m-FF

Screwlock Assy 160-Pin

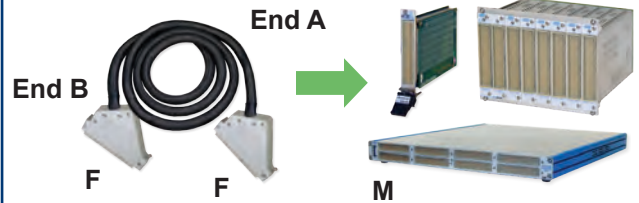
40-969-101

PXI Front Panel Kit

44-960-160-FP

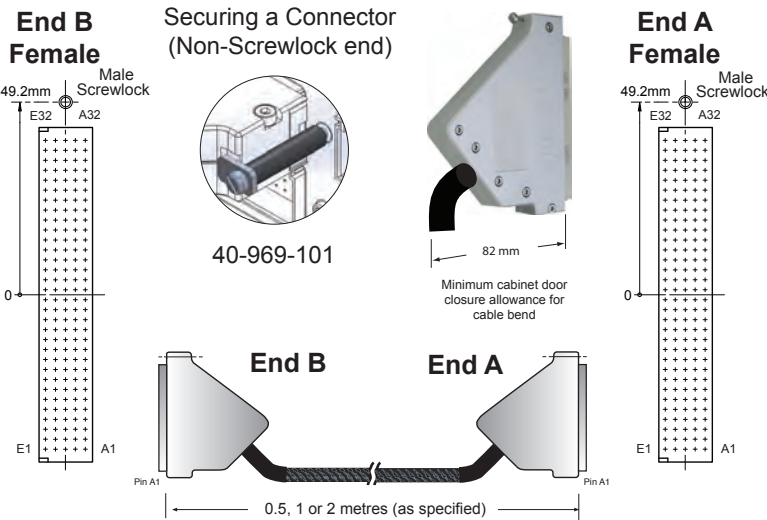
160-Pin DIN41612 Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with 45 Degree Exit
- Braided Sleeving and Strain Relief
- Fully Screened Cable Construction
- Optional Separate Screwlock Assembly and Alternative PXI Front Panel



For applications in LXI products where 4 connectors are used in a horizontal row if the user requires all connectors to have a second fixing then the right hand connector can be fitted with the optional screwlock assembly as shown.

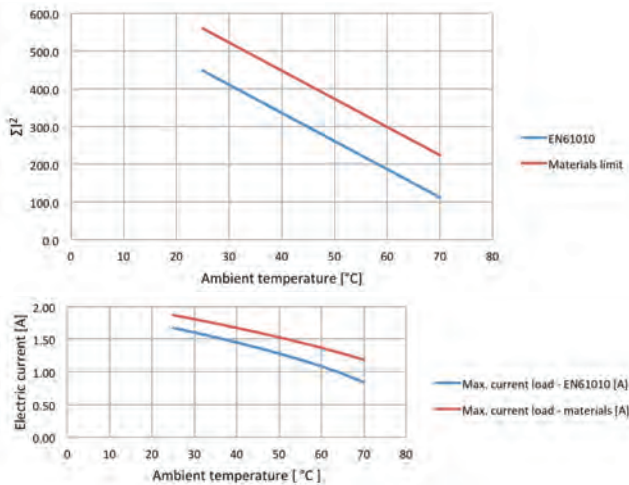
For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See page 3.14.



Technical Specification

Connector Type (End A): Gender Securing Method	160-Pin DIN41612 Female 1 x M2.5 screwlock, male (Centrally positioned)
Connector Type (End B): Gender Securing Method	160-Pin DIN41612 Female 1 x M2.5 screwlock, male (Centrally positioned)
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	2A 500V DC or AC peak 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (Towards Pins A1-E1) H99 x W18 x D87mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Silver plated copper wire 7/0.15 (0.124mm ² , 26AWG) 0.137Ω/m PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 15mm 25mm 82mm (see diagram)
Notes:	<ul style="list-style-type: none"> • Other cable lengths can be supplied. • An additional Screwlock assembly (40-969-101) suitable for a variety of applications, and an alternative PXI Front Panel Kit (44-960-160-FP) are also available.

Characteristic Plots for 40-970-160-0.5m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

160-Pin DIN41612 Cable Assy, Cable Exit 45° (Towards Pins A1-E1), 2A, Female to Female

0.5m Long

A1604F5-1604F5-0A050

1.0m Long

A1604F5-1604F5-0A100

2.0m Long

A1604F5-1604F5-0A200

Screwlock Assy 160-Pin

40-969-101

PXI Front Panel Kit

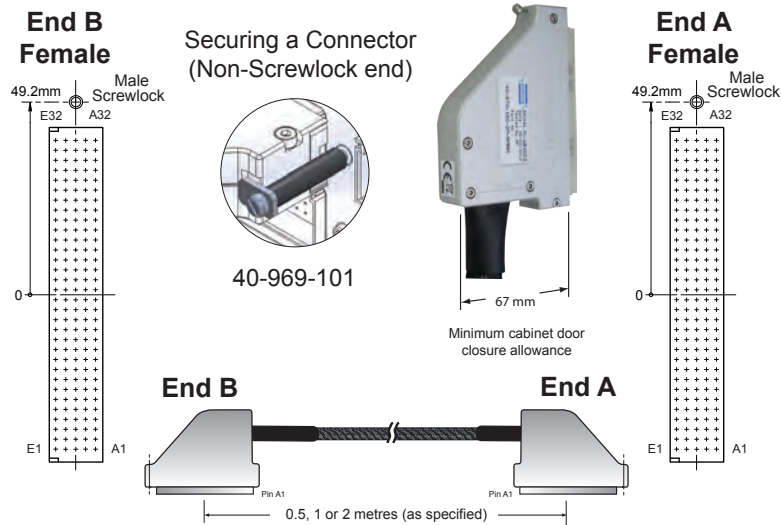
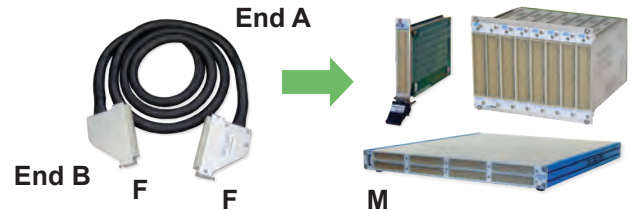
44-960-160-FP

160-Pin DIN41612 Cable Assy - Female to Female

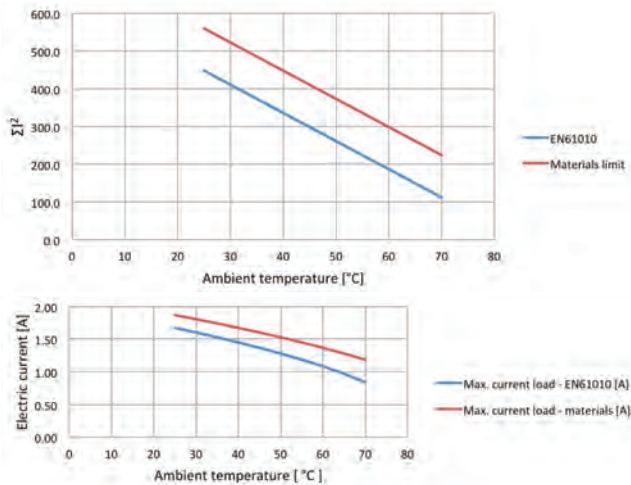
- High Specification Cable
- Highly Flexible Cable with 90 Degree Exit
- Braided Sleeving and Strain Relief
- Fully Screened Cable Construction
- Optional Separate Screwlock Assembly and Alternative PXI Front Panel

For applications in LXI products where 4 connectors are used in a horizontal row if the user requires all connectors to have a second fixing then the right hand connector can be fitted with the optional screwlock assembly as shown.

For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See page 3.14.



Characteristic Plots for 40-970-160-0.5m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A): Gender Securing Method	160-Pin DIN41612 Female 1 x M2.5 screwlock, male (Centrally positioned)
Connector Type (End B): Gender Securing Method	160-Pin DIN41612 Female 1 x M2.5 screwlock, male (Centrally positioned)
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	2A 500V DC or AC peak 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 90° (Towards Pins A1-E1) H99 x W18 x D67mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Silver plated copper wire 7/0.15 (0.124mm ² , 26AWG) 0.137Ω/m PFA Polyester Yes Yes 15mm 25mm 67mm (see diagram)
Notes:	<ul style="list-style-type: none"> • Other cable lengths can be supplied. • An additional Screwlock assembly (40-969-101) suitable for a variety of applications, and an alternative PXI Front Panel Kit (44-960-160-FP) are also available.

Product Order Codes

160-Pin DIN41612 Cable Assy, Cable Exit 90° (Towards Pins A1-E1), 2A, Female to Female

0.5m Long

A1604FT-1604FT-0A050

1.0m Long

A1604FT-1604FT-0A100

2.0m Long

A1604FT-1604FT-0A200

Screwlock Assy 160-Pin

40-969-101

PXI Front Panel Kit

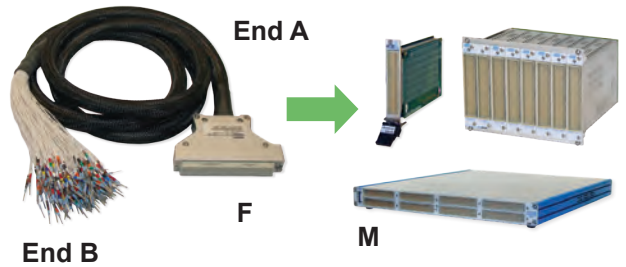
44-960-160-FP

160-Pin DIN41612 Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable with Rear Exit
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Fully Coded Markers to Ensure Easy Connection

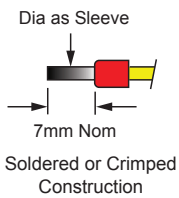
For applications in LXI products where 4 connectors are used in a horizontal row if the user requires all connectors to have a second fixing then the right hand connector can be fitted with the optional screwlock assembly as shown.

For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See page 3.14.

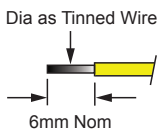


End B Options

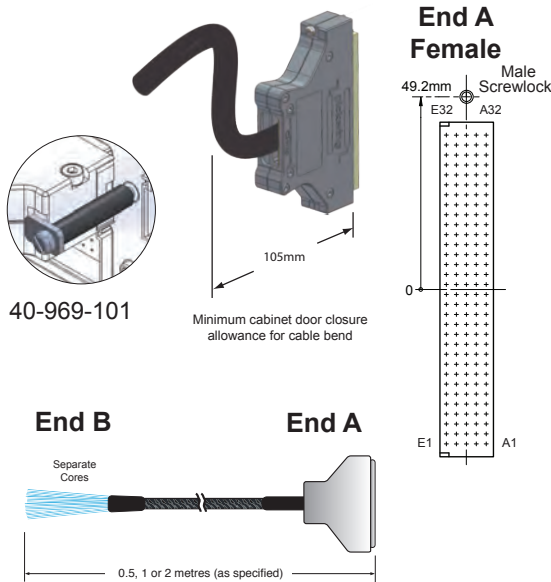
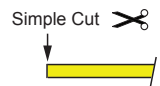
Ferrules



Tinned End



Cut End



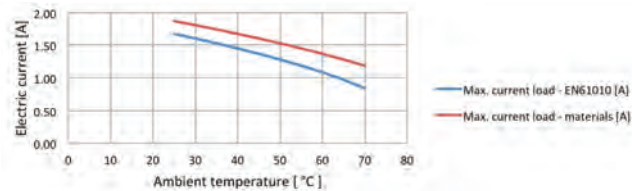
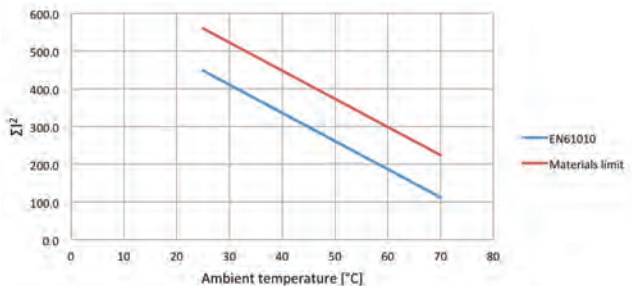
Technical Specification

Connector Type (End A): Gender Securing Method	160-Pin DIN41612 Female 1 x M2.5 screwlock, male (Centrally positioned)
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	2A 500V DC or AC peak 1000MΩ
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩ Rear H99 x W18 x D61mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Silver plated copper wire 7/0.15 (0.124mm ² , 26AWG) 0.137Ω/m PFA Polyester Yes Yes 15mm 25mm 105mm (see diagram)

Notes:

- Other cable lengths can be supplied.
- An additional Screwlock assembly (40-969-101) suitable for a variety of applications, and an alternative PXI Front Panel Kit (44-960-160-FP) are also available.

Characteristic Plots for 40-972-160-0.5m



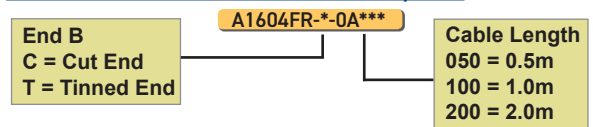
The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 160-Pin DIN41612 Cable Assy, 2A, Boot Lace Ferrules
 Female to Unterminated, 0.5m Long **40-972-160-0.5m-FU**
 Female to Unterminated, 1.0m Long **40-972-160-1m-FU**
 Female to Unterminated, 2.0m Long **40-972-160-2m-FU**

Part numbers for Cut End and Tinned End options:



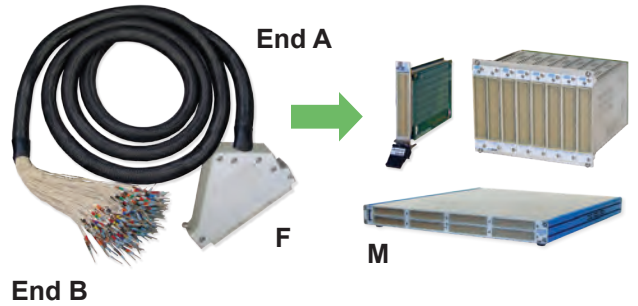
- Screwlock Assy 160-Pin **40-969-101**
 PXI Front Panel Kit **44-960-160-FP**

160-Pin DIN41612 Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable with 45 Degree Exit
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Fully Coded Markers to Ensure Easy Connection

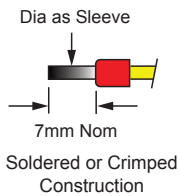
For applications in LXI products where 4 connectors are used in a horizontal row if the user requires all connectors to have a second fixing then the right hand connector can be fitted with the optional screwlock assembly as shown.

For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See page 3.14.

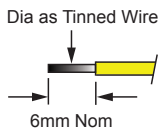


End B Options

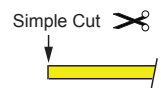
Ferrules



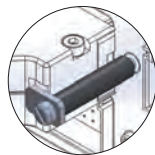
Tinned End



Cut End



Securing a Connector (Non-Screwlock end)

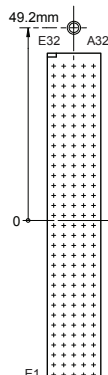


40-969-101

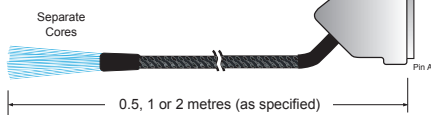
Male Screwlock



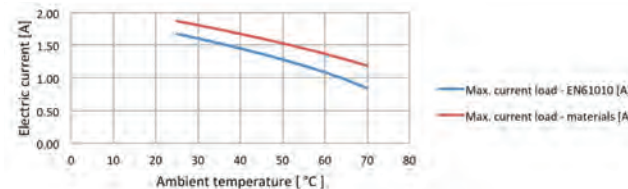
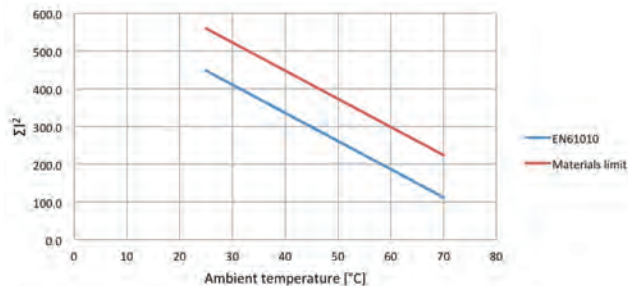
End A Female



End B



Characteristic Plots for 40-972-160-0.5m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

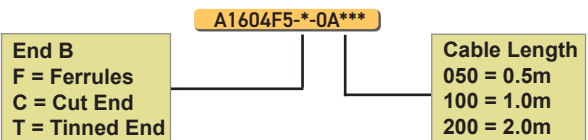
Connector Type (End A): Gender Securing Method	160-Pin DIN41612 Female 1 x M2.5 screwlock, male (Centrally positioned)
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	2A 500V DC or AC peak 1000MΩ
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩ 45° (Towards Pins A1-E1) H99 x W18 x D87mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Silver plated copper wire 7/0.15 (0.124mm ² , 26AWG) 0.137Ω/m PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 15mm 25mm 82mm (see diagram)

Notes:

- Other cable lengths can be supplied.
- An additional Screwlock assembly (40-969-101) suitable for a variety of applications, and an alternative PXI Front Panel Kit (44-960-160-FP) are also available.

Product Order Codes

160-Pin DIN41612 Cable Assy, Cable Exit 45° (Towards Pins A1-E1), 2A, with End and Length options.



Screwlock Assy 160-Pin
PXI Front Panel Kit

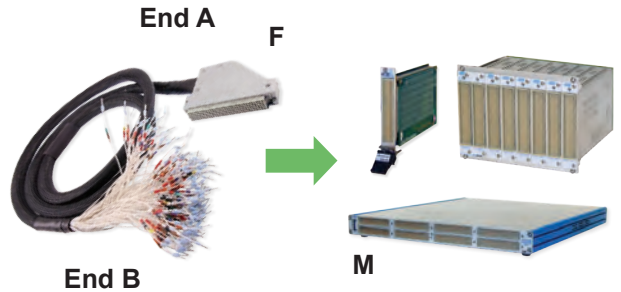
40-969-101
44-960-160-FP

160-Pin DIN41612 Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable with 90 Degree Exit
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Fully Coded Markers to Ensure Easy Connection

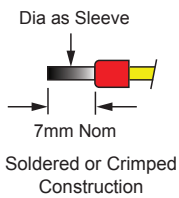
For applications in LXI products where 4 connectors are used in a horizontal row if the user requires all connectors to have a second fixing then the right hand connector can be fitted with the optional screwlock assembly as shown.

For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See page 3.14.

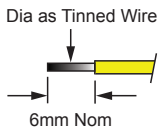


End B Options

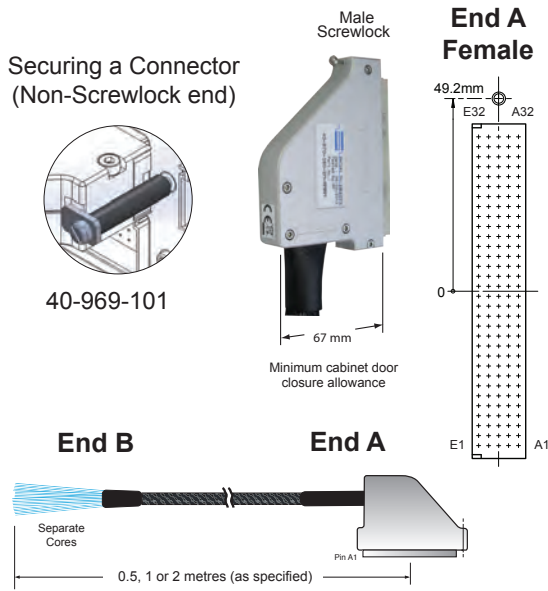
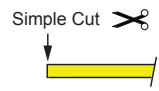
Ferrules



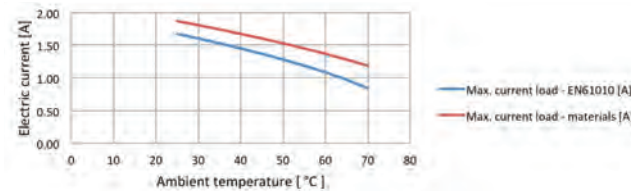
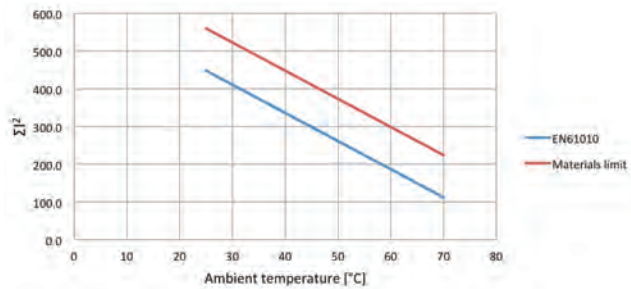
Tinned End



Cut End



Characteristic Plots for 40-972-160-0.5m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

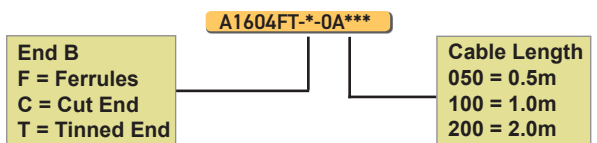
Connector Type (End A): Gender Securing Method	160-Pin DIN41612 Female 1 x M2.5 screwlock, male (Centrally positioned)
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	2A 500V DC or AC peak 1000MΩm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩm 90° (Towards Pins A1-E1) H99 x W18 x D67mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Silver plated copper wire 7/0.15 (0.124mm ² , 26AWG) 0.137Ω/m PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 15mm 25mm 67mm (see diagram)

Notes:

- Other cable lengths can be supplied.
- An additional Screwlock assembly (40-969-101) suitable for a variety of applications, and an alternative PXI Front Panel Kit (44-960-160-FP) are also available.

Product Order Codes

160-Pin DIN41612 Cable Assy, Cable Exit 90° (Towards Pins A1-E1), 2A, with End and Length options.



Screwlock Assy 160-Pin
PXI Front Panel Kit

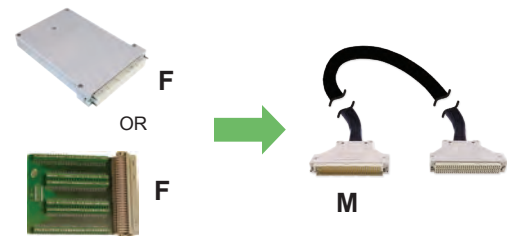
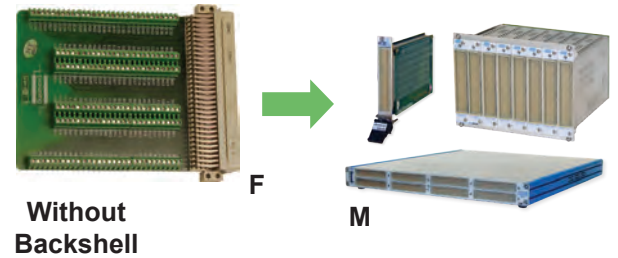
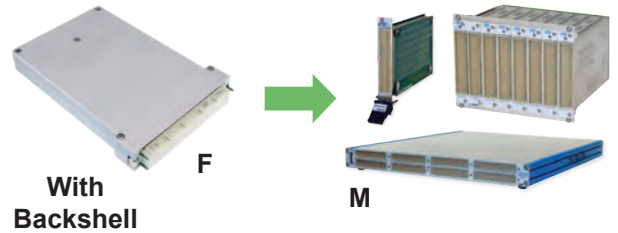
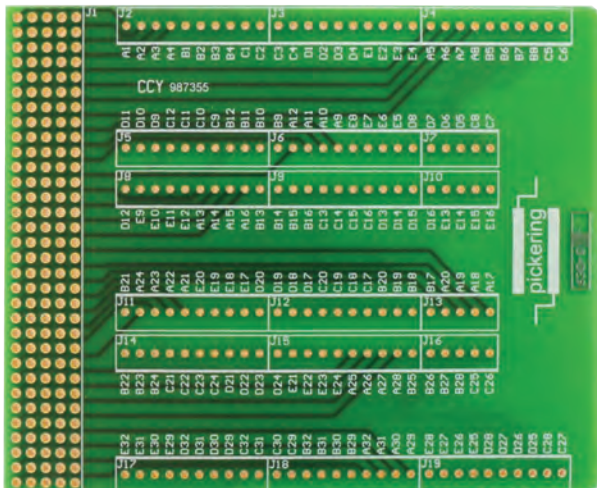
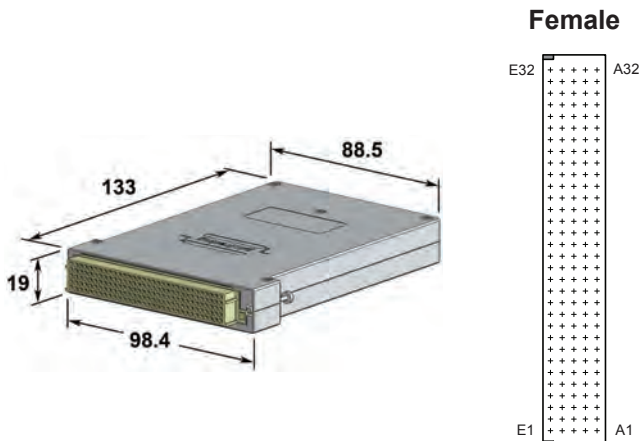
40-969-101
44-960-160-FP

160-Pin DIN41612 Connector Block - Female

- Connector and PCB Only or Connector, PCB and Backshell
- Female Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

Suitable for use on the front of PXI modules this connector block provides a simple method of connecting to high density DIN41612 connectors. The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE/PFA cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. Connector blocks will have higher losses than a cable connection and the breakdown voltage is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.



Technical Specification

Connector Block Type:	160-Pin DIN41612
Gender	Female
Securing Method:	
Product with Backshell	1 x M2.5 screwlock, male (Centrally positioned)
Product without Backshell	Screwlocks not provided
Wire Connection	Rising cage screw terminals

Connector Block Ratings:	
Maximum Current	2A
Maximum Voltage	200V DC or AC peak
Cable Exit	Dual rear - 11 x 24mm
Overall Size (Approx)	H99 x W19 x D143mm
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE/PFA
Additional Cable Clamp	Yes (in backshell)

Notes:

When the product is used without a backshell appropriate safety precautions should be observed.

Product Order Codes

160-Pin DIN41612 Connector Block, 2A, Screw Terminal
 With Backshell, Female [40-965-160-F](tel:40-965-160-F)
 Without Backshell, Female [92-965-160-F](tel:92-965-160-F)

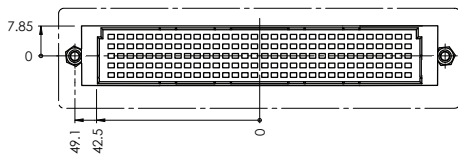
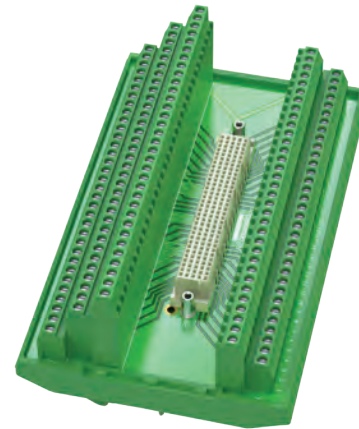
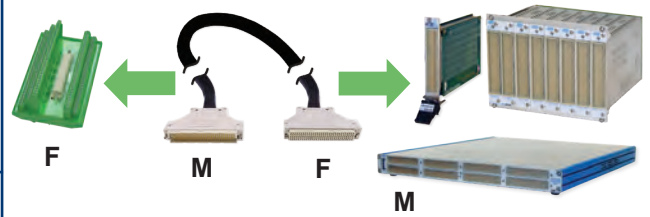
160-Pin DIN41612 Breakout - Female

- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted

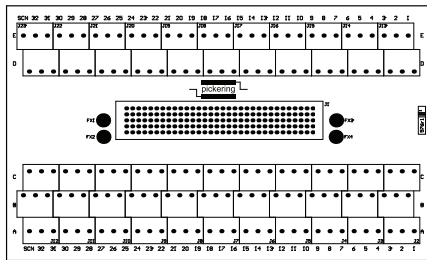
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This termination option is capable of accepting heavy duty connection wires and uses rising clamp screw terminals to minimize the danger of copper strand damage. Users should care take to protect the termination and provide a suitable method of restraining the cables.

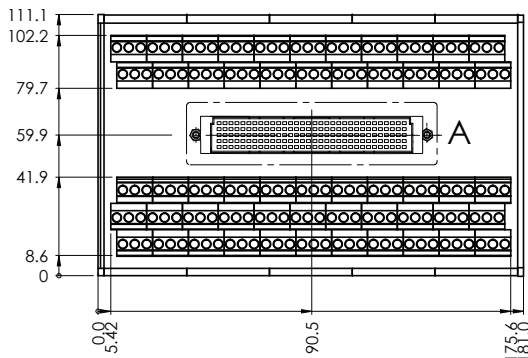
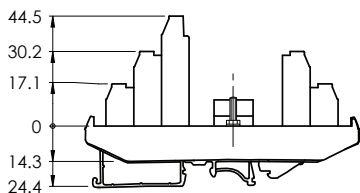
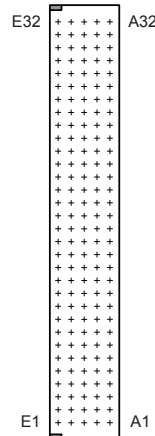
When using this product please ensure appropriate electrical safety precautions are observed.



Detail: 160-Pin Connector - Screwlock Positions



Female



Technical Specification

Breakout Type:	160-Pin DIN41612
Gender	Female
Securing Method	2 x M2.5 screwlocks, male (Centrally positioned)
Wire Connection	Rising cage screw terminals
Breakout Ratings:	
Maximum Current	2A
Maximum Voltage	500V DC or AC peak
Securing Method	Suitable for securing to DIN rails.
Overall Size (Approx)	H181 x W112 x D69mm
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	12AWG
Additional Cable Clamp	No

Product Order Codes

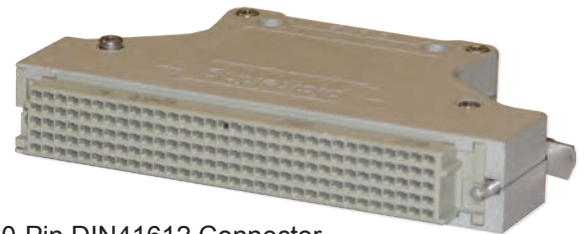
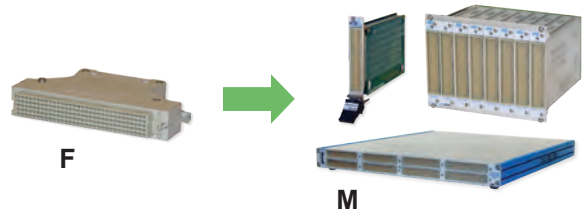
160-Pin DIN41612 Breakout with DIN Rail Mount, 2A, Screw Terminal, Female **40-967-160-F**

160-Pin DIN41612 Connector - Female

- Connector Only or Connector and Backshell
- Crimp-Pins for Easy Cable Termination
- Cable Clamp in Backshell
- Optional Separate Screwlock Assembly and Alternative PXI Front Panel

Suitable for users to create their own cable assemblies, it can be supplied with or without a backshell. Recommended for use with PFA coated 3 Amp cable. For applications in LXI products where 4 connectors are used in a horizontal row if the user requires all connectors to have a second fixing then the right hand connector can be fitted with the optional screwlock assembly as shown. PXI products can be fitted with the alternative front panel 44-960-160-FP where customers would prefer a positive fixing for the bottom of the connector.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



160-Pin DIN41612 Connector

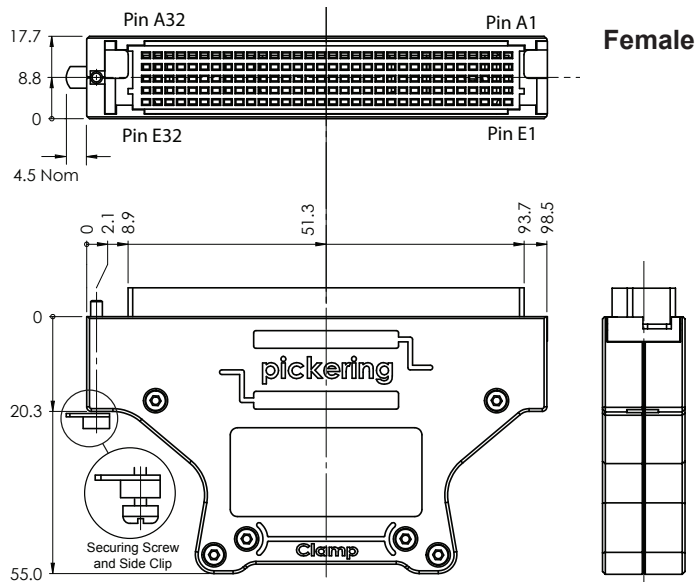


Crimp Tool



Extractor Tool

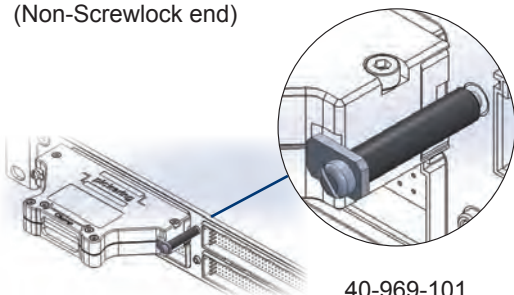
Note: Tools are available as separate order items.



Note: The Side Clip above can be used to secure an adjacent connector

Securing an Individual LXI Connector or other (Non-Screwlock end)

Optional PXI Front Panel 44-960-160-FP



40-969-101

Technical Specification

Connector Type: Gender Securing Method: Product with Backshell Product without Backshell Wire Connection	160-Pin DIN41612 Female 1 x M2.5 screwlock, male, with Side Clip (Centrally positioned) Screwlocks not supplied Crimp pin
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx) 160-Pin DIN41612: Contact Material Contact Resistance Wire Connection: Maximum Wire Size Recommended Insulation Additional Cable Clamp	2A each pin 500V DC or AC peak Rear 12 x 28mm H99 x W18 x D61mm Gold plated copper alloy <20mOhm 26AWG PFA Yes (in backshell)
Notes: • An additional Screwlock assembly (40-969-101) suitable for a variety of applications is available.	

Product Order Codes

160-Pin DIN41612 Connector, Rear Cable Exit, 2A, Crimp Pin With Backshell, Female	40-960-160-F
Without Backshell, Female	92-960-160-F
Crimp Tool, DIN41612	40-964-160-C
Extractor Tool, DIN41612	40-964-160-E
Screwlock Assy 160-Pin	40-969-101
3U PXI Front Panel Kit	44-960-160-FP

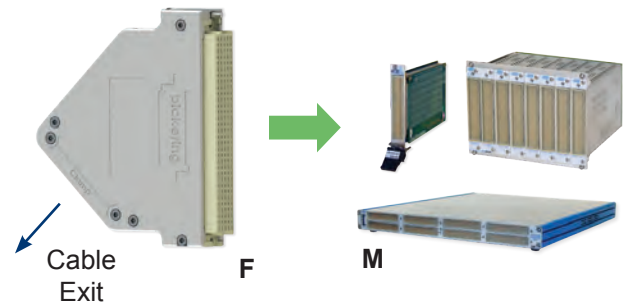
160-Pin DIN41612 Connector, 45° Exit - Female

- Connector and Backshell
- 45 Degree Cable Exit
- Crimp-Pins for Easy Cable Termination
- Cable Clamp in Backshell
- Optional Separate Screwlock Assembly and Alternative PXI Front Panel

Suitable for users to create their own cable assemblies where a 45 degree cable exit would be preferred. Recommended for use with PFA coated 3 Amp cable.

If the user requires LXI connectors to have a second fixing then the connector can be fitted with the optional screwlock assembly 40-969-101 as shown where applications permit.

For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See below.



160-Pin DIN41612 Connector, Cable Exit 45° (Towards Pins A1-E1)

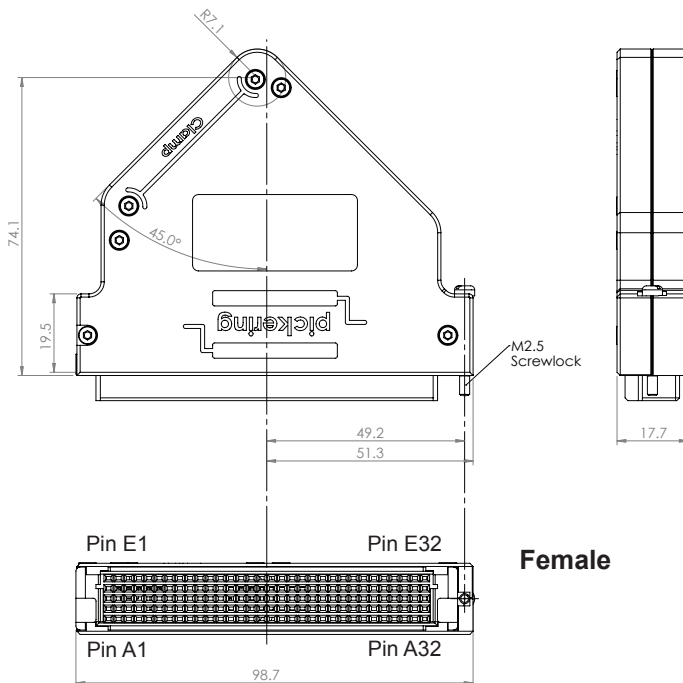


Crimp Tool

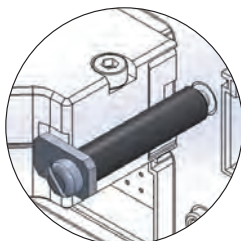


Extractor Tool

Note: Tools are available as separate order items.



Securing a Connector (Non-Screwlock end)



40-969-101

Optional PXI Front Panel 44-960-160-FP



Technical Specification

Connector Type:	160-Pin DIN41612
Gender	Female
Securing Method	1 x M2.5 screwlock, male, with Side Clip (Centrally positioned)
Wire Connection	Crimp pin
Connector Ratings:	
Maximum Current	2A each pin
Maximum Voltage	500V DC or AC peak
Cable Exit:	45° (Towards Pins A1-E1)
Cable Exit Size	388mm ² with clamp
Overall Size (Approx)	H99 x W18 x D87mm
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	26AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Notes:

- An additional Screwlock assembly (40-969-101) suitable for a variety of applications is available.
- An alternative 3U PXI Module 160-Pin Front Panel is also available where customers would prefer a positive fixing for the bottom of the connector. (44-960-160-FP)

Product Order Codes

160-Pin DIN41612 Connector, Cable Exit 45° (Towards Pins A1-E1), 2A, Crimp Pin, With Backshell, Female	40-960-160-F5
Crimp Tool, DIN41612	40-964-160-C
Extractor Tool, DIN41612	40-964-160-E
Screwlock Assy 160-Pin	40-969-101
3U PXI Front Panel Kit	44-960-160-FP

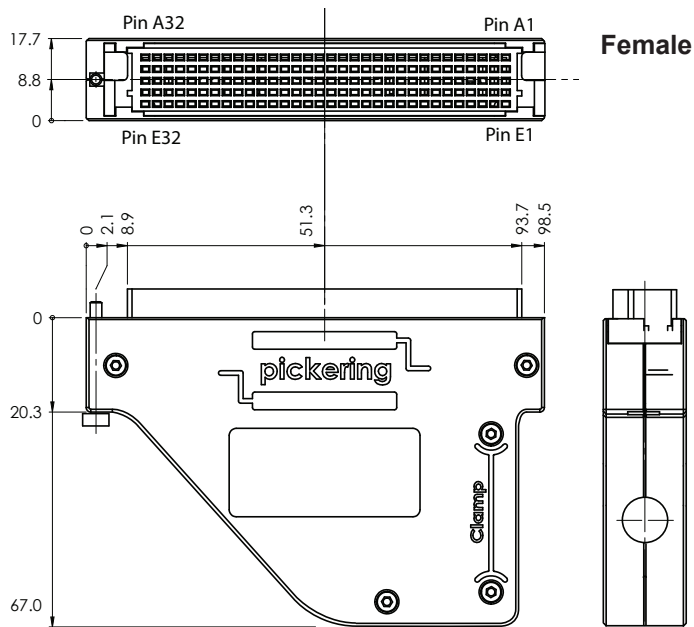
160-Pin DIN41612 Connector, 90° Exit - Female

- Connector and Backshell
- 90 Degree Cable Exit
- Crimp-Pins for Easy Cable Termination
- Cable Clamp in Backshell
- Optional Separate Screwlock Assembly and Alternative PXI Front Panel

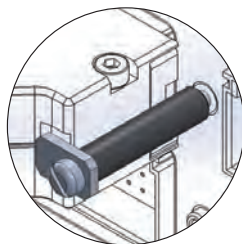
Suitable for users to create their own cable assemblies where a 45 degree cable exit would be preferred. Recommended for use with PFA coated 3 Amp cable.

If the user requires LXI connectors to have a second fixing then the connector can be fitted with the optional screwlock assembly 40-969-101 as shown where applications permit.

For PXI products requiring a second fixing order the PXI Front Panel Kit. The PXI handle is removed on fitting. See below.

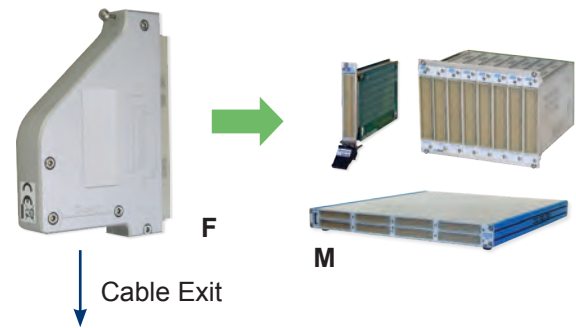


Securing a Connector
(Non-Screwlock end)



40-969-101

Optional PXI
Front Panel
44-960-160-FP



160-Pin DIN41612 Connector,
Cable Exit 90° (Towards Pins A1-E1)



Crimp Tool



Extractor Tool

Note: Tools are available as separate order items.

Technical Specification

Connector Type:	160-Pin DIN41612
Gender	Female
Securing Method	1 x M2.5 screwlock, male, with Side Clip (Centrally positioned)
Wire Connection	Crimp pin
Connector Ratings:	
Maximum Current	2A each pin
Maximum Voltage	500V DC or AC peak
Cable Exit:	90° (Towards Pins A1-E1)
Cable Exit Size	12 x 28mm
Overall Size (Approx)	H99 x W18 x D67mm
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	26AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Notes:

- An additional Screwlock assembly (40-969-101) suitable for a variety of applications is available.
- An alternative 3U PXI Module 160-Pin Front Panel is also available where customers would prefer a positive fixing for the bottom of the connector. (44-960-160-FP)

Product Order Codes

160-Pin DIN41612 Connector, Cable Exit 90° (Towards Pins A1-E1), 2A, Crimp Pin, With Backshell, Female

40-960-160-FT

Crimp Tool, DIN41612
Extractor Tool, DIN41612

40-964-160-C

40-964-160-E

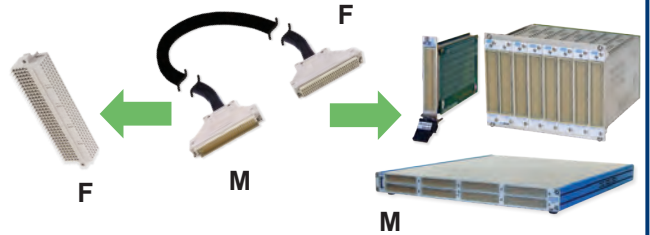
Screwlock Assy 160-Pin
3U PXI Front Panel Kit

40-969-101

44-960-160-FP

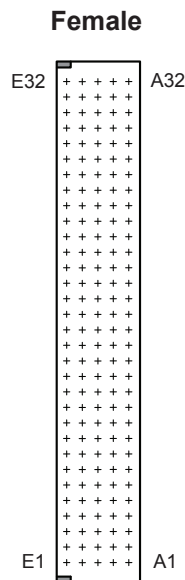
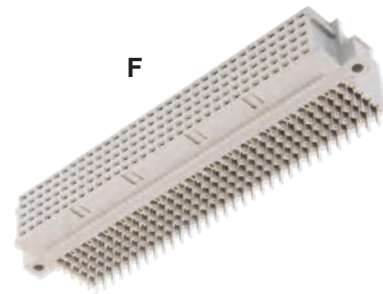
160-Pin DIN41612 Connector, Right Angle PCB Mount - Female

- Mates with a Pickering Cable Assembly
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions



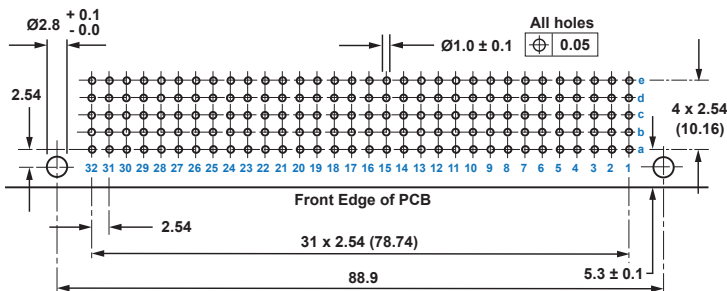
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



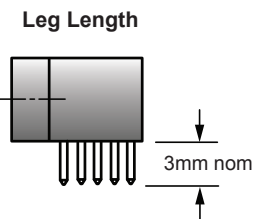
Technical Specification

Connector Type: Gender Securing Method PCB Mounting	160-Pin DIN41612 Female Push fit Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 160-Pin DIN41612: Contact Material Contact Resistance PCB Legs: Leg Length	2A each pin 500V DC or AC peak Gold plated copper alloy <20mOhm 3mm nom (See diagram)



Important: The pin numbering on the mating Pickering cable is reversed. i.e. Pin 32 on the cable mates with Pin 1 on the connector.

PCB Footprint of 160-Pin Right Angle Connector (Connector Side - Not to Scale) Dimensions as IEC 60 603-2



Product Order Codes

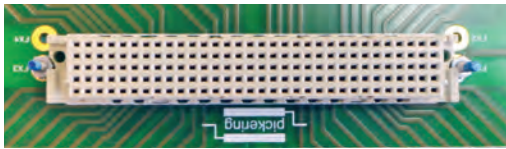
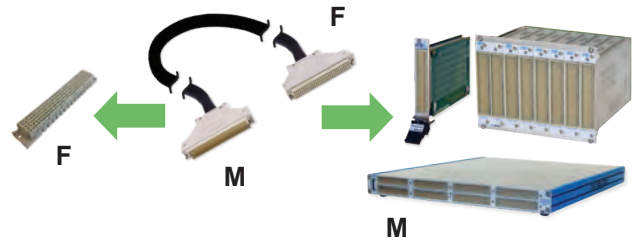
160-Pin DIN41612 Connector, 2A, Right Angle PCB Mount, Female
40-963-160-RF

160-Pin DIN41612 Connector, Straight PCB Mount - Female

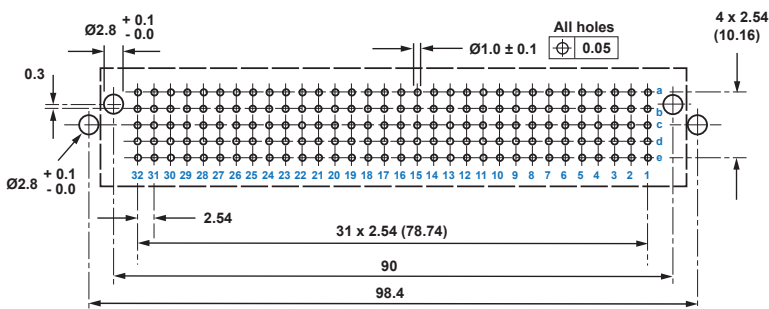
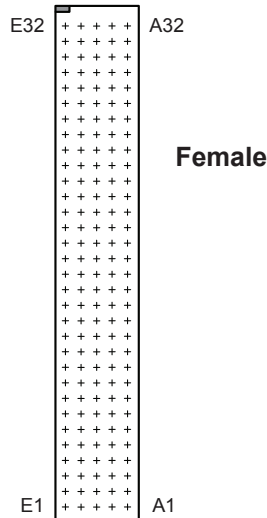
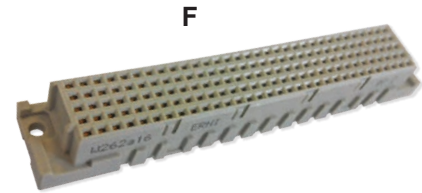
- Mates with a Pickering Cable Assembly
- Straight PCB Mount
- Ideal for User Created Termination Solutions

Pickering cable assemblies for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage that the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Detail showing Screwlock positions for the Straight Connector C1604FX-4PS-0A

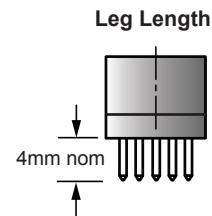


Important: The pin numbering on the mating Pickering cable is reversed.
i.e. Pin 32 on the cable mates with Pin 1 on the connector.

**PCB Footprint of 160-Pin Straight Connector
(Connector Side - Not to Scale) Dimensions as IEC 60 603-2**

Technical Specification

Connector Type: Gender Securing Method	160-Pin DIN41612 Female Push fit / M2.5 screwlocks, male
PCB Mounting	Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	2A each pin 500V DC or AC peak
160-Pin DIN41612: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Leg Length	4mm nom (See diagram)
Notes:	• PCB Screwlock fixings are included in the kit.



Product Order Codes

160-Pin DIN41612 Connector, 2A, Straight PCB Mount, Female

C1604FX-4PS-0A

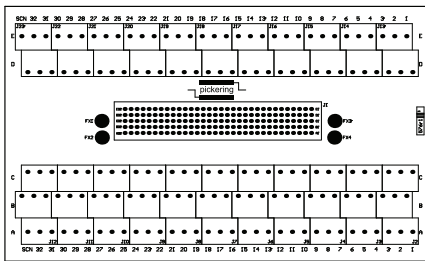
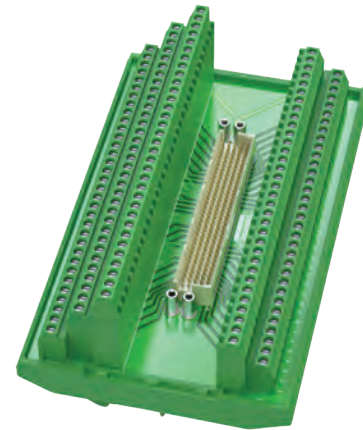
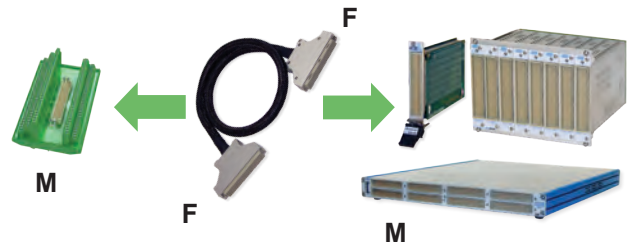
160-Pin DIN41612 Breakout - Male

- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

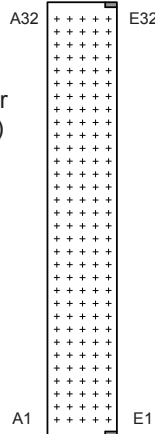
This termination option is capable of accepting heavy duty connection wires and uses rising clamp screw terminals to minimize the danger of copper strand damage. Users should care take to protect the termination and provide a suitable method of restraining the cables.

When using this product please ensure appropriate electrical safety precautions are observed.

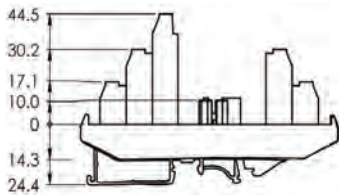


Detail: 160-Pin Connector - Pillar Positions

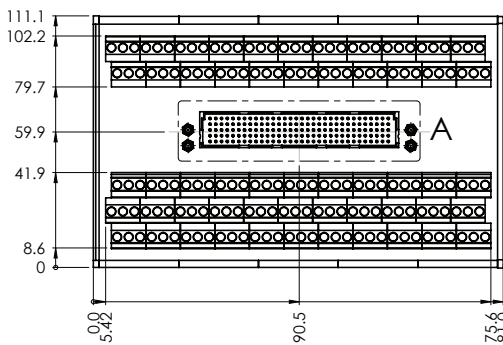
Male



Securing a Connector (Non-Screwlock end)



40-969-101



Technical Specification

Breakout Type:	160-Pin DIN41612
Gender	Male
Securing Method	2 x M2.5 screwlocks, female (Centrally positioned & offset)
Wire Connection	Rising cage screw terminals
Breakout Ratings:	
Maximum Current	2A
Maximum Voltage	500V DC or AC peak
Securing Method	Suitable for securing to DIN rails.
Overall Size (Approx)	H181 x W112 x D69mm
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	12AWG
Additional Cable Clamp	No

Product Order Codes

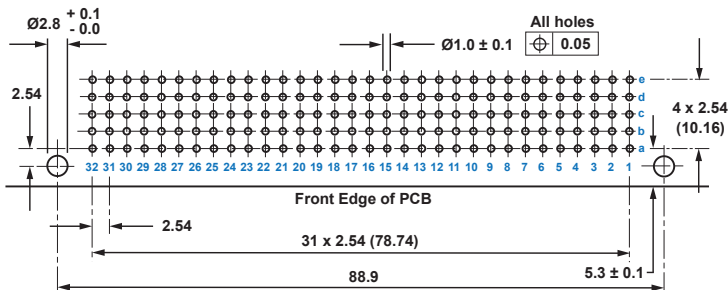
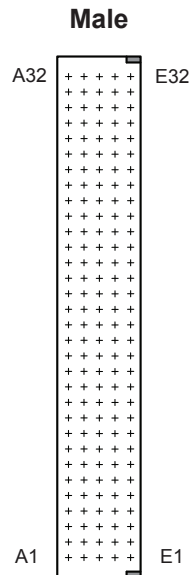
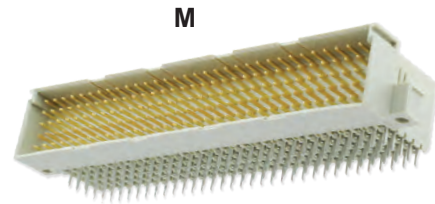
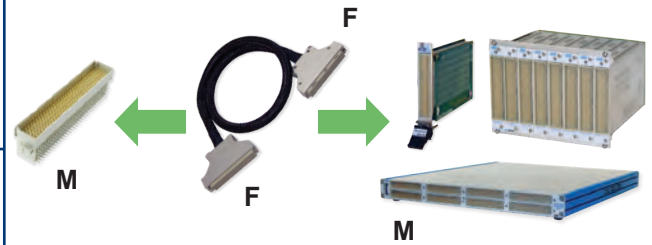
- 160-Pin DIN41612 Breakout with DIN Rail Mount, 2A, Screw Terminal, Male **40-967-160-M**
- Screwlock Assy 160-Pin **40-969-101**

160-Pin DIN41612 Connector, Right Angle PCB Mount - Male

- Mates with a Pickering Cable Assembly
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

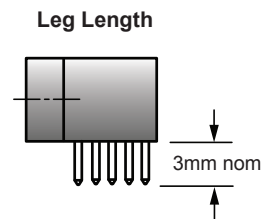
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



**PCB Footprint of 160-Pin Right Angle Connector
(Connector Side - Not to Scale) Dimensions as IEC 60 603-2**

Technical Specification

Connector Type:	160-Pin DIN41612
Gender	Male
Securing Method	Push fit
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	2A each pin
Maximum Voltage	500V DC or AC peak
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	3mm nom (See diagram)



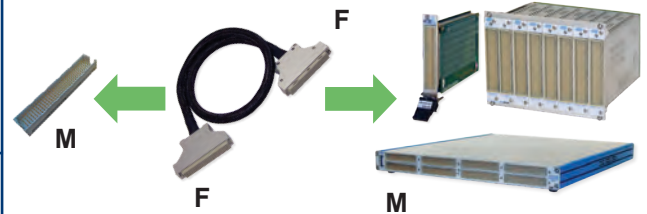
Product Order Codes

160-Pin DIN41612 Connector, 2A,
Right Angle PCB Mount, Male

40-963-160-RM

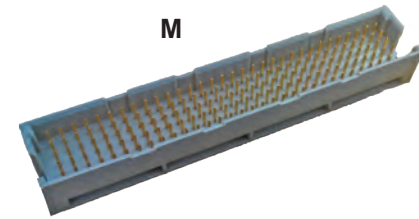
160-Pin DIN41612 Connector, Straight PCB Mount - Male

- Mates with a Pickering Cable Assembly
- Straight PCB Mount
- Ideal for User Created Termination Solutions

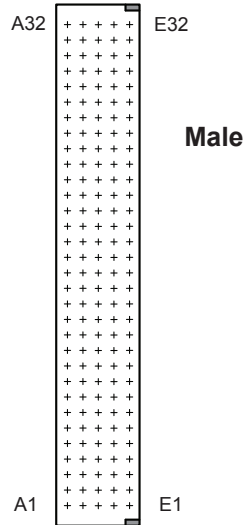
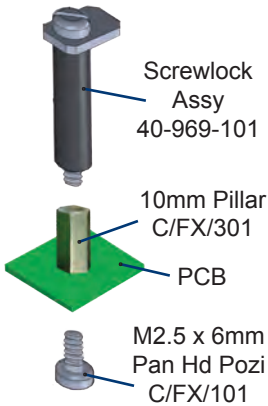


Pickering cable assemblies for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage that the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

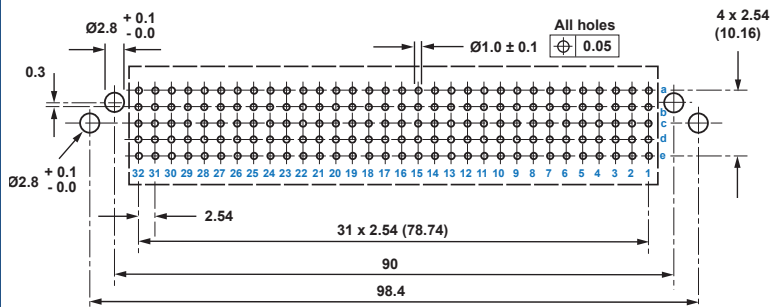


Additional Fixings for Securing a Mating Connector where necessary (See 40-967-160)

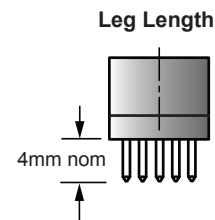


Technical Specification

Connector Type: Gender Securing Method	160-Pin DIN41612 Male Push fit / M2.5 screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	2A each pin 500V DC or AC peak
160-Pin DIN41612: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Leg Length	4mm nom (See diagram)



PCB Footprint of 160-Pin Straight Connector (Connector Side - Not to Scale) Dimensions as IEC 60 603-2



Product Order Codes

160-Pin DIN41612 Connector, 2A, Straight PCB Mount, Male	40-963-160-SM
Screwlock Assy 160-Pin	40-969-101
10mm Brass Pillar	C/FX/301
M2.5 x 6mm Pan Hd Pozi	C/FX/101

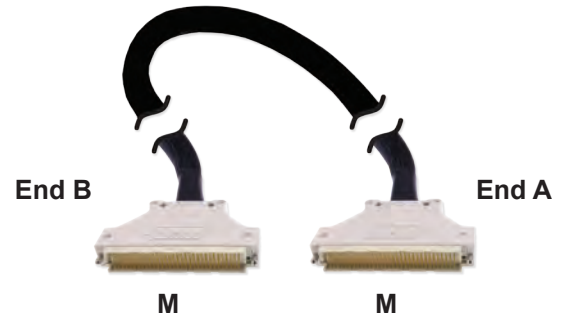
160-Pin DIN41612 Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

160-Pin DIN41612 Cable Assy - Male to Male

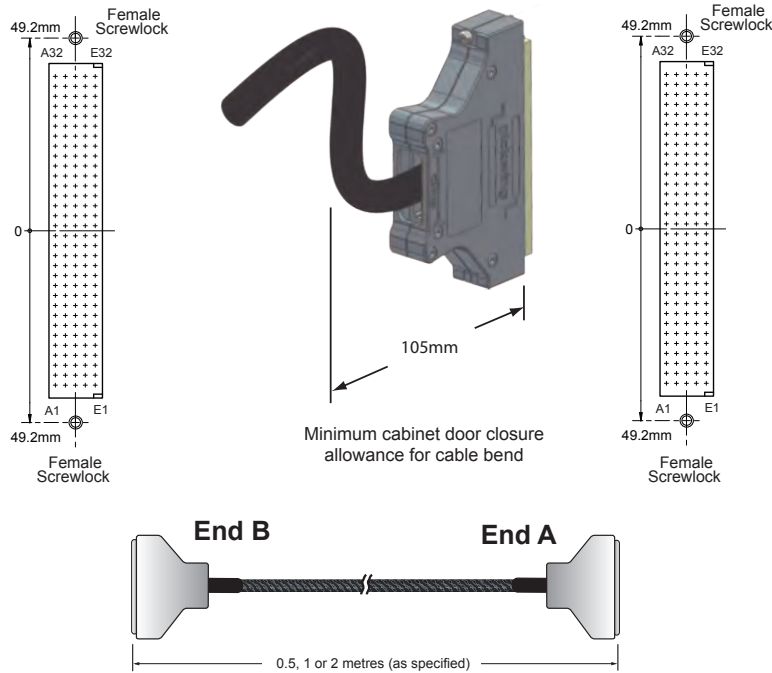
- High Specification Cable
- Highly Flexible Cable with Rear Exit
- Strain Relief
- Braided Slewing
- Fully Screened Cable Construction

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



End B Male

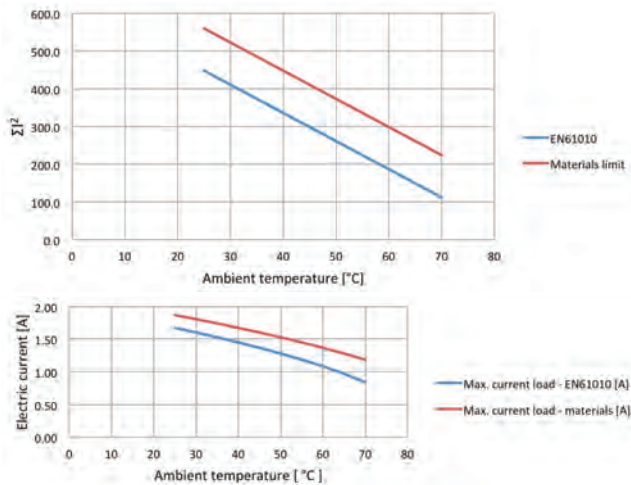
End A Male



Technical Specification

Connector Type (End A):	160-Pin DIN41612
Gender	Male
Securing Method	2 x M2.5 screwlocks, female (Centrally positioned)
Connector Type (End B):	160-Pin DIN41612
Gender	Male
Securing Method	2 x M2.5 screwlocks, female (Centrally positioned)
Cable Assembly Rating:	
Maximum Current	2A
Maximum Voltage	500V DC or AC peak
Insulation Resistance	1000MΩm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mΩm
Cable Exit	Rear
Overall Size (Approx)	H99 x W18 x D61mm
Cable Type:	
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	15mm
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)
Notes:	
	• Other cable lengths can be supplied.

Characteristic Plots for 40-970-160-0.5m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

160-Pin DIN41612 Cable Assy, 2A,

- Male to Male, 0.5m Long**
- Male to Male, 1.0m Long**
- Male to Male, 2.0m Long**

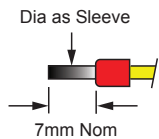
- 40-970-160-0.5m-MM**
- 40-970-160-1m-MM**
- 40-970-160-2m-MM**

160-Pin DIN41612 Cable Assy - Male to Unterminated

- High Specification Cable
- Highly Flexible Cable with Rear Exit
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Fully Coded Markers to Ensure Easy Connection

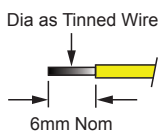
End B Options

Ferrules

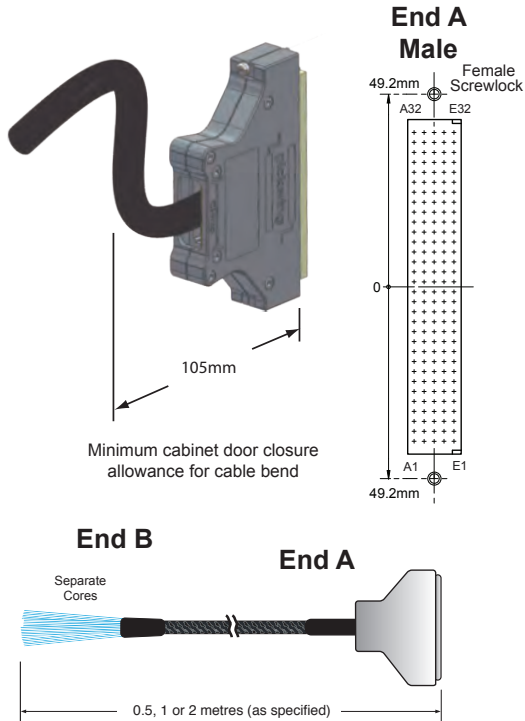
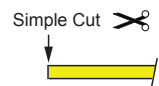


Soldered or Crimped Construction

Tinned End



Cut End



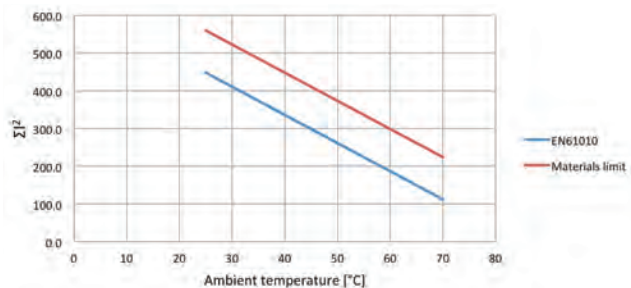
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A): Gender Securing Method	160-Pin DIN41612 Male 2 x M2.5 screwlocks, female (Centrally positioned)
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	2A 500V DC or AC peak 1000MΩ
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩ Rear H99 x W18 x D61mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Silver plated copper wire 7/0.15 (0.124mm ² , 26AWG) 0.137Ω/m PFA Polyester Yes Yes 15mm 25mm 105mm (see diagram)
Notes:	• Other cable lengths can be supplied.

Characteristic Plots for 40-972-160-0.5m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

160-Pin DIN41612 Cable Assy, 2A, Boot Lace Ferrules	
Male to Unterminated, 0.5m Long	40-972-160-0.5m-MU
Male to Unterminated, 1.0m Long	40-972-160-1m-MU
Male to Unterminated, 2.0m Long	40-972-160-2m-MU

Part numbers for Cut End and Tinned End options:

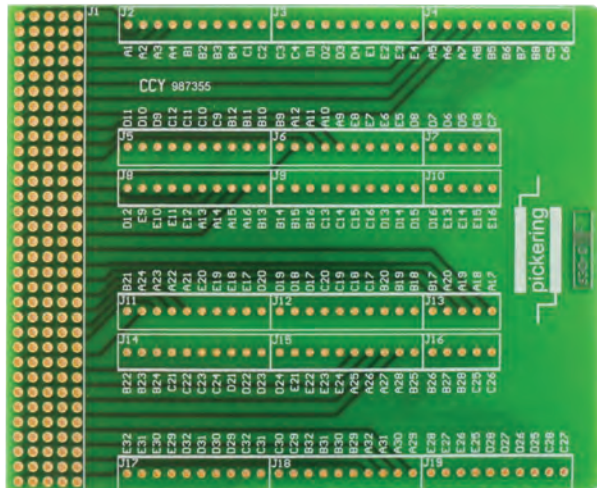
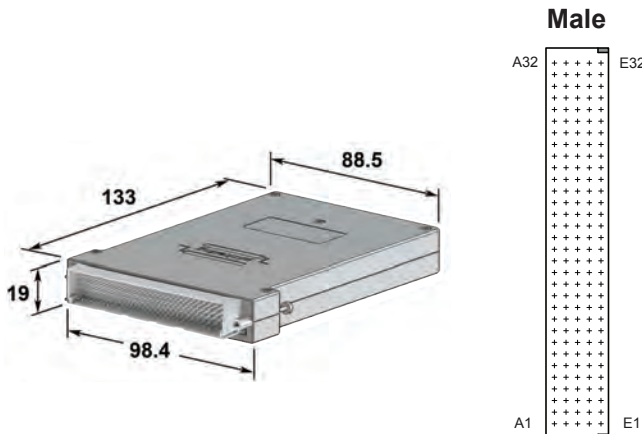
End B C = Cut End T = Tinned End	A1604MR-*-0A***	Cable Length 050 = 0.5m 100 = 1.0m 200 = 2.0m
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160-Pin DIN41612 Connector Block - Male

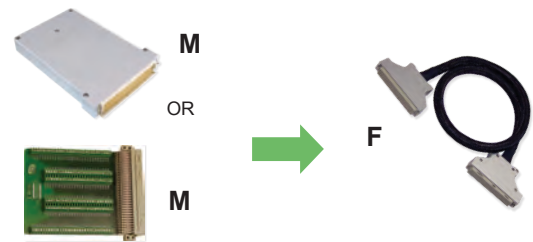
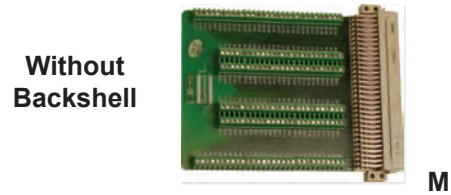
- Connector and PCB Only or Connector, PCB and Backshell
- Female Screwlocks
- Cable Clamp in Backshell

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This connector block provides a simple method of connecting to high density DIN41612 connectors. The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE/PFA cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. Connector blocks will have higher losses than a cable connection and the breakdown voltage is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.



This Connector Block is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Block Type:	160-Pin DIN41612
Gender	Male
Securing Method:	1 x M2.5 screwlock, female (Centrally positioned)
Product with Backshell	Screwlocks not supplied
Product without Backshell	Rising cage screw terminals
Wire Connection	
Connector Block Ratings:	
Maximum Current	2A
Maximum Voltage	200V DC or AC peak
Cable Exit	Dual rear - 11 x 24mm
Overall Size (Approx)	H99 x W19 x D143mm
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	16AWG
Recommended Insulation	PTFE/PFA
Additional Cable Clamp	Yes (in backshell)
Notes:	
	When the product is used without a backshell appropriate safety precautions should be observed.

Product Order Codes

- 160-Pin DIN41612 Connector Block, 2A, Screw Terminal**
- With Backshell, Male **B1604MR-4F-0A**
 - Without Backshell, Male **92-965-160-M**

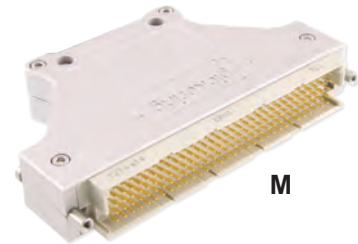
160-Pin DIN41612 Connector - Male

- Male Version with 2 off M2.5 Screwlocks
- Connector Only or Connector and Backshell
- Cable Clamp in Backshell

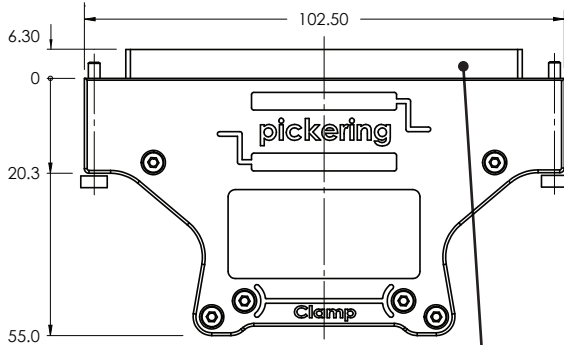
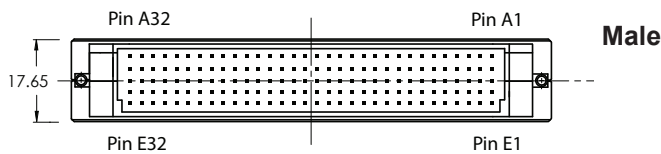
Suitable for users to create their own cable assemblies, the connector can be supplied with or without a backshell. Recommended for use with PFA coated 3 Amp cable.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



160-Pin DIN41612 Connector



External Pins



Internal Solder Connection

Technical Specification

Connector Type (End A):	160-Pin DIN41612
Gender	Male
Securing Method:	
Product with Backshell	2 x M2.5 screwlocks, female (Centrally positioned)
Product without Backshell	Screwlocks not supplied
Wire Connection	Solder pin
Connector Ratings:	
Maximum Current	2A each pin
Maximum Voltage	500V DC or AC peak
Cable Exit:	Rear
Cable Exit Size	322mm ²
Overall Size (Approx)	H102.5 x W17.7 x D61.3mm
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	26AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

160-Pin DIN41612 Connector, Rear Cable Exit,
2A, Solder Pin
With Backshell, Male
Without Backshell, Male

40-960-160-M

92-960-160-M

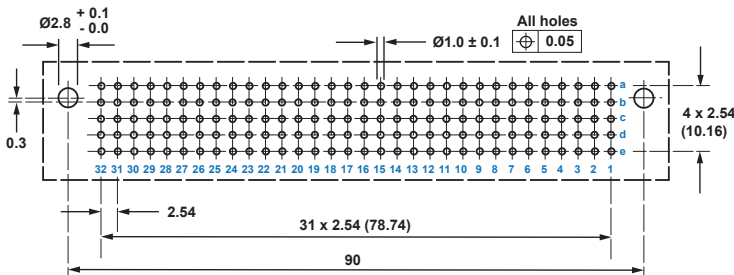
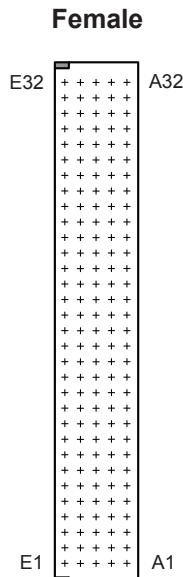
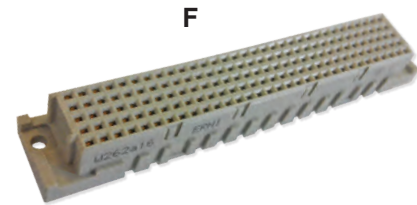
160-Pin DIN41612 Connector, Straight PCB Mount - Female

- Straight PCB Mount Connector
- Ideal for User Created Termination Solutions

Interfacing PCBs should be designed with suitable clearances for the voltage that the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

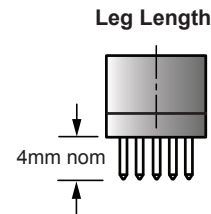
This Connector is Not Suitable for Connection to a Pickering Switching Product



PCB Footprint of 160-Pin Straight Connector (Connector Side - Not to Scale) Dimensions as IEC 60 603-2

Technical Specification

Connector Type:	160-Pin DIN41612
Gender	Female
Securing Method	Push fit
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	2A each pin
Maximum Voltage	500V DC or AC peak
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	4mm nom (See diagram)



Product Order Codes

160-Pin DIN41612 Connector, 2A,
Straight PCB Mount, Female

40-963-160-SF

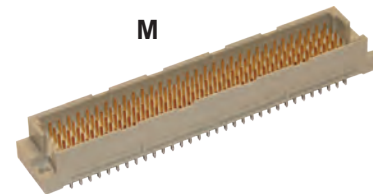
160-Pin DIN41612 Connector, Straight PCB Mount - Male

- Straight PCB Mount Connector
- Ideal for User Created Termination Solutions

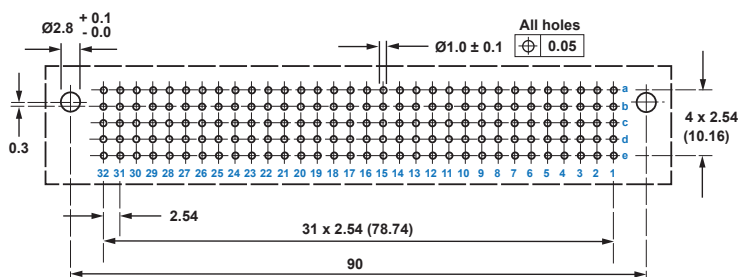
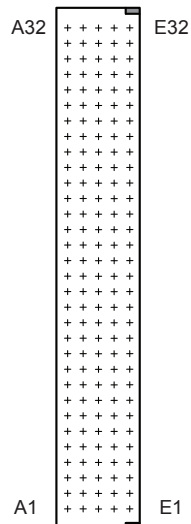
Interfacing PCBs should be designed with suitable clearances for the voltage that the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

**This Connector is Not Suitable
for Connection
to a Pickering Switching Product**



Male

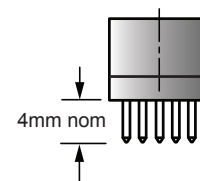


**PCB Footprint of 160-Pin Straight Connector
(Connector Side - Not to Scale) Dimensions as IEC 60 603-2**

Technical Specification

Connector Type (End A):	160-Pin DIN41612
Gender	Male
Securing Method	Push fit
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	2A each pin
Maximum Voltage	500V DC or AC peak
160-Pin DIN41612:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	4mm nom (See diagram)

Leg Length



Product Order Codes

160-Pin DIN41612 Connector, 2A,
Straight PCB Mount, Male

C1604MX-XPS-0A

100-Pin 1.27mm Pitch Micro-D Connector Accessories

Note: This connector was originally referred to a '100 Way SCSI Style Micro D Connector'

- **Mating Connectors**
- **Connector Hoods**
- **Cable Assemblies**
- **Guaranteed Compatibility**

The 100-Pin 1.27mm Pitch Micro-D connector is used on many products to provide a high density 1A connector solution that is suitable for use to 150Vdc. Pickering Interfaces have developed a full range of standard connection solutions to simplify the task of integrating products into a test system. The high density and skill levels involved in terminating this connector means that we do strongly recommend that users use Pickering Interfaces solutions.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, mating connectors and connector backshells are offered which allow users to create either their own cable based solutions or a PCB header solution.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 100-Pin 1.27mm Pitch Micro-D Connection Accessories

Cables: 100-Pin 1.27mm Pitch Micro-D Connector to Connector					
End 1	End 2	Product Order Code/Part Number			Data Sheet Page
Type (inc Screwlocks)	Type (inc Screwlocks)	0.5m Long	1m Long	2m Long	
100-Pin Micro-D, Male, (4-40UNC Screwlocks)	100-Pin Micro-D, Female, (4-40UNC Screwlocks)	40-970B-100-0.5m-MF	40-970B-100-1m-MF	40-970B-100-2m-MF	4.6
	100-Pin Micro-D, Male, (4-40UNC Screwlocks)	40-970B-100-0.5m-MM	40-970B-100-1m-MM	40-970B-100-2m-MM	4.22
100-Pin Micro-D, Female, (4-40UNC Screwlocks)	100-Pin Micro-D, Female, (4-40UNC Screwlocks)	40-970B-100-0.5m-FF	40-970B-100-1m-FF	40-970B-100-2m-FF	4.14
100-Pin Micro-D, Male, (2-56UNC Screwlocks)	100-Pin Micro-D, Female, (2-56UNC Screwlocks)	A100SMR-100SFR-6A050	A100SMR-100SFR-6A100	A100SMR-100SFR-6A200	4.8
	100-Pin Micro-D, Male, (2-56UNC Screwlocks)	A100SMR-100SMR-6A050	A100SMR-100SMR-6A100	A100SMR-100SMR-6A200	4.24
100-Pin Micro-D, Female, (2-56UNC Screwlocks)	100-Pin Micro-D, Female, (2-56UNC Screwlocks)	A100SFR-100SFR-6A050	A100SFR-100SFR-6A100	A100SFR-100SFR-6A200	4.16
100-Pin Micro-D, Male, (M2.5 Screwlocks)	100-Pin Micro-D, Female, (M2.5 Screwlocks)	A100SMR-100SFR-7A050	A100SMR-100SFR-7A100	A100SMR-100SFR-7A200	4.10
	100-Pin Micro-D, Male, (M2.5 Screwlocks)	A100SMR-100SMR-7A050	A100SMR-100SMR-7A100	A100SMR-100SMR-7A200	4.26
100-Pin Micro-D, Female, (M2.5 Screwlocks)	100-Pin Micro-D, Female, (M2.5 Screwlocks)	A100SFR-100SFR-7A050	A100SFR-100SFR-7A100	A100SFR-100SFR-7A200	4.18
100-Pin Micro-D, Male, (M3 Screwlocks)	100-Pin Micro-D, Female, (M3 Screwlocks)	A100SMR-100SFR-8A050	A100SMR-100SFR-8A100	A100SMR-100SFR-8A200	4.12
	100-Pin Micro-D, Male, (M3 Screwlocks)	A100SMR-100SMR-8A050	A100SMR-100SMR-8A100	A100SMR-100SMR-8A200	4.28
100-Pin Micro-D, Female, (M3 Screwlocks)	100-Pin Micro-D, Female, (M3 Screwlocks)	A100SFR-100SFR-8A050	A100SFR-100SFR-8A100	A100SFR-100SFR-8A200	4.20

Cables: 100-Pin 1.27mm Pitch Micro-D Connector to Underterminated					
End 1 (inc Screwlocks)	End 2 Underterminated Options	Product Order Code/Part Number			Data Sheet Page
		0.5m Long	1m Long	2m Long	
100-Pin Micro-D, Female, (4-40UNC Screwlocks)	Ferrules	A100SFR-F-5A050	A100SFR-F-5A100	A100SFR-F-5A200	4.30
	Tinned	A100SFR-T-5A050	A100SFR-T-5A100	A100SFR-T-5A200	
	Cut End	40-972B-100-0.5m-FU	40-972B-100-1m-FU	40-972B-100-2m-FU	
100-Pin Micro-D, Female, (2-56UNC Screwlocks)	Ferrules	A100SFR-F-6A050	A100SFR-F-6A100	A100SFR-F-6A200	4.32
	Tinned	A100SFR-T-6A050	A100SFR-T-6A100	A100SFR-T-6A200	
	Cut End	A100SFR-C-6A050	A100SFR-C-6A100	A100SFR-C-6A200	
100-Pin Micro-D, Female, (M2.5 Screwlocks)	Ferrules	A100SFR-F-7A050	A100SFR-F-7A100	A100SFR-F-7A200	4.34
	Tinned	A100SFR-T-7A050	A100SFR-T-7A100	A100SFR-T-7A200	
	Cut End	A100SFR-C-7A050	A100SFR-C-7A100	A100SFR-C-7A200	
100-Pin Micro-D, Female, (M3 Screwlocks)	Ferrules	A100SFR-F-8A050	A100SFR-F-8A100	A100SFR-F-8A200	4.36
	Tinned	A100SFR-T-8A050	A100SFR-T-8A100	A100SFR-T-8A200	
	Cut End	A100SFR-C-8A050	A100SFR-C-8A100	A100SFR-C-8A200	
100-Pin Micro-D, Male, (4-40UNC Screwlocks)	Ferrules	A100SMR-F-5A050	A100SMR-F-5A100	A100SMR-F-5A200	4.38
	Tinned	A100SMR-T-5A050	A100SMR-T-5A100	A100SMR-T-5A200	
	Cut End	40-972B-100-0.5m-MU	40-972B-100-1m-MU	40-972B-100-2m-MU	
100-Pin Micro-D, Male, (2-56UNC Screwlocks)	Ferrules	A100SMR-F-6A050	A100SMR-F-6A100	A100SMR-F-6A200	4.40
	Tinned	A100SMR-T-6A050	A100SMR-T-6A100	A100SMR-T-6A200	
	Cut End	A100SMR-C-6A050	A100SMR-C-6A100	A100SMR-C-6A200	
100-Pin Micro-D, Male, (M2.5 Screwlocks)	Ferrules	A100SMR-F-7A050	A100SMR-F-7A100	A100SMR-F-7A200	4.42
	Tinned	A100SMR-T-7A050	A100SMR-T-7A100	A100SMR-T-7A200	
	Cut End	A100SMR-C-7A050	A100SMR-C-7A100	A100SMR-C-7A200	
100-Pin Micro-D, Male, (M3 Screwlocks)	Ferrules	A100SMR-F-8A050	A100SMR-F-8A100	A100SMR-F-8A200	4.44
	Tinned	A100SMR-T-8A050	A100SMR-T-8A100	A100SMR-T-8A200	
	Cut End	A100SMR-C-8A050	A100SMR-C-8A100	A100SMR-C-8A200	

Part Number Listing for all 100-Pin 1.27mm Pitch Micro-D Connection Accessories (Continued)



Cables: 100-Pin 1.27mm Pitch Micro-D to 2 x 50-Pin IDC						
End 1	End 2	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Type (inc Screwlocks)	Type (inc Screwlocks)	0.5m Long	1m Long	2m Long		
100-Pin Micro-D, Female, (4-40UNC Screwlocks)	2 x 50-Pin IDC, Female	40-971-100-0.5m-FF	40-971-100-1m-FF	40-971-100-2m-FF	No	4.46
	2 x 50-Pin IDC, Male	40-971-100-0.5m-FM	40-971-100-1m-FM	40-971-100-2m-FM	No	4.48
100-Pin Micro-D, Male, (4-40UNC Screwlocks)	2 x 50-Pin IDC, Female	40-971-100-0.5m-MF	40-971-100-1m-MF	40-971-100-2m-MF	No	4.50
	2 x 50-Pin IDC, Male	40-971-100-0.5m-MM	40-971-100-1m-MM	40-971-100-2m-MM	No	4.52

Cable Connectors: 100-Pin 1.27mm Pitch Micro-D				
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
	With Backshell	Without Backshell		
Cable Connector, Female, IDC for Ribbon Cable (4-40UNC Screwlocks)	40-961-100-F	N/A	No	4.54
Cable Connector, Female, IDC for Ribbon Cable (2-56UNC Screwlocks)	C100SFR-1CR-5A	N/A	No	4.55
Cable Connector, Female, IDC for Ribbon Cable (M2.5 Screwlocks)	C100SFR-4CR-5A	N/A	No	4.56
Cable Connector, Female, IDC for Ribbon Cable (M3 Screwlocks)	C100SFR-5CR-5A	N/A	No	4.57
Cable Connector, Female, IDC for Discrete Wire (4-40UNC Screwlocks)	40-962A-100-F	N/A	No	4.58
Cable Connector, Female, IDC for Discrete Wire (2-56UNC Screwlocks)	C100SFR-1CW-5A	N/A	No	4.59
Cable Connector, Female, IDC for Discrete Wire (M2.5 Screwlocks)	C100SFR-4CW-5A	N/A	No	4.60
Cable Connector, Female, IDC for Discrete Wire (M3 Screwlocks)	C100SFR-5CW-5A	N/A	No	4.61
Cable Connector, Male, IDC for Ribbon Cable (4-40UNC Screwlocks)	40-961-100-M	N/A	No	4.64
Cable Connector, Male, IDC for Ribbon Cable (2-56UNC Screwlocks)	C100SMR-1CR-5A	N/A	No	4.65
Cable Connector, Male, IDC for Ribbon Cable (M2.5 Screwlocks)	C100SMR-4CR-5A	N/A	No	4.66
Cable Connector, Male, IDC for Ribbon Cable (M3 Screwlocks)	C100SMR-5CR-5A	N/A	No	4.67
Cable Connector, Male, IDC for Discrete Wire (4-40UNC Screwlocks)	40-962A-100-M	N/A	No	4.68
Cable Connector, Male, IDC for Discrete Wire (2-56UNC Screwlocks)	C100SMR-1CW-5A	N/A	No	4.69
Cable Connector, Male, IDC for Discrete Wire (M2.5 Screwlocks)	C100SMR-4CW-5A	N/A	No	4.70
Cable Connector, Male, IDC for Discrete Wire (M3 Screwlocks)	C100SMR-5CW-5A	N/A	No	4.71

PCB Connectors: 100-Pin 1.27mm Pitch Micro-D						
Type	Mount	Gender	Screwlocks	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	4-40 UNC, Female	40-963-100-RF	No	4.62
	Straight PCB Mount	Female	4-40 UNC, Female	40-963-100-SF		4.63

Although these items do not directly mate with current Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D, Male to Female, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male 4-40UNC (Male)	Female 4-40UNC (Male)	Page 4.6
		Male 2-56UNC (Male)	Female 2-56UNC (Male)	Page 4.8
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D, Male to Female, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male M2.5 (Male)	Female M2.5 (Male)	Page 4.10
		Male M3 (Male)	Female M3 (Male)	Page 4.12
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D, Female to Female, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female 4-40UNC (Male)	Female 4-40UNC (Male)	Page 4.14
		Female 2-56UNC (Male)	Female 2-56UNC (Male)	Page 4.16
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D, Female to Female, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female M2.5 (Male)	Female M2.5 (Male)	Page 4.18
		Female M3 (Male)	Female M3 (Male)	Page 4.20
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D, Male to Male, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male 4-40UNC (Male)	Male 4-40UNC (Male)	Page 4.22
		Male 2-56UNC (Male)	Male 2-56UNC (Male)	Page 4.24
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D, Male to Male, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male M2.5 (Male)	Male M2.5 (Male)	Page 4.26
		Male M3 (Male)	Male M3 (Male)	Page 4.28
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D Female to Underterminated, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female 4-40UNC (Male)	Underminated with Options	Page 4.30
		Female 2-56UNC (Male)		Page 4.32
Female M2.5 (Male)	Page 4.34			
Female M3 (Male)	Page 4.36			
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D Male to Underterminated, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male 4-40UNC (Male)	Underminated with Options	Page 4.38
		Male 2-56UNC (Male)		Page 4.40
Male M2.5 (Male)	Page 4.42			
Male M3 (Male)	Page 4.44			
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D, Female to 2 off 50-Pin polarized IDC, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female 4-40UNC (Male)	2 off 50-Pin polarized IDC, Female	Page 4.46
		Female 4-40UNC (Male)	2 off 50-Pin polarized IDC, Male	Page 4.48

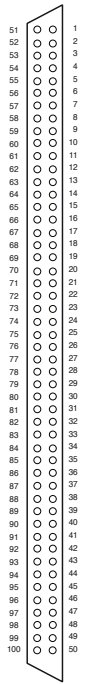
Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 100-Pin 1.27mm Pitch Micro-D, Male to 2 off 50-Pin polarized IDC, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Male 4-40UNC (Male)	2 off 50-Pin polarized IDC, Female	Page 4.50
		Male 4-40UNC (Male)	2 off 50-Pin polarized IDC, Male	Page 4.52

Connectors				
View	Description	Type	Gender	Page
	Cable Connector 100-Pin 1.27mm Pitch Micro-D, Female, 1A, IDC for Ribbon Cable.	With Backshell	Female 4-40UNC (Male)	Page 4.54
			Female 2-56UNC (Male)	Page 4.55
			Female M2.5 (Male)	Page 4.56
			Female M3 (Male)	Page 4.57
	Cable Connector 100-Pin 1.27mm Pitch Micro-D, Female, 1A, IDC for Discrete Wire	With Backshell	Female 4-40UNC (Male)	Page 4.58
			Female 2-56UNC (Male)	Page 4.59
			Female M2.5 (Male)	Page 4.60
			Female M3 (Male)	Page 4.61
	PCB Connector 100-Pin 1.27mm Pitch Micro-D, Female, 1A,	Right Angle PCB Mount	Female 4-40UNC (Female)	Page 4.62
		Straight PCB Mount	Female 4-40UNC (Female)	Page 4.63
	Cable Connector 100-Pin 1.27mm Pitch Micro-D, Male, 1A, IDC for Ribbon Cable	With Backshell	Male 4-40UNC (Male)	Page 4.64
			Male 2-56UNC (Male)	Page 4.65
			Male M2.5 (Male)	Page 4.66
			Male M3 (Male)	Page 4.67
	Cable Connector 100-Pin 1.27mm Pitch Micro-D, Male, 1A, IDC for Discrete Wire	With Backshell	Male 4-40UNC (Male)	Page 4.68
			Male 2-56UNC (Male)	Page 4.69
			Male M2.5 (Male)	Page 4.70
			Male M3 (Male)	Page 4.71

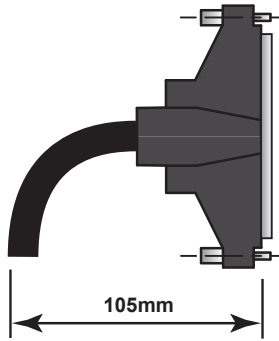
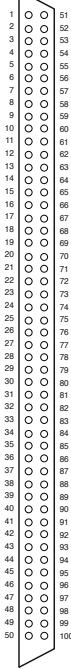
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks

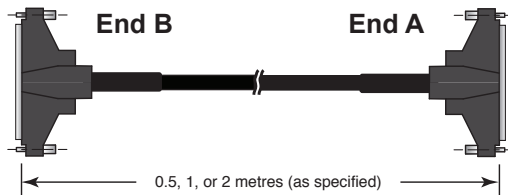
End B
Male



End A
Female



105mm
Minimum cabinet door closure allowance for cable bend.



0.5, 1, or 2 metres (as specified)
Wiring Schedule information can be found on the next page of this document.



End B

M

F

End A

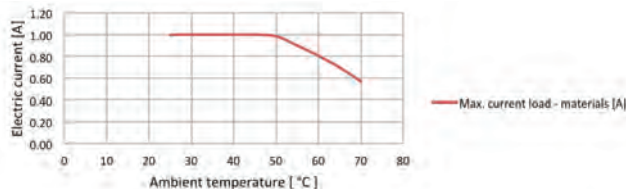
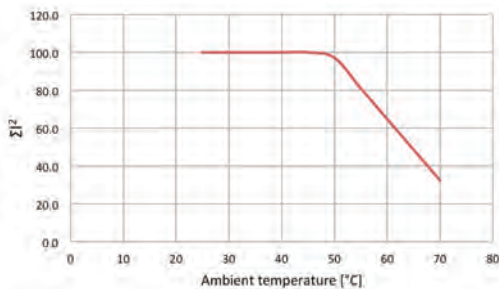
Technical Specification

Connector Type (End A): Gender Securing Method	100-Pin 1.27mm Pitch Micro-D Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	100-Pin 1.27mm Pitch Micro-D Male 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150V 1000M Ω m
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <35m Ω m Rear H85 x W17 x D59mm
Cable Type:	100-Pin twisted pair. with varying left and right hand lays to minimise crosstalk See schedule
Conductor: Material Strands Resistance Insulation	Tinned copper 7/36 (28 AWG, 0.38mm OD) 0.22 Ω /m Polyolefin (0.71mm O/D)
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	PVC Dual shielded No 12mm nom 25mm 105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Characteristic Plots for 40-970B-100-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy,
4-40 UNC Screwlocks, 1A,

Male to Female, 0.5m Long

40-970B-100-0.5m-MF

Male to Female, 1.0m Long

40-970B-100-1m-MF

Male to Female, 2.0m Long

40-970B-100-2m-MF

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Red/Brown	51	●	1	Brown/Red	1	●	51	Red/Brown
Black/Tan	52	●	2	Tan/Black	2	●	52	Black/Tan
Red/Tan	53	●	3	Tan/Red	3	●	53	Red/Tan
Black/White	54	●	4	White/Black	4	●	54	Black/White
Red/White	55	●	5	White/Red	5	●	55	Red/White
Grey/Violet	56	●	6	Violet/Grey	6	●	56	Grey/Violet
Grey/Blue	57	●	7	Blue/Grey	7	●	57	Grey/Blue
Violet/Blue	58	●	8	Blue/Violet	8	●	58	Violet/Blue
Grey/Green	59	●	9	Green/Grey	9	●	59	Grey/Green
Violet/Green	60	●	10	Green/Violet	10	●	60	Violet/Green
Blue/Green	61	●	11	Green/Blue	11	●	61	Blue/Green
Grey/Yellow	62	●	12	Yellow/Grey	12	●	62	Grey/Yellow
Violet/Yellow	63	●	13	Yellow/Violet	13	●	63	Violet/Yellow
Blue/Yellow	64	●	14	Yellow/Blue	14	●	64	Blue/Yellow
Green/Yellow	65	●	15	Yellow/Green	15	●	65	Green/Yellow
Grey/Orange	66	●	16	Orange/Grey	16	●	66	Grey/Orange
Violet/Orange	67	●	17	Orange/Violet	17	●	67	Violet/Orange
Blue/Orange	68	●	18	Orange/Blue	18	●	68	Blue/Orange
Green/Orange	69	●	19	Orange/Green	19	●	69	Green/Orange
Yellow/Orange	70	●	20	Orange/Yellow	20	●	70	Yellow/Orange
Grey/Pink	71	●	21	Pink/Grey	21	●	71	Grey/Pink
Violet/Pink	72	●	22	Pink/Violet	22	●	72	Violet/Pink
Blue/Pink	73	●	23	Pink/Blue	23	●	73	Blue/Pink
Green/Pink	74	●	24	Pink/Green	24	●	74	Green/Pink
Yellow/Pink	75	●	25	Pink/Yellow	25	●	75	Yellow/Pink
Orange/Pink	76	●	26	Pink/Orange	26	●	76	Orange/Pink
Grey/Brown	77	●	27	Brown/Grey	27	●	77	Grey/Brown
Violet/Brown	78	●	28	Brown/Violet	28	●	78	Violet/Brown
Blue/Brown	79	●	29	Brown/Blue	29	●	79	Blue/Brown
Green/Brown	80	●	30	Brown/Green	30	●	80	Green/Brown
Yellow/Brown	81	●	31	Brown/Yellow	31	●	81	Yellow/Brown
Orange/Brown	82	●	32	Brown/Orange	32	●	82	Orange/Brown
Pink/Brown	83	●	33	Brown/Pink	33	●	83	Pink/Brown
Grey/Tan	84	●	34	Tan/Grey	34	●	84	Grey/Tan
Violet/Tan	85	●	35	Tan/Violet	35	●	85	Violet/Tan
Blue/Tan	86	●	36	Tan/Blue	36	●	86	Blue/Tan
Green/Tan	87	●	37	Tan/Green	37	●	87	Green/Tan
Yellow/Tan	88	●	38	Tan/Yellow	38	●	88	Yellow/Tan
Orange/Tan	89	●	39	Tan/Orange	39	●	89	Orange/Tan
Pink/Tan	90	●	40	Tan/Pink	40	●	90	Pink/Tan
Brown/Tan	91	●	41	Tan/Brown	41	●	91	Brown/Tan
Grey/White	92	●	42	White/Grey	42	●	92	Grey/White
Violet/White	93	●	43	White/Violet	43	●	93	Violet/White
Blue/White	94	●	44	White/Blue	44	●	94	Blue/White
Green/White	95	●	45	White/Green	45	●	95	Green/White
Yellow/White	96	●	46	White/Yellow	46	●	96	Yellow/White
Orange/White	97	●	47	White/Orange	47	●	97	Orange/White
Pink/White	98	●	48	White/Pink	48	●	98	Pink/White
Brown/White	99	●	49	White/Brown	49	●	99	Brown/White
Tan/White	100	●	50	White/Tan	50	●	100	Tan/White

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

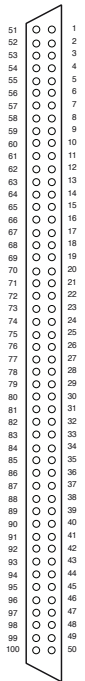
-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

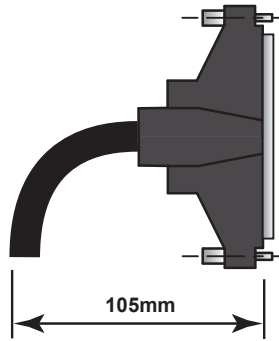
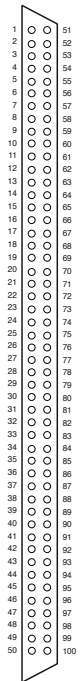
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 2-56 UNC Screwlocks

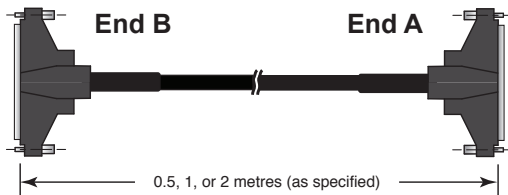
End B
Male



End A
Female

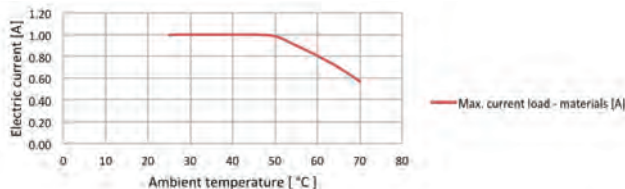
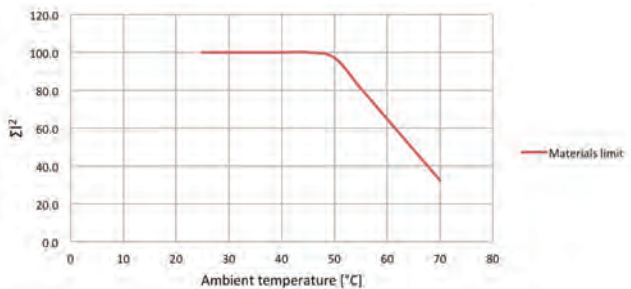


105mm
Minimum cabinet door closure allowance for cable bend.



0.5, 1, or 2 metres (as specified)
Wiring Schedule information can be found on the next page of this document.

Characteristic Plots for A100SMR-100SFR-6A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



End B

M

F

End A

Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000M Ω m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35m Ω m
Cable Exit	Rear
Overall Size (Approx)	H85 x W17 x D59mm
Cable Type:	100-Pin twisted pair. with varying left and right hand lays to minimise crosstalk See schedule
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22 Ω /m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy,
2-56 UNC Screwlocks, 1A,

Male to Female, 0.5m Long

A100SMR-100SFR-6A050

Male to Female, 1.0m Long

A100SMR-100SFR-6A100

Male to Female, 2.0m Long

A100SMR-100SFR-6A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Red/Brown	51	●	1	Brown/Red	1	●	51	Red/Brown
Black/Tan	52	●	2	Tan/Black	2	●	52	Black/Tan
Red/Tan	53	●	3	Tan/Red	3	●	53	Red/Tan
Black/White	54	●	4	White/Black	4	●	54	Black/White
Red/White	55	●	5	White/Red	5	●	55	Red/White
Grey/Violet	56	●	6	Violet/Grey	6	●	56	Grey/Violet
Grey/Blue	57	●	7	Blue/Grey	7	●	57	Grey/Blue
Violet/Blue	58	●	8	Blue/Violet	8	●	58	Violet/Blue
Grey/Green	59	●	9	Green/Grey	9	●	59	Grey/Green
Violet/Green	60	●	10	Green/Violet	10	●	60	Violet/Green
Blue/Green	61	●	11	Green/Blue	11	●	61	Blue/Green
Grey/Yellow	62	●	12	Yellow/Grey	12	●	62	Grey/Yellow
Violet/Yellow	63	●	13	Yellow/Violet	13	●	63	Violet/Yellow
Blue/Yellow	64	●	14	Yellow/Blue	14	●	64	Blue/Yellow
Green/Yellow	65	●	15	Yellow/Green	15	●	65	Green/Yellow
Grey/Orange	66	●	16	Orange/Grey	16	●	66	Grey/Orange
Violet/Orange	67	●	17	Orange/Violet	17	●	67	Violet/Orange
Blue/Orange	68	●	18	Orange/Blue	18	●	68	Blue/Orange
Green/Orange	69	●	19	Orange/Green	19	●	69	Green/Orange
Yellow/Orange	70	●	20	Orange/Yellow	20	●	70	Yellow/Orange
Grey/Pink	71	●	21	Pink/Grey	21	●	71	Grey/Pink
Violet/Pink	72	●	22	Pink/Violet	22	●	72	Violet/Pink
Blue/Pink	73	●	23	Pink/Blue	23	●	73	Blue/Pink
Green/Pink	74	●	24	Pink/Green	24	●	74	Green/Pink
Yellow/Pink	75	●	25	Pink/Yellow	25	●	75	Yellow/Pink
Orange/Pink	76	●	26	Pink/Orange	26	●	76	Orange/Pink
Grey/Brown	77	●	27	Brown/Grey	27	●	77	Grey/Brown
Violet/Brown	78	●	28	Brown/Violet	28	●	78	Violet/Brown
Blue/Brown	79	●	29	Brown/Blue	29	●	79	Blue/Brown
Green/Brown	80	●	30	Brown/Green	30	●	80	Green/Brown
Yellow/Brown	81	●	31	Brown/Yellow	31	●	81	Yellow/Brown
Orange/Brown	82	●	32	Brown/Orange	32	●	82	Orange/Brown
Pink/Brown	83	●	33	Brown/Pink	33	●	83	Pink/Brown
Grey/Tan	84	●	34	Tan/Grey	34	●	84	Grey/Tan
Violet/Tan	85	●	35	Tan/Violet	35	●	85	Violet/Tan
Blue/Tan	86	●	36	Tan/Blue	36	●	86	Blue/Tan
Green/Tan	87	●	37	Tan/Green	37	●	87	Green/Tan
Yellow/Tan	88	●	38	Tan/Yellow	38	●	88	Yellow/Tan
Orange/Tan	89	●	39	Tan/Orange	39	●	89	Orange/Tan
Pink/Tan	90	●	40	Tan/Pink	40	●	90	Pink/Tan
Brown/Tan	91	●	41	Tan/Brown	41	●	91	Brown/Tan
Grey/White	92	●	42	White/Grey	42	●	92	Grey/White
Violet/White	93	●	43	White/Violet	43	●	93	Violet/White
Blue/White	94	●	44	White/Blue	44	●	94	Blue/White
Green/White	95	●	45	White/Green	45	●	95	Green/White
Yellow/White	96	●	46	White/Yellow	46	●	96	Yellow/White
Orange/White	97	●	47	White/Orange	47	●	97	Orange/White
Pink/White	98	●	48	White/Pink	48	●	98	Pink/White
Brown/White	99	●	49	White/Brown	49	●	99	Brown/White
Tan/White	100	●	50	White/Tan	50	●	100	Tan/White

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

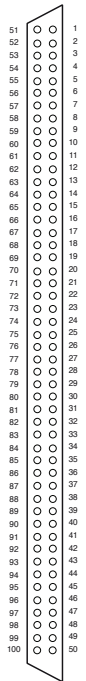
-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

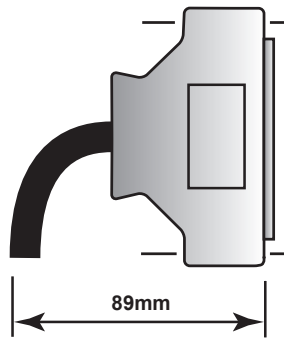
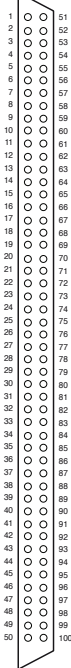
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M2.5 Screwlocks

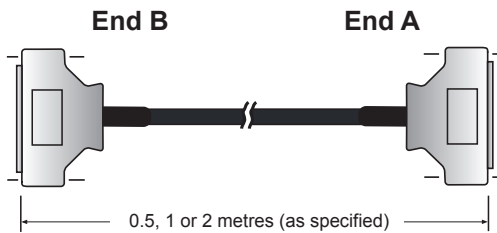
End B
Male



End A
Female

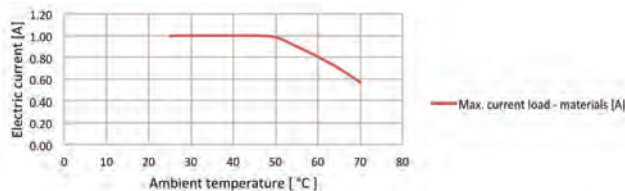
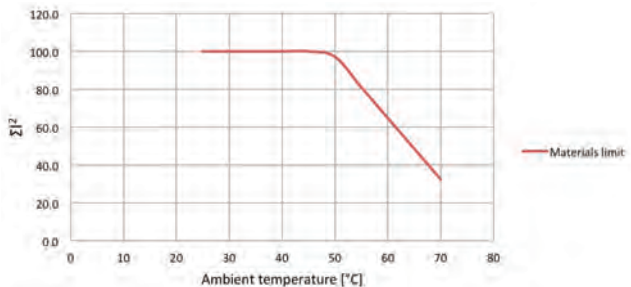


89mm
Minimum cabinet door closure allowance for cable bend.



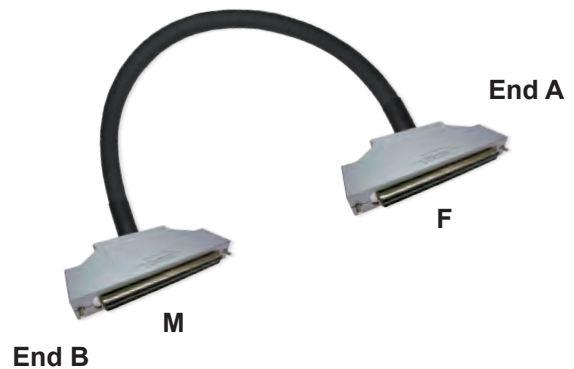
0.5, 1 or 2 metres (as specified)
Wiring Schedule information can be found on the next page of this document.

Characteristic Plots for A100SMR-100SFR-7A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	M2.5 screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	M2.5 screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩm
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	100-Pin twisted pair. with varying left and right hand lays to minimise crosstalk See schedule
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy, M2.5 Screwlocks, 1A,

Male to Female, 0.5m Long

A100SMR-100SFR-7A050

Male to Female, 1.0m Long

A100SMR-100SFR-7A100

Male to Female, 2.0m Long

A100SMR-100SFR-7A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Red/Brown	51	●	1	Brown/Red	1	●	51	Red/Brown
Black/Tan	52	●	2	Tan/Black	2	●	52	Black/Tan
Red/Tan	53	●	3	Tan/Red	3	●	53	Red/Tan
Black/White	54	●	4	White/Black	4	●	54	Black/White
Red/White	55	●	5	White/Red	5	●	55	Red/White
Grey/Violet	56	●	6	Violet/Grey	6	●	56	Grey/Violet
Grey/Blue	57	●	7	Blue/Grey	7	●	57	Grey/Blue
Violet/Blue	58	●	8	Blue/Violet	8	●	58	Violet/Blue
Grey/Green	59	●	9	Green/Grey	9	●	59	Grey/Green
Violet/Green	60	●	10	Green/Violet	10	●	60	Violet/Green
Blue/Green	61	●	11	Green/Blue	11	●	61	Blue/Green
Grey/Yellow	62	●	12	Yellow/Grey	12	●	62	Grey/Yellow
Violet/Yellow	63	●	13	Yellow/Violet	13	●	63	Violet/Yellow
Blue/Yellow	64	●	14	Yellow/Blue	14	●	64	Blue/Yellow
Green/Yellow	65	●	15	Yellow/Green	15	●	65	Green/Yellow
Grey/Orange	66	●	16	Orange/Grey	16	●	66	Grey/Orange
Violet/Orange	67	●	17	Orange/Violet	17	●	67	Violet/Orange
Blue/Orange	68	●	18	Orange/Blue	18	●	68	Blue/Orange
Green/Orange	69	●	19	Orange/Green	19	●	69	Green/Orange
Yellow/Orange	70	●	20	Orange/Yellow	20	●	70	Yellow/Orange
Grey/Pink	71	●	21	Pink/Grey	21	●	71	Grey/Pink
Violet/Pink	72	●	22	Pink/Violet	22	●	72	Violet/Pink
Blue/Pink	73	●	23	Pink/Blue	23	●	73	Blue/Pink
Green/Pink	74	●	24	Pink/Green	24	●	74	Green/Pink
Yellow/Pink	75	●	25	Pink/Yellow	25	●	75	Yellow/Pink
Orange/Pink	76	●	26	Pink/Orange	26	●	76	Orange/Pink
Grey/Brown	77	●	27	Brown/Grey	27	●	77	Grey/Brown
Violet/Brown	78	●	28	Brown/Violet	28	●	78	Violet/Brown
Blue/Brown	79	●	29	Brown/Blue	29	●	79	Blue/Brown
Green/Brown	80	●	30	Brown/Green	30	●	80	Green/Brown
Yellow/Brown	81	●	31	Brown/Yellow	31	●	81	Yellow/Brown
Orange/Brown	82	●	32	Brown/Orange	32	●	82	Orange/Brown
Pink/Brown	83	●	33	Brown/Pink	33	●	83	Pink/Brown
Grey/Tan	84	●	34	Tan/Grey	34	●	84	Grey/Tan
Violet/Tan	85	●	35	Tan/Violet	35	●	85	Violet/Tan
Blue/Tan	86	●	36	Tan/Blue	36	●	86	Blue/Tan
Green/Tan	87	●	37	Tan/Green	37	●	87	Green/Tan
Yellow/Tan	88	●	38	Tan/Yellow	38	●	88	Yellow/Tan
Orange/Tan	89	●	39	Tan/Orange	39	●	89	Orange/Tan
Pink/Tan	90	●	40	Tan/Pink	40	●	90	Pink/Tan
Brown/Tan	91	●	41	Tan/Brown	41	●	91	Brown/Tan
Grey/White	92	●	42	White/Grey	42	●	92	Grey/White
Violet/White	93	●	43	White/Violet	43	●	93	Violet/White
Blue/White	94	●	44	White/Blue	44	●	94	Blue/White
Green/White	95	●	45	White/Green	45	●	95	Green/White
Yellow/White	96	●	46	White/Yellow	46	●	96	Yellow/White
Orange/White	97	●	47	White/Orange	47	●	97	Orange/White
Pink/White	98	●	48	White/Pink	48	●	98	Pink/White
Brown/White	99	●	49	White/Brown	49	●	99	Brown/White
Tan/White	100	●	50	White/Tan	50	●	100	Tan/White

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

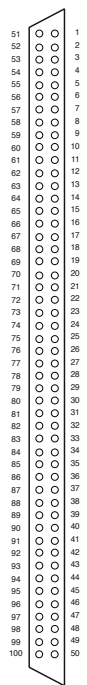
-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

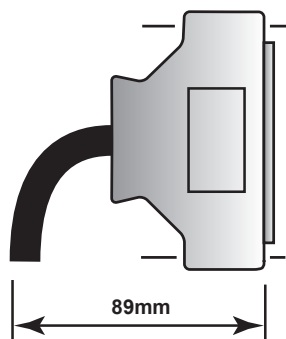
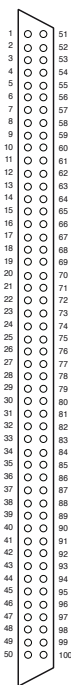
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M3 Screwlocks

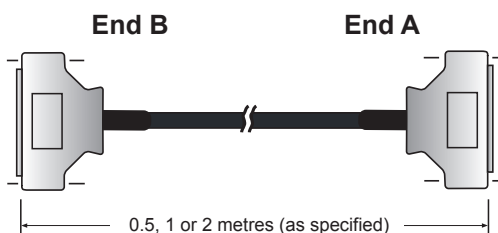
End B
Male



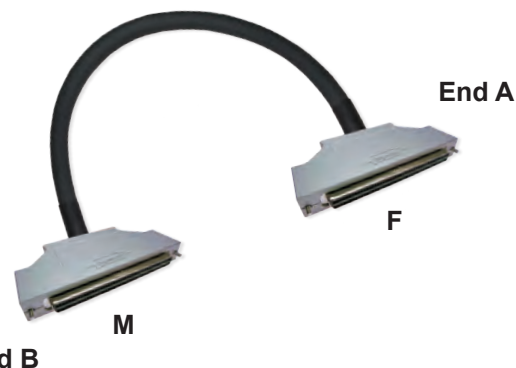
End A
Female



Minimum cabinet door
closure allowance for
cable bend.



Wiring Schedule information can be found on the
next page of this document.



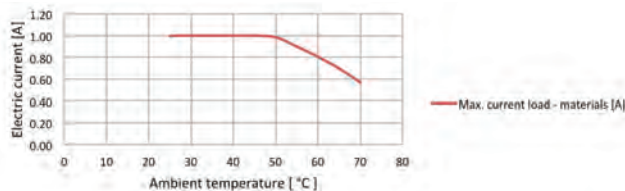
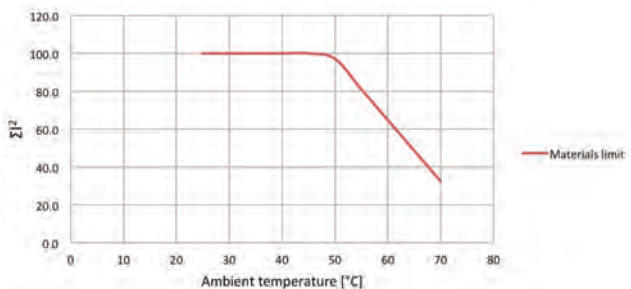
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	M3 screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	M3 screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000M Ohm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35m Ohm
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	100-Pin twisted pair. with varying left and right hand lays to minimise crosstalk See schedule
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)

Notes:

Other cable lengths can be supplied.

Characteristic Plots for A100SMR-100SFR-8A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy,
M3 Screwlocks, 1A,

Male to Female, 0.5m Long

A100SMR-100SFR-8A050

Male to Female, 1.0m Long

A100SMR-100SFR-8A100

Male to Female, 2.0m Long

A100SMR-100SFR-8A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Red/Brown	51	●	1	Brown/Red	1	●	51	Red/Brown
Black/Tan	52	●	2	Tan/Black	2	●	52	Black/Tan
Red/Tan	53	●	3	Tan/Red	3	●	53	Red/Tan
Black/White	54	●	4	White/Black	4	●	54	Black/White
Red/White	55	●	5	White/Red	5	●	55	Red/White
Grey/Violet	56	●	6	Violet/Grey	6	●	56	Grey/Violet
Grey/Blue	57	●	7	Blue/Grey	7	●	57	Grey/Blue
Violet/Blue	58	●	8	Blue/Violet	8	●	58	Violet/Blue
Grey/Green	59	●	9	Green/Grey	9	●	59	Grey/Green
Violet/Green	60	●	10	Green/Violet	10	●	60	Violet/Green
Blue/Green	61	●	11	Green/Blue	11	●	61	Blue/Green
Grey/Yellow	62	●	12	Yellow/Grey	12	●	62	Grey/Yellow
Violet/Yellow	63	●	13	Yellow/Violet	13	●	63	Violet/Yellow
Blue/Yellow	64	●	14	Yellow/Blue	14	●	64	Blue/Yellow
Green/Yellow	65	●	15	Yellow/Green	15	●	65	Green/Yellow
Grey/Orange	66	●	16	Orange/Grey	16	●	66	Grey/Orange
Violet/Orange	67	●	17	Orange/Violet	17	●	67	Violet/Orange
Blue/Orange	68	●	18	Orange/Blue	18	●	68	Blue/Orange
Green/Orange	69	●	19	Orange/Green	19	●	69	Green/Orange
Yellow/Orange	70	●	20	Orange/Yellow	20	●	70	Yellow/Orange
Grey/Pink	71	●	21	Pink/Grey	21	●	71	Grey/Pink
Violet/Pink	72	●	22	Pink/Violet	22	●	72	Violet/Pink
Blue/Pink	73	●	23	Pink/Blue	23	●	73	Blue/Pink
Green/Pink	74	●	24	Pink/Green	24	●	74	Green/Pink
Yellow/Pink	75	●	25	Pink/Yellow	25	●	75	Yellow/Pink
Orange/Pink	76	●	26	Pink/Orange	26	●	76	Orange/Pink
Grey/Brown	77	●	27	Brown/Grey	27	●	77	Grey/Brown
Violet/Brown	78	●	28	Brown/Violet	28	●	78	Violet/Brown
Blue/Brown	79	●	29	Brown/Blue	29	●	79	Blue/Brown
Green/Brown	80	●	30	Brown/Green	30	●	80	Green/Brown
Yellow/Brown	81	●	31	Brown/Yellow	31	●	81	Yellow/Brown
Orange/Brown	82	●	32	Brown/Orange	32	●	82	Orange/Brown
Pink/Brown	83	●	33	Brown/Pink	33	●	83	Pink/Brown
Grey/Tan	84	●	34	Tan/Grey	34	●	84	Grey/Tan
Violet/Tan	85	●	35	Tan/Violet	35	●	85	Violet/Tan
Blue/Tan	86	●	36	Tan/Blue	36	●	86	Blue/Tan
Green/Tan	87	●	37	Tan/Green	37	●	87	Green/Tan
Yellow/Tan	88	●	38	Tan/Yellow	38	●	88	Yellow/Tan
Orange/Tan	89	●	39	Tan/Orange	39	●	89	Orange/Tan
Pink/Tan	90	●	40	Tan/Pink	40	●	90	Pink/Tan
Brown/Tan	91	●	41	Tan/Brown	41	●	91	Brown/Tan
Grey/White	92	●	42	White/Grey	42	●	92	Grey/White
Violet/White	93	●	43	White/Violet	43	●	93	Violet/White
Blue/White	94	●	44	White/Blue	44	●	94	Blue/White
Green/White	95	●	45	White/Green	45	●	95	Green/White
Yellow/White	96	●	46	White/Yellow	46	●	96	Yellow/White
Orange/White	97	●	47	White/Orange	47	●	97	Orange/White
Pink/White	98	●	48	White/Pink	48	●	98	Pink/White
Brown/White	99	●	49	White/Brown	49	●	99	Brown/White
Tan/White	100	●	50	White/Tan	50	●	100	Tan/White

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

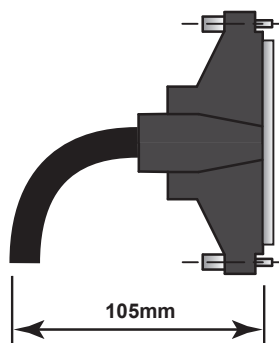
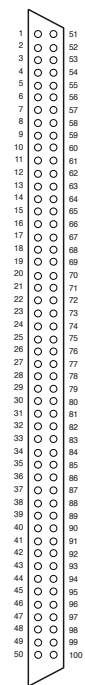
-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

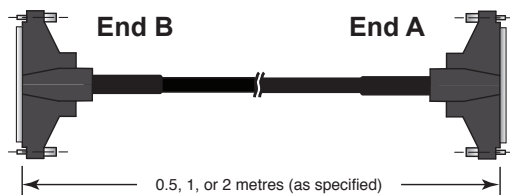
100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks

End B
Female

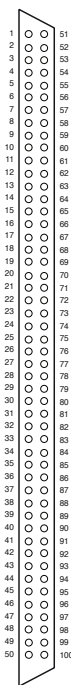


105mm
Minimum cabinet door
closure allowance for
cable bend.



Wiring Schedule information can be found on the
next page of this document.

End A
Female



End B

F

F

End A

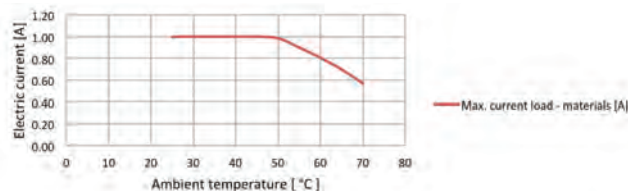
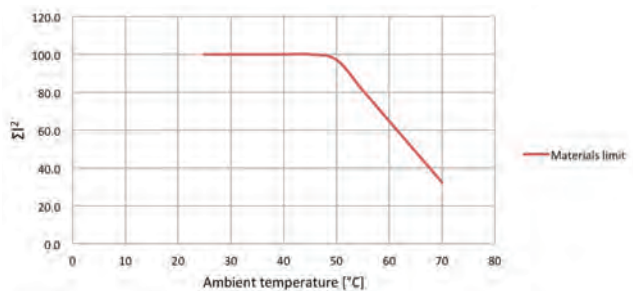
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000M Ω m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35m Ω m
Cable Exit	Rear
Overall Size (Approx)	H85 x W17 x D59mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22 Ω /m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Characteristic Plots for 40-970B-100-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy,
4-40 UNC Screwlocks, 1A,

Female to Female, 0.5m Long

40-970B-100-0.5m-FF

Female to Female, 1.0m Long

40-970B-100-1m-FF

Female to Female, 2.0m Long

40-970B-100-2m-FF

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

End B				End A					
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color	
Brown/Red	1	● - - ●	51	Red/Brown	Brown/Red	1	● - - ●	51	Red/Brown
Tan/Black	2	● - - ●	52	Black/Tan	Tan/Black	2	● - - ●	52	Black/Tan
Tan/Red	3	● - - ●	53	Red/Tan	Tan/Red	3	● - - ●	53	Red/Tan
White/Black	4	● - - ●	54	Black/White	White/Black	4	● - - ●	54	Black/White
White/Red	5	● - - ●	55	Red/White	White/Red	5	● - - ●	55	Red/White
Violet/Grey	6	● - - ●	56	Grey/Violet	Violet/Grey	6	● - - ●	56	Grey/Violet
Blue/Grey	7	● - - ●	57	Grey/Blue	Blue/Grey	7	● - - ●	57	Grey/Blue
Blue/Violet	8	● - - ●	58	Violet/Blue	Blue/Violet	8	● - - ●	58	Violet/Blue
Green/Grey	9	● - - ●	59	Grey/Green	Green/Grey	9	● - - ●	59	Grey/Green
Green/Violet	10	● - - ●	60	Violet/Green	Green/Violet	10	● - - ●	60	Violet/Green
Green/Blue	11	● - - ●	61	Blue/Green	Green/Blue	11	● - - ●	61	Blue/Green
Yellow/Grey	12	● - - ●	62	Grey/Yellow	Yellow/Grey	12	● - - ●	62	Grey/Yellow
Yellow/Violet	13	● - - ●	63	Violet/Yellow	Yellow/Violet	13	● - - ●	63	Violet/Yellow
Yellow/Blue	14	● - - ●	64	Blue/Yellow	Yellow/Blue	14	● - - ●	64	Blue/Yellow
Yellow/Green	15	● - - ●	65	Green/Yellow	Yellow/Green	15	● - - ●	65	Green/Yellow
Orange/Grey	16	● - - ●	66	Grey/Orange	Orange/Grey	16	● - - ●	66	Grey/Orange
Orange/Violet	17	● - - ●	67	Violet/Orange	Orange/Violet	17	● - - ●	67	Violet/Orange
Orange/Blue	18	● - - ●	68	Blue/Orange	Orange/Blue	18	● - - ●	68	Blue/Orange
Orange/Green	19	● - - ●	69	Green/Orange	Orange/Green	19	● - - ●	69	Green/Orange
Orange/Yellow	20	● - - ●	70	Yellow/Orange	Orange/Yellow	20	● - - ●	70	Yellow/Orange
Pink/Grey	21	● - - ●	71	Grey/Pink	Pink/Grey	21	● - - ●	71	Grey/Pink
Pink/Violet	22	● - - ●	72	Violet/Pink	Pink/Violet	22	● - - ●	72	Violet/Pink
Pink/Blue	23	● - - ●	73	Blue/Pink	Pink/Blue	23	● - - ●	73	Blue/Pink
Pink/Green	24	● - - ●	74	Green/Pink	Pink/Green	24	● - - ●	74	Green/Pink
Pink/Yellow	25	● - - ●	75	Yellow/Pink	Pink/Yellow	25	● - - ●	75	Yellow/Pink
Pink/Orange	26	● - - ●	76	Orange/Pink	Pink/Orange	26	● - - ●	76	Orange/Pink
Brown/Grey	27	● - - ●	77	Grey/Brown	Brown/Grey	27	● - - ●	77	Grey/Brown
Brown/Violet	28	● - - ●	78	Violet/Brown	Brown/Violet	28	● - - ●	78	Violet/Brown
Brown/Blue	29	● - - ●	79	Blue/Brown	Brown/Blue	29	● - - ●	79	Blue/Brown
Brown/Green	30	● - - ●	80	Green/Brown	Brown/Green	30	● - - ●	80	Green/Brown
Brown/Yellow	31	● - - ●	81	Yellow/Brown	Brown/Yellow	31	● - - ●	81	Yellow/Brown
Brown/Orange	32	● - - ●	82	Orange/Brown	Brown/Orange	32	● - - ●	82	Orange/Brown
Brown/Pink	33	● - - ●	83	Pink/Brown	Brown/Pink	33	● - - ●	83	Pink/Brown
Tan/Grey	34	● - - ●	84	Grey/Tan	Tan/Grey	34	● - - ●	84	Grey/Tan
Tan/Violet	35	● - - ●	85	Violet/Tan	Tan/Violet	35	● - - ●	85	Violet/Tan
Tan/Blue	36	● - - ●	86	Blue/Tan	Tan/Blue	36	● - - ●	86	Blue/Tan
Tan/Green	37	● - - ●	87	Green/Tan	Tan/Green	37	● - - ●	87	Green/Tan
Tan/Yellow	38	● - - ●	88	Yellow/Tan	Tan/Yellow	38	● - - ●	88	Yellow/Tan
Tan/Orange	39	● - - ●	89	Orange/Tan	Tan/Orange	39	● - - ●	89	Orange/Tan
Tan/Pink	40	● - - ●	90	Pink/Tan	Tan/Pink	40	● - - ●	90	Pink/Tan
Tan/Brown	41	● - - ●	91	Brown/Tan	Tan/Brown	41	● - - ●	91	Brown/Tan
White/Grey	42	● - - ●	92	Grey/White	White/Grey	42	● - - ●	92	Grey/White
White/Violet	43	● - - ●	93	Violet/White	White/Violet	43	● - - ●	93	Violet/White
White/Blue	44	● - - ●	94	Blue/White	White/Blue	44	● - - ●	94	Blue/White
White/Green	45	● - - ●	95	Green/White	White/Green	45	● - - ●	95	Green/White
White/Yellow	46	● - - ●	96	Yellow/White	White/Yellow	46	● - - ●	96	Yellow/White
White/Orange	47	● - - ●	97	Orange/White	White/Orange	47	● - - ●	97	Orange/White
White/Pink	48	● - - ●	98	Pink/White	White/Pink	48	● - - ●	98	Pink/White
White/Brown	49	● - - ●	99	Brown/White	White/Brown	49	● - - ●	99	Brown/White
White/Tan	50	● - - ●	100	Tan/White	White/Tan	50	● - - ●	100	Tan/White

100-Pin 1.27mm Pitch Micro-D Female Connector
(Mating Face)

100-Pin 1.27mm Pitch Micro-D Female Connector
(Mating Face)

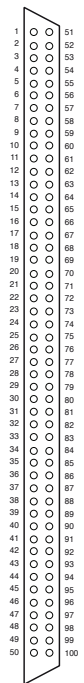
- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

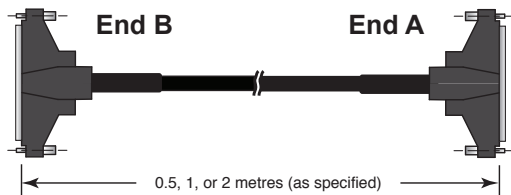
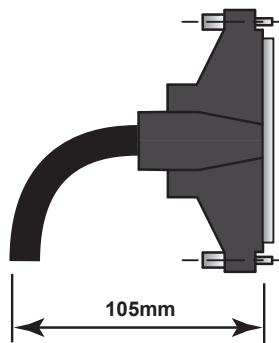
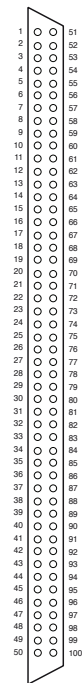
100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 2-56 UNC Screwlocks

End B
Female



End A
Female



Wiring Schedule information can be found on the next page of this document.



End B

F

F

End A

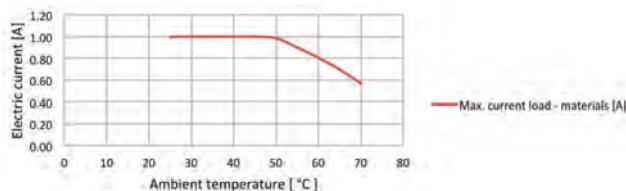
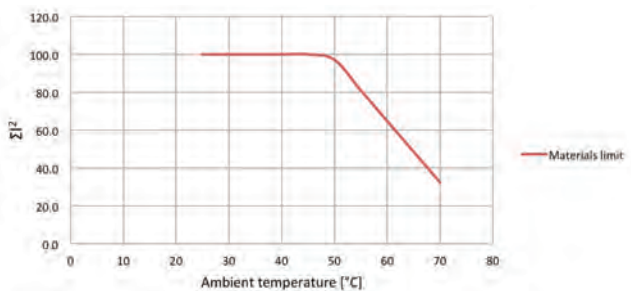
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000M Ω m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35m Ω m
Cable Exit	Rear
Overall Size (Approx)	H85 x W17 x D59mm
Cable Type:	
	100-Pin twisted pair. with varying left and right hand lays to minimise crosstalk
	See schedule
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22 Ω /m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Characteristic Plots for A100SFR-100SFR-6A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy,
2-56 UNC Screwlocks, 1A,

Female to Female, 0.5m Long

A100SFR-100SFR-6A050

Female to Female, 1.0m Long

A100SFR-100SFR-6A100

Female to Female, 2.0m Long

A100SFR-100SFR-6A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

End B				End A					
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color	
Brown/Red	1	● - - ●	51	Red/Brown	Brown/Red	1	● - - ●	51	Red/Brown
Tan/Black	2	● - - ●	52	Black/Tan	Tan/Black	2	● - - ●	52	Black/Tan
Tan/Red	3	● - - ●	53	Red/Tan	Tan/Red	3	● - - ●	53	Red/Tan
White/Black	4	● - - ●	54	Black/White	White/Black	4	● - - ●	54	Black/White
White/Red	5	● - - ●	55	Red/White	White/Red	5	● - - ●	55	Red/White
Violet/Grey	6	● - - ●	56	Grey/Violet	Violet/Grey	6	● - - ●	56	Grey/Violet
Blue/Grey	7	● - - ●	57	Grey/Blue	Blue/Grey	7	● - - ●	57	Grey/Blue
Blue/Violet	8	● - - ●	58	Violet/Blue	Blue/Violet	8	● - - ●	58	Violet/Blue
Green/Grey	9	● - - ●	59	Grey/Green	Green/Grey	9	● - - ●	59	Grey/Green
Green/Violet	10	● - - ●	60	Violet/Green	Green/Violet	10	● - - ●	60	Violet/Green
Green/Blue	11	● - - ●	61	Blue/Green	Green/Blue	11	● - - ●	61	Blue/Green
Yellow/Grey	12	● - - ●	62	Grey/Yellow	Yellow/Grey	12	● - - ●	62	Grey/Yellow
Yellow/Violet	13	● - - ●	63	Violet/Yellow	Yellow/Violet	13	● - - ●	63	Violet/Yellow
Yellow/Blue	14	● - - ●	64	Blue/Yellow	Yellow/Blue	14	● - - ●	64	Blue/Yellow
Yellow/Green	15	● - - ●	65	Green/Yellow	Yellow/Green	15	● - - ●	65	Green/Yellow
Orange/Grey	16	● - - ●	66	Grey/Orange	Orange/Grey	16	● - - ●	66	Grey/Orange
Orange/Violet	17	● - - ●	67	Violet/Orange	Orange/Violet	17	● - - ●	67	Violet/Orange
Orange/Blue	18	● - - ●	68	Blue/Orange	Orange/Blue	18	● - - ●	68	Blue/Orange
Orange/Green	19	● - - ●	69	Green/Orange	Orange/Green	19	● - - ●	69	Green/Orange
Orange/Yellow	20	● - - ●	70	Yellow/Orange	Orange/Yellow	20	● - - ●	70	Yellow/Orange
Pink/Grey	21	● - - ●	71	Grey/Pink	Pink/Grey	21	● - - ●	71	Grey/Pink
Pink/Violet	22	● - - ●	72	Violet/Pink	Pink/Violet	22	● - - ●	72	Violet/Pink
Pink/Blue	23	● - - ●	73	Blue/Pink	Pink/Blue	23	● - - ●	73	Blue/Pink
Pink/Green	24	● - - ●	74	Green/Pink	Pink/Green	24	● - - ●	74	Green/Pink
Pink/Yellow	25	● - - ●	75	Yellow/Pink	Pink/Yellow	25	● - - ●	75	Yellow/Pink
Pink/Orange	26	● - - ●	76	Orange/Pink	Pink/Orange	26	● - - ●	76	Orange/Pink
Brown/Grey	27	● - - ●	77	Grey/Brown	Brown/Grey	27	● - - ●	77	Grey/Brown
Brown/Violet	28	● - - ●	78	Violet/Brown	Brown/Violet	28	● - - ●	78	Violet/Brown
Brown/Blue	29	● - - ●	79	Blue/Brown	Brown/Blue	29	● - - ●	79	Blue/Brown
Brown/Green	30	● - - ●	80	Green/Brown	Brown/Green	30	● - - ●	80	Green/Brown
Brown/Yellow	31	● - - ●	81	Yellow/Brown	Brown/Yellow	31	● - - ●	81	Yellow/Brown
Brown/Orange	32	● - - ●	82	Orange/Brown	Brown/Orange	32	● - - ●	82	Orange/Brown
Brown/Pink	33	● - - ●	83	Pink/Brown	Brown/Pink	33	● - - ●	83	Pink/Brown
Tan/Grey	34	● - - ●	84	Grey/Tan	Tan/Grey	34	● - - ●	84	Grey/Tan
Tan/Violet	35	● - - ●	85	Violet/Tan	Tan/Violet	35	● - - ●	85	Violet/Tan
Tan/Blue	36	● - - ●	86	Blue/Tan	Tan/Blue	36	● - - ●	86	Blue/Tan
Tan/Green	37	● - - ●	87	Green/Tan	Tan/Green	37	● - - ●	87	Green/Tan
Tan/Yellow	38	● - - ●	88	Yellow/Tan	Tan/Yellow	38	● - - ●	88	Yellow/Tan
Tan/Orange	39	● - - ●	89	Orange/Tan	Tan/Orange	39	● - - ●	89	Orange/Tan
Tan/Pink	40	● - - ●	90	Pink/Tan	Tan/Pink	40	● - - ●	90	Pink/Tan
Tan/Brown	41	● - - ●	91	Brown/Tan	Tan/Brown	41	● - - ●	91	Brown/Tan
White/Grey	42	● - - ●	92	Grey/White	White/Grey	42	● - - ●	92	Grey/White
White/Violet	43	● - - ●	93	Violet/White	White/Violet	43	● - - ●	93	Violet/White
White/Blue	44	● - - ●	94	Blue/White	White/Blue	44	● - - ●	94	Blue/White
White/Green	45	● - - ●	95	Green/White	White/Green	45	● - - ●	95	Green/White
White/Yellow	46	● - - ●	96	Yellow/White	White/Yellow	46	● - - ●	96	Yellow/White
White/Orange	47	● - - ●	97	Orange/White	White/Orange	47	● - - ●	97	Orange/White
White/Pink	48	● - - ●	98	Pink/White	White/Pink	48	● - - ●	98	Pink/White
White/Brown	49	● - - ●	99	Brown/White	White/Brown	49	● - - ●	99	Brown/White
White/Tan	50	● - - ●	100	Tan/White	White/Tan	50	● - - ●	100	Tan/White

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

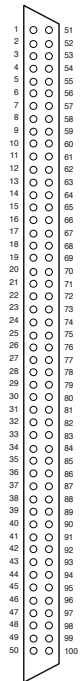
- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

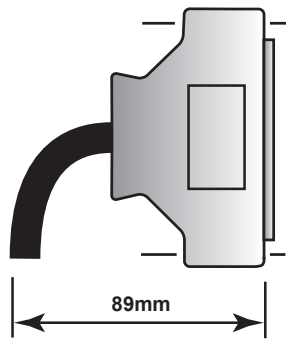
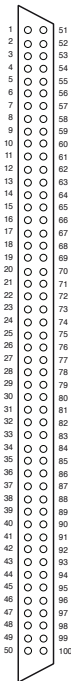
100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M2.5 Screwlocks

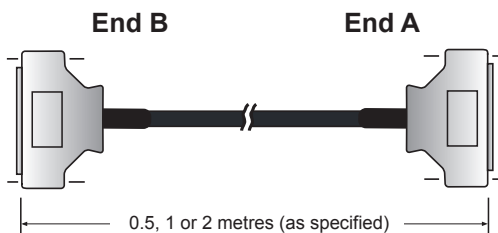
End B
Female



End A
Female

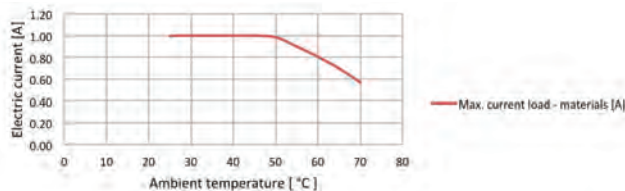
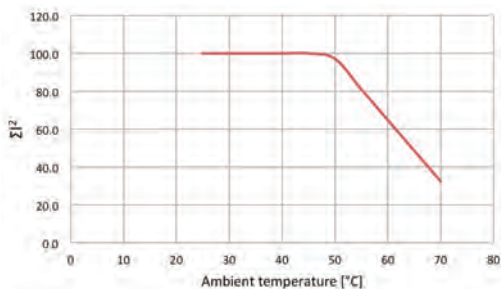


89mm
Minimum cabinet door
closure allowance for
cable bend.



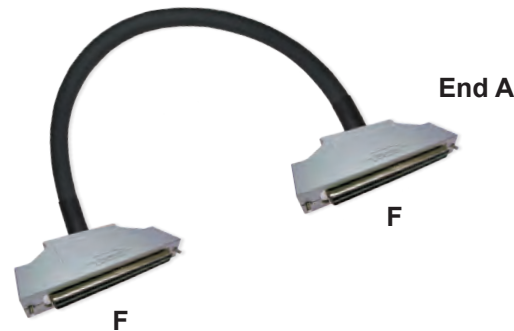
End B End A
0.5, 1 or 2 metres (as specified)
Wiring Schedule information can be found on the
next page of this document.

Characteristic Plots for A100SFR-100SFR-7A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	M2.5 screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	M2.5 screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩm
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	100-Pin twisted pair. with varying left and right hand lays to minimise crosstalk See schedule
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

**100-Pin 1.27mm Pitch Micro-D Cable Assy,
M2.5 Screwlocks, 1A,**

Female to Female, 0.5m Long

A100SFR-100SFR-7A050

Female to Female, 1.0m Long

A100SFR-100SFR-7A100

Female to Female, 2.0m Long

A100SFR-100SFR-7A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Brown/Red	1	● - - ●	51	Red/Brown	1	● - - ●	51	Red/Brown
Tan/Black	2	● - - ●	52	Black/Tan	2	● - - ●	52	Black/Tan
Tan/Red	3	● - - ●	53	Red/Tan	3	● - - ●	53	Red/Tan
White/Black	4	● - - ●	54	Black/White	4	● - - ●	54	Black/White
White/Red	5	● - - ●	55	Red/White	5	● - - ●	55	Red/White
Violet/Grey	6	● - - ●	56	Grey/Violet	6	● - - ●	56	Grey/Violet
Blue/Grey	7	● - - ●	57	Grey/Blue	7	● - - ●	57	Grey/Blue
Blue/Violet	8	● - - ●	58	Violet/Blue	8	● - - ●	58	Violet/Blue
Green/Grey	9	● - - ●	59	Grey/Green	9	● - - ●	59	Grey/Green
Green/Violet	10	● - - ●	60	Violet/Green	10	● - - ●	60	Violet/Green
Green/Blue	11	● - - ●	61	Blue/Green	11	● - - ●	61	Blue/Green
Yellow/Grey	12	● - - ●	62	Grey/Yellow	12	● - - ●	62	Grey/Yellow
Yellow/Violet	13	● - - ●	63	Violet/Yellow	13	● - - ●	63	Violet/Yellow
Yellow/Blue	14	● - - ●	64	Blue/Yellow	14	● - - ●	64	Blue/Yellow
Yellow/Green	15	● - - ●	65	Green/Yellow	15	● - - ●	65	Green/Yellow
Orange/Grey	16	● - - ●	66	Grey/Orange	16	● - - ●	66	Grey/Orange
Orange/Violet	17	● - - ●	67	Violet/Orange	17	● - - ●	67	Violet/Orange
Orange/Blue	18	● - - ●	68	Blue/Orange	18	● - - ●	68	Blue/Orange
Orange/Green	19	● - - ●	69	Green/Orange	19	● - - ●	69	Green/Orange
Orange/Yellow	20	● - - ●	70	Yellow/Orange	20	● - - ●	70	Yellow/Orange
Pink/Grey	21	● - - ●	71	Grey/Pink	21	● - - ●	71	Grey/Pink
Pink/Violet	22	● - - ●	72	Violet/Pink	22	● - - ●	72	Violet/Pink
Pink/Blue	23	● - - ●	73	Blue/Pink	23	● - - ●	73	Blue/Pink
Pink/Green	24	● - - ●	74	Green/Pink	24	● - - ●	74	Green/Pink
Pink/Yellow	25	● - - ●	75	Yellow/Pink	25	● - - ●	75	Yellow/Pink
Pink/Orange	26	● - - ●	76	Orange/Pink	26	● - - ●	76	Orange/Pink
Brown/Grey	27	● - - ●	77	Grey/Brown	27	● - - ●	77	Grey/Brown
Brown/Violet	28	● - - ●	78	Violet/Brown	28	● - - ●	78	Violet/Brown
Brown/Blue	29	● - - ●	79	Blue/Brown	29	● - - ●	79	Blue/Brown
Brown/Green	30	● - - ●	80	Green/Brown	30	● - - ●	80	Green/Brown
Brown/Yellow	31	● - - ●	81	Yellow/Brown	31	● - - ●	81	Yellow/Brown
Brown/Orange	32	● - - ●	82	Orange/Brown	32	● - - ●	82	Orange/Brown
Brown/Pink	33	● - - ●	83	Pink/Brown	33	● - - ●	83	Pink/Brown
Tan/Grey	34	● - - ●	84	Grey/Tan	34	● - - ●	84	Grey/Tan
Tan/Violet	35	● - - ●	85	Violet/Tan	35	● - - ●	85	Violet/Tan
Tan/Blue	36	● - - ●	86	Blue/Tan	36	● - - ●	86	Blue/Tan
Tan/Green	37	● - - ●	87	Green/Tan	37	● - - ●	87	Green/Tan
Tan/Yellow	38	● - - ●	88	Yellow/Tan	38	● - - ●	88	Yellow/Tan
Tan/Orange	39	● - - ●	89	Orange/Tan	39	● - - ●	89	Orange/Tan
Tan/Pink	40	● - - ●	90	Pink/Tan	40	● - - ●	90	Pink/Tan
Tan/Brown	41	● - - ●	91	Brown/Tan	41	● - - ●	91	Brown/Tan
White/Grey	42	● - - ●	92	Grey/White	42	● - - ●	92	Grey/White
White/Violet	43	● - - ●	93	Violet/White	43	● - - ●	93	Violet/White
White/Blue	44	● - - ●	94	Blue/White	44	● - - ●	94	Blue/White
White/Green	45	● - - ●	95	Green/White	45	● - - ●	95	Green/White
White/Yellow	46	● - - ●	96	Yellow/White	46	● - - ●	96	Yellow/White
White/Orange	47	● - - ●	97	Orange/White	47	● - - ●	97	Orange/White
White/Pink	48	● - - ●	98	Pink/White	48	● - - ●	98	Pink/White
White/Brown	49	● - - ●	99	Brown/White	49	● - - ●	99	Brown/White
White/Tan	50	● - - ●	100	Tan/White	50	● - - ●	100	Tan/White

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

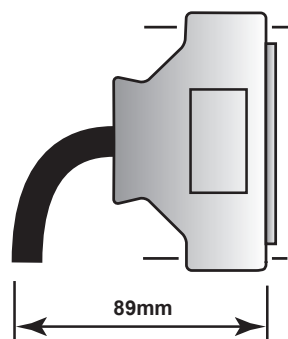
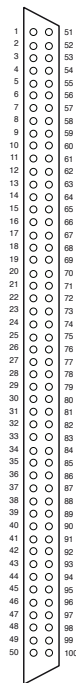
- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

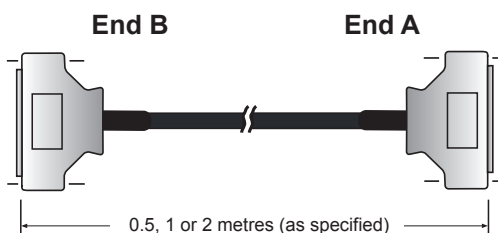
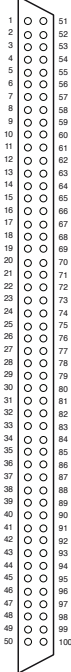
- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M3 Screwlocks

End B
Female



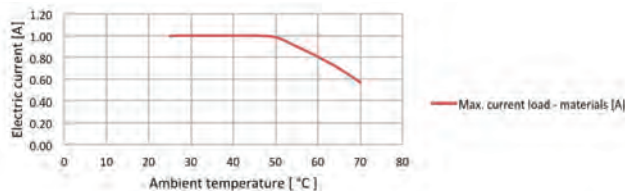
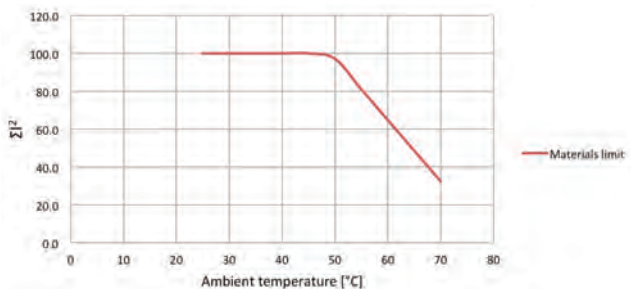
89mm
Minimum cabinet door
closure allowance for
cable bend.

End A
Female



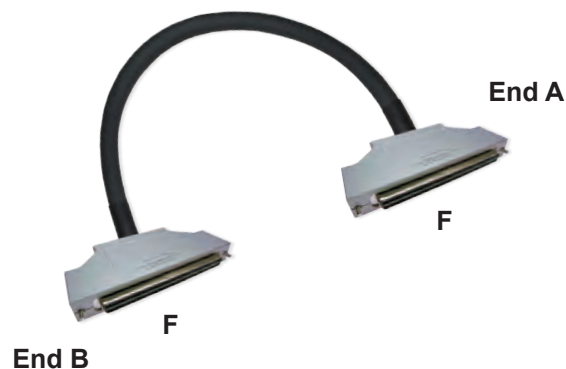
Wiring Schedule information can be found on the
next page of this document.

Characteristic Plots for A100SFR-100SFR-8A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	M3 screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	M3 screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	100-Pin twisted pair. with varying left and right hand lays to minimise crosstalk See schedule
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

**100-Pin 1.27mm Pitch Micro-D Cable Assy,
M3 Screwlocks, 1A,**

Female to Female, 0.5m Long

A100SFR-100SFR-8A050

Female to Female, 1.0m Long

A100SFR-100SFR-8A100

Female to Female, 2.0m Long

A100SFR-100SFR-8A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Brown/Red	1	● - - ●	51	Red/Brown	1	● - - ●	51	Red/Brown
Tan/Black	2	● - - ●	52	Black/Tan	2	● - - ●	52	Black/Tan
Tan/Red	3	● - - ●	53	Red/Tan	3	● - - ●	53	Red/Tan
White/Black	4	● - - ●	54	Black/White	4	● - - ●	54	Black/White
White/Red	5	● - - ●	55	Red/White	5	● - - ●	55	Red/White
Violet/Grey	6	● - - ●	56	Grey/Violet	6	● - - ●	56	Grey/Violet
Blue/Grey	7	● - - ●	57	Grey/Blue	7	● - - ●	57	Grey/Blue
Blue/Violet	8	● - - ●	58	Violet/Blue	8	● - - ●	58	Violet/Blue
Green/Grey	9	● - - ●	59	Grey/Green	9	● - - ●	59	Grey/Green
Green/Violet	10	● - - ●	60	Violet/Green	10	● - - ●	60	Violet/Green
Green/Blue	11	● - - ●	61	Blue/Green	11	● - - ●	61	Blue/Green
Yellow/Grey	12	● - - ●	62	Grey/Yellow	12	● - - ●	62	Grey/Yellow
Yellow/Violet	13	● - - ●	63	Violet/Yellow	13	● - - ●	63	Violet/Yellow
Yellow/Blue	14	● - - ●	64	Blue/Yellow	14	● - - ●	64	Blue/Yellow
Yellow/Green	15	● - - ●	65	Green/Yellow	15	● - - ●	65	Green/Yellow
Orange/Grey	16	● - - ●	66	Grey/Orange	16	● - - ●	66	Grey/Orange
Orange/Violet	17	● - - ●	67	Violet/Orange	17	● - - ●	67	Violet/Orange
Orange/Blue	18	● - - ●	68	Blue/Orange	18	● - - ●	68	Blue/Orange
Orange/Green	19	● - - ●	69	Green/Orange	19	● - - ●	69	Green/Orange
Orange/Yellow	20	● - - ●	70	Yellow/Orange	20	● - - ●	70	Yellow/Orange
Pink/Grey	21	● - - ●	71	Grey/Pink	21	● - - ●	71	Grey/Pink
Pink/Violet	22	● - - ●	72	Violet/Pink	22	● - - ●	72	Violet/Pink
Pink/Blue	23	● - - ●	73	Blue/Pink	23	● - - ●	73	Blue/Pink
Pink/Green	24	● - - ●	74	Green/Pink	24	● - - ●	74	Green/Pink
Pink/Yellow	25	● - - ●	75	Yellow/Pink	25	● - - ●	75	Yellow/Pink
Pink/Orange	26	● - - ●	76	Orange/Pink	26	● - - ●	76	Orange/Pink
Brown/Grey	27	● - - ●	77	Grey/Brown	27	● - - ●	77	Grey/Brown
Brown/Violet	28	● - - ●	78	Violet/Brown	28	● - - ●	78	Violet/Brown
Brown/Blue	29	● - - ●	79	Blue/Brown	29	● - - ●	79	Blue/Brown
Brown/Green	30	● - - ●	80	Green/Brown	30	● - - ●	80	Green/Brown
Brown/Yellow	31	● - - ●	81	Yellow/Brown	31	● - - ●	81	Yellow/Brown
Brown/Orange	32	● - - ●	82	Orange/Brown	32	● - - ●	82	Orange/Brown
Brown/Pink	33	● - - ●	83	Pink/Brown	33	● - - ●	83	Pink/Brown
Tan/Grey	34	● - - ●	84	Grey/Tan	34	● - - ●	84	Grey/Tan
Tan/Violet	35	● - - ●	85	Violet/Tan	35	● - - ●	85	Violet/Tan
Tan/Blue	36	● - - ●	86	Blue/Tan	36	● - - ●	86	Blue/Tan
Tan/Green	37	● - - ●	87	Green/Tan	37	● - - ●	87	Green/Tan
Tan/Yellow	38	● - - ●	88	Yellow/Tan	38	● - - ●	88	Yellow/Tan
Tan/Orange	39	● - - ●	89	Orange/Tan	39	● - - ●	89	Orange/Tan
Tan/Pink	40	● - - ●	90	Pink/Tan	40	● - - ●	90	Pink/Tan
Tan/Brown	41	● - - ●	91	Brown/Tan	41	● - - ●	91	Brown/Tan
White/Grey	42	● - - ●	92	Grey/White	42	● - - ●	92	Grey/White
White/Violet	43	● - - ●	93	Violet/White	43	● - - ●	93	Violet/White
White/Blue	44	● - - ●	94	Blue/White	44	● - - ●	94	Blue/White
White/Green	45	● - - ●	95	Green/White	45	● - - ●	95	Green/White
White/Yellow	46	● - - ●	96	Yellow/White	46	● - - ●	96	Yellow/White
White/Orange	47	● - - ●	97	Orange/White	47	● - - ●	97	Orange/White
White/Pink	48	● - - ●	98	Pink/White	48	● - - ●	98	Pink/White
White/Brown	49	● - - ●	99	Brown/White	49	● - - ●	99	Brown/White
White/Tan	50	● - - ●	100	Tan/White	50	● - - ●	100	Tan/White

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

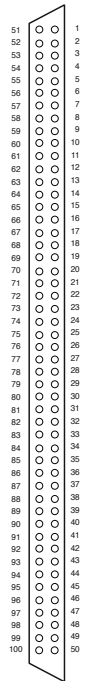
- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

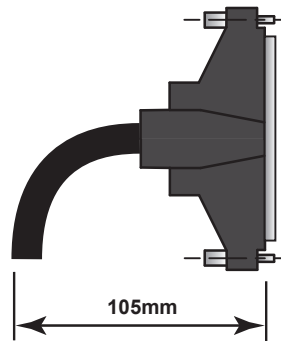
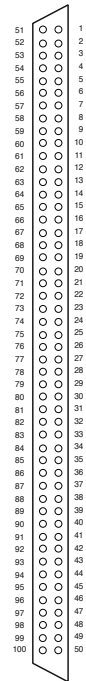
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks

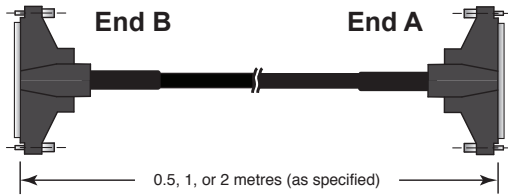
End B
Male



End A
Male



105mm
Minimum cabinet door closure allowance for cable bend.



0.5, 1, or 2 metres (as specified)
Wiring Schedule information can be found on the next page of this document.



End B

M

M

End A

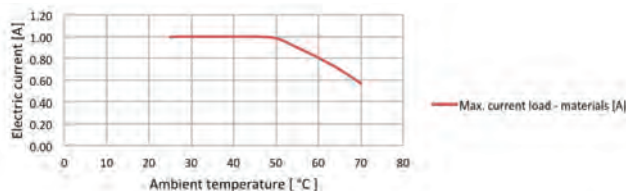
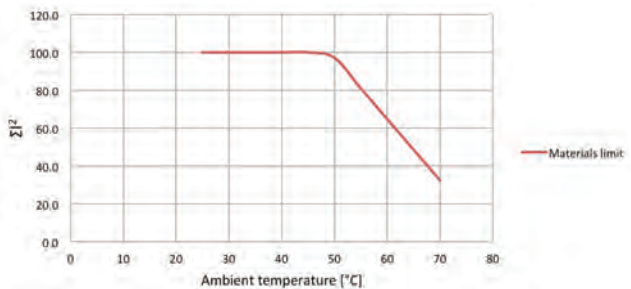
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000M Ω m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35m Ω m
Cable Exit	Rear
Overall Size (Approx)	H85 x W17 x D59mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22 Ω /m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Characteristic Plots for 40-970B-100-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy,
4-40 UNC Screwlocks, 1A,

Male to Male, 0.5m Long

40-970B-100-0.5m-MM

Male to Male, 1.0m Long

40-970B-100-1m-MM

Male to Male, 2.0m Long

40-970B-100-2m-MM

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

End B			End A		
Wire Color	Pin		Pin	Wire Color	
Red/Brown	51	● - - - ●	1	Brown/Red	● - - - ●
Black/Tan	52	● - - - ●	2	Tan/Black	● - - - ●
Red/Tan	53	● - - - ●	3	Tan/Red	● - - - ●
Black/White	54	● - - - ●	4	White/Black	● - - - ●
Red/White	55	● - - - ●	5	White/Red	● - - - ●
Grey/Violet	56	● - - - ●	6	Violet/Grey	● - - - ●
Grey/Blue	57	● - - - ●	7	Blue/Grey	● - - - ●
Violet/Blue	58	● - - - ●	8	Blue/Violet	● - - - ●
Grey/Green	59	● - - - ●	9	Green/Grey	● - - - ●
Violet/Green	60	● - - - ●	10	Green/Violet	● - - - ●
Blue/Green	61	● - - - ●	11	Green/Blue	● - - - ●
Grey/Yellow	62	● - - - ●	12	Yellow/Grey	● - - - ●
Violet/Yellow	63	● - - - ●	13	Yellow/Violet	● - - - ●
Blue/Yellow	64	● - - - ●	14	Yellow/Blue	● - - - ●
Green/Yellow	65	● - - - ●	15	Yellow/Green	● - - - ●
Grey/Orange	66	● - - - ●	16	Orange/Grey	● - - - ●
Violet/Orange	67	● - - - ●	17	Orange/Violet	● - - - ●
Blue/Orange	68	● - - - ●	18	Orange/Blue	● - - - ●
Green/Orange	69	● - - - ●	19	Orange/Green	● - - - ●
Yellow/Orange	70	● - - - ●	20	Orange/Yellow	● - - - ●
Grey/Pink	71	● - - - ●	21	Pink/Grey	● - - - ●
Violet/Pink	72	● - - - ●	22	Pink/Violet	● - - - ●
Blue/Pink	73	● - - - ●	23	Pink/Blue	● - - - ●
Green/Pink	74	● - - - ●	24	Pink/Green	● - - - ●
Yellow/Pink	75	● - - - ●	25	Pink/Yellow	● - - - ●
Orange/Pink	76	● - - - ●	26	Pink/Orange	● - - - ●
Grey/Brown	77	● - - - ●	27	Brown/Grey	● - - - ●
Violet/Brown	78	● - - - ●	28	Brown/Violet	● - - - ●
Blue/Brown	79	● - - - ●	29	Brown/Blue	● - - - ●
Green/Brown	80	● - - - ●	30	Brown/Green	● - - - ●
Yellow/Brown	81	● - - - ●	31	Brown/Yellow	● - - - ●
Orange/Brown	82	● - - - ●	32	Brown/Orange	● - - - ●
Pink/Brown	83	● - - - ●	33	Brown/Pink	● - - - ●
Grey/Tan	84	● - - - ●	34	Tan/Grey	● - - - ●
Violet/Tan	85	● - - - ●	35	Tan/Violet	● - - - ●
Blue/Tan	86	● - - - ●	36	Tan/Blue	● - - - ●
Green/Tan	87	● - - - ●	37	Tan/Green	● - - - ●
Yellow/Tan	88	● - - - ●	38	Tan/Yellow	● - - - ●
Orange/Tan	89	● - - - ●	39	Tan/Orange	● - - - ●
Pink/Tan	90	● - - - ●	40	Tan/Pink	● - - - ●
Brown/Tan	91	● - - - ●	41	Tan/Brown	● - - - ●
Grey/White	92	● - - - ●	42	White/Grey	● - - - ●
Violet/White	93	● - - - ●	43	White/Violet	● - - - ●
Blue/White	94	● - - - ●	44	White/Blue	● - - - ●
Green/White	95	● - - - ●	45	White/Green	● - - - ●
Yellow/White	96	● - - - ●	46	White/Yellow	● - - - ●
Orange/White	97	● - - - ●	47	White/Orange	● - - - ●
Pink/White	98	● - - - ●	48	White/Pink	● - - - ●
Brown/White	99	● - - - ●	49	White/Brown	● - - - ●
Tan/White	100	● - - - ●	50	White/Tan	● - - - ●

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

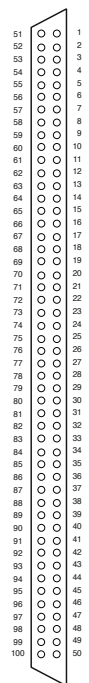
- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

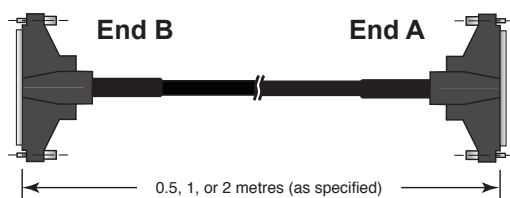
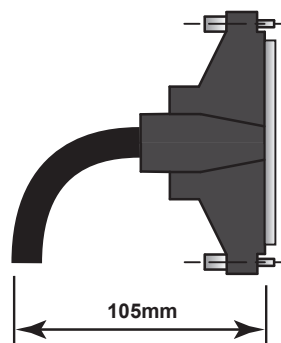
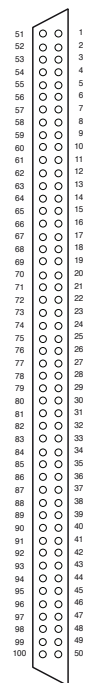
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 2-56 UNC Screwlocks

End B
Male



End A
Male



Wiring Schedule information can be found on the next page of this document.



End B

M

M

End A

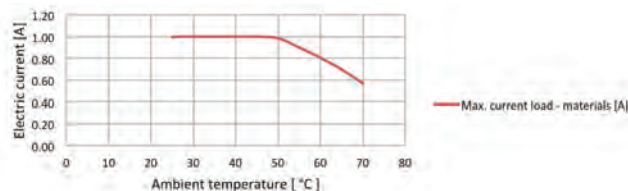
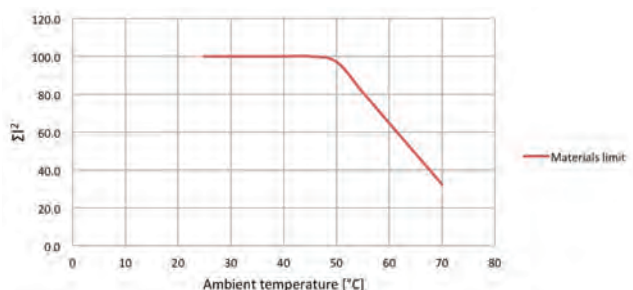
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000M Ω m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35m Ω m
Cable Exit	Rear
Overall Size (Approx)	H85 x W17 x D59mm
Cable Type:	100-Pin twisted pair. with varying left and right hand lays to minimise crosstalk See schedule
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22 Ω /m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Characteristic Plots for A100SMR-100SMR-6A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy,
2-56 UNC Screwlocks, 1A,

Male to Male, 0.5m Long

A100SMR-100SMR-6A050

Male to Male, 1.0m Long

A100SMR-100SMR-6A100

Male to Male, 2.0m Long

A100SMR-100SMR-6A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Red/Brown	51	●	1	Brown/Red	51	●	1	Brown/Red
Black/Tan	52	●	2	Tan/Black	52	●	2	Tan/Black
Red/Tan	53	●	3	Tan/Red	53	●	3	Tan/Red
Black/White	54	●	4	White/Black	54	●	4	White/Black
Red/White	55	●	5	White/Red	55	●	5	White/Red
Grey/Violet	56	●	6	Violet/Grey	56	●	6	Violet/Grey
Grey/Blue	57	●	7	Blue/Grey	57	●	7	Blue/Grey
Violet/Blue	58	●	8	Blue/Violet	58	●	8	Blue/Violet
Grey/Green	59	●	9	Green/Grey	59	●	9	Green/Grey
Violet/Green	60	●	10	Green/Violet	60	●	10	Green/Violet
Blue/Green	61	●	11	Green/Blue	61	●	11	Green/Blue
Grey/Yellow	62	●	12	Yellow/Grey	62	●	12	Yellow/Grey
Violet/Yellow	63	●	13	Yellow/Violet	63	●	13	Yellow/Violet
Blue/Yellow	64	●	14	Yellow/Blue	64	●	14	Yellow/Blue
Green/Yellow	65	●	15	Yellow/Green	65	●	15	Yellow/Green
Grey/Orange	66	●	16	Orange/Grey	66	●	16	Orange/Grey
Violet/Orange	67	●	17	Orange/Violet	67	●	17	Orange/Violet
Blue/Orange	68	●	18	Orange/Blue	68	●	18	Orange/Blue
Green/Orange	69	●	19	Orange/Green	69	●	19	Orange/Green
Yellow/Orange	70	●	20	Orange/Yellow	70	●	20	Orange/Yellow
Grey/Pink	71	●	21	Pink/Grey	71	●	21	Pink/Grey
Violet/Pink	72	●	22	Pink/Violet	72	●	22	Pink/Violet
Blue/Pink	73	●	23	Pink/Blue	73	●	23	Pink/Blue
Green/Pink	74	●	24	Pink/Green	74	●	24	Pink/Green
Yellow/Pink	75	●	25	Pink/Yellow	75	●	25	Pink/Yellow
Orange/Pink	76	●	26	Pink/Orange	76	●	26	Pink/Orange
Grey/Brown	77	●	27	Brown/Grey	77	●	27	Brown/Grey
Violet/Brown	78	●	28	Brown/Violet	78	●	28	Brown/Violet
Blue/Brown	79	●	29	Brown/Blue	79	●	29	Brown/Blue
Green/Brown	80	●	30	Brown/Green	80	●	30	Brown/Green
Yellow/Brown	81	●	31	Brown/Yellow	81	●	31	Brown/Yellow
Orange/Brown	82	●	32	Brown/Orange	82	●	32	Brown/Orange
Pink/Brown	83	●	33	Brown/Pink	83	●	33	Brown/Pink
Grey/Tan	84	●	34	Tan/Grey	84	●	34	Tan/Grey
Violet/Tan	85	●	35	Tan/Violet	85	●	35	Tan/Violet
Blue/Tan	86	●	36	Tan/Blue	86	●	36	Tan/Blue
Green/Tan	87	●	37	Tan/Green	87	●	37	Tan/Green
Yellow/Tan	88	●	38	Tan/Yellow	88	●	38	Tan/Yellow
Orange/Tan	89	●	39	Tan/Orange	89	●	39	Tan/Orange
Pink/Tan	90	●	40	Tan/Pink	90	●	40	Tan/Pink
Brown/Tan	91	●	41	Tan/Brown	91	●	41	Tan/Brown
Grey/White	92	●	42	White/Grey	92	●	42	White/Grey
Violet/White	93	●	43	White/Violet	93	●	43	White/Violet
Blue/White	94	●	44	White/Blue	94	●	44	White/Blue
Green/White	95	●	45	White/Green	95	●	45	White/Green
Yellow/White	96	●	46	White/Yellow	96	●	46	White/Yellow
Orange/White	97	●	47	White/Orange	97	●	47	White/Orange
Pink/White	98	●	48	White/Pink	98	●	48	White/Pink
Brown/White	99	●	49	White/Brown	99	●	49	White/Brown
Tan/White	100	●	50	White/Tan	100	●	50	White/Tan

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

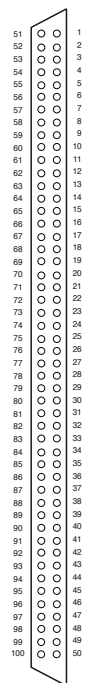
-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

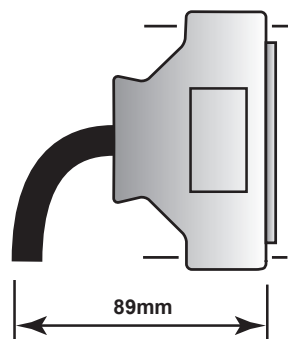
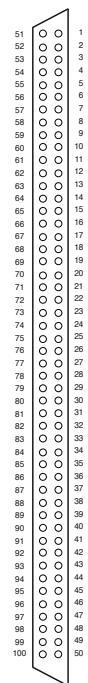
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M2.5 Screwlocks

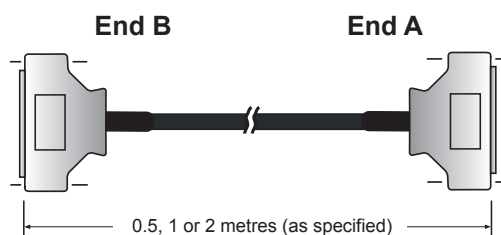
End B
Male



End A
Male

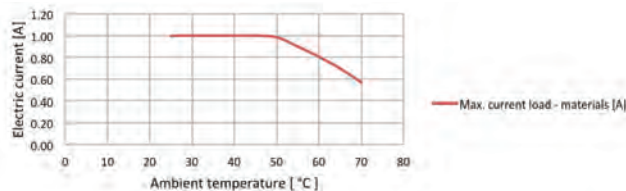
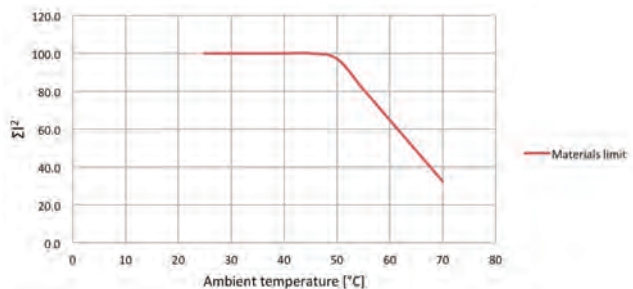


89mm
Minimum cabinet door
closure allowance for
cable bend.



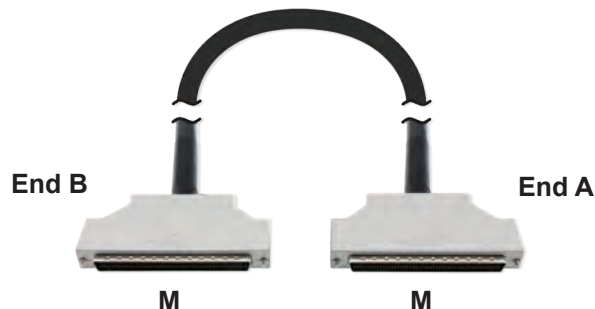
0.5, 1 or 2 metres (as specified)
Wiring Schedule information can be found on the
next page of this document.

Characteristic Plots for A100SMR-100SMR-7A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	M2.5 screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	M2.5 screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩm
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)
Notes:	
	Other cable lengths can be supplied.

Product Order Codes

**100-Pin 1.27mm Pitch Micro-D Cable Assy,
M2.5 Screwlocks, 1A,**

Male to Male, 0.5m Long

A100SMR-100SMR-7A050

Male to Male, 1.0m Long

A100SMR-100SMR-7A100

Male to Male, 2.0m Long

A100SMR-100SMR-7A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Red/Brown	51	●	1	Brown/Red	51	●	1	Brown/Red
Black/Tan	52	●	2	Tan/Black	52	●	2	Tan/Black
Red/Tan	53	●	3	Tan/Red	53	●	3	Tan/Red
Black/White	54	●	4	White/Black	54	●	4	White/Black
Red/White	55	●	5	White/Red	55	●	5	White/Red
Grey/Violet	56	●	6	Violet/Grey	56	●	6	Violet/Grey
Grey/Blue	57	●	7	Blue/Grey	57	●	7	Blue/Grey
Violet/Blue	58	●	8	Blue/Violet	58	●	8	Blue/Violet
Grey/Green	59	●	9	Green/Grey	59	●	9	Green/Grey
Violet/Green	60	●	10	Green/Violet	60	●	10	Green/Violet
Blue/Green	61	●	11	Green/Blue	61	●	11	Green/Blue
Grey/Yellow	62	●	12	Yellow/Grey	62	●	12	Yellow/Grey
Violet/Yellow	63	●	13	Yellow/Violet	63	●	13	Yellow/Violet
Blue/Yellow	64	●	14	Yellow/Blue	64	●	14	Yellow/Blue
Green/Yellow	65	●	15	Yellow/Green	65	●	15	Yellow/Green
Grey/Orange	66	●	16	Orange/Grey	66	●	16	Orange/Grey
Violet/Orange	67	●	17	Orange/Violet	67	●	17	Orange/Violet
Blue/Orange	68	●	18	Orange/Blue	68	●	18	Orange/Blue
Green/Orange	69	●	19	Orange/Green	69	●	19	Orange/Green
Yellow/Orange	70	●	20	Orange/Yellow	70	●	20	Orange/Yellow
Grey/Pink	71	●	21	Pink/Grey	71	●	21	Pink/Grey
Violet/Pink	72	●	22	Pink/Violet	72	●	22	Pink/Violet
Blue/Pink	73	●	23	Pink/Blue	73	●	23	Pink/Blue
Green/Pink	74	●	24	Pink/Green	74	●	24	Pink/Green
Yellow/Pink	75	●	25	Pink/Yellow	75	●	25	Pink/Yellow
Orange/Pink	76	●	26	Pink/Orange	76	●	26	Pink/Orange
Grey/Brown	77	●	27	Brown/Grey	77	●	27	Brown/Grey
Violet/Brown	78	●	28	Brown/Violet	78	●	28	Brown/Violet
Blue/Brown	79	●	29	Brown/Blue	79	●	29	Brown/Blue
Green/Brown	80	●	30	Brown/Green	80	●	30	Brown/Green
Yellow/Brown	81	●	31	Brown/Yellow	81	●	31	Brown/Yellow
Orange/Brown	82	●	32	Brown/Orange	82	●	32	Brown/Orange
Pink/Brown	83	●	33	Brown/Pink	83	●	33	Brown/Pink
Grey/Tan	84	●	34	Tan/Grey	84	●	34	Tan/Grey
Violet/Tan	85	●	35	Tan/Violet	85	●	35	Tan/Violet
Blue/Tan	86	●	36	Tan/Blue	86	●	36	Tan/Blue
Green/Tan	87	●	37	Tan/Green	87	●	37	Tan/Green
Yellow/Tan	88	●	38	Tan/Yellow	88	●	38	Tan/Yellow
Orange/Tan	89	●	39	Tan/Orange	89	●	39	Tan/Orange
Pink/Tan	90	●	40	Tan/Pink	90	●	40	Tan/Pink
Brown/Tan	91	●	41	Tan/Brown	91	●	41	Tan/Brown
Grey/White	92	●	42	White/Grey	92	●	42	White/Grey
Violet/White	93	●	43	White/Violet	93	●	43	White/Violet
Blue/White	94	●	44	White/Blue	94	●	44	White/Blue
Green/White	95	●	45	White/Green	95	●	45	White/Green
Yellow/White	96	●	46	White/Yellow	96	●	46	White/Yellow
Orange/White	97	●	47	White/Orange	97	●	47	White/Orange
Pink/White	98	●	48	White/Pink	98	●	48	White/Pink
Brown/White	99	●	49	White/Brown	99	●	49	White/Brown
Tan/White	100	●	50	White/Tan	100	●	50	White/Tan

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

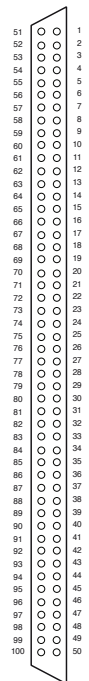
-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

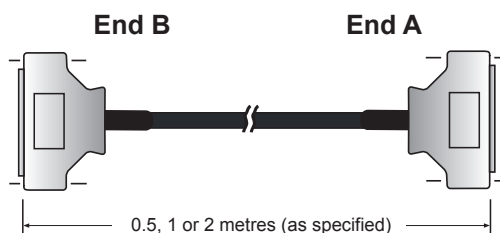
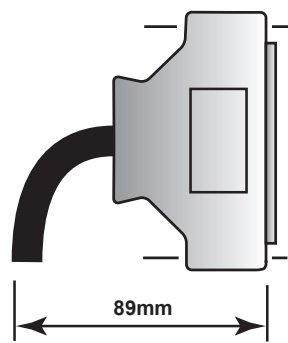
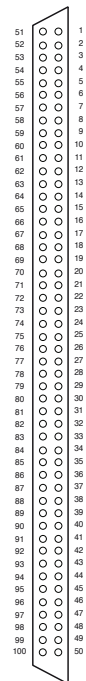
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M3 Screwlocks

End B
Male

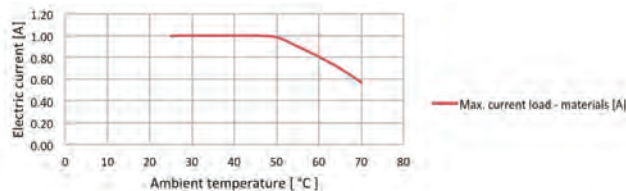
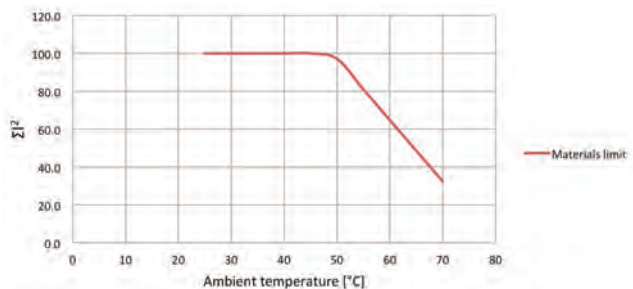


End A
Male



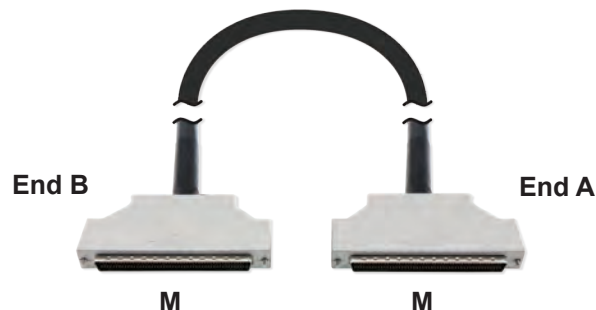
Wiring Schedule information can be found on the next page of this document.

Characteristic Plots for A100SMR-100SMR-8A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	M3 screwlocks, male
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	M3 screwlocks, male
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩm
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Cable Assy,
M3 Screwlocks, 1A,

Male to Male, 0.5m Long

A100SMR-100SMR-8A050

Male to Male, 1.0m Long

A100SMR-100SMR-8A100

Male to Male, 2.0m Long

A100SMR-100SMR-8A200

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Red/Brown	51	●	1	Brown/Red	51	●	1	Brown/Red
Black/Tan	52	●	2	Tan/Black	52	●	2	Tan/Black
Red/Tan	53	●	3	Tan/Red	53	●	3	Tan/Red
Black/White	54	●	4	White/Black	54	●	4	White/Black
Red/White	55	●	5	White/Red	55	●	5	White/Red
Grey/Violet	56	●	6	Violet/Grey	56	●	6	Violet/Grey
Grey/Blue	57	●	7	Blue/Grey	57	●	7	Blue/Grey
Violet/Blue	58	●	8	Blue/Violet	58	●	8	Blue/Violet
Grey/Green	59	●	9	Green/Grey	59	●	9	Green/Grey
Violet/Green	60	●	10	Green/Violet	60	●	10	Green/Violet
Blue/Green	61	●	11	Green/Blue	61	●	11	Green/Blue
Grey/Yellow	62	●	12	Yellow/Grey	62	●	12	Yellow/Grey
Violet/Yellow	63	●	13	Yellow/Violet	63	●	13	Yellow/Violet
Blue/Yellow	64	●	14	Yellow/Blue	64	●	14	Yellow/Blue
Green/Yellow	65	●	15	Yellow/Green	65	●	15	Yellow/Green
Grey/Orange	66	●	16	Orange/Grey	66	●	16	Orange/Grey
Violet/Orange	67	●	17	Orange/Violet	67	●	17	Orange/Violet
Blue/Orange	68	●	18	Orange/Blue	68	●	18	Orange/Blue
Green/Orange	69	●	19	Orange/Green	69	●	19	Orange/Green
Yellow/Orange	70	●	20	Orange/Yellow	70	●	20	Orange/Yellow
Grey/Pink	71	●	21	Pink/Grey	71	●	21	Pink/Grey
Violet/Pink	72	●	22	Pink/Violet	72	●	22	Pink/Violet
Blue/Pink	73	●	23	Pink/Blue	73	●	23	Pink/Blue
Green/Pink	74	●	24	Pink/Green	74	●	24	Pink/Green
Yellow/Pink	75	●	25	Pink/Yellow	75	●	25	Pink/Yellow
Orange/Pink	76	●	26	Pink/Orange	76	●	26	Pink/Orange
Grey/Brown	77	●	27	Brown/Grey	77	●	27	Brown/Grey
Violet/Brown	78	●	28	Brown/Violet	78	●	28	Brown/Violet
Blue/Brown	79	●	29	Brown/Blue	79	●	29	Brown/Blue
Green/Brown	80	●	30	Brown/Green	80	●	30	Brown/Green
Yellow/Brown	81	●	31	Brown/Yellow	81	●	31	Brown/Yellow
Orange/Brown	82	●	32	Brown/Orange	82	●	32	Brown/Orange
Pink/Brown	83	●	33	Brown/Pink	83	●	33	Brown/Pink
Grey/Tan	84	●	34	Tan/Grey	84	●	34	Tan/Grey
Violet/Tan	85	●	35	Tan/Violet	85	●	35	Tan/Violet
Blue/Tan	86	●	36	Tan/Blue	86	●	36	Tan/Blue
Green/Tan	87	●	37	Tan/Green	87	●	37	Tan/Green
Yellow/Tan	88	●	38	Tan/Yellow	88	●	38	Tan/Yellow
Orange/Tan	89	●	39	Tan/Orange	89	●	39	Tan/Orange
Pink/Tan	90	●	40	Tan/Pink	90	●	40	Tan/Pink
Brown/Tan	91	●	41	Tan/Brown	91	●	41	Tan/Brown
Grey/White	92	●	42	White/Grey	92	●	42	White/Grey
Violet/White	93	●	43	White/Violet	93	●	43	White/Violet
Blue/White	94	●	44	White/Blue	94	●	44	White/Blue
Green/White	95	●	45	White/Green	95	●	45	White/Green
Yellow/White	96	●	46	White/Yellow	96	●	46	White/Yellow
Orange/White	97	●	47	White/Orange	97	●	47	White/Orange
Pink/White	98	●	48	White/Pink	98	●	48	White/Pink
Brown/White	99	●	49	White/Brown	99	●	49	White/Brown
Tan/White	100	●	50	White/Tan	100	●	50	White/Tan

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks
- Wires Color Coded to Ensure Easy Connection



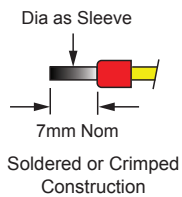
End B

F

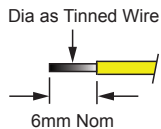
End A

End B Options

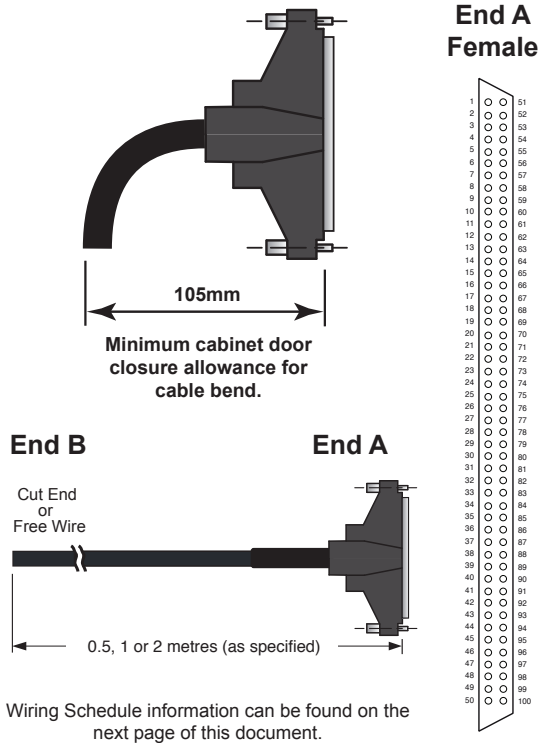
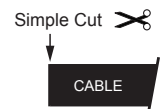
Ferrules



Tinned End



Cut End



Wiring Schedule information can be found on the next page of this document.

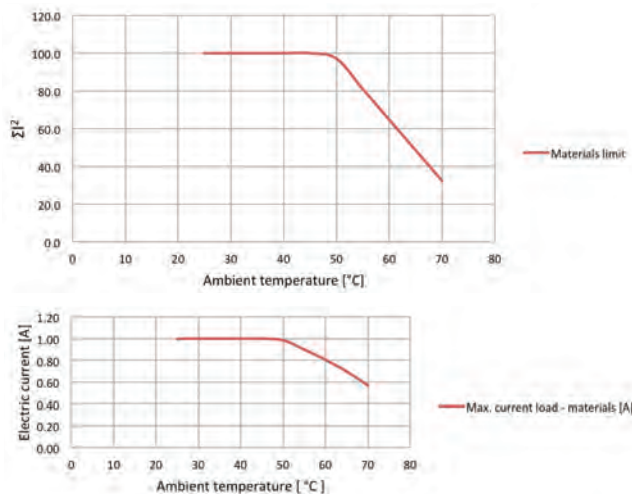
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nom (Not cut end)
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H85 x W16.5 x D53mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for 40-972B-100-1m and A100SFR



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to Unterminated Cable Assy, 4-40UNC Screwlocks, 1A,

Female to Ferrules, 0.5m

[A100SFR-F-5A050](#)

Female to Ferrules, 1.0m

[A100SFR-F-5A100](#)

Female to Ferrules, 2.0m

[A100SFR-F-5A200](#)

Female to Tinned End, 0.5m

[A100SFR-T-5A050](#)

Female to Tinned End, 1.0m

[A100SFR-T-5A100](#)

Female to Tinned End, 2.0m

[A100SFR-T-5A200](#)

Female to Cut End, 0.5m

[40-972B-100-0.5m-FU](#)

Female to Cut End, 1.0m

[40-972B-100-1m-FU](#)

Female to Cut End, 2.0m

[40-972B-100-2m-FU](#)

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy Female to Unterminated

End A

Wire Color	Pin		Pin	Wire Color
Brown/Red	1	● --- ●	51	Red/Brown
Tan/Black	2	● --- ●	52	Black/Tan
Tan/Red	3	● --- ●	53	Red/Tan
White/Black	4	● --- ●	54	Black/White
White/Red	5	● --- ●	55	Red/White
Violet/Grey	6	● --- ●	56	Grey/Violet
Blue/Grey	7	● --- ●	57	Grey/Blue
Blue/Violet	8	● --- ●	58	Violet/Blue
Green/Grey	9	● --- ●	59	Grey/Green
Green/Violet	10	● --- ●	60	Violet/Green
Green/Blue	11	● --- ●	61	Blue/Green
Yellow/Grey	12	● --- ●	62	Grey/Yellow
Yellow/Violet	13	● --- ●	63	Violet/Yellow
Yellow/Blue	14	● --- ●	64	Blue/Yellow
Yellow/Green	15	● --- ●	65	Green/Yellow
Orange/Grey	16	● --- ●	66	Grey/Orange
Orange/Violet	17	● --- ●	67	Violet/Orange
Orange/Blue	18	● --- ●	68	Blue/Orange
Orange/Green	19	● --- ●	69	Green/Orange
Orange/Yellow	20	● --- ●	70	Yellow/Orange
Pink/Grey	21	● --- ●	71	Grey/Pink
Pink/Violet	22	● --- ●	72	Violet/Pink
Pink/Blue	23	● --- ●	73	Blue/Pink
Pink/Green	24	● --- ●	74	Green/Pink
Pink/Yellow	25	● --- ●	75	Yellow/Pink
Pink/Orange	26	● --- ●	76	Orange/Pink
Brown/Grey	27	● --- ●	77	Grey/Brown
Brown/Violet	28	● --- ●	78	Violet/Brown
Brown/Blue	29	● --- ●	79	Blue/Brown
Brown/Green	30	● --- ●	80	Green/Brown
Brown/Yellow	31	● --- ●	81	Yellow/Brown
Brown/Orange	32	● --- ●	82	Orange/Brown
Brown/Pink	33	● --- ●	83	Pink/Brown
Tan/Grey	34	● --- ●	84	Grey/Tan
Tan/Violet	35	● --- ●	85	Violet/Tan
Tan/Blue	36	● --- ●	86	Blue/Tan
Tan/Green	37	● --- ●	87	Green/Tan
Tan/Yellow	38	● --- ●	88	Yellow/Tan
Tan/Orange	39	● --- ●	89	Orange/Tan
Tan/Pink	40	● --- ●	90	Pink/Tan
Tan/Brown	41	● --- ●	91	Brown/Tan
White/Grey	42	● --- ●	92	Grey/White
White/Violet	43	● --- ●	93	Violet/White
White/Blue	44	● --- ●	94	Blue/White
White/Green	45	● --- ●	95	Green/White
White/Yellow	46	● --- ●	96	Yellow/White
White/Orange	47	● --- ●	97	Orange/White
White/Pink	48	● --- ●	98	Pink/White
White/Brown	49	● --- ●	99	Brown/White
White/Tan	50	● --- ●	100	Tan/White

**100-Pin 1.27mm Pitch Micro-D Female Connector
(Mating Face)**

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 2-56 UNC Screwlocks
- Wires Color Coded to Ensure Easy Connection



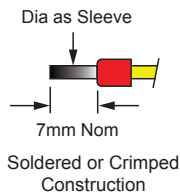
End B

F

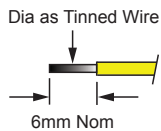
End A

End B Options

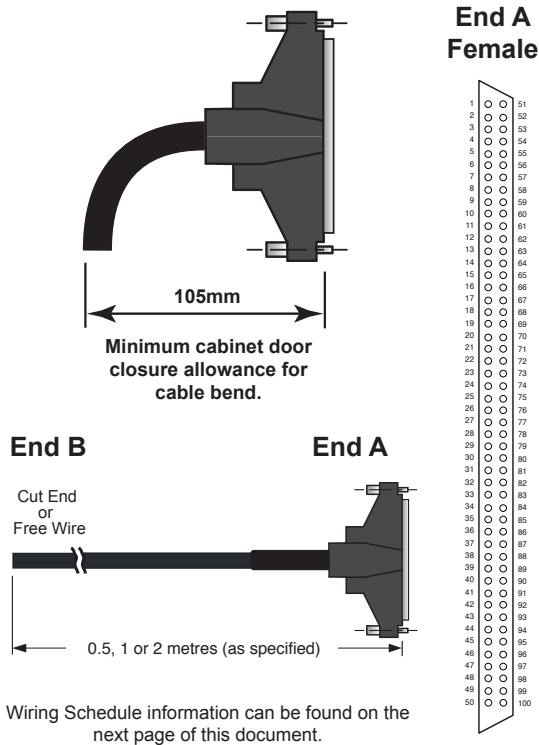
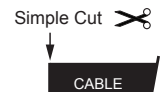
Ferrules



Tinned End



Cut End

End A
Female

End B

End A

Wiring Schedule information can be found on the next page of this document.

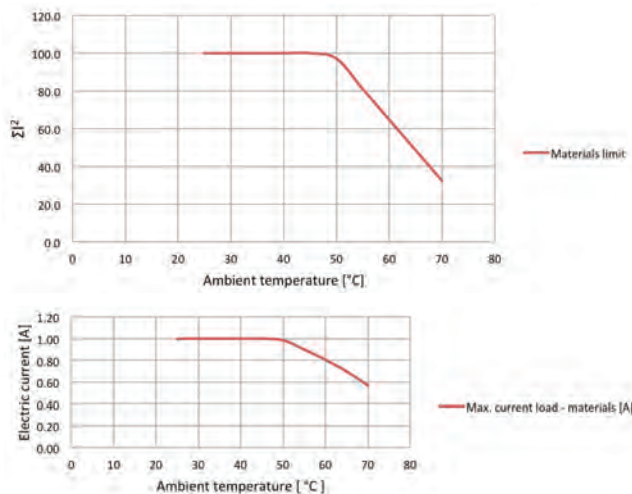
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Unterminated End (End B):	130mm nom (Not cut end)
Free Wire Length	To connector pins
Individual Wire Labelling	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H85 x W16.5 x D53mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for A100SFR



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to Unterminated Cable Assy, 2-56 UNC Screwlocks, 1A,

Female to Ferrules, 0.5m [A100SFR-F-6A050](#)
 Female to Ferrules, 1.0m [A100SFR-F-6A100](#)
 Female to Ferrules, 2.0m [A100SFR-F-6A200](#)

Female to Tinned End, 0.5m [A100SFR-T-6A050](#)
 Female to Tinned End, 1.0m [A100SFR-T-6A100](#)
 Female to Tinned End, 2.0m [A100SFR-T-6A200](#)

Female to Cut End, 0.5m [A100SFR-C-6A050](#)
 Female to Cut End, 1.0m [A100SFR-C-6A100](#)
 Female to Cut End, 2.0m [A100SFR-C-6A200](#)

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy Female to Unterminated

End A

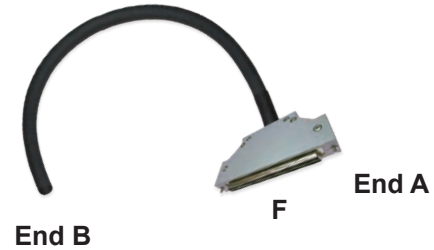
Wire Color	Pin		Pin	Wire Color
Brown/Red	1	● --- ●	51	Red/Brown
Tan/Black	2	● --- ●	52	Black/Tan
Tan/Red	3	● --- ●	53	Red/Tan
White/Black	4	● --- ●	54	Black/White
White/Red	5	● --- ●	55	Red/White
Violet/Grey	6	● --- ●	56	Grey/Violet
Blue/Grey	7	● --- ●	57	Grey/Blue
Blue/Violet	8	● --- ●	58	Violet/Blue
Green/Grey	9	● --- ●	59	Grey/Green
Green/Violet	10	● --- ●	60	Violet/Green
Green/Blue	11	● --- ●	61	Blue/Green
Yellow/Grey	12	● --- ●	62	Grey/Yellow
Yellow/Violet	13	● --- ●	63	Violet/Yellow
Yellow/Blue	14	● --- ●	64	Blue/Yellow
Yellow/Green	15	● --- ●	65	Green/Yellow
Orange/Grey	16	● --- ●	66	Grey/Orange
Orange/Violet	17	● --- ●	67	Violet/Orange
Orange/Blue	18	● --- ●	68	Blue/Orange
Orange/Green	19	● --- ●	69	Green/Orange
Orange/Yellow	20	● --- ●	70	Yellow/Orange
Pink/Grey	21	● --- ●	71	Grey/Pink
Pink/Violet	22	● --- ●	72	Violet/Pink
Pink/Blue	23	● --- ●	73	Blue/Pink
Pink/Green	24	● --- ●	74	Green/Pink
Pink/Yellow	25	● --- ●	75	Yellow/Pink
Pink/Orange	26	● --- ●	76	Orange/Pink
Brown/Grey	27	● --- ●	77	Grey/Brown
Brown/Violet	28	● --- ●	78	Violet/Brown
Brown/Blue	29	● --- ●	79	Blue/Brown
Brown/Green	30	● --- ●	80	Green/Brown
Brown/Yellow	31	● --- ●	81	Yellow/Brown
Brown/Orange	32	● --- ●	82	Orange/Brown
Brown/Pink	33	● --- ●	83	Pink/Brown
Tan/Grey	34	● --- ●	84	Grey/Tan
Tan/Violet	35	● --- ●	85	Violet/Tan
Tan/Blue	36	● --- ●	86	Blue/Tan
Tan/Green	37	● --- ●	87	Green/Tan
Tan/Yellow	38	● --- ●	88	Yellow/Tan
Tan/Orange	39	● --- ●	89	Orange/Tan
Tan/Pink	40	● --- ●	90	Pink/Tan
Tan/Brown	41	● --- ●	91	Brown/Tan
White/Grey	42	● --- ●	92	Grey/White
White/Violet	43	● --- ●	93	Violet/White
White/Blue	44	● --- ●	94	Blue/White
White/Green	45	● --- ●	95	Green/White
White/Yellow	46	● --- ●	96	Yellow/White
White/Orange	47	● --- ●	97	Orange/White
White/Pink	48	● --- ●	98	Pink/White
White/Brown	49	● --- ●	99	Brown/White
White/Tan	50	● --- ●	100	Tan/White

**100-Pin 1.27mm Pitch Micro-D Female Connector
(Mating Face)**

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

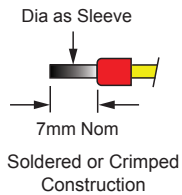
100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M2.5 Screwlocks
- Wires Color Coded to Ensure Easy Connection

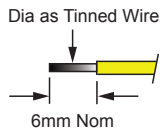


End B Options

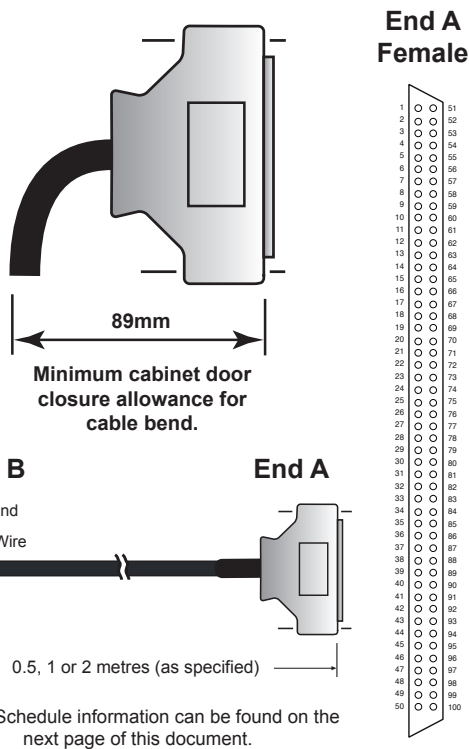
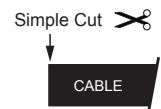
Ferrules



Tinned End



Cut End



Wiring Schedule information can be found on the next page of this document.

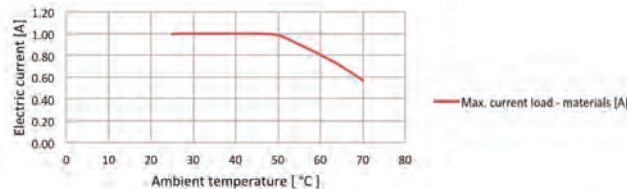
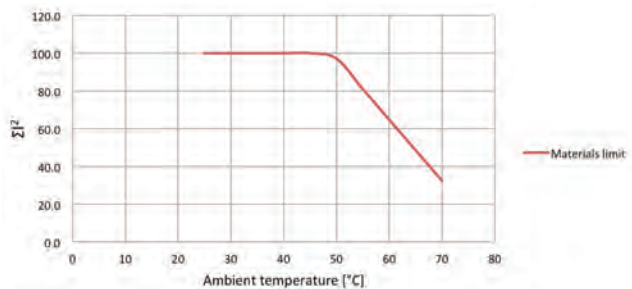
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	M2.5 screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nom (Not cut end)
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for A100SFR



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to Unterminated Cable Assy, M2.5 Screwlocks, 1A,

Female to Ferrules, 0.5m [A100SFR-F-7A050](#)
 Female to Ferrules, 1.0m [A100SFR-F-7A100](#)
 Female to Ferrules, 2.0m [A100SFR-F-7A200](#)

Female to Tinned End, 0.5m [A100SFR-T-7A050](#)
 Female to Tinned End, 1.0m [A100SFR-T-7A100](#)
 Female to Tinned End, 2.0m [A100SFR-T-7A200](#)

Female to Cut End, 0.5m [A100SFR-C-7A050](#)
 Female to Cut End, 1.0m [A100SFR-C-7A100](#)
 Female to Cut End, 2.0m [A100SFR-C-7A200](#)

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy Female to Unterminated

End A

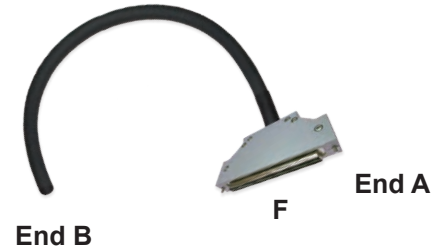
Wire Color	Pin		Pin	Wire Color
Brown/Red	1	● --- ●	51	Red/Brown
Tan/Black	2	● --- ●	52	Black/Tan
Tan/Red	3	● --- ●	53	Red/Tan
White/Black	4	● --- ●	54	Black/White
White/Red	5	● --- ●	55	Red/White
Violet/Grey	6	● --- ●	56	Grey/Violet
Blue/Grey	7	● --- ●	57	Grey/Blue
Blue/Violet	8	● --- ●	58	Violet/Blue
Green/Grey	9	● --- ●	59	Grey/Green
Green/Violet	10	● --- ●	60	Violet/Green
Green/Blue	11	● --- ●	61	Blue/Green
Yellow/Grey	12	● --- ●	62	Grey/Yellow
Yellow/Violet	13	● --- ●	63	Violet/Yellow
Yellow/Blue	14	● --- ●	64	Blue/Yellow
Yellow/Green	15	● --- ●	65	Green/Yellow
Orange/Grey	16	● --- ●	66	Grey/Orange
Orange/Violet	17	● --- ●	67	Violet/Orange
Orange/Blue	18	● --- ●	68	Blue/Orange
Orange/Green	19	● --- ●	69	Green/Orange
Orange/Yellow	20	● --- ●	70	Yellow/Orange
Pink/Grey	21	● --- ●	71	Grey/Pink
Pink/Violet	22	● --- ●	72	Violet/Pink
Pink/Blue	23	● --- ●	73	Blue/Pink
Pink/Green	24	● --- ●	74	Green/Pink
Pink/Yellow	25	● --- ●	75	Yellow/Pink
Pink/Orange	26	● --- ●	76	Orange/Pink
Brown/Grey	27	● --- ●	77	Grey/Brown
Brown/Violet	28	● --- ●	78	Violet/Brown
Brown/Blue	29	● --- ●	79	Blue/Brown
Brown/Green	30	● --- ●	80	Green/Brown
Brown/Yellow	31	● --- ●	81	Yellow/Brown
Brown/Orange	32	● --- ●	82	Orange/Brown
Brown/Pink	33	● --- ●	83	Pink/Brown
Tan/Grey	34	● --- ●	84	Grey/Tan
Tan/Violet	35	● --- ●	85	Violet/Tan
Tan/Blue	36	● --- ●	86	Blue/Tan
Tan/Green	37	● --- ●	87	Green/Tan
Tan/Yellow	38	● --- ●	88	Yellow/Tan
Tan/Orange	39	● --- ●	89	Orange/Tan
Tan/Pink	40	● --- ●	90	Pink/Tan
Tan/Brown	41	● --- ●	91	Brown/Tan
White/Grey	42	● --- ●	92	Grey/White
White/Violet	43	● --- ●	93	Violet/White
White/Blue	44	● --- ●	94	Blue/White
White/Green	45	● --- ●	95	Green/White
White/Yellow	46	● --- ●	96	Yellow/White
White/Orange	47	● --- ●	97	Orange/White
White/Pink	48	● --- ●	98	Pink/White
White/Brown	49	● --- ●	99	Brown/White
White/Tan	50	● --- ●	100	Tan/White

**100-Pin 1.27mm Pitch Micro-D Female Connector
(Mating Face)**

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

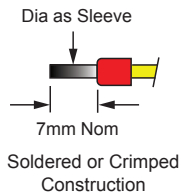
100-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M3 Screwlocks
- Wires Color Coded to Ensure Easy Connection

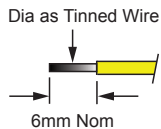


End B Options

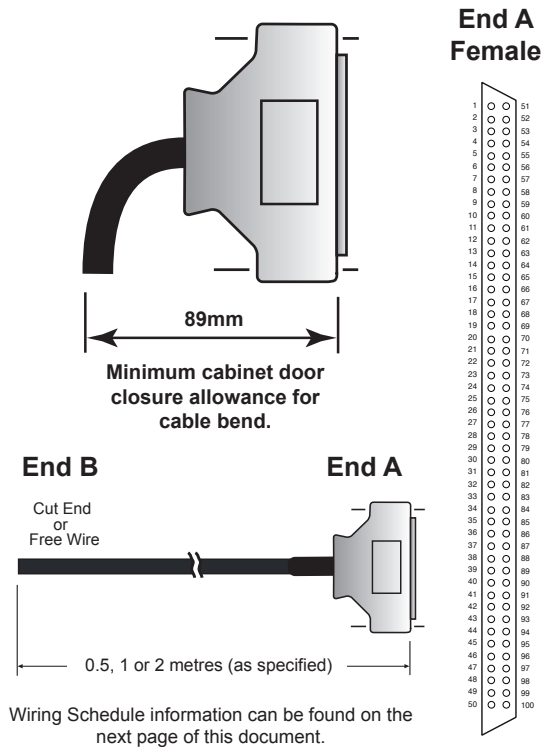
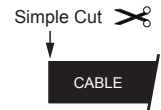
Ferrules



Tinned End



Cut End



Wiring Schedule information can be found on the next page of this document.

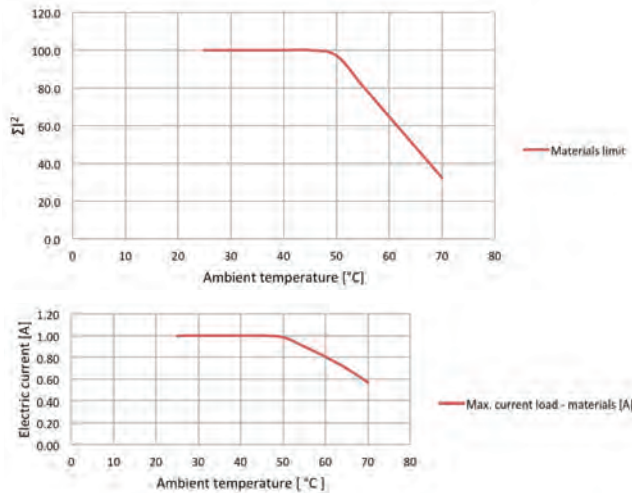
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	M3 screwlocks, male
Unterminated End (End B):	130mm nom (Not cut end)
Free Wire Length	To connector pins
Individual Wire Labelling	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for A100SFR



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to Unterminated Cable Assy, M3 Screwlocks, 1A,

Female to Ferrules, 0.5m [A100SFR-F-8A050](#)

Female to Ferrules, 1.0m [A100SFR-F-8A100](#)

Female to Ferrules, 2.0m [A100SFR-F-8A200](#)

Female to Tinned End, 0.5m [A100SFR-T-8A050](#)

Female to Tinned End, 1.0m [A100SFR-T-8A100](#)

Female to Tinned End, 2.0m [A100SFR-T-8A200](#)

Female to Cut End, 0.5m [A100SFR-C-8A050](#)

Female to Cut End, 1.0m [A100SFR-C-8A100](#)

Female to Cut End, 2.0m [A100SFR-C-8A200](#)

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy Female to Unterminated

End A

Wire Color	Pin		Pin	Wire Color
Brown/Red	1	● --- ●	51	Red/Brown
Tan/Black	2	● --- ●	52	Black/Tan
Tan/Red	3	● --- ●	53	Red/Tan
White/Black	4	● --- ●	54	Black/White
White/Red	5	● --- ●	55	Red/White
Violet/Grey	6	● --- ●	56	Grey/Violet
Blue/Grey	7	● --- ●	57	Grey/Blue
Blue/Violet	8	● --- ●	58	Violet/Blue
Green/Grey	9	● --- ●	59	Grey/Green
Green/Violet	10	● --- ●	60	Violet/Green
Green/Blue	11	● --- ●	61	Blue/Green
Yellow/Grey	12	● --- ●	62	Grey/Yellow
Yellow/Violet	13	● --- ●	63	Violet/Yellow
Yellow/Blue	14	● --- ●	64	Blue/Yellow
Yellow/Green	15	● --- ●	65	Green/Yellow
Orange/Grey	16	● --- ●	66	Grey/Orange
Orange/Violet	17	● --- ●	67	Violet/Orange
Orange/Blue	18	● --- ●	68	Blue/Orange
Orange/Green	19	● --- ●	69	Green/Orange
Orange/Yellow	20	● --- ●	70	Yellow/Orange
Pink/Grey	21	● --- ●	71	Grey/Pink
Pink/Violet	22	● --- ●	72	Violet/Pink
Pink/Blue	23	● --- ●	73	Blue/Pink
Pink/Green	24	● --- ●	74	Green/Pink
Pink/Yellow	25	● --- ●	75	Yellow/Pink
Pink/Orange	26	● --- ●	76	Orange/Pink
Brown/Grey	27	● --- ●	77	Grey/Brown
Brown/Violet	28	● --- ●	78	Violet/Brown
Brown/Blue	29	● --- ●	79	Blue/Brown
Brown/Green	30	● --- ●	80	Green/Brown
Brown/Yellow	31	● --- ●	81	Yellow/Brown
Brown/Orange	32	● --- ●	82	Orange/Brown
Brown/Pink	33	● --- ●	83	Pink/Brown
Tan/Grey	34	● --- ●	84	Grey/Tan
Tan/Violet	35	● --- ●	85	Violet/Tan
Tan/Blue	36	● --- ●	86	Blue/Tan
Tan/Green	37	● --- ●	87	Green/Tan
Tan/Yellow	38	● --- ●	88	Yellow/Tan
Tan/Orange	39	● --- ●	89	Orange/Tan
Tan/Pink	40	● --- ●	90	Pink/Tan
Tan/Brown	41	● --- ●	91	Brown/Tan
White/Grey	42	● --- ●	92	Grey/White
White/Violet	43	● --- ●	93	Violet/White
White/Blue	44	● --- ●	94	Blue/White
White/Green	45	● --- ●	95	Green/White
White/Yellow	46	● --- ●	96	Yellow/White
White/Orange	47	● --- ●	97	Orange/White
White/Pink	48	● --- ●	98	Pink/White
White/Brown	49	● --- ●	99	Brown/White
White/Tan	50	● --- ●	100	Tan/White

**100-Pin 1.27mm Pitch Micro-D Female Connector
(Mating Face)**

-- Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Unterminated

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks
- Wires Color Coded to Ensure Easy Connection



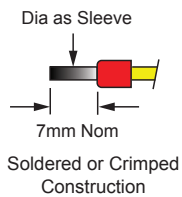
End B

M

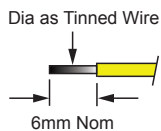
End A

End B Options

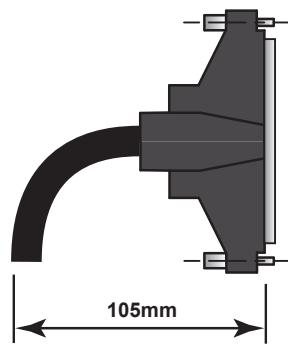
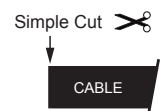
Ferrules



Tinned End



Cut End



Minimum cabinet door
closure allowance for
cable bend.

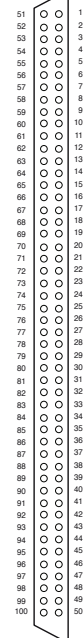
End B

End A

Cut End
or
Free Wire

0.5, 1 or 2 metres (as specified)

Wiring Schedule information can be found on the
next page of this document.

End A
Male

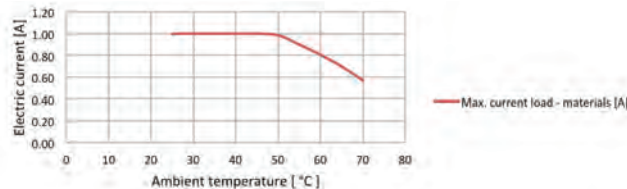
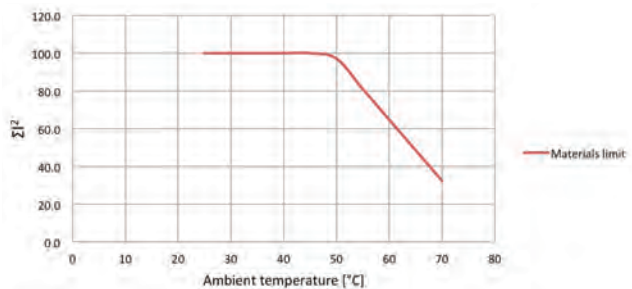
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nom (Not cut end)
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H85 x W16.5 x D53mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for 40-972B-100-1m and A100SMR



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to Unterminated Cable Assy, 4-40UNC Screwlocks, 1A,

Male to Ferrules, 0.5m

[A100SMR-F-5A050](#)

Male to Ferrules, 1.0m

[A100SMR-F-5A100](#)

Male to Ferrules, 2.0m

[A100SMR-F-5A200](#)

Male to Tinned End, 0.5m

[A100SMR-T-5A050](#)

Male to Tinned End, 1.0m

[A100SMR-T-5A100](#)

Male to Tinned End, 2.0m

[A100SMR-T-5A200](#)

Male to Cut End, 0.5m

[40-972B-100-0.5m-MU](#)

Male to Cut End, 1.0m

[40-972B-100-1m-MU](#)

Male to Cut End, 2.0m

[40-972B-100-2m-MU](#)

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy Male to Unterminated

End A

Wire Color	Pin		Pin	Wire Color
Red/Brown	51	● - - - ●	1	Brown/Red
Black/Tan	52	● - - - ●	2	Tan/Black
Red/Tan	53	● - - - ●	3	Tan/Red
Black/White	54	● - - - ●	4	White/Black
Red/White	55	● - - - ●	5	White/Red
Grey/Violet	56	● - - - ●	6	Violet/Grey
Grey/Blue	57	● - - - ●	7	Blue/Grey
Violet/Blue	58	● - - - ●	8	Blue/Violet
Grey/Green	59	● - - - ●	9	Green/Grey
Violet/Green	60	● - - - ●	10	Green/Violet
Blue/Green	61	● - - - ●	11	Green/Blue
Grey/Yellow	62	● - - - ●	12	Yellow/Grey
Violet/Yellow	63	● - - - ●	13	Yellow/Violet
Blue/Yellow	64	● - - - ●	14	Yellow/Blue
Green/Yellow	65	● - - - ●	15	Yellow/Green
Grey/Orange	66	● - - - ●	16	Orange/Grey
Violet/Orange	67	● - - - ●	17	Orange/Violet
Blue/Orange	68	● - - - ●	18	Orange/Blue
Green/Orange	69	● - - - ●	19	Orange/Green
Yellow/Orange	70	● - - - ●	20	Orange/Yellow
Grey/Pink	71	● - - - ●	21	Pink/Grey
Violet/Pink	72	● - - - ●	22	Pink/Violet
Blue/Pink	73	● - - - ●	23	Pink/Blue
Green/Pink	74	● - - - ●	24	Pink/Green
Yellow/Pink	75	● - - - ●	25	Pink/Yellow
Orange/Pink	76	● - - - ●	26	Pink/Orange
Grey/Brown	77	● - - - ●	27	Brown/Grey
Violet/Brown	78	● - - - ●	28	Brown/Violet
Blue/Brown	79	● - - - ●	29	Brown/Blue
Green/Brown	80	● - - - ●	30	Brown/Green
Yellow/Brown	81	● - - - ●	31	Brown/Yellow
Orange/Brown	82	● - - - ●	32	Brown/Orange
Pink/Brown	83	● - - - ●	33	Brown/Pink
Grey/Tan	84	● - - - ●	34	Tan/Grey
Violet/Tan	85	● - - - ●	35	Tan/Violet
Blue/Tan	86	● - - - ●	36	Tan/Blue
Green/Tan	87	● - - - ●	37	Tan/Green
Yellow/Tan	88	● - - - ●	38	Tan/Yellow
Orange/Tan	89	● - - - ●	39	Tan/Orange
Pink/Tan	90	● - - - ●	40	Tan/Pink
Brown/Tan	91	● - - - ●	41	Tan/Brown
Grey/White	92	● - - - ●	42	White/Grey
Violet/White	93	● - - - ●	43	White/Violet
Blue/White	94	● - - - ●	44	White/Blue
Green/White	95	● - - - ●	45	White/Green
Yellow/White	96	● - - - ●	46	White/Yellow
Orange/White	97	● - - - ●	47	White/Orange
Pink/White	98	● - - - ●	48	White/Pink
Brown/White	99	● - - - ●	49	White/Brown
Tan/White	100	● - - - ●	50	White/Tan

**100-Pin 1.27mm Pitch Micro-D Male Connector
(Mating Face)**

- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Unterminated

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 2-56 UNC Screwlocks
- Wires Color Coded to Ensure Easy Connection



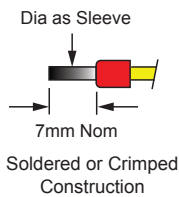
End B

M

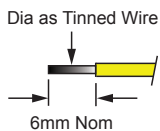
End A

End B Options

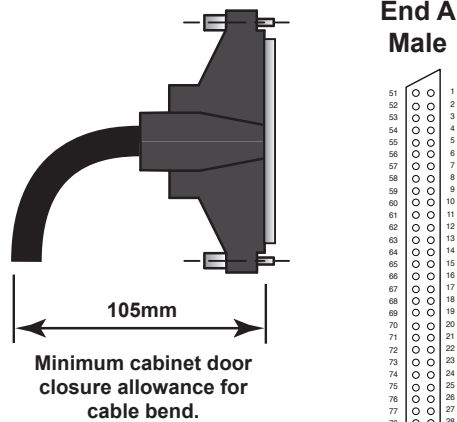
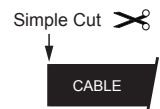
Ferrules



Tinned End



Cut End



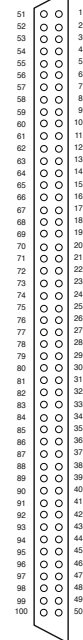
End B

End A

Cut End
or
Free Wire

0.5, 1 or 2 metres (as specified)

Wiring Schedule information can be found on the next page of this document.

End A
Male

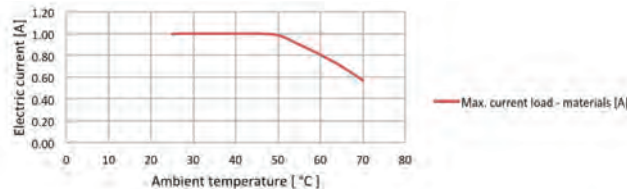
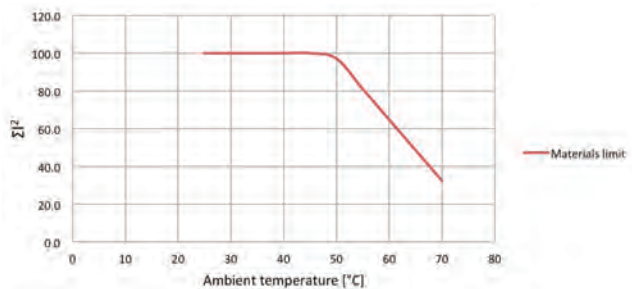
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks, male
Unterminated End (End B):	130mm nom (Not cut end)
Free Wire Length	To connector pins
Individual Wire Labelling	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H85 x W16.5 x D53mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for A100SMR



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to Unterminated Cable Assy, 2-56 UNC Screwlocks, 1A,

Male to Ferrules, 0.5m

[A100SMR-F-6A050](#)

Male to Ferrules, 1.0m

[A100SMR-F-6A100](#)

Male to Ferrules, 2.0m

[A100SMR-F-6A200](#)

Male to Tinned End, 0.5m

[A100SMR-T-6A050](#)

Male to Tinned End, 1.0m

[A100SMR-T-6A100](#)

Male to Tinned End, 2.0m

[A100SMR-T-6A200](#)

Male to Cut End, 0.5m

[A100SMR-C-6A050](#)

Male to Cut End, 1.0m

[A100SMR-C-6A100](#)

Male to Cut End, 2.0m

[A100SMR-C-6A200](#)

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy Male to Unterminated

End A

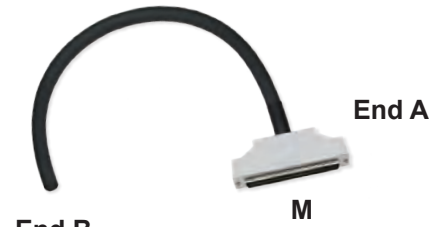
Wire Color	Pin		Pin	Wire Color
Red/Brown	51	● - - ●	1	Brown/Red
Black/Tan	52	● - - ●	2	Tan/Black
Red/Tan	53	● - - ●	3	Tan/Red
Black/White	54	● - - ●	4	White/Black
Red/White	55	● - - ●	5	White/Red
Grey/Violet	56	● - - ●	6	Violet/Grey
Grey/Blue	57	● - - ●	7	Blue/Grey
Violet/Blue	58	● - - ●	8	Blue/Violet
Grey/Green	59	● - - ●	9	Green/Grey
Violet/Green	60	● - - ●	10	Green/Violet
Blue/Green	61	● - - ●	11	Green/Blue
Grey/Yellow	62	● - - ●	12	Yellow/Grey
Violet/Yellow	63	● - - ●	13	Yellow/Violet
Blue/Yellow	64	● - - ●	14	Yellow/Blue
Green/Yellow	65	● - - ●	15	Yellow/Green
Grey/Orange	66	● - - ●	16	Orange/Grey
Violet/Orange	67	● - - ●	17	Orange/Violet
Blue/Orange	68	● - - ●	18	Orange/Blue
Green/Orange	69	● - - ●	19	Orange/Green
Yellow/Orange	70	● - - ●	20	Orange/Yellow
Grey/Pink	71	● - - ●	21	Pink/Grey
Violet/Pink	72	● - - ●	22	Pink/Violet
Blue/Pink	73	● - - ●	23	Pink/Blue
Green/Pink	74	● - - ●	24	Pink/Green
Yellow/Pink	75	● - - ●	25	Pink/Yellow
Orange/Pink	76	● - - ●	26	Pink/Orange
Grey/Brown	77	● - - ●	27	Brown/Grey
Violet/Brown	78	● - - ●	28	Brown/Violet
Blue/Brown	79	● - - ●	29	Brown/Blue
Green/Brown	80	● - - ●	30	Brown/Green
Yellow/Brown	81	● - - ●	31	Brown/Yellow
Orange/Brown	82	● - - ●	32	Brown/Orange
Pink/Brown	83	● - - ●	33	Brown/Pink
Grey/Tan	84	● - - ●	34	Tan/Grey
Violet/Tan	85	● - - ●	35	Tan/Violet
Blue/Tan	86	● - - ●	36	Tan/Blue
Green/Tan	87	● - - ●	37	Tan/Green
Yellow/Tan	88	● - - ●	38	Tan/Yellow
Orange/Tan	89	● - - ●	39	Tan/Orange
Pink/Tan	90	● - - ●	40	Tan/Pink
Brown/Tan	91	● - - ●	41	Tan/Brown
Grey/White	92	● - - ●	42	White/Grey
Violet/White	93	● - - ●	43	White/Violet
Blue/White	94	● - - ●	44	White/Blue
Green/White	95	● - - ●	45	White/Green
Yellow/White	96	● - - ●	46	White/Yellow
Orange/White	97	● - - ●	47	White/Orange
Pink/White	98	● - - ●	48	White/Pink
Brown/White	99	● - - ●	49	White/Brown
Tan/White	100	● - - ●	50	White/Tan

**100-Pin 1.27mm Pitch Micro-D Male Connector
(Mating Face)**

- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

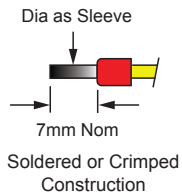
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Unterminated

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M2.5 Screwlocks
- Wires Color Coded to Ensure Easy Connection

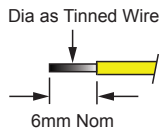


End B Options

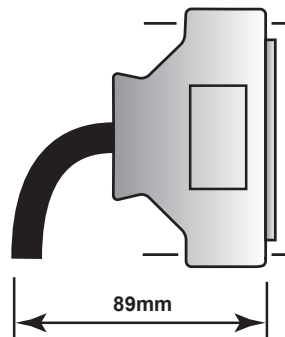
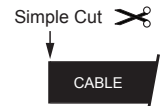
Ferrules



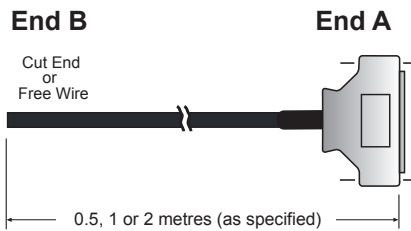
Tinned End



Cut End

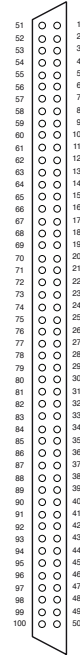


Minimum cabinet door closure allowance for cable bend.



Wiring Schedule information can be found on the next page of this document.

End A Male



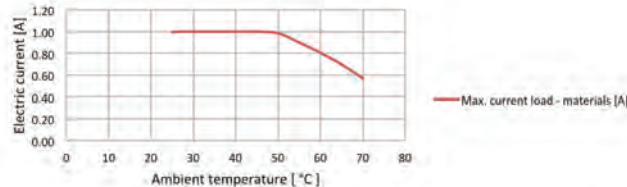
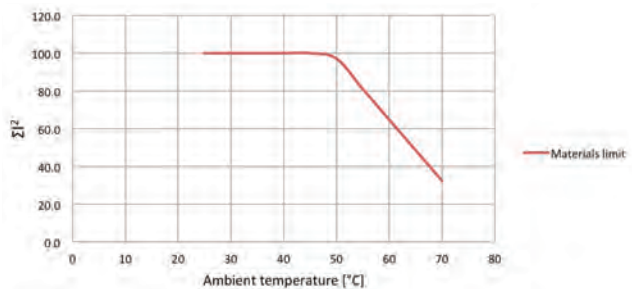
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	M2.5 screwlocks, male
Unterminated End (End B):	130mm nom (Not cut end)
Free Wire Length	To connector pins
Individual Wire Labelling	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for A100SMR



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to Unterminated Cable Assy, M2.5 Screwlocks, 1A,

Male to Ferrules, 0.5m [A100SMR-F-7A050](#)
 Male to Ferrules, 1.0m [A100SMR-F-7A100](#)
 Male to Ferrules, 2.0m [A100SMR-F-7A200](#)

Male to Tinned End, 0.5m [A100SMR-T-7A050](#)
 Male to Tinned End, 1.0m [A100SMR-T-7A100](#)
 Male to Tinned End, 2.0m [A100SMR-T-7A200](#)

Male to Cut End, 0.5m [A100SMR-C-7A050](#)
 Male to Cut End, 1.0m [A100SMR-C-7A100](#)
 Male to Cut End, 2.0m [A100SMR-C-7A200](#)

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy Male to Unterminated

End A

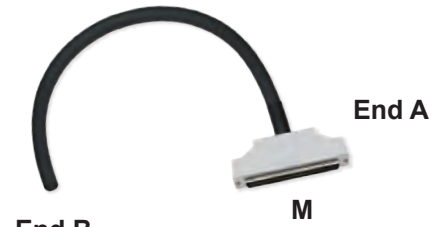
Wire Color	Pin		Pin	Wire Color
Red/Brown	51	● - - ●	1	Brown/Red
Black/Tan	52	● - - ●	2	Tan/Black
Red/Tan	53	● - - ●	3	Tan/Red
Black/White	54	● - - ●	4	White/Black
Red/White	55	● - - ●	5	White/Red
Grey/Violet	56	● - - ●	6	Violet/Grey
Grey/Blue	57	● - - ●	7	Blue/Grey
Violet/Blue	58	● - - ●	8	Blue/Violet
Grey/Green	59	● - - ●	9	Green/Grey
Violet/Green	60	● - - ●	10	Green/Violet
Blue/Green	61	● - - ●	11	Green/Blue
Grey/Yellow	62	● - - ●	12	Yellow/Grey
Violet/Yellow	63	● - - ●	13	Yellow/Violet
Blue/Yellow	64	● - - ●	14	Yellow/Blue
Green/Yellow	65	● - - ●	15	Yellow/Green
Grey/Orange	66	● - - ●	16	Orange/Grey
Violet/Orange	67	● - - ●	17	Orange/Violet
Blue/Orange	68	● - - ●	18	Orange/Blue
Green/Orange	69	● - - ●	19	Orange/Green
Yellow/Orange	70	● - - ●	20	Orange/Yellow
Grey/Pink	71	● - - ●	21	Pink/Grey
Violet/Pink	72	● - - ●	22	Pink/Violet
Blue/Pink	73	● - - ●	23	Pink/Blue
Green/Pink	74	● - - ●	24	Pink/Green
Yellow/Pink	75	● - - ●	25	Pink/Yellow
Orange/Pink	76	● - - ●	26	Pink/Orange
Grey/Brown	77	● - - ●	27	Brown/Grey
Violet/Brown	78	● - - ●	28	Brown/Violet
Blue/Brown	79	● - - ●	29	Brown/Blue
Green/Brown	80	● - - ●	30	Brown/Green
Yellow/Brown	81	● - - ●	31	Brown/Yellow
Orange/Brown	82	● - - ●	32	Brown/Orange
Pink/Brown	83	● - - ●	33	Brown/Pink
Grey/Tan	84	● - - ●	34	Tan/Grey
Violet/Tan	85	● - - ●	35	Tan/Violet
Blue/Tan	86	● - - ●	36	Tan/Blue
Green/Tan	87	● - - ●	37	Tan/Green
Yellow/Tan	88	● - - ●	38	Tan/Yellow
Orange/Tan	89	● - - ●	39	Tan/Orange
Pink/Tan	90	● - - ●	40	Tan/Pink
Brown/Tan	91	● - - ●	41	Tan/Brown
Grey/White	92	● - - ●	42	White/Grey
Violet/White	93	● - - ●	43	White/Violet
Blue/White	94	● - - ●	44	White/Blue
Green/White	95	● - - ●	45	White/Green
Yellow/White	96	● - - ●	46	White/Yellow
Orange/White	97	● - - ●	47	White/Orange
Pink/White	98	● - - ●	48	White/Pink
Brown/White	99	● - - ●	49	White/Brown
Tan/White	100	● - - ●	50	White/Tan

**100-Pin 1.27mm Pitch Micro-D Male Connector
(Mating Face)**

- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

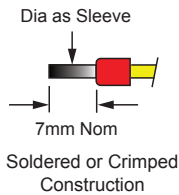
100-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Unterminated

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- M3 Screwlocks
- Wires Color Coded to Ensure Easy Connection

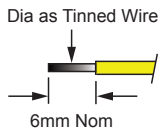


End B Options

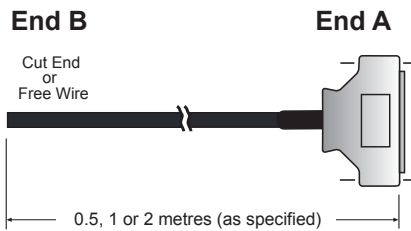
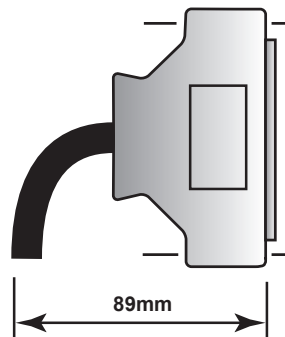
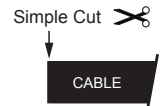
Ferrules



Tinned End

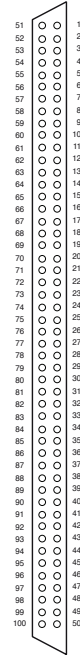


Cut End



Wiring Schedule information can be found on the next page of this document.

End A Male



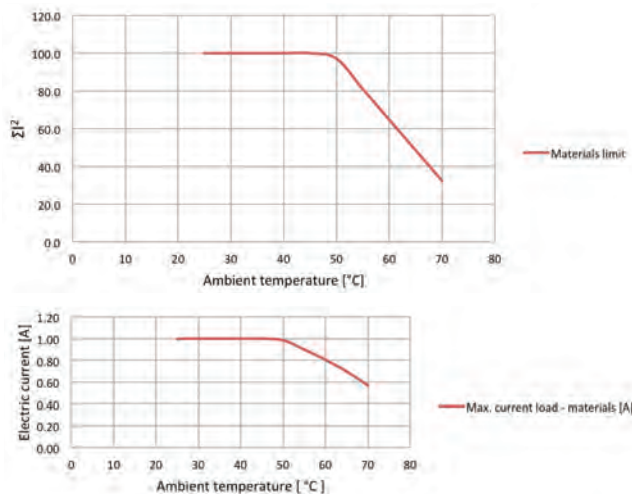
Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	M3 screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nom (Not cut end)
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mΩ
Cable Exit	Rear
Overall Size (Approx)	H83 x W11.3 x D43mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	89mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for A100SMR



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to Unterminated Cable Assy, M3 Screwlocks, 1A,

Male to Ferrules, 0.5m [A100SMR-F-8A050](#)
 Male to Ferrules, 1.0m [A100SMR-F-8A100](#)
 Male to Ferrules, 2.0m [A100SMR-F-8A200](#)

Male to Tinned End, 0.5m [A100SMR-T-8A050](#)
 Male to Tinned End, 1.0m [A100SMR-T-8A100](#)
 Male to Tinned End, 2.0m [A100SMR-T-8A200](#)

Male to Cut End, 0.5m [A100SMR-C-8A050](#)
 Male to Cut End, 1.0m [A100SMR-C-8A100](#)
 Male to Cut End, 2.0m [A100SMR-C-8A200](#)

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D Cable Assy Male to Unterminated

End A

Wire Color	Pin		Pin	Wire Color
Red/Brown	51	● - - ●	1	Brown/Red
Black/Tan	52	● - - ●	2	Tan/Black
Red/Tan	53	● - - ●	3	Tan/Red
Black/White	54	● - - ●	4	White/Black
Red/White	55	● - - ●	5	White/Red
Grey/Violet	56	● - - ●	6	Violet/Grey
Grey/Blue	57	● - - ●	7	Blue/Grey
Violet/Blue	58	● - - ●	8	Blue/Violet
Grey/Green	59	● - - ●	9	Green/Grey
Violet/Green	60	● - - ●	10	Green/Violet
Blue/Green	61	● - - ●	11	Green/Blue
Grey/Yellow	62	● - - ●	12	Yellow/Grey
Violet/Yellow	63	● - - ●	13	Yellow/Violet
Blue/Yellow	64	● - - ●	14	Yellow/Blue
Green/Yellow	65	● - - ●	15	Yellow/Green
Grey/Orange	66	● - - ●	16	Orange/Grey
Violet/Orange	67	● - - ●	17	Orange/Violet
Blue/Orange	68	● - - ●	18	Orange/Blue
Green/Orange	69	● - - ●	19	Orange/Green
Yellow/Orange	70	● - - ●	20	Orange/Yellow
Grey/Pink	71	● - - ●	21	Pink/Grey
Violet/Pink	72	● - - ●	22	Pink/Violet
Blue/Pink	73	● - - ●	23	Pink/Blue
Green/Pink	74	● - - ●	24	Pink/Green
Yellow/Pink	75	● - - ●	25	Pink/Yellow
Orange/Pink	76	● - - ●	26	Pink/Orange
Grey/Brown	77	● - - ●	27	Brown/Grey
Violet/Brown	78	● - - ●	28	Brown/Violet
Blue/Brown	79	● - - ●	29	Brown/Blue
Green/Brown	80	● - - ●	30	Brown/Green
Yellow/Brown	81	● - - ●	31	Brown/Yellow
Orange/Brown	82	● - - ●	32	Brown/Orange
Pink/Brown	83	● - - ●	33	Brown/Pink
Grey/Tan	84	● - - ●	34	Tan/Grey
Violet/Tan	85	● - - ●	35	Tan/Violet
Blue/Tan	86	● - - ●	36	Tan/Blue
Green/Tan	87	● - - ●	37	Tan/Green
Yellow/Tan	88	● - - ●	38	Tan/Yellow
Orange/Tan	89	● - - ●	39	Tan/Orange
Pink/Tan	90	● - - ●	40	Tan/Pink
Brown/Tan	91	● - - ●	41	Tan/Brown
Grey/White	92	● - - ●	42	White/Grey
Violet/White	93	● - - ●	43	White/Violet
Blue/White	94	● - - ●	44	White/Blue
Green/White	95	● - - ●	45	White/Green
Yellow/White	96	● - - ●	46	White/Yellow
Orange/White	97	● - - ●	47	White/Orange
Pink/White	98	● - - ●	48	White/Pink
Brown/White	99	● - - ●	49	White/Brown
Tan/White	100	● - - ●	50	White/Tan

**100-Pin 1.27mm Pitch Micro-D Male Connector
(Mating Face)**

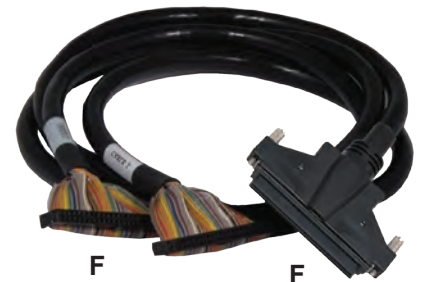
- - Denotes Twisted Pairing ie. Pins 1 and 51 use paired wires

100-Pin 1.27mm Pitch Micro-D (Female) to 2 x 50-Pin Ribbon (Female)

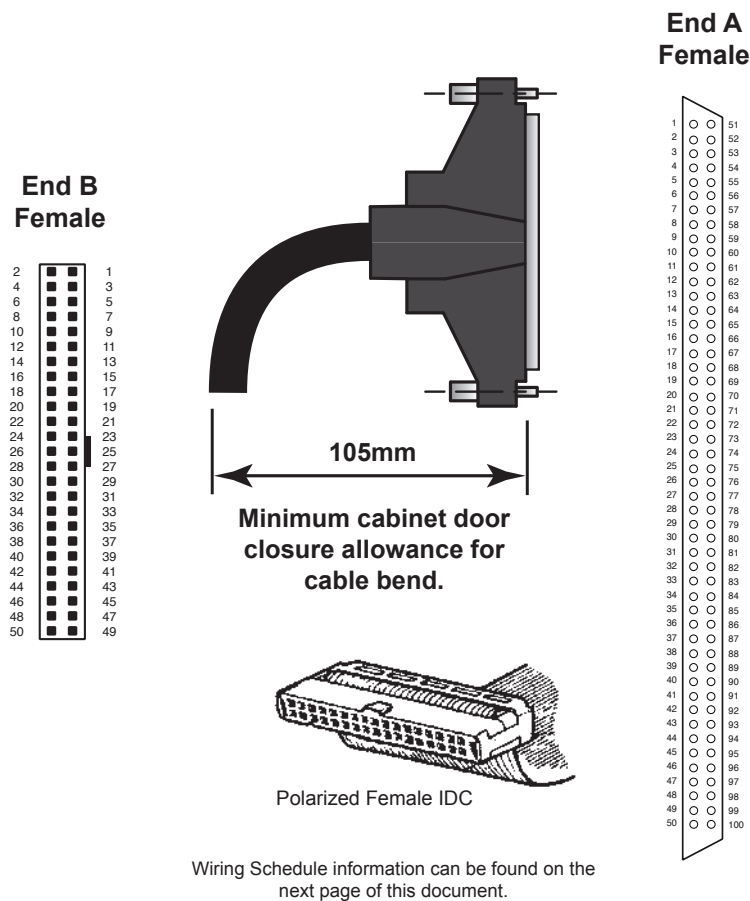
- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks
- 2 x 50-Pin Female IDC Connectors

This cable assembly is designed to allow the termination of a 100-Pin 1.27mm Pitch Micro-D with 2 off 50-Pin Female Polarized IDC connectors. Each cable is identified and a common color coding is used.

Solutions for connecting to the 50-Pin IDC connector can be found in Section 9.



F F
End B End A



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H85 x W16.5 x D53mm
Connector Type (End B):	2 off 50-Pin polarized IDC
	0.1" (2.54mm) pitch
Gender	Female
Securing Method	Push fit
Contact Material	Phosphor bronze with Au flash
Contact Resistance	<20mOhm
Securing Method	As mating connector
Cable Exit	Side
Overall Size (Approx)	H17 x W68 x D6mm
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MOhm
Cable Type:	2 x 50-Pin twisted pair ribbon cable, 1.27mm pitch.
	Twisted pairs 1&2, 3&4, etc
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,

Female to Female, 0.5m Long

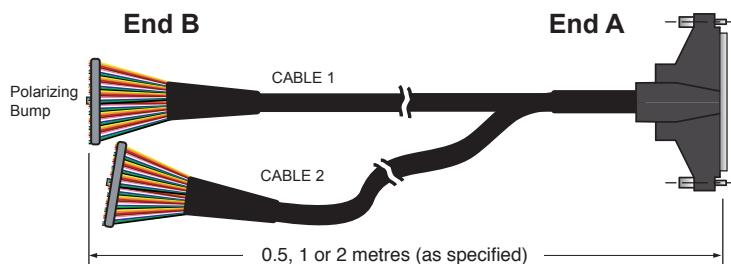
40-971-100-0.5m-FF

Female to Female, 1.0m Long

40-971-100-1m-FF

Female to Female, 2.0m Long

40-971-100-2m-FF



Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D (Female) to 2 x 50-Pin Ribbon (Female)

End B

100-Pin Connector Pin No.	CABLE 1	100-Pin Connector Pin No.	Wire Color
2	1	1	Brown
4	3	3	Red
6	5	5	Orange
8	7	7	Yellow
10	9	9	Green
12	11	11	Blue
14	13	13	Violet
16	15	15	Grey
18	17	17	White
20	19	19	Black
22	21	21	Brown
24	23	23	Red
26	25	25	Orange
28	27	27	Yellow
30	29	29	Green
32	31	31	Blue
34	33	33	Violet
36	35	35	Grey
38	37	37	White
40	39	39	Black
42	41	41	Brown
44	43	43	Red
46	45	45	Orange
48	47	47	Yellow
50	49	49	Green

100-Pin Connector Pin No.	CABLE 2	100-Pin Connector Pin No.	Wire Color
52	1	51	Brown
54	3	53	Red
56	5	55	Orange
58	7	57	Yellow
60	9	59	Green
62	11	61	Blue
64	13	63	Violet
66	15	65	Grey
68	17	67	White
70	19	69	Black
72	21	71	Brown
74	23	73	Red
76	25	75	Orange
78	27	77	Yellow
80	29	79	Green
82	31	81	Blue
84	33	83	Violet
86	35	85	Grey
88	37	87	White
90	39	89	Black
92	41	91	Brown
94	43	93	Red
96	45	95	Orange
98	47	97	Yellow
100	49	99	Green

50-Pin Polarized IDC Female Connectors (Mating Face)

End A



100-Pin 1.27mm Pitch Micro-D Female Connector (Mating Face)

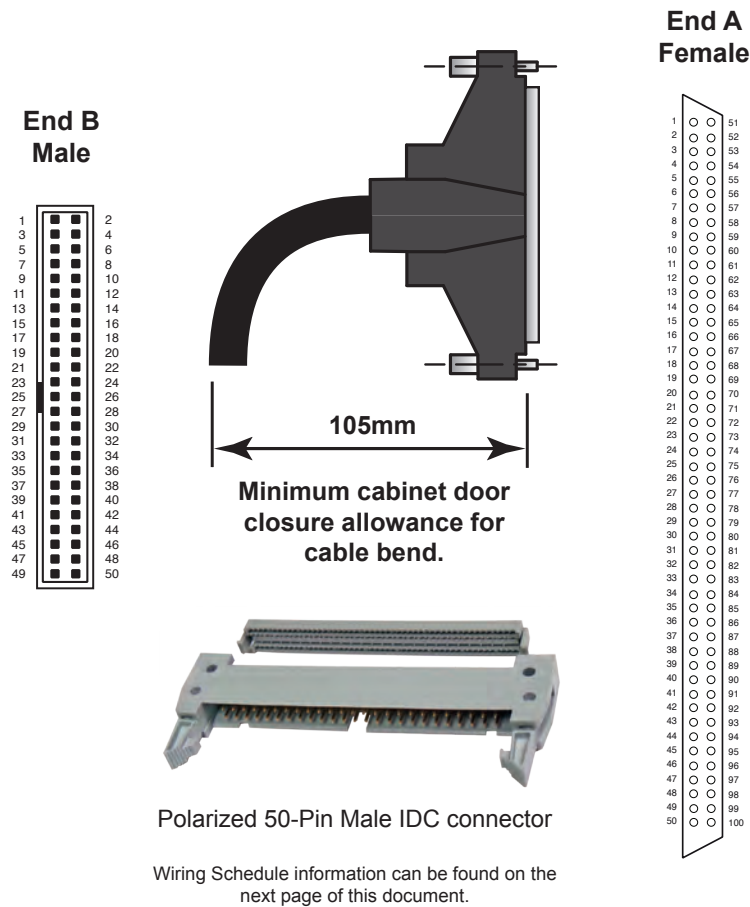
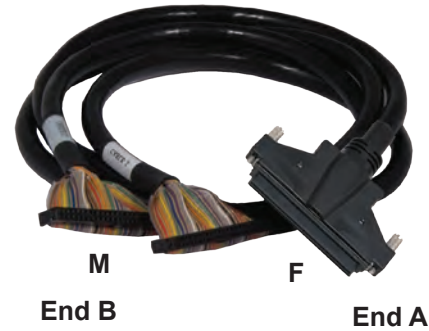
Note: Wires are paired 1 & 2, 3 & 4, etc

100-Pin 1.27mm Pitch Micro-D (Female) to 2 x 50-Pin Ribbon (Male)

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks
- 2 x 50-Pin Male IDC Connectors

This cable assembly is designed to allow the termination of a 100-Pin 1.27mm Pitch Micro-D with 2 off 50-Pin Male Polarized IDC connectors. Each cable is identified and a common color coding is used.

Solutions for connecting to the 50-Pin IDC connector can be found in Section 9.



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H85 x W16.5 x D53mm
Connector Type (End B):	2 off 50-Pin polarized IDC
Gender	Male
Securing Method	Latches
Contact Material	Cu alloy with selective Au flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H30.4 x W82.3 x D8mm
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MOhm
Cable Type:	2 x 50-Pin twisted pair ribbon cable, 1.27mm pitch.
	Twisted pairs 1&2, 3&4, etc
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

- 100-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,**
- Female to Male, 0.5m Long **40-971-100-0.5m-FM**
 - Female to Male, 1.0m Long **40-971-100-1m-FM**
 - Female to Male, 2.0m Long **40-971-100-2m-FM**

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D (Female) to 2 x 50-Pin Ribbon (Male)

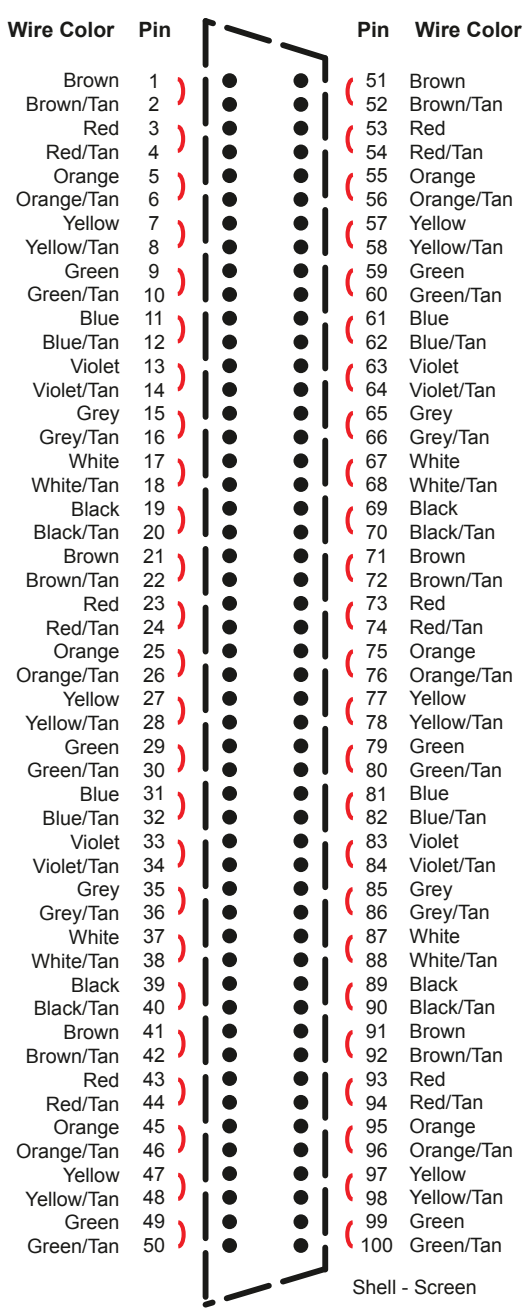
End B

100-Pin Connector Pin No.	CABLE 1	100-Pin Connector Pin No.
Brown 1	1	2
Red 3	3	4
Orange 5	5	6
Yellow 7	7	8
Green 9	9	10
Blue 11	11	12
Violet 13	13	14
Grey 15	15	16
White 17	17	18
Black 19	19	20
Brown 21	21	22
Red 23	23	24
Orange 25	25	26
Yellow 27	27	28
Green 29	29	30
Blue 31	31	32
Violet 33	33	34
Grey 35	35	36
White 37	37	38
Black 39	39	40
Brown 41	41	42
Red 43	43	44
Orange 45	45	46
Yellow 47	47	48
Green 49	49	50

100-Pin Connector Pin No.	CABLE 2	100-Pin Connector Pin No.
Brown 51	1	2
Red 53	3	4
Orange 55	5	6
Yellow 57	7	8
Green 59	9	10
Blue 61	11	12
Violet 63	13	14
Grey 65	15	16
White 67	17	18
Black 69	19	20
Brown 71	21	22
Red 73	23	24
Orange 75	25	26
Yellow 77	27	28
Green 79	29	30
Blue 81	31	32
Violet 83	33	34
Grey 85	35	36
White 87	37	38
Black 89	39	40
Brown 91	41	42
Red 93	43	44
Orange 95	45	46
Yellow 97	47	48
Green 99	49	50

**50-Pin Polarized IDC Male Connectors
(Mating Face)**

End A



**100-Pin 1.27mm Pitch Micro-D Female Connector
(Mating Face)**

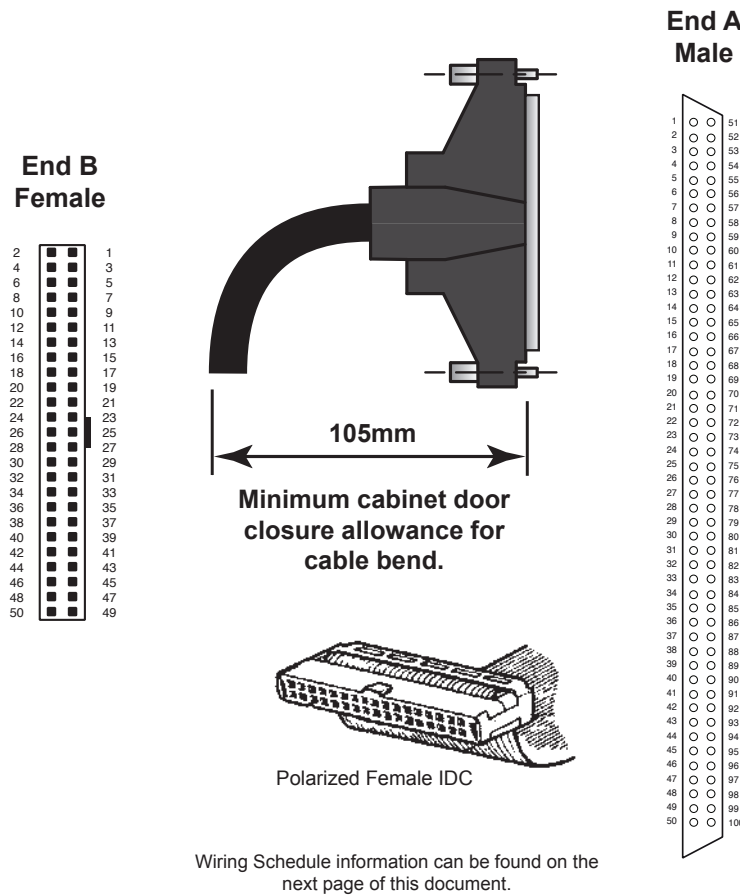
Note: Wires are paired 1 & 2, 3 & 4, etc

100-Pin 1.27mm Pitch Micro-D (Male) to 2 x 50-Pin Ribbon (Female)

- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks
- 2 x 50-Pin Female IDC Connectors

This cable assembly is designed to allow the termination of a 100-Pin 1.27mm Pitch Micro-D with 2 off 50-Pin Female Polarized IDC connectors. Each cable is identified and a common color coding is used.

Solutions for connecting to the 50-Pin IDC connector can be found in Section 9.



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H85 x W16.5 x D53mm
Connector Type (End B):	2 off 50-Pin polarized IDC
Gender	Female
Securing Method	Push fit
Contact Material	Phosphor bronze with Au flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H17 x W68 x D6mm
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MOhm
Cable Type:	2 x 50-Pin twisted pair ribbon cable, 1.27mm pitch.
	Twisted pairs 1&2, 3&4, etc
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:
Other cable lengths can be supplied.

Product Order Codes

- 100-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,**
- Male to Female, 0.5m Long **40-971-100-0.5m-MF**
 - Male to Female, 1.0m Long **40-971-100-1m-MF**
 - Male to Female, 2.0m Long **40-971-100-2m-MF**

Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D (Male) to 2 x 50-Pin Ribbon (Female)

End B

100-Pin Connector Pin No.	CABLE 1	100-Pin Connector Pin No.	Wire Color
Brown/Tan 2	1	1	Brown
Red/Tan 4	3	3	Red
Orange/Tan 6	5	5	Orange
Yellow/Tan 8	7	7	Yellow
Green/Tan 10	9	9	Green
Blue/Tan 12	11	11	Blue
Violet/Tan 14	13	13	Violet
Grey/Tan 16	15	15	Grey
White/Tan 18	17	17	White
Black/Tan 20	19	19	Black
Brown/Tan 22	21	21	Brown
Red/Tan 24	23	23	Red
Orange/Tan 26	25	25	Orange
Yellow/Tan 28	27	27	Yellow
Green/Tan 30	29	29	Green
Blue/Tan 32	31	31	Blue
Violet/Tan 34	33	33	Violet
Grey/Tan 36	35	35	Grey
White/Tan 38	37	37	White
Black/Tan 40	39	39	Black
Brown/Tan 42	41	41	Brown
Red/Tan 44	43	43	Red
Orange/Tan 46	45	45	Orange
Yellow/Tan 48	47	47	Yellow
Green/Tan 50	49	49	Green

100-Pin Connector Pin No.	CABLE 2	100-Pin Connector Pin No.	Wire Color
Brown/Tan 52	1	51	Brown
Red/Tan 54	3	53	Red
Orange/Tan 56	5	55	Orange
Yellow/Tan 58	7	57	Yellow
Green/Tan 60	9	59	Green
Blue/Tan 62	11	61	Blue
Violet/Tan 64	13	63	Violet
Grey/Tan 66	15	65	Grey
White/Tan 68	17	67	White
Black/Tan 70	19	69	Black
Brown/Tan 72	21	71	Brown
Red/Tan 74	23	73	Red
Orange/Tan 76	25	75	Orange
Yellow/Tan 78	27	77	Yellow
Green/Tan 80	29	79	Green
Blue/Tan 82	31	81	Blue
Violet/Tan 84	33	83	Violet
Grey/Tan 86	35	85	Grey
White/Tan 88	37	87	White
Black/Tan 90	39	89	Black
Brown/Tan 92	41	91	Brown
Red/Tan 94	43	93	Red
Orange/Tan 96	45	95	Orange
Yellow/Tan 98	47	97	Yellow
Green/Tan 100	49	99	Green

**50-Pin Polarized IDC Female Connectors
(Mating Face)**

End A



**100-Pin 1.27mm Pitch Micro-D Male Connector
(Mating Face)**

Note: Wires are paired 1 & 2, 3 & 4, etc

100-Pin 1.27mm Pitch Micro-D (Male) to 2 x 50-Pin Ribbon (Male)

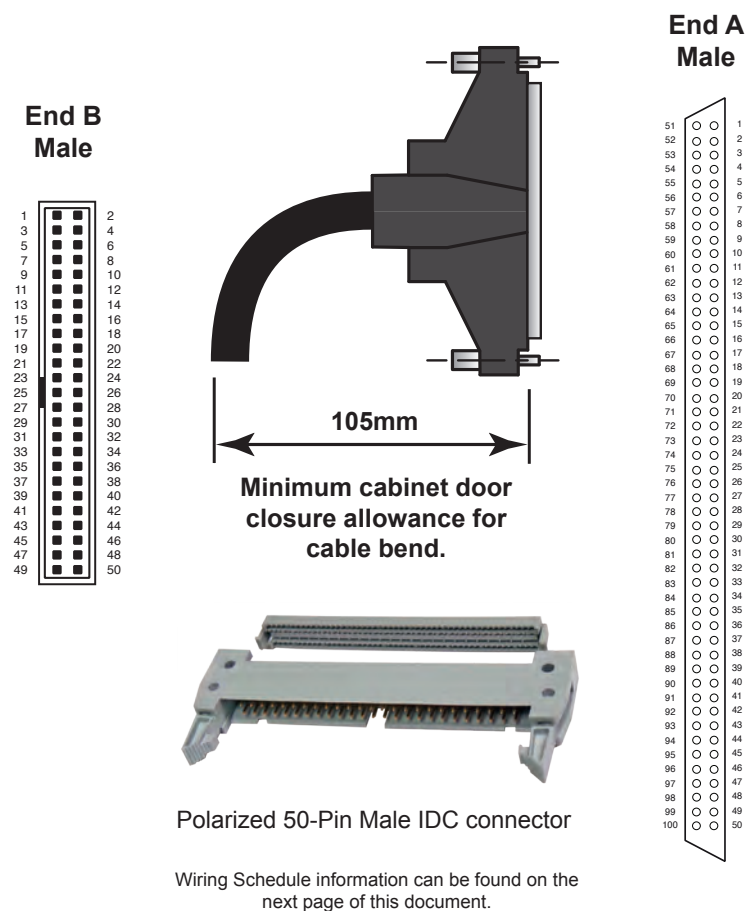
- High Specification Cable
- Highly Flexible Cable with Strain Relief
- Fully Screened Cable Construction
- 4-40 UNC Screwlocks
- 2 x 50-Pin Male IDC Connectors

This cable assembly is designed to allow the termination of a 100-Pin 1.27mm Pitch Micro-D with 2 off 50-Pin Male Polarized IDC connectors. Each cable is identified and a common color coding is used.

Solutions for connecting to the 50-Pin IDC connector can be found in Section 9.



M M
End B End A



Technical Specification

Connector Type (End A):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H85 x W16.5 x D53mm
Connector Type (End B):	2 off 50-Pin polarized IDC
Gender	Male
Securing Method	Latches
Contact Material	Cu alloy with selective Au flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H30.4 x W82.3 x D8mm
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MOhm
Cable Type:	2 x 50-Pin twisted pair ribbon cable, 1.27mm pitch.
	Twisted pairs 1&2, 3&4, etc
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

100-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,

Male to Male, 0.5m Long

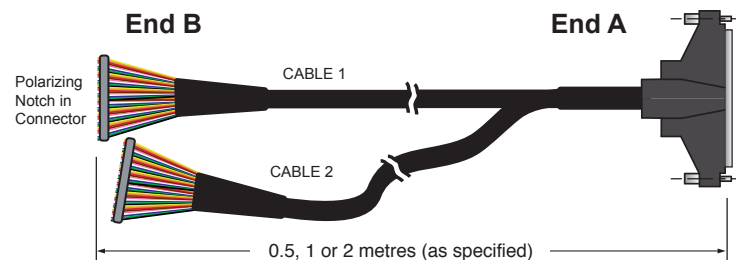
40-971-100-0.5m-MM

Male to Male, 1.0m Long

40-971-100-1m-MM

Male to Male, 2.0m Long

40-971-100-2m-MM



Wiring Schedule for 100-Pin 1.27mm Pitch Micro-D (Male) to 2 x 50-Pin Ribbon (Male)

End B

100-Pin Connector Pin No.	CABLE 1	100-Pin Connector Pin No.	Wire Color
Brown 1	1	2	Brown/Tan
Red 3	3	4	Red/Tan
Orange 5	5	6	Orange/Tan
Yellow 7	7	8	Yellow/Tan
Green 9	9	10	Green/Tan
Blue 11	11	12	Blue/Tan
Violet 13	13	14	Violet/Tan
Grey 15	15	16	Grey/Tan
White 17	17	18	White/Tan
Black 19	19	20	Black/Tan
Brown 21	21	22	Brown/Tan
Red 23	23	24	Red/Tan
Orange 25	25	26	Orange/Tan
Yellow 27	27	28	Yellow/Tan
Green 29	29	30	Green/Tan
Blue 31	31	32	Blue/Tan
Violet 33	33	34	Violet/Tan
Grey 35	35	36	Grey/Tan
White 37	37	38	White/Tan
Black 39	39	40	Black/Tan
Brown 41	41	42	Brown/Tan
Red 43	43	44	Red/Tan
Orange 45	45	46	Orange/Tan
Yellow 47	47	48	Yellow/Tan
Green 49	49	50	Green/Tan

100-Pin Connector Pin No.	CABLE 2	100-Pin Connector Pin No.	Wire Color
Brown 51	1	2	Brown/Tan
Red 53	3	4	Red/Tan
Orange 55	5	6	Orange/Tan
Yellow 57	7	8	Yellow/Tan
Green 59	9	10	Green/Tan
Blue 61	11	12	Blue/Tan
Violet 63	13	14	Violet/Tan
Grey 65	15	16	Grey/Tan
White 67	17	18	White/Tan
Black 69	19	20	Black/Tan
Brown 71	21	22	Brown/Tan
Red 73	23	24	Red/Tan
Orange 75	25	26	Orange/Tan
Yellow 77	27	28	Yellow/Tan
Green 79	29	30	Green/Tan
Blue 81	31	32	Blue/Tan
Violet 83	33	34	Violet/Tan
Grey 85	35	36	Grey/Tan
White 87	37	38	White/Tan
Black 89	39	40	Black/Tan
Brown 91	41	42	Brown/Tan
Red 93	43	44	Red/Tan
Orange 95	45	46	Orange/Tan
Yellow 97	47	48	Yellow/Tan
Green 99	49	50	Green/Tan

End A



100-Pin 1.27mm Pitch Micro-D Male Connector (Mating Face)

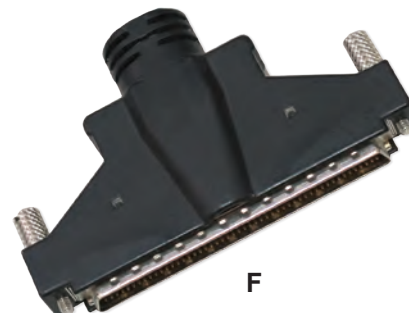
50-Pin Polarized IDC Male Connectors (Mating Face)

Note: Wires are paired 1 & 2, 3 & 4, etc

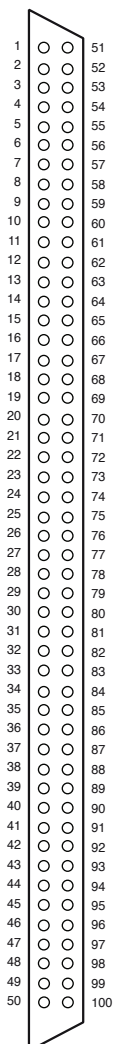
100-Pin 1.27mm Pitch Micro-D Connector - Female

- Connector and Backshell
- Ribbon Cable IDC Connection
- 4-40 UNC Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Female



Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Female 4-40 UNC screwlocks, male IDC for ribbon cable
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 12mm dia H85 x W17 x D59mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Ribbon cable, 100-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

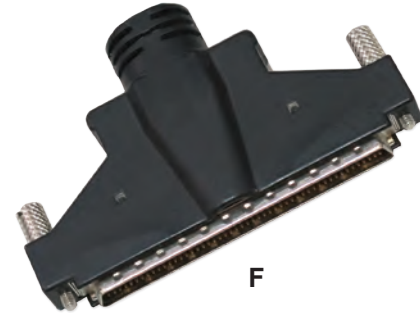
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for
 Ribbon Cable, 4-40 UNC Screwlocks,
 With Backshell, Female

40-961-100-F

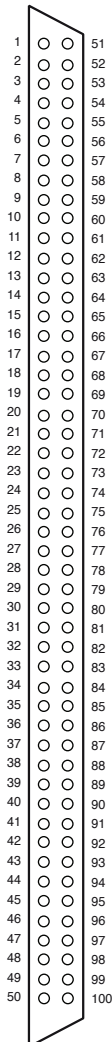
100-Pin 1.27mm Pitch Micro-D Connector - Female

- Connector and Backshell
- Ribbon Cable IDC Connection
- 2-56 UNC Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Female



Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Female 2-56 UNC screwlocks, male IDC for ribbon cable
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 12mm dia H85 x W17 x D59mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Ribbon cable, 100-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

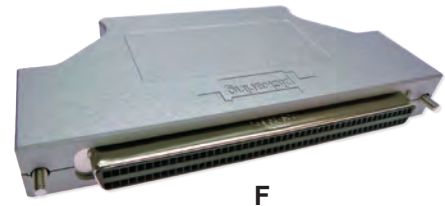
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable, 2-56 UNC Screwlocks, With Backshell, Female

C100SFR-1CR-5A

100-Pin 1.27mm Pitch Micro-D Connector - Female

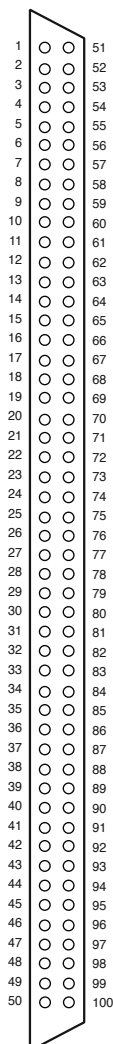
- Connector and Backshell
- Ribbon Cable IDC Connection
- M2.5 Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



F

Female



Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Female M2.5 screwlocks, male IDC for ribbon cable
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 7.4 x 27mm H83 x W11.3 x D43mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Ribbon cable, 100-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

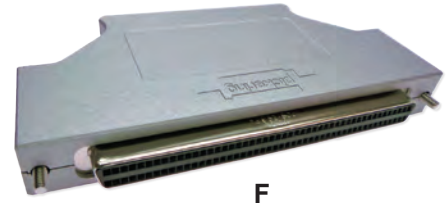
**100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for
Ribbon Cable, M2.5 Screwlocks,
With Backshell, Female**

C100SFR-4CR-5A

100-Pin 1.27mm Pitch Micro-D Connector - Female

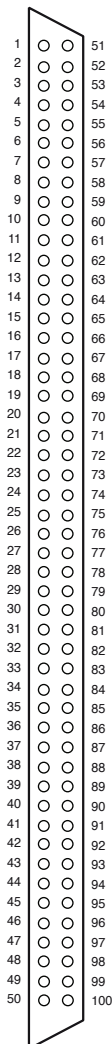
- Connector and Backshell
- Ribbon Cable IDC Connection
- M3 Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



F

Female



Technical Specification

Connector Type:	100-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method:	M3 screwlocks, male
Wire Connection	IDC for ribbon cable
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	7.4 x 27mm
Overall Size (Approx)	H83 x W11.3 x D43mm
100-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Ribbon cable, 100-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

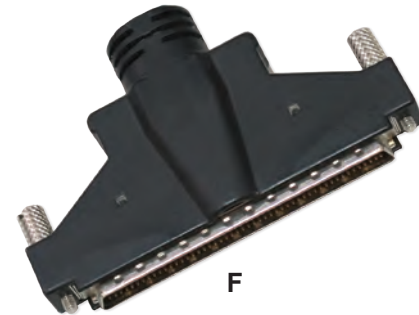
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable, M3 Screwlocks, With Backshell, Female

C100SFR-5CR-5A

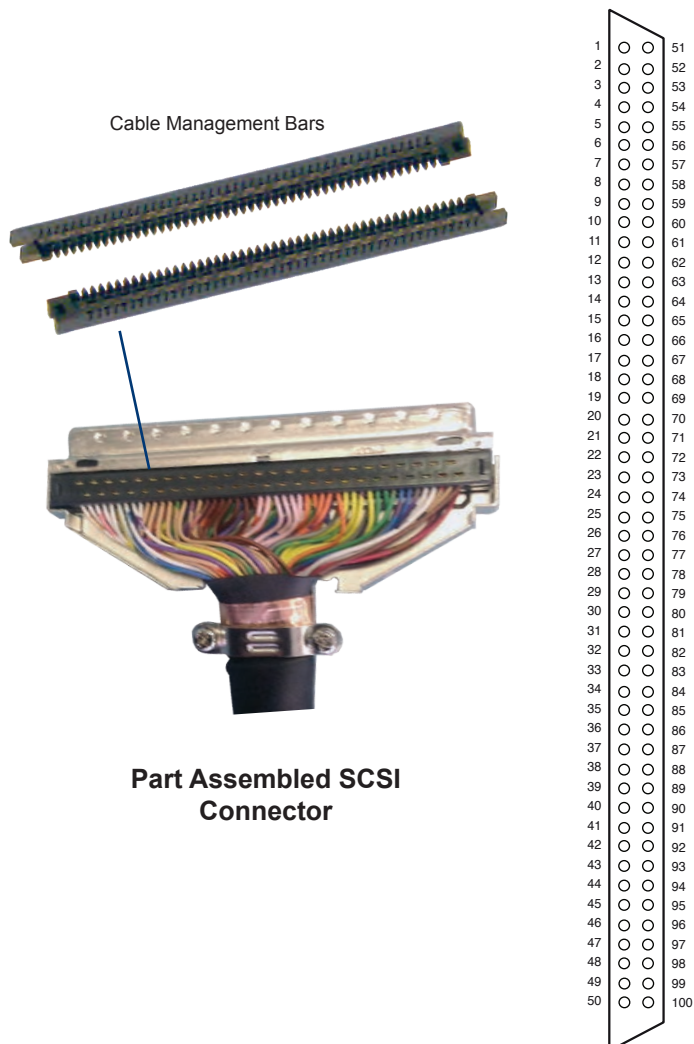
100-Pin 1.27mm Pitch Micro-D Connector - Female

- Connector and Backshell
- IDC Connection for Discrete Wire
- 4-40 UNC Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 100-Pin Micro D connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Female



Technical Specification

Connector Type:	100-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method:	4-40 UNC screwlocks, male
Wire Connection	IDC for discrete wire
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	12mm dia
Overall Size (Approx)	H85 x W17 x D59mm
100-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 100-Pin or single core
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

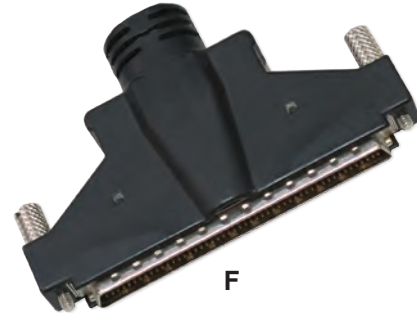
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire, 4-40 UNC Screwlocks, With Backshell, Female

40-962A-100-F

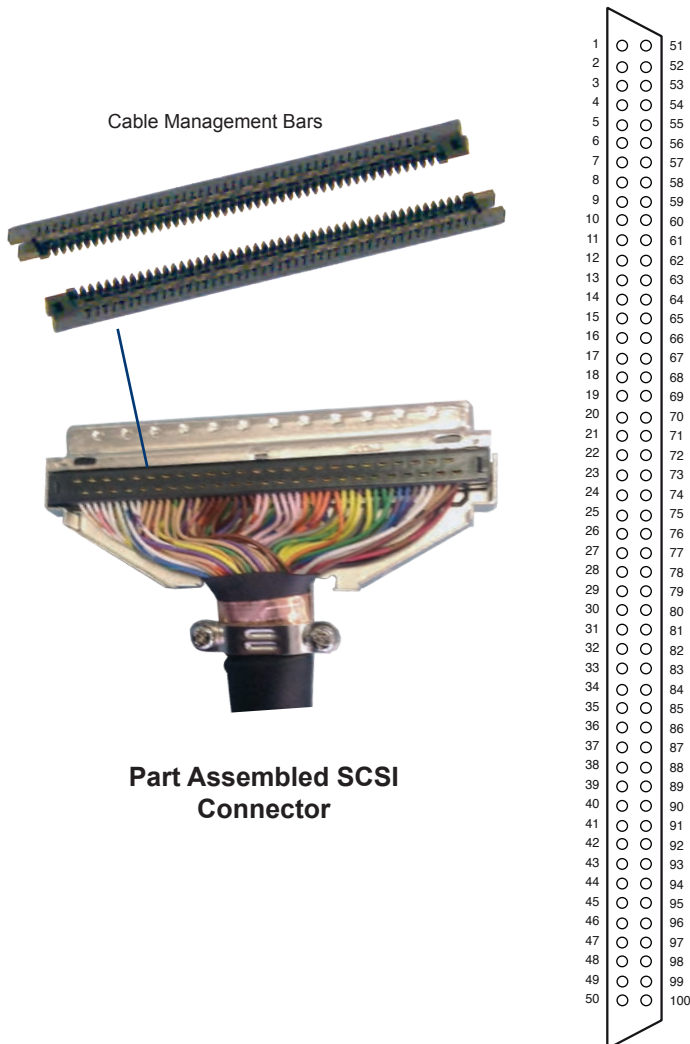
100-Pin 1.27mm Pitch Micro-D Connector - Female

- Connector and Backshell
- IDC Connection for Discrete Wire
- 2-56 UNC Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 100-Pin Micro D connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Female



Technical Specification

Connector Type:	100-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method:	2-56 UNC screwlocks, male
Wire Connection	IDC for discrete wire
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	12mm dia
Overall Size (Approx)	H85 x W17 x D59mm
100-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 100-Pin or single core
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

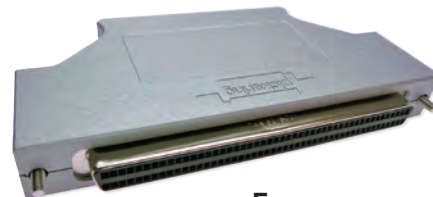
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire, 2-56 UNC Screwlocks, With Backshell, Female

C100SFR-1CW-5A

100-Pin 1.27mm Pitch Micro-D Connector - Female

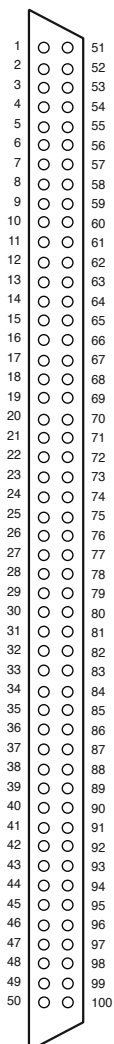
- Connector and Backshell
- IDC Connection for Discrete Wire
- M2.5 Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



F

Female



Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Female M2.5 screwlocks, male IDC for discrete wire
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 7.4 x 27mm H83 x W11.3 x D43mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Multicore 100-Pin or single core
Additional Cable Clamp p	Yes (in backshell)

Product Order Codes

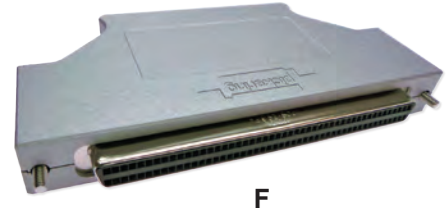
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for
Discrete Wire, M2.5 Screwlocks,
With Backshell, Female

C100SFR-4CW-5A

100-Pin 1.27mm Pitch Micro-D Connector - Female

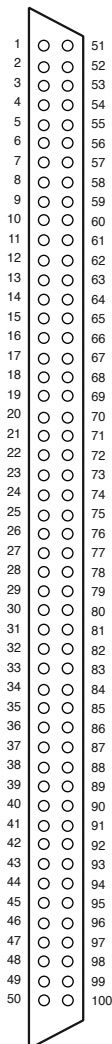
- Connector and Backshell
- IDC Connection for Discrete Wire
- M3 Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



F

Female



Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Female M3 screwlocks, male IDC for discrete wire
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 7.4 x 27mm H83 x W11.3 x D43mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Multicore 100-Pin or single core
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire, M3 Screwlocks, With Backshell, Female

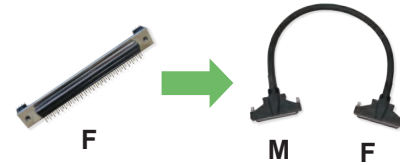
C100SFR-5CW-5A

100-Pin 1.27mm Pitch Micro-D Connector, Right Angle PCB Mount - Female

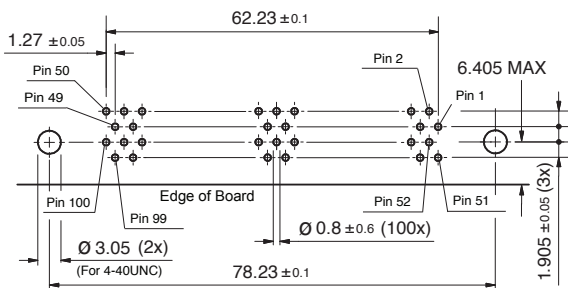
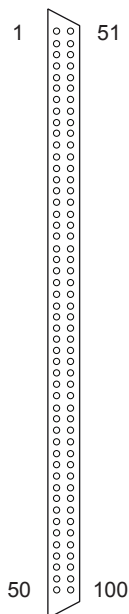
- Female Version Available
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female



**PCB Footprint of 100-Pin Right Angle Female Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	100-Pin 1.27mm pitch Micro-D Female 4-40 UNC screwlocks, female Right angle PCB mount, solder, PCB 1.6mm thick
Connector Ratings: Maximum Current Maximum Voltage 100-Pin Micro-D: Contact Material Contact Resistance	1A each pin 250VAC Gold plated copper alloy <35mOhm

Product Order Codes

**100-Pin 1.27mm Pitch Micro-D Connector, 1A,
Right Angle PCB Mount, Female**

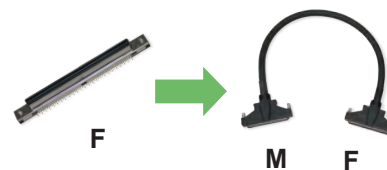
40-963-100-RF

100-Pin 1.27mm Pitch Micro-D Connector, Straight PCB Mount - Female

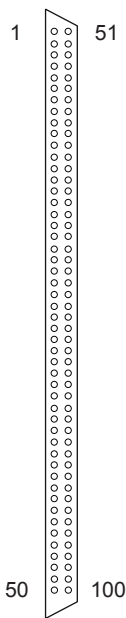
- Female Version Available
- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

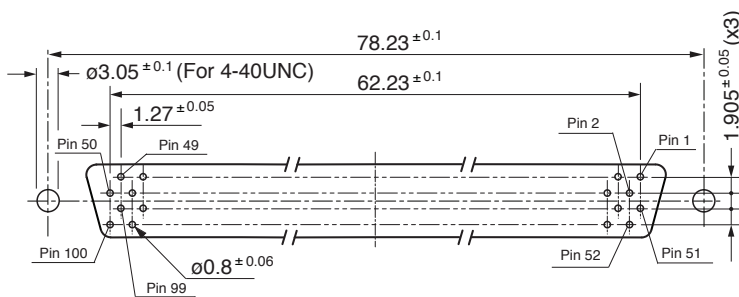


Female



Technical Specification

Connector Type:	100-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250VAC
100-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length	3.4mm nom



**PCB Footprint of 100-Pin Straight Female Connector
(Connector Side - Not to Scale)**

Product Order Codes

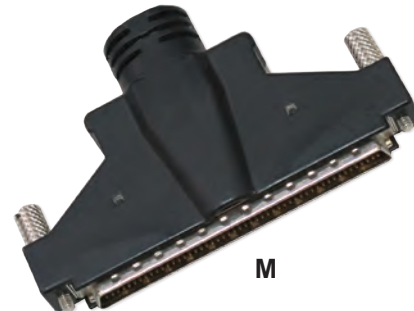
100-Pin 1.27mm Pitch Micro-D Connector, 1A,
Straight PCB Mount, Female

40-963-100-SF

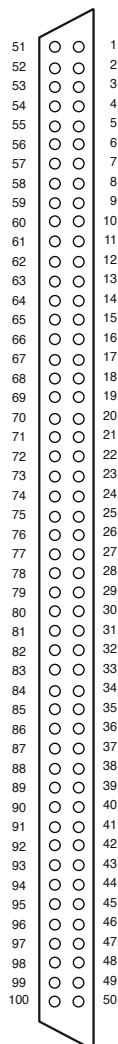
100-Pin 1.27mm Pitch Micro-D Connector - Male

- Connector and Backshell
- Ribbon Cable IDC Connection
- 4-40 UNC Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Male



Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Male 4-40 UNC screwlocks, male IDC for ribbon cable
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 12mm dia H85 x W17 x D59mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Ribbon cable, 100-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

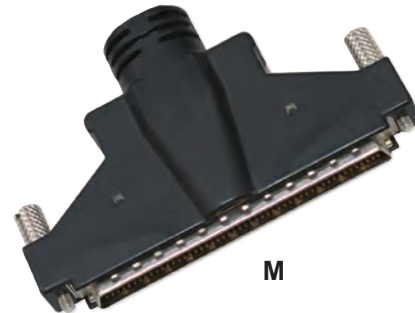
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for
Ribbon Cable, 4-40 UNC Screwlocks,
With Backshell, Male

40-961-100-M

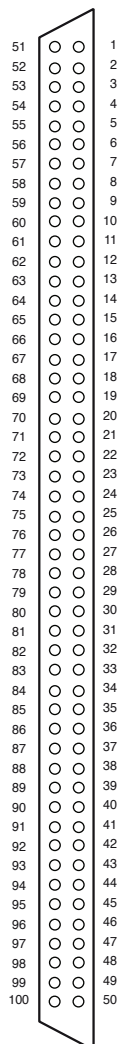
100-Pin 1.27mm Pitch Micro-D Connector - Male

- Connector and Backshell
- Ribbon Cable IDC Connection
- 2-56 UNC Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Male



Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Male 2-56 UNC screwlocks, male IDC for ribbon cable
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 12mm dia H85 x W17 x D59mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Ribbon cable, 100-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable, 2-56 UNC Screwlocks, With Backshell, Male

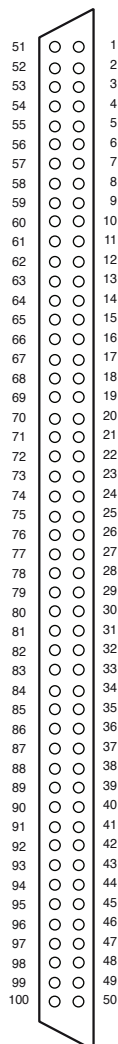
C100SMR-1CR-5A

100-Pin 1.27mm Pitch Micro-D Connector - Male

- Connector and Backshell
- Ribbon Cable IDC Connection
- M2.5 Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

Male



M

Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Male M2.5 screwlocks, male IDC for ribbon cable
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 7.4 x 27mm H83 x W11.3 x D43mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Ribbon cable, 100-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for
Ribbon Cable, M2.5 Screwlocks,
With Backshell, Male

C100SMR-4CR-5A

100-Pin 1.27mm Pitch Micro-D Connector - Male

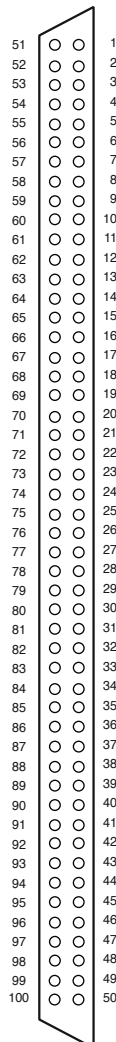
- Connector and Backshell
- Ribbon Cable IDC Connection
- M3 Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



M

Male



Technical Specification

Connector Type: Gender Securing Method: Wire Connection	100-Pin 1.27mm pitch Micro-D Male M3 screwlocks, male IDC for ribbon cable
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 7.4 x 27mm H83 x W11.3 x D43mm
100-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Ribbon cable, 100-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

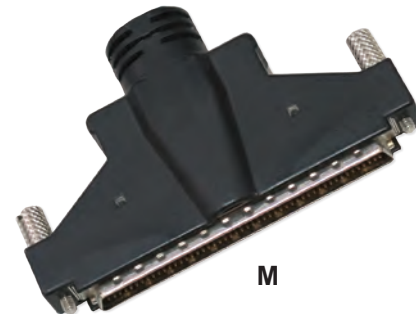
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable, M3 Screwlocks, With Backshell, Male

C100SMR-5CR-5A

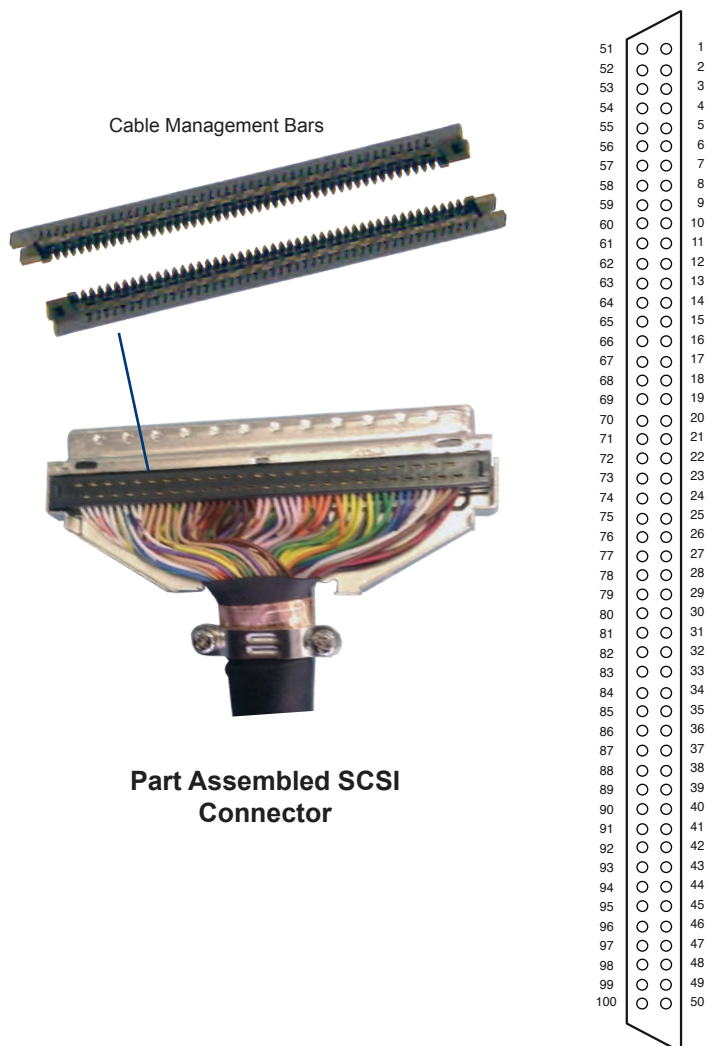
100-Pin 1.27mm Pitch Micro-D Connector - Male

- Connector and Backshell
- IDC Connection for Discrete Wire
- 4-40 UNC Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 100-Pin Micro D connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Male



Technical Specification

Connector Type:	100-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method:	4-40 UNC screwlocks, male
Wire Connection	IDC for discrete wire
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	12mm dia
Overall Size (Approx)	H85 x W17 x D59mm
100-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 100-Pin or single core
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

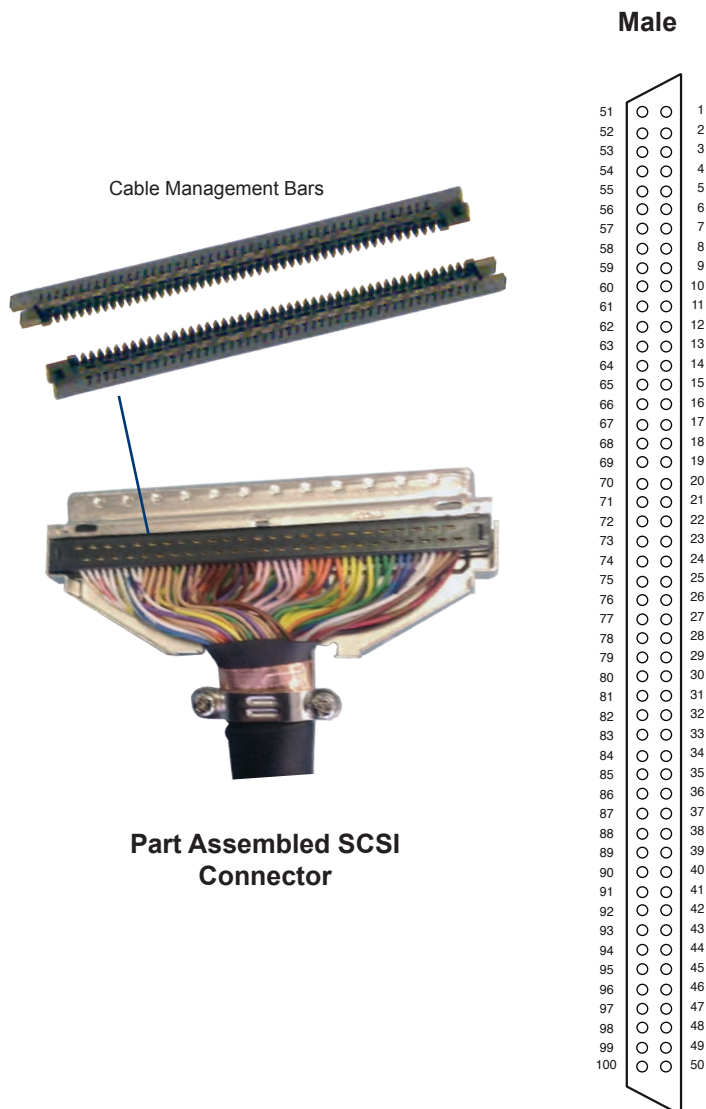
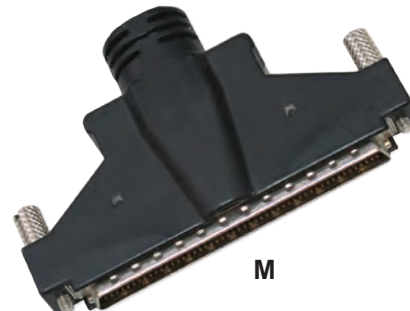
100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire, 4-40 UNC Screwlocks, With Backshell, Male

40-962A-100-M

100-Pin 1.27mm Pitch Micro-D Connector - Male

- Connector and Backshell
- IDC Connection for Discrete Wire
- 2-56 UNC Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 100-Pin Micro D connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Technical Specification

Connector Type:	100-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method:	2-56 UNC screwlocks, male
Wire Connection	IDC for discrete wire
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	12mm dia
Overall Size (Approx)	H85 x W17 x D59mm
100-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 100-Pin or single core
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire, 2-56 UNC Screwlocks, With Backshell, Male

C100SMR-1CW-5A

100-Pin 1.27mm Pitch Micro-D Connector - Male

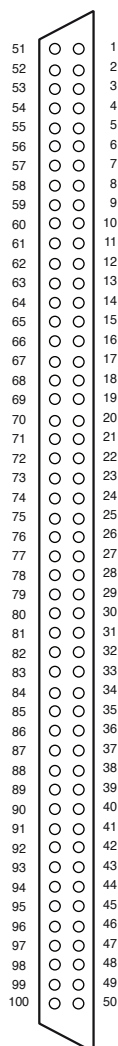
- Connector and Backshell
- IDC Connection for Discrete Wire
- M2.5 Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



M

Male



Technical Specification

Connector Type:	100-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method:	M2.5 screwlocks, male
Wire Connection	IDC for discrete wire
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	7.4 x 27mm
Overall Size (Approx)	H83 x W11.3 x D43mm
100-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 100-Pin or single core
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire, M2.5 Screwlocks, With Backshell, Male

C100SMR-4CW-5A

100-Pin 1.27mm Pitch Micro-D Connector - Male

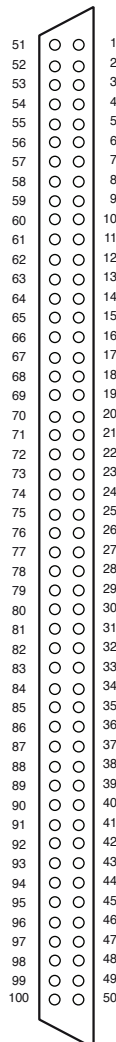
- Connector and Backshell
- IDC Connection for Discrete Wire
- M3 Screwlocks
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector. It is difficult to terminate cable to the 100-Pin 1.27mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



M

Male



Technical Specification

Connector Type:	100-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method:	M3 screwlocks, male
Wire Connection	IDC for discrete wire
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	7.4 x 27mm
Overall Size (Approx)	H83 x W11.3 x D43mm
100-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 100-Pin or single core
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

100-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire, M3 Screwlocks, With Backshell, Male

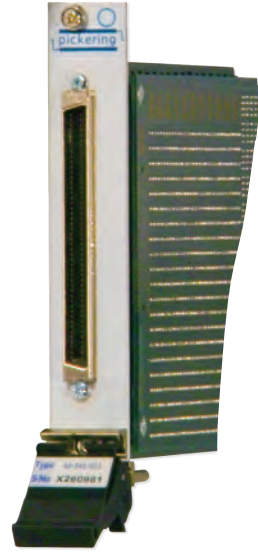
C100SMR-5CW-5A

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96-Pin 1.27mm Pitch Micro-D Connector Accessories

Note: This connector was originally referred to a '96 Pin SCSI Style Micro D Connector'

- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**



The 96-Pin 1.27mm Pitch Micro-D connector is used on PXI switching products to provide a high density 1A connector solution that is suitable for use to 150Vdc. Pickering Interfaces has developed a full range of standard connection solutions to simplify the task of integrating products into a test system. The high density and skill levels involved in terminating this connector means that we do strongly recommend that users use Pickering Interfaces solutions.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Solutions for connecting 50-Pin ribbon cable headers are also available. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote DIN rail mounted breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 96-Pin 1.27mm Pitch Micro-D Connection Accessories

Cables: 96-Pin 1.27mm Pitch Micro-D Connector to Connector						
End 1	End 2	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Type (inc Fixings)	Type (inc Fixings)	0.5m Long	1m Long	2m Long		
96-Pin Micro-D, Female, (Metal Spring Latch)	96-Pin Micro-D, Female, (Metal Spring Latch)	40-970B-096-0.5m-FF	40-970B-096-1m-FF	40-970B-096-2m-FF	Yes	5.5
96-Pin Micro-D, Female, (Metal Spring Latch)	100-Pin Micro-D, Male, (4-40 UNC Screwlocks)	40-973B-096-0.5m-FM	40-973B-096-1m-FM	40-973B-096-2m-FM	Yes	5.9
96-Pin Micro-D, Female, (Metal Spring Latch)	2 x 50-Pin Ribbon, Female, (Push Fit)	40-971-096-0.5m-FF	40-971-096-1m-FF	40-971-096-2m-FF	Yes	5.11
96-Pin Micro-D, Female, (Metal Spring Latch)	2 x 50-Pin Ribbon, Male, (Push Fit)	40-971-096-0.5m-FM	40-971-096-1m-FM	40-971-096-2m-FM	Yes	5.13





Cables: 96-Pin 1.27mm Pitch Micro-D Connector to Untermated						
End 1 (inc Screwlocks)	End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
		0.5m Long	1m Long	2m Long		
96-Pin Micro-D, Female, (Metal Spring Latch)	Ferrules	A096SFR-F-5A050	A096SFR-F-5A100	A096SFR-F-5A200	Yes	5.7
	Tinned	A096SFR-T-5A050	A096SFR-T-5A100	A096SFR-T-5A200		
	Cut End	40-972B-096-0.5m-FU	40-972B-096-1m-FU	40-972B-096-2m-FU		



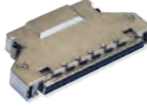
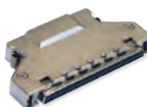
Connector Blocks: 96-Pin 1.27mm Pitch Micro-D					
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page	
	With Backshell	Without Backshell			
Connector Block, Female (M2.5 Screwlocks, Male)	40-965-096-F	92-965-096-F	Yes (PXI Modules)	5.15	
Connector Block - BRIC, Female (M2.5 Screwlocks, Male)	44-965-096-F	N/A	PXI Modules and BRIC	5.16	
Connector Block, Male (M2.5 Screwlocks, Male)	40-965-096-M	92-965-096-M	No	5.19	
Connector Block, Male, DIN Rail (Latch Clip)	40-966-096-M	N/A	No	5.20	
Connector Block, Female, DIN Rail (Latch Clip)	40-966-096-F	N/A	No	5.24	
Connector Block, Male, (M2.5 Screwlocks, Male)	44-965-096-M	N/A	No	5.27	

Cable Connectors: 96-Pin 1.27mm Pitch Micro-D				
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
	With Backshell	Without Backshell		
Cable Connector, Female, IDC for Ribbon Cable (Metal Spring Latch)	40-961-096-F	N/A	Yes	5.17
Cable Connector, Female, IDC for Discrete Wire (Metal Spring Latch)	40-962-096-F	N/A	Yes	5.18





PCB Connectors: 96-Pin 1.27mm Pitch Micro-D						
Type	Mount	Gender	Fixing	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	M2.5, Female	40-963-096-RF	No	5.25
		Male	M2.5, Female and Latch Clip	40-963-096-RM	Yes (Via a cable)	5.21
	Straight PCB Mount	Female	Push Fit	40-963-096-SF	No	5.26
		Male	Latch Clip	40-963-096-SM	Yes (Via a cable)	5.22

Contents - Mating Accessories for Pickering Products

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Female	Page 5.5
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D to Unterminated, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 5.7
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D to 100-Pin 1.27mm Pitch Micro-D Adaptor Lead, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Male	Page 5.9
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon, 1A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Female	Page 5.11
		Female	Male	Page 5.13




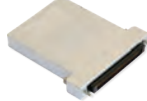
Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block 96-Pin 1.27mm Pitch Micro-D, M2.5 Screwlocks, 1A, Screw Terminal	With or Without Backshell	Female	Page 5.15
	Shielded Connector Block for use with BRIC Modules, 96-Pin 1.27mm Pitch Micro-D with Backshell, M2.5 Screwlocks, 1A, Screw Terminal			Page 5.16
	Cable Connector 96-Pin 1.27mm Pitch Micro-D, 1A, Metal Spring Latch IDC for Ribbon Cable	With Backshell		Page 5.17
	Cable Connector 96-Pin 1.27mm Pitch Micro-D, 1A, Metal Spring Latch IDC for Discrete Wire (Multicore or Individual Single cores, not Ribbon)	With Backshell		Page 5.18

Contents - Mating Accessories for Pickering Products (Continued)

Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block 96-Pin 1.27mm Pitch Micro-D, M2.5 Screwlocks, 1A, Screw Terminal	With or Without Backshell	Male	Page 5.19
	Shielded Connector Block with DIN Rail Mount, 96-Pin 1.27mm Pitch Micro-D with Backshell, Latch Clip, 1A, Screw Terminal			Page 5.20
	PCB Connector 96-Pin 1.27mm Pitch Micro-D, 1A	Right Angle PCB Mount		Page 5.21
		Straight PCB Mount		Page 5.22

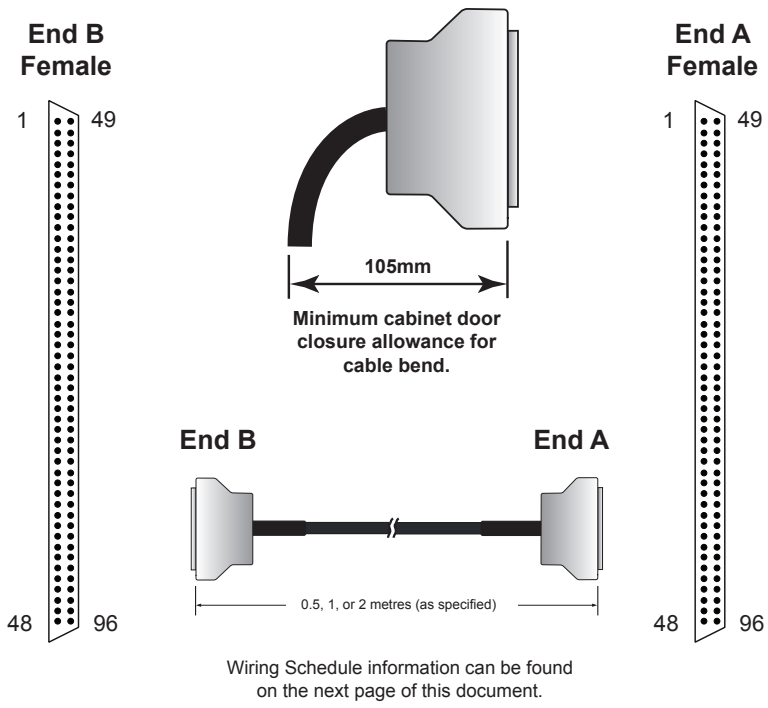
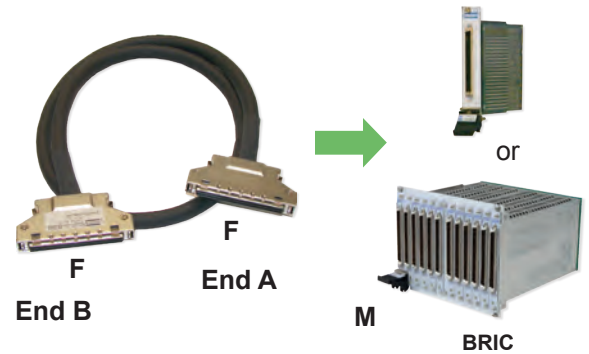
Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block with DIN Rail Mount, 96-Pin 1.27mm Pitch Micro-D with Backshell, Latch Clip, 1A, Screw Terminal		Female	Page 5.24
	PCB Connector 96-Pin 1.27mm Pitch Micro-D, 1A	Right Angle PCB Mount	Female	Page 5.25
		Straight PCB Mount		Page 5.26
	Shielded Connector Block, 96-Pin 1.27mm Pitch Micro-D with Backshell, 1A, M2.5 Screwlocks, Screw Terminal		Male	Page 5.27

96-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

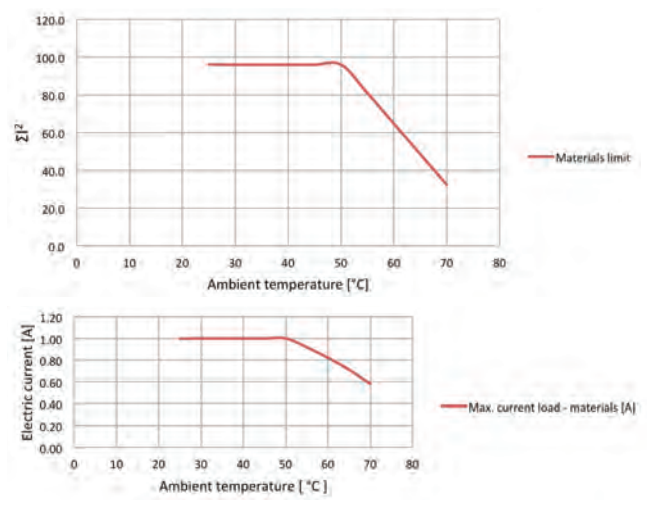
- High Specification Cable
- Highly Flexible Cable
- Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A):	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal Spring Latch
Connector Type (End B):	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal Spring Latch
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H78 x W12 x D40mm
Cable Type:	
Conductor: Material	Tinned copper
Strands	7/36 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970B-096-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 96-Pin 1.27mm Pitch Micro-D Cable Assy, 1A, Female to Female, 0.5m Long **40-970B-096-0.5m-FF**
- Female to Female, 1.0m Long **40-970B-096-1m-FF**
- Female to Female, 2.0m Long **40-970B-096-2m-FF**

Please ensure the correct connector gender is ordered for the application.

Wiring Schedule for 96-Pin 1.27mm Pitch Micro-D Cable Assy Female to Female

End B				End A				
Wire Color	Pin		Pin	Wire Color	Pin		Pin	Wire Color
Brown/Red	1	●	49	Red/Brown	1	●	49	Red/Brown
Tan/Black	2	●	50	Black/Tan	2	●	50	Black/Tan
Tan/Red	3	●	51	Red/Tan	3	●	51	Red/Tan
White/Black	4	●	52	Black/White	4	●	52	Black/White
White/Red	5	●	53	Red/White	5	●	53	Red/White
Violet/Grey	6	●	54	Grey/Violet	6	●	54	Grey/Violet
Blue/Grey	7	●	55	Grey/Blue	7	●	55	Grey/Blue
Blue/Violet	8	●	56	Violet/Blue	8	●	56	Violet/Blue
Green/Grey	9	●	57	Grey/Green	9	●	57	Grey/Green
Green/Violet	10	●	58	Violet/Green	10	●	58	Violet/Green
Green/Blue	11	●	59	Blue/Green	11	●	59	Blue/Green
Yellow/Grey	12	●	60	Grey/Yellow	12	●	60	Grey/Yellow
Yellow/Violet	13	●	61	Violet/Yellow	13	●	61	Violet/Yellow
Yellow/Blue	14	●	62	Blue/Yellow	14	●	62	Blue/Yellow
Yellow/Green	15	●	63	Green/Yellow	15	●	63	Green/Yellow
Orange/Grey	16	●	64	Grey/Orange	16	●	64	Grey/Orange
Orange/Violet	17	●	65	Violet/Orange	17	●	65	Violet/Orange
Orange/Blue	18	●	66	Blue/Orange	18	●	66	Blue/Orange
Orange/Green	19	●	67	Green/Orange	19	●	67	Green/Orange
Orange/Yellow	20	●	68	Yellow/Orange	20	●	68	Yellow/Orange
Pink/Grey	21	●	69	Grey/Pink	21	●	69	Grey/Pink
Pink/Violet	22	●	70	Violet/Pink	22	●	70	Violet/Pink
Pink/Blue	23	●	71	Blue/Pink	23	●	71	Blue/Pink
Pink/Green	24	●	72	Green/Pink	24	●	72	Green/Pink
Pink/Yellow	25	●	73	Yellow/Pink	25	●	73	Yellow/Pink
Pink/Orange	26	●	74	Orange/Pink	26	●	74	Orange/Pink
Brown/Grey	27	●	75	Grey/Brown	27	●	75	Grey/Brown
Brown/Violet	28	●	76	Violet/Brown	28	●	76	Violet/Brown
Brown/Blue	29	●	77	Blue/Brown	29	●	77	Blue/Brown
Brown/Green	30	●	78	Green/Brown	30	●	78	Green/Brown
Brown/Yellow	31	●	79	Yellow/Brown	31	●	79	Yellow/Brown
Brown/Orange	32	●	80	Orange/Brown	32	●	80	Orange/Brown
Brown/Pink	33	●	81	Pink/Brown	33	●	81	Pink/Brown
Tan/Grey	34	●	82	Grey/Tan	34	●	82	Grey/Tan
Tan/Violet	35	●	83	Violet/Tan	35	●	83	Violet/Tan
Tan/Blue	36	●	84	Blue/Tan	36	●	84	Blue/Tan
Tan/Green	37	●	85	Green/Tan	37	●	85	Green/Tan
Tan/Yellow	38	●	86	Yellow/Tan	38	●	86	Yellow/Tan
Tan/Orange	39	●	87	Orange/Tan	39	●	87	Orange/Tan
Tan/Pink	40	●	88	Pink/Tan	40	●	88	Pink/Tan
Tan/Brown	41	●	89	Brown/Tan	41	●	89	Brown/Tan
White/Grey	42	●	90	Grey/White	42	●	90	Grey/White
White/Violet	43	●	91	Violet/White	43	●	91	Violet/White
White/Blue	44	●	92	Blue/White	44	●	92	Blue/White
White/Green	45	●	93	Green/White	45	●	93	Green/White
White/Yellow	46	●	94	Yellow/White	46	●	94	Yellow/White
White/Orange	47	●	95	Orange/White	47	●	95	Orange/White
White/Pink	48	●	96	Pink/White	48	●	96	Pink/White

96-Pin 1.27mm Pitch Female Connector (Mating Face)

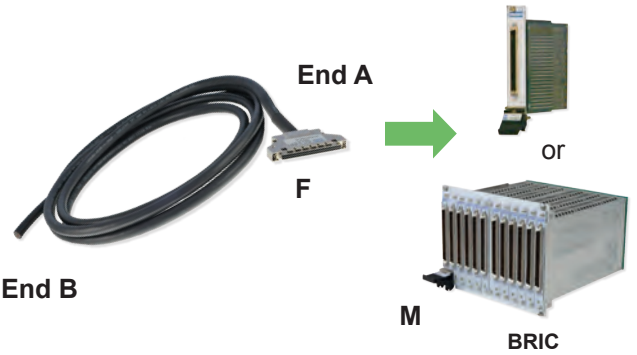
-- Denotes Twisted Pairing i.e. Pins 1 and 49 use paired wires

96-Pin 1.27mm Pitch Female Connector (Mating Face)

-- Denotes Twisted Pairing i.e. Pins 1 and 49 use paired wires

96-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Unterminated

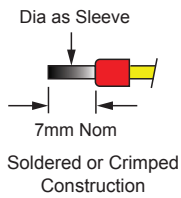
- High Specification and Highly Flexible Cable
- Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction
- Wires Color Coded to Ensure Easy Connection



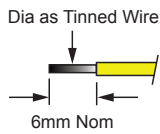
When using this product please ensure appropriate electrical safety precautions are observed.

End B Options

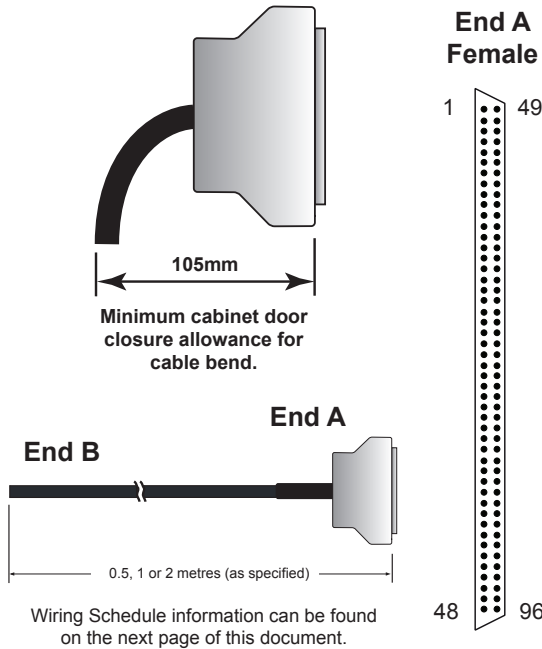
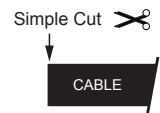
Ferrules



Tinned End



Cut End



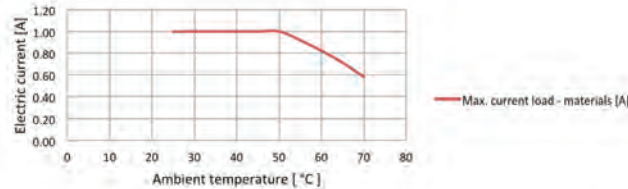
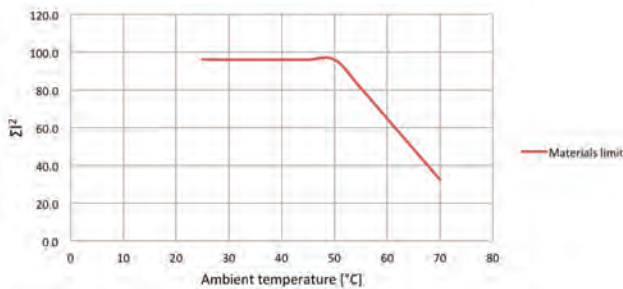
Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A):	96-Pin 1.27mm pitch Micro-D Female
Gender	Female
Securing Method	Metal spring latch
Unterminated End (End B):	Free Wire Length: 130mm nom (Not Cut end)
	Individual Wire Labelling: To connector pins
	Wire End Options: Ferrules, Tinned, Cut End
Cable Assembly Rating:	Maximum Current: 1A
	Maximum Voltage: 150V
	Insulation Resistance: 1000MΩ
Connector:	Contact Material: Gold plated copper alloy
	Contact Resistance: <35mOhm
	Cable Exit: Rear
	Overall Size (Approx): H78 x W12 x D40mm
Cable Type:	Multipaired: 100-Pin twisted pair with varying left and right hand lays to minimise crosstalk
	Conductor: Material: Tinned copper
	Strands: 7/36 (28 AWG, 0.38mm OD)
	Resistance: 0.22Ω/m
	Insulation: Polyolefin (0.71mm O/D)
	Outer Sleeve: PVC
	Screened Construction: Dual Shielded
	Additional Braided Sleeve: No
	Cable O/D: 12mm nominal
	Minimum Bend Radius: 25mm
	Door Closure Allowance: 105mm (see diagram)

Notes:
Other cable lengths can be supplied.

Characteristic Plots for 40-972B-096-1m



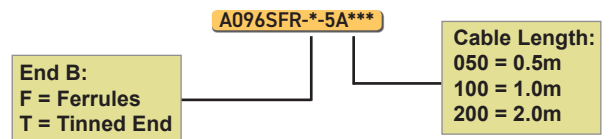
The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Cable Assy, 1A, Metal Latch, Fem to Unterminated, Cut End, 0.5m **40-972B-096-0.5m-FU**
 Fem to Unterminated, Cut End, 1.0m **40-972B-096-1m-FU**
 Fem to Unterminated, Cut End, 2.0m **40-972B-096-2m-FU**

Part numbers for other versions:



Wiring Schedule for 96-Pin 1.27mm Pitch Micro-D Cable Assy Female to Unterminated

End A

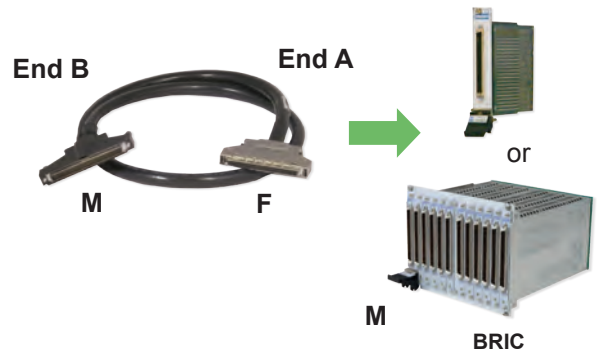
Wire Color	Pin		Pin	Wire Color
Brown/Red	1	● - - ●	49	Red/Brown
Tan/Black	2	● - - ●	50	Black/Tan
Tan/Red	3	● - - ●	51	Red/Tan
White/Black	4	● - - ●	52	Black/White
White/Red	5	● - - ●	53	Red/White
Violet/Grey	6	● - - ●	54	Grey/Violet
Blue/Grey	7	● - - ●	55	Grey/Blue
Blue/Violet	8	● - - ●	56	Violet/Blue
Green/Grey	9	● - - ●	57	Grey/Green
Green/Violet	10	● - - ●	58	Violet/Green
Green/Blue	11	● - - ●	59	Blue/Green
Yellow/Grey	12	● - - ●	60	Grey/Yellow
Yellow/Violet	13	● - - ●	61	Violet/Yellow
Yellow/Blue	14	● - - ●	62	Blue/Yellow
Yellow/Green	15	● - - ●	63	Green/Yellow
Orange/Grey	16	● - - ●	64	Grey/Orange
Orange/Violet	17	● - - ●	65	Violet/Orange
Orange/Blue	18	● - - ●	66	Blue/Orange
Orange/Green	19	● - - ●	67	Green/Orange
Orange/Yellow	20	● - - ●	68	Yellow/Orange
Pink/Grey	21	● - - ●	69	Grey/Pink
Pink/Violet	22	● - - ●	70	Violet/Pink
Pink/Blue	23	● - - ●	71	Blue/Pink
Pink/Green	24	● - - ●	72	Green/Pink
Pink/Yellow	25	● - - ●	73	Yellow/Pink
Pink/Orange	26	● - - ●	74	Orange/Pink
Brown/Grey	27	● - - ●	75	Grey/Brown
Brown/Violet	28	● - - ●	76	Violet/Brown
Brown/Blue	29	● - - ●	77	Blue/Brown
Brown/Green	30	● - - ●	78	Green/Brown
Brown/Yellow	31	● - - ●	79	Yellow/Brown
Brown/Orange	32	● - - ●	80	Orange/Brown
Brown/Pink	33	● - - ●	81	Pink/Brown
Tan/Grey	34	● - - ●	82	Grey/Tan
Tan/Violet	35	● - - ●	83	Violet/Tan
Tan/Blue	36	● - - ●	84	Blue/Tan
Tan/Green	37	● - - ●	85	Green/Tan
Tan/Yellow	38	● - - ●	86	Yellow/Tan
Tan/Orange	39	● - - ●	87	Orange/Tan
Tan/Pink	40	● - - ●	88	Pink/Tan
Tan/Brown	41	● - - ●	89	Brown/Tan
White/Grey	42	● - - ●	90	Grey/White
White/Violet	43	● - - ●	91	Violet/White
White/Blue	44	● - - ●	92	Blue/White
White/Green	45	● - - ●	93	Green/White
White/Yellow	46	● - - ●	94	Yellow/White
White/Orange	47	● - - ●	95	Orange/White
White/Pink	48	● - - ●	96	Pink/White

96-Pin 1.27mm Pitch Female Connector (Mating Face)

- - Denotes Twisted Pairing i.e. Pins 1 and 49 use paired wires

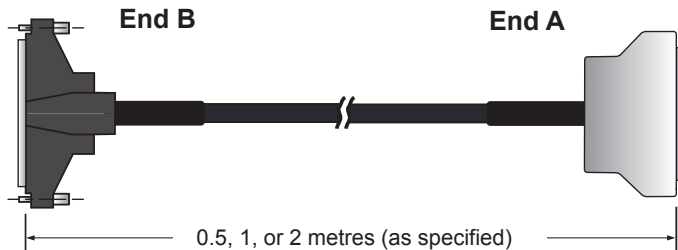
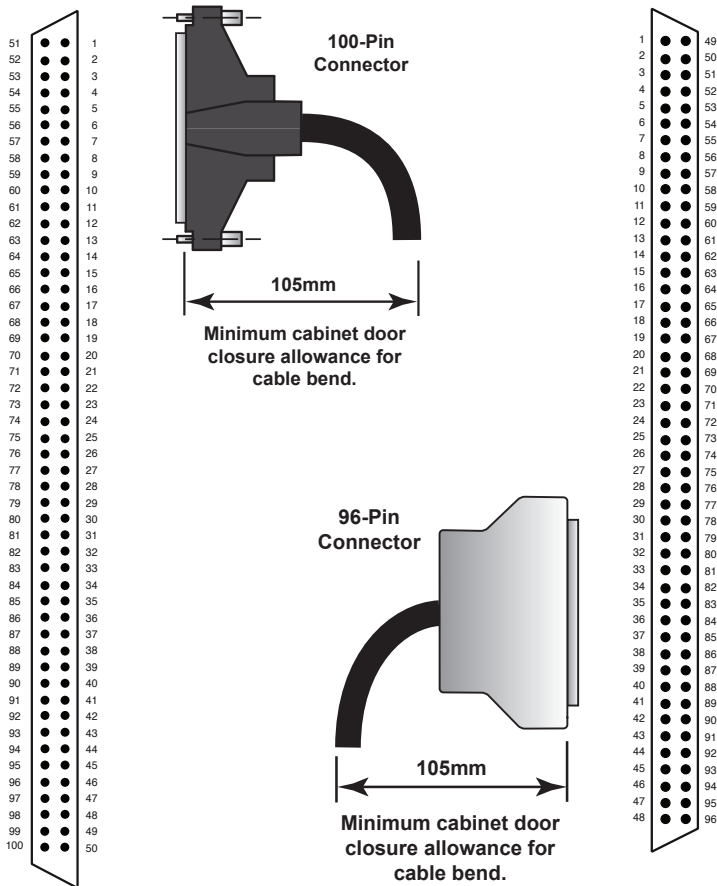
96-Pin 1.27mm Pitch (Female) to 100-Pin 1.27mm Pitch (Male) Adaptor Lead

- High Specification Cable
- Highly Flexible Cable
- Strain Relief
- Fully Screened Cable Construction



End B
100-Pin
Male

End A
96-Pin
Female



Wiring Schedule information can be found on the next page of this document.

Technical Specification

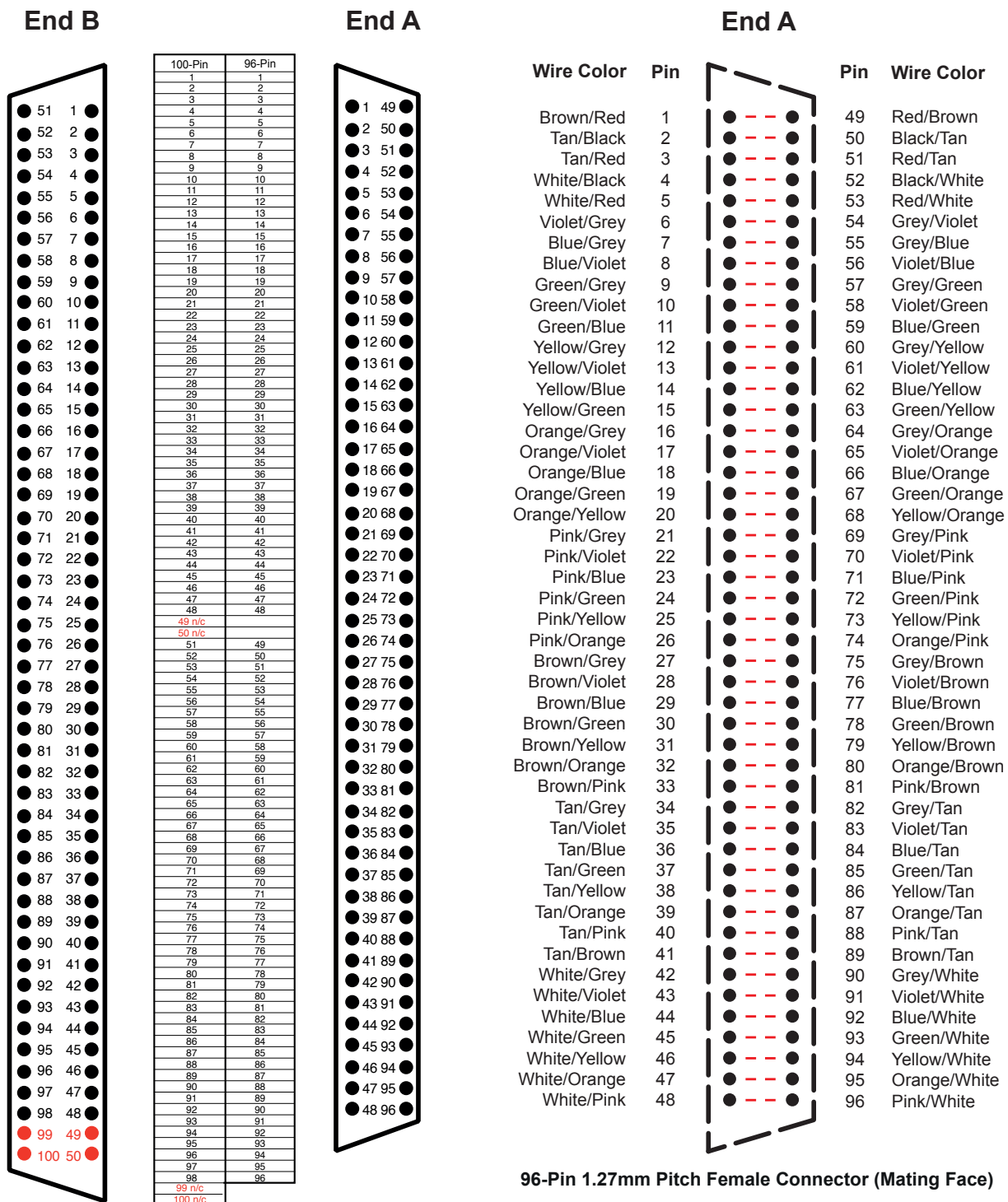
Connector Type (End A): Gender Securing Method Overall Size (Approx)	96-Pin 1.27mm pitch Micro-D Female Metal Spring Latch H78 x W12 x D40mm
Connector Type (End B): Gender Securing Method Overall Size (Approx)	100-Pin 1.27mm pitch Micro-D Male 4-40 UNC Screwlocks, male H85 x W16.5 x D53mm
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	1A 150V 1000MΩ
Connectors: Contact Material Contact Resistance Cable Exit	Gold plated copper alloy <35mOhm Rear
Cable Type:	Multipaired: 100-Pin twisted pair with varying left and right hand lays to minimise crosstalk
Conductor: Material Strands Resistance Insulation	Tinned copper 7/36 (28 AWG, 0.38mm OD) 0.22Ω/m Polyolefin (0.71mm O/D)
Outer Sleeve Screened Construction Additional Braided Sleeve	PVC Dual shielded No
Cable O/D Minimum Bend Radius Door Closure Allowance	12mm nominal 25mm 105mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

- 96-Pin 1.27mm Pitch Micro-D Female to 100-Pin 1.27mm Pitch Micro-D Male Adaptor Lead, 1A,
- 0.5m Long [40-973B-096-0.5m-FM](#)
 - 1.0m Long [40-973B-096-1m-FM](#)
 - 2.0m Long [40-973B-096-2m-FM](#)

Please ensure the correct connector gender is ordered for the application.

Wiring Schedule for Adaptor Lead, 96-Pin 1.27mm Pitch (Female) to 100-Pin 1.27mm Pitch (Male)

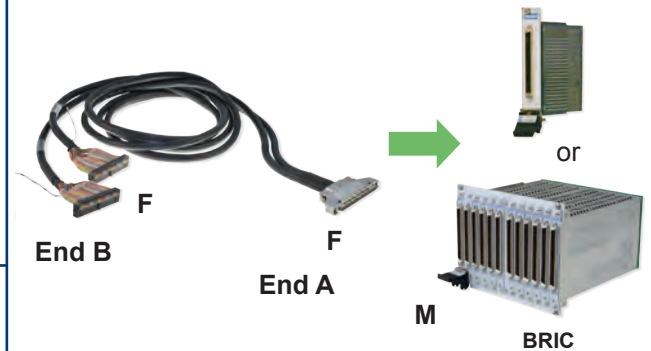


**100-Pin Male and 96-Pin Female Connectors
Showing Pin Linkage (Mating Faces Depicted)**

Note: Pins 49,50,99,100 are not connected on the 100-Pin connector

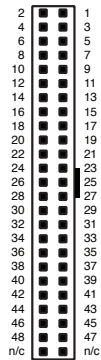
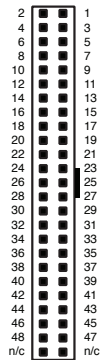
96-Pin 1.27mm Pitch (Female) to 2 x 50-Pin Ribbon (Female)

- High Specification Cable
- Highly Flexible Cable
- 96-Pin Connector with Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction

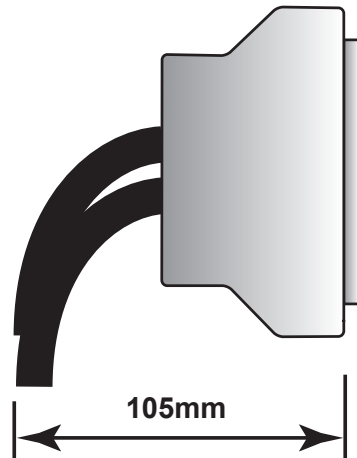
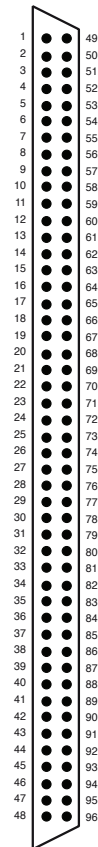


Solutions for connecting to the 50-Pin IDC connector can be found in Section 9.

End B
2 Off
50-Pin
Female



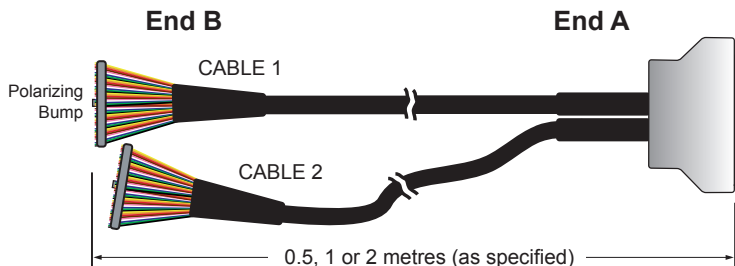
End A
96-Pin
Female



Minimum cabinet door closure allowance for cable bend.



Polarized Female IDC



Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A): Gender Securing Method Contact Material Contact Resistance Cable Exit Overall Size (Approx)	96-Pin 1.27mm pitch Micro-D Female Metal Spring Latch Gold plated copper alloy <35mOhm Rear H78 x W12 x D40mm
Connector Type (End B): Gender Securing Method Contact Material Contact Resistance Cable Exit Overall Size (Approx)	2 off 50-Pin polarized IDC 0.1" (2.54mm) pitch Female User defined Phosphor bronze with gold flash <20mOhm Side H17 x W68 x D6mm
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	1A 150V DC or AC peak 1000MΩ 2 x 50-Pin twisted pair, 1.27mm pitch ribbon cable. Wires paired 1&2, 3&4 etc Copper 28 AWG 0.2Ω/m SR-PVC PVC Yes No 10mm 25mm 105mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,

Female to Female, 0.5m Long

40-971-096-0.5m-FF

Female to Female, 1.0m Long

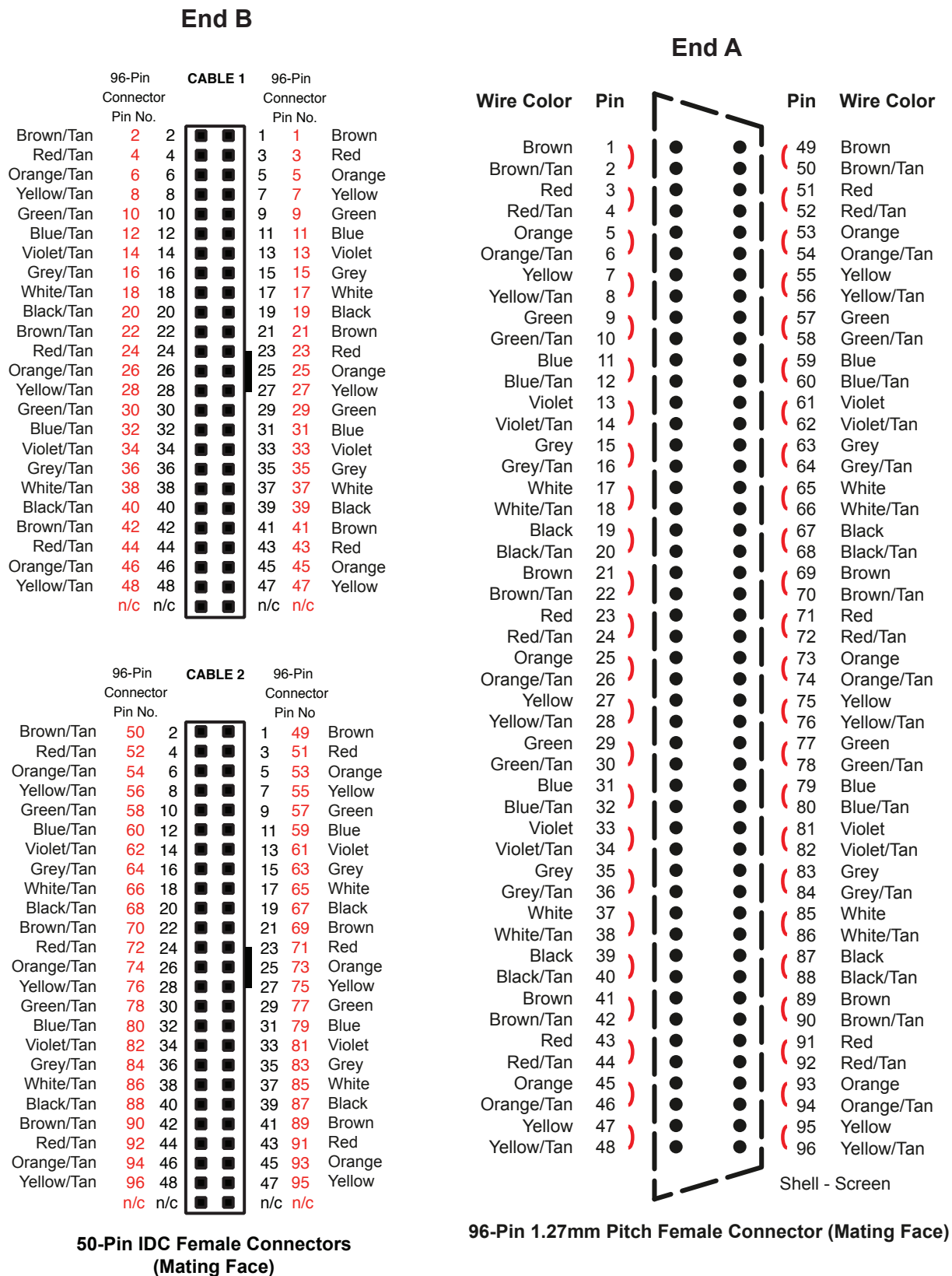
40-971-096-1m-FF

Female to Female, 2.0m Long

40-971-096-2m-FF

Please ensure the correct connector gender is ordered for the application.

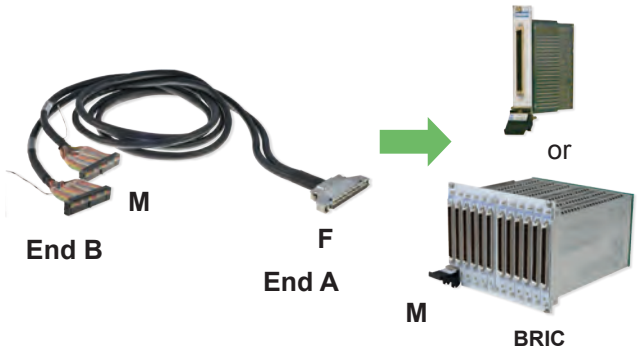
Wiring Schedule for 96-Pin 1.27mm Pitch (Female) to 2 x 50-Pin IDC (Female)



Note: Wires are paired 1 & 2, 3 & 4, etc

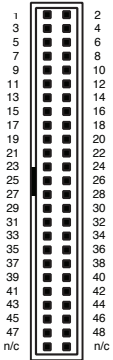
96-Pin 1.27mm Pitch (Female) to 2 x 50-Pin Ribbon (Male)

- High Specification Cable
- Highly Flexible Cable
- 96-Pin Connector with Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction

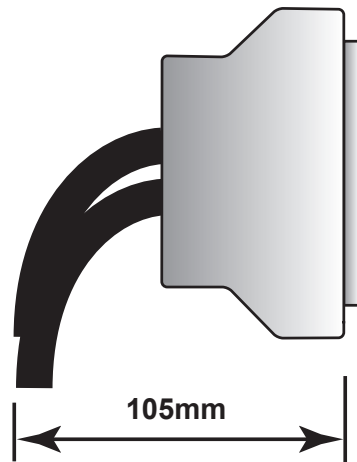
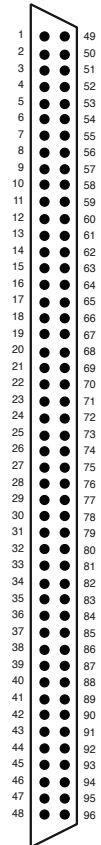


Solutions for connecting to the 50-Pin IDC connector can be found in Section 9.

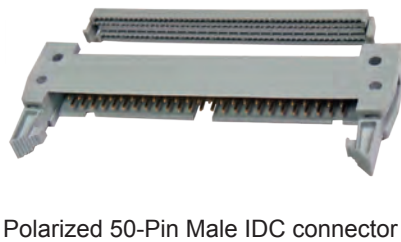
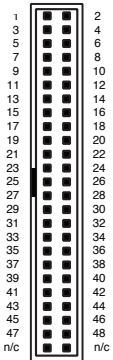
End B
2 Off
50-Pin
Male



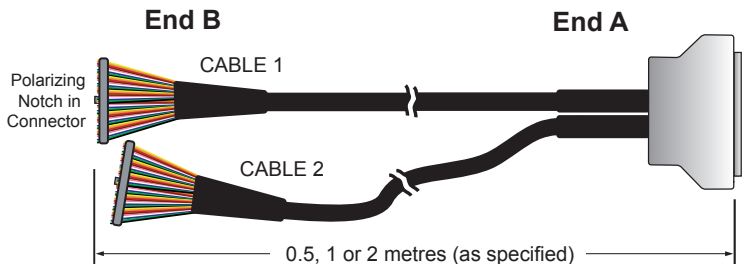
End A
96-Pin
Female



Minimum cabinet door closure allowance for cable bend.



Polarized 50-Pin Male IDC connector



Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A):	96-Pin 1.27mm pitch Micro-D Female
Gender	Female
Securing Method	Metal Spring Latch
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H78 x W12 x D40mm
Connector Type (End B):	2 off 50-Pin polarized IDC 0.1" (2.54mm) pitch Male
Gender	Male
Securing Method	User defined
Contact Material	Copper alloy with selective gold flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H30.4 x W82.3 x D8mm
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MΩ
Cable Type:	2 x 50-Pin twisted pair, 1.27mm pitch ribbon cable. Wires paired 1&2, 3&4 etc
Conductor: Material	Copper
Strands	28 AWG
Resistance	0.2Ω/m
Insulation	SR-PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,

Female to Male, 0.5m Long

40-971-096-0.5m-FM

Female to Male, 1.0m Long

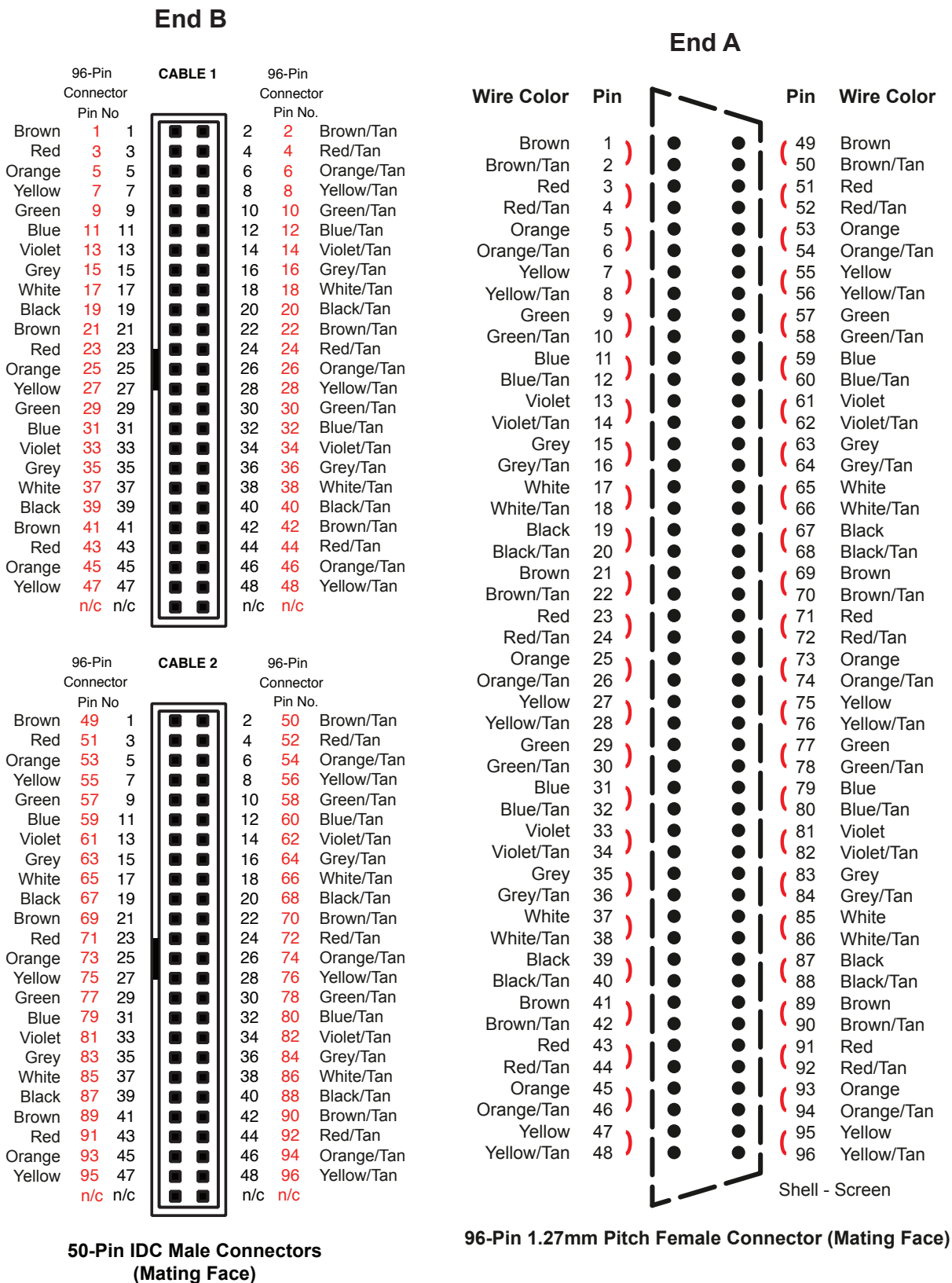
40-971-096-1m-FM

Female to Male, 2.0m Long

40-971-096-2m-FM

Please ensure the correct connector gender is ordered for the application.

Wiring Schedule for 96-Pin 1.27mm Pitch (Female) to 2 x 50-Pin IDC (Male)



96-Pin 1.27mm Pitch Micro-D Connector Block - Female

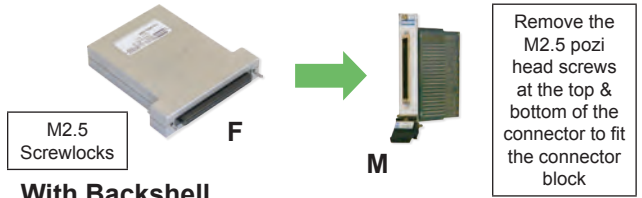
- Connector, PCB and Backshell
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

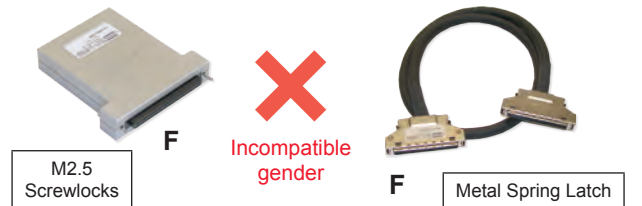
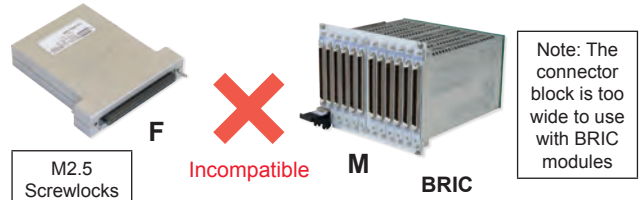
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

This connector block (with backshell) uses male screwlocks and will not mate to Pickering cables. When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

Please consider Connector Block 44-965-096 for any BRIC requirements.



With Backshell



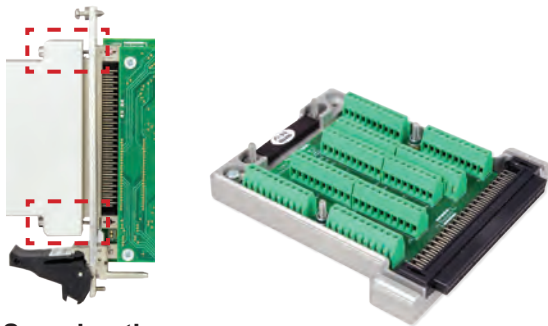
Without Backshell

Technical Specification

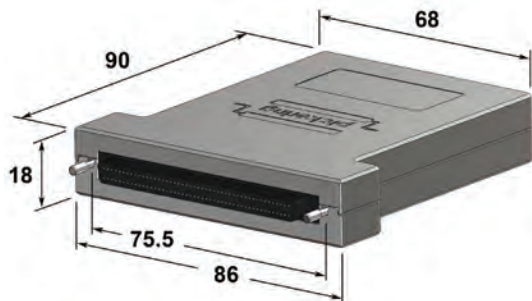
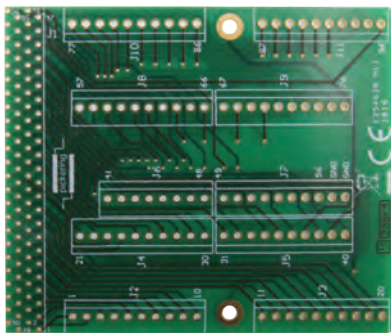
Connector Type: Gender	96-Pin 1.27mm pitch Micro-D Female
Securing Method: Product with Backshell Product without Backshell Wire Connection	M2.5 screwlocks, male Push fit Rising cage screw terminals
Connector Block Ratings: Maximum Current Maximum Voltage Cable Exit Overall Size (Approx)	1A 200V DC Rear - 10 x 30mm H86 x W18 x D95mm
96-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Screw Terminals: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Yes (in backshell)

Product Order Codes

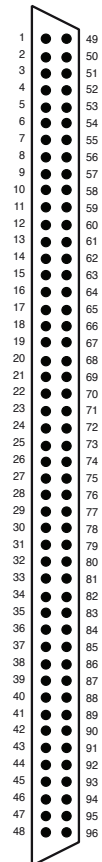
96-Pin 1.27mm Pitch Micro-D Shielded Connector Block, 1A, Screw Terminal, With Backshell, Female **40-965-096-F**
92-965-096-F



Securing the Connector Block



Female



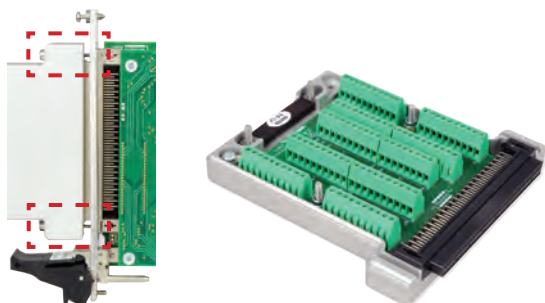
96-Pin 1.27mm Pitch Micro-D Connector Block - Female

- Connector, PCB and Backshell
- For Use with BRIC Modules
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

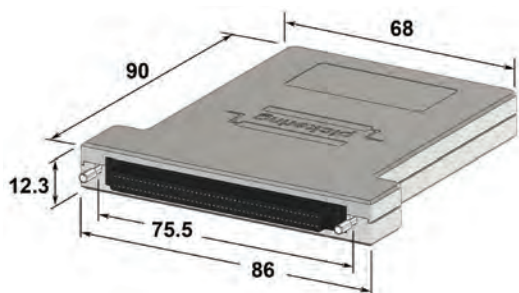
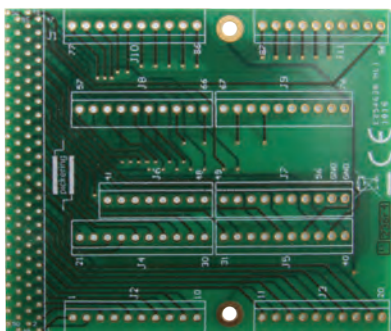
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

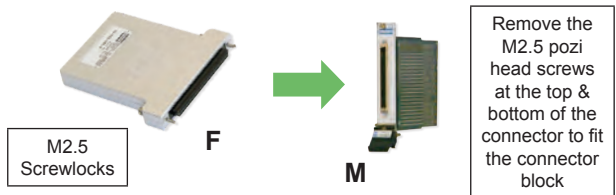
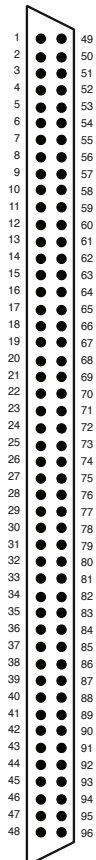
This connector block uses male screwlocks and will not mate to Pickering cables. If this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



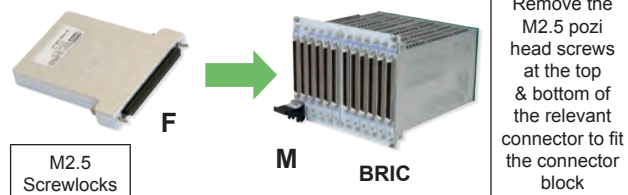
Securing the Connector Block



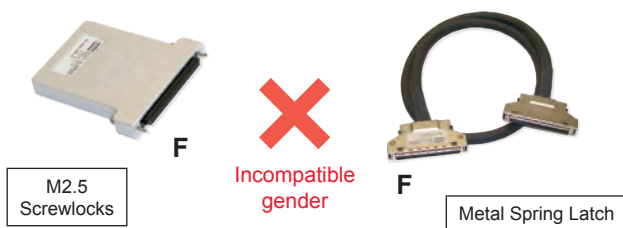
Female



Remove the M2.5 pozi head screws at the top & bottom of the connector to fit the connector block



Remove the M2.5 pozi head screws at the top & bottom of the relevant connector to fit the connector block



Incompatible gender

Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D Female
Gender	Female
Securing Method:	M2.5 screwlocks, male
Product with Backshell	Rising cage screw terminals
Wire Connection	
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit	Rear - 9.5 x 30mm
Overall Size (Approx)	H86 x W12.3 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block for BRIC Modules, 1A, Screw Terminal, With Backshell, Female

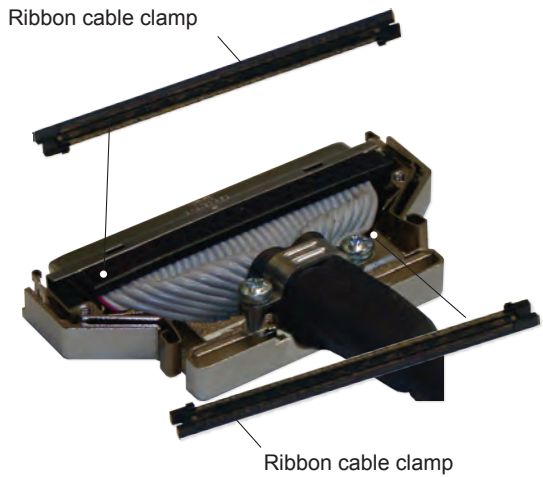
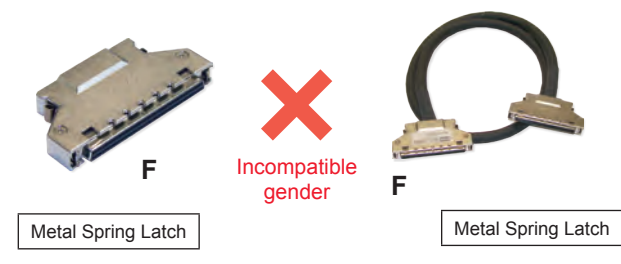
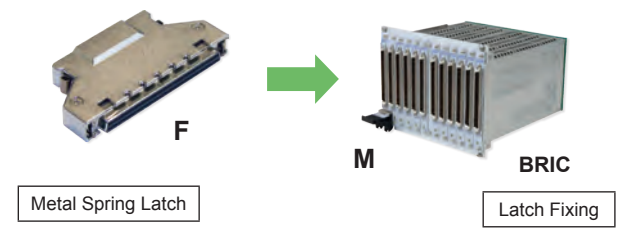
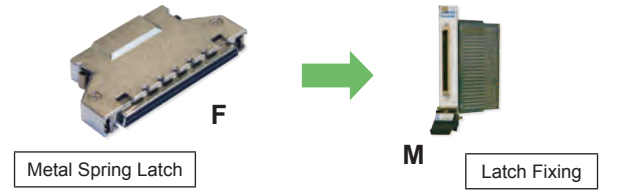
44-965-096-F

96-Pin 1.27mm Pitch Micro-D Connector - Female

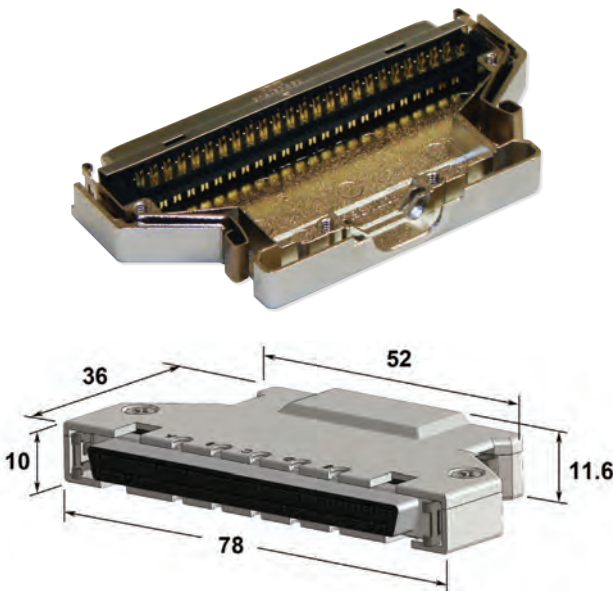
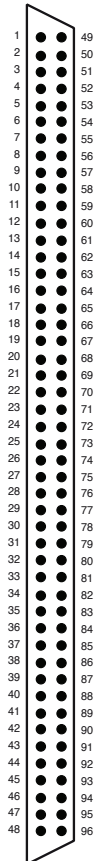
- Connector and Backshell
- Metal Spring Latches
- IDC for Ribbon Cable
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector.

It is difficult to terminate cable to the 96-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Female



Technical Specification

Connector Type: Gender Securing Method Wire Connection	96-Pin 1.27mm pitch Micro-D, Female Metal spring latch IDC for ribbon cable
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250V AC Rear 13 x 7.5mm H78 x W12 x D40mm
96-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Ribbon cable, 96-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

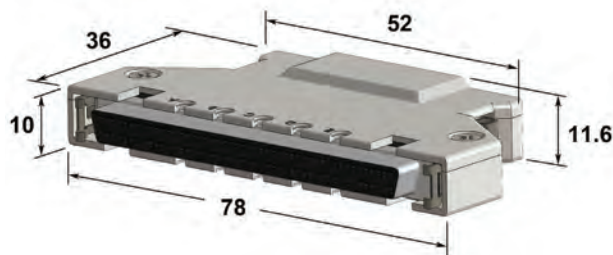
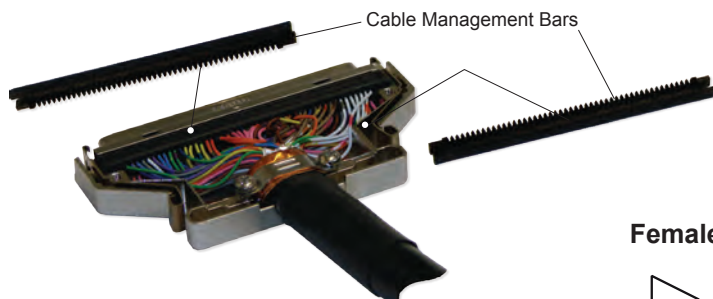
96-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable,
With Backshell, Female **40-961-096-F**
Please ensure the correct connector gender is ordered for the application.

96-Pin 1.27mm Pitch Micro-D Connector - Female

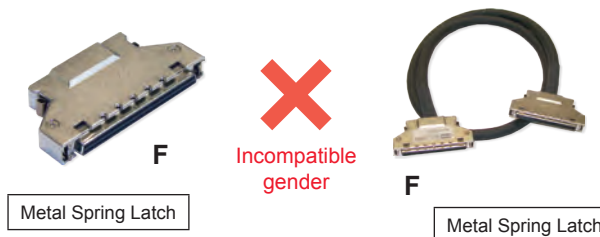
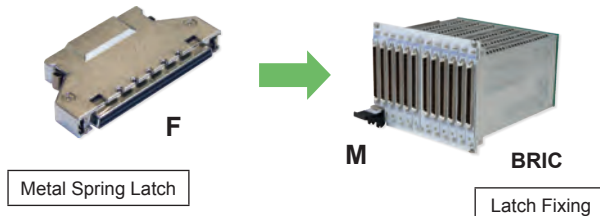
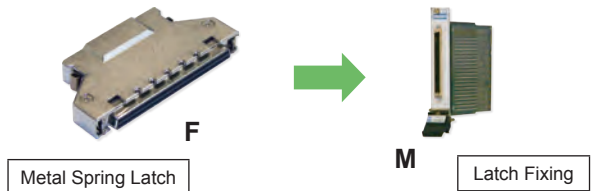
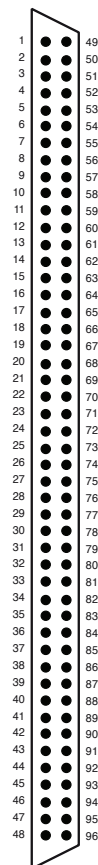
- Connector and Backshell
- Metal Spring Latches
- IDC for Discrete Wires
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 96-Pin 1.27mm Pitch Micro-D connector.

It is difficult to terminate cable to the 96-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Female



Technical Specification

Connector Type: Gender Securing Method Wire Connection	96-Pin 1.27mm pitch Micro-D, Female Metal spring latch IDC for discrete wires
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250V AC Rear 13 x 7.5mm H78 x W12 x D40mm
96-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Recommended Wire	28AWG Multicore 96-Pin or single core,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire Cable (Multicore or Individual Single Cores, not Ribbon),

With Backshell, Female

40-962-096-F

Please ensure the correct connector gender is ordered for the application.

96-Pin 1.27mm Pitch Micro-D Connector Block - Male

- Connector, PCB and Backshell
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

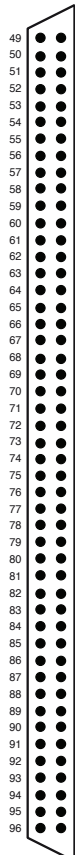
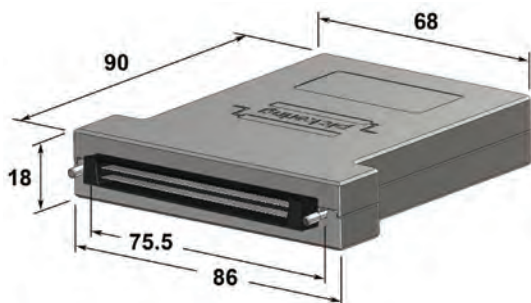
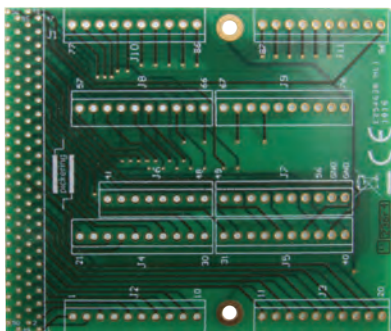
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

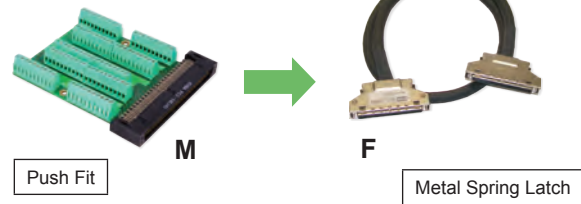
Please consider Connector Block 44-965-096 for any BRIC requirements.



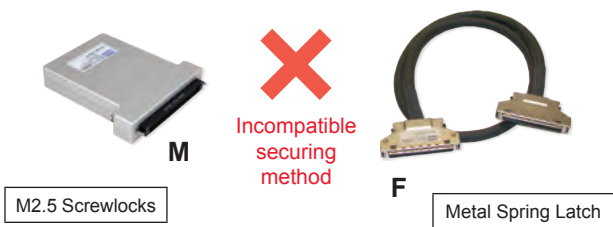
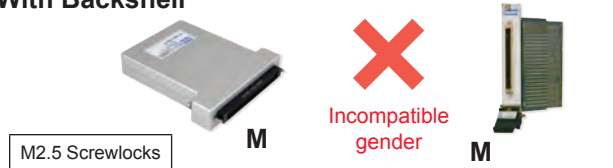
Male



Without Backshell



With Backshell



Technical Specification

Connector Type: Gender	96-Pin 1.27mm pitch Micro-D Male
Securing Method: Product with Backshell Product without Backshell Wire Connection	M2.5 screwlocks, male Push fit Rising cage screw terminals
Connector Block Ratings: Maximum Current Maximum Voltage Cable Exit Overall Size (Approx)	1A 200V DC Rear - 10 x 30mm H86 x W18 x D95mm
96-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Screw Terminals: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE type Yes (in backshell)

Product Order Codes

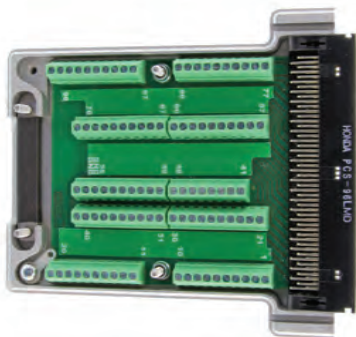
96-Pin 1.27mm Pitch Micro-D Shielded Connector Block, 1A, Screw Terminal,
With Backshell, Male 40-965-096-M
Without Backshell, Male 92-965-096-M

96-Pin 1.27mm Pitch Micro-D Connector Block - Male

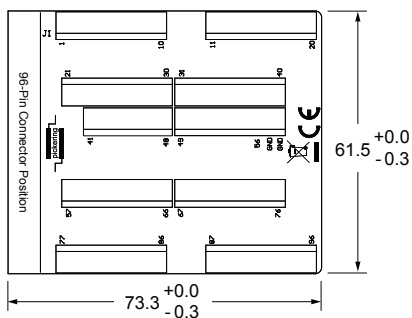
- For Connection at Cable End
- DIN Rail Mounted
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

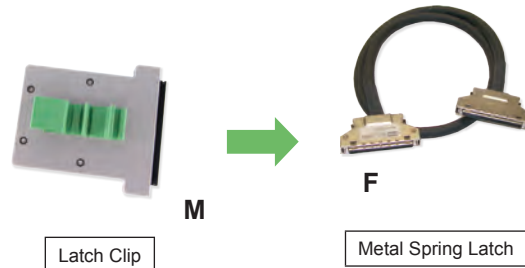
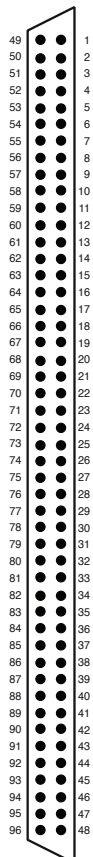
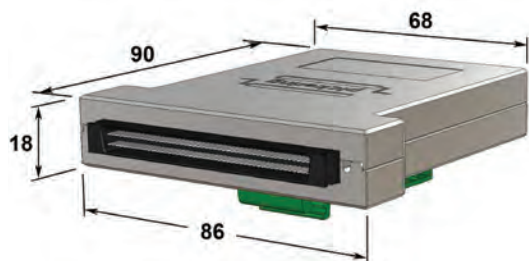
Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 96-Pin 1.27mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board. Latch clips are supplied in order to provide strain relief between the connector and the cable.



Male



PCB Layout



Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Latch clip
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit	Rear - 10 x 30mm
Overall Size (Approx)	H86 x W18 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, Screw Terminal, with Backshell, Male **40-966-096-M**

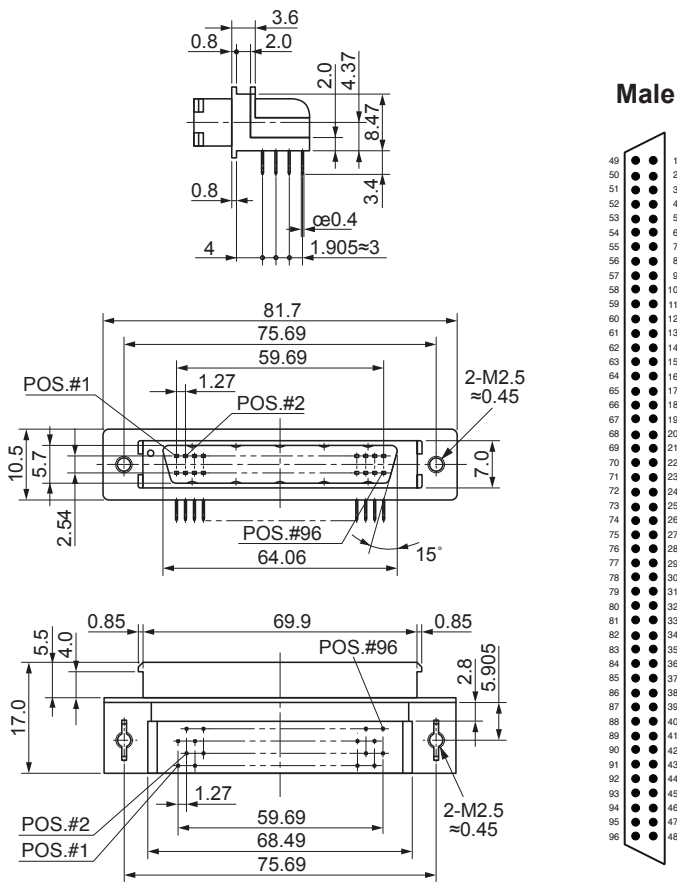
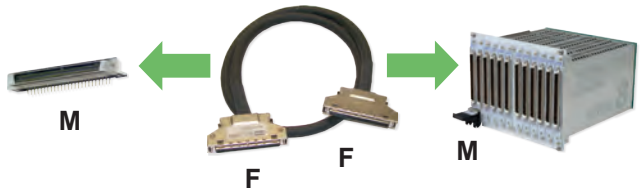
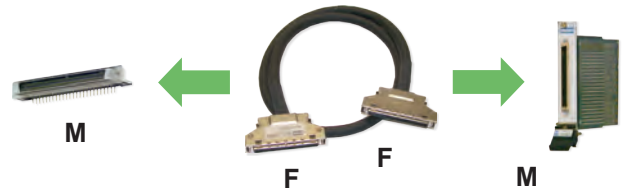
Please ensure the correct connector gender is ordered for the application.

96-Pin 1.27mm Pitch Micro-D Connector, Right Angle PCB Mount - Male

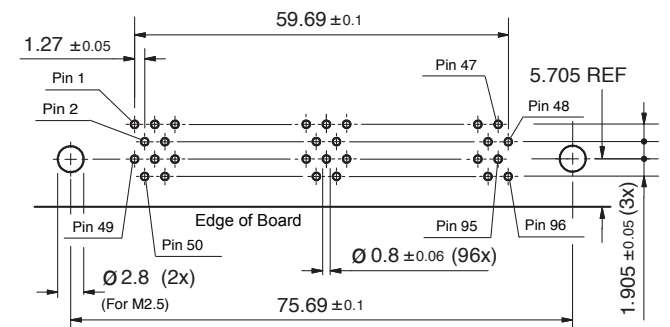
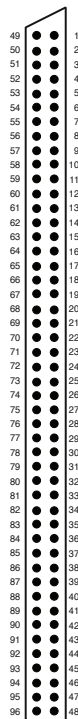
- Right Angle PCB Mount
- Latch Clip and M2.5 Screwlocks
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

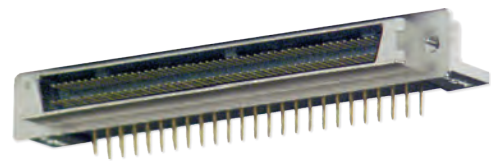
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male



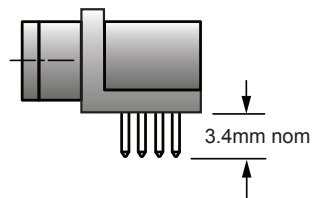
PCB Footprint of 96-Pin Right Angle Male Connector (Connector Side - Not to Scale)



Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Latch clip and M2.5 screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length	3,4mm nom (See diagram)

Leg Length



Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount,

Male

40-963-096-RM

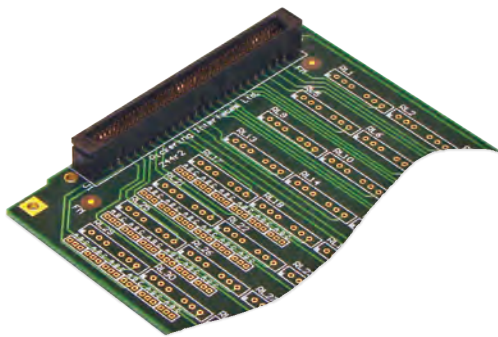
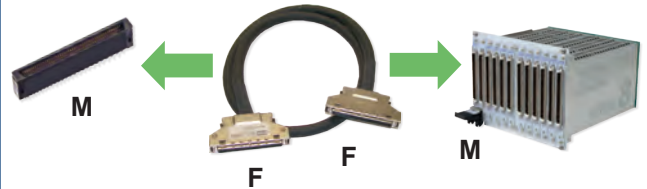
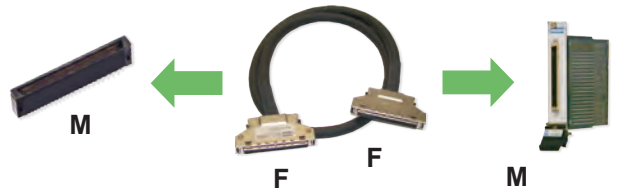
Please ensure the correct connector gender is ordered for the application.

96-Pin 1.27mm Pitch Micro-D Connector, Straight PCB Mount - Male

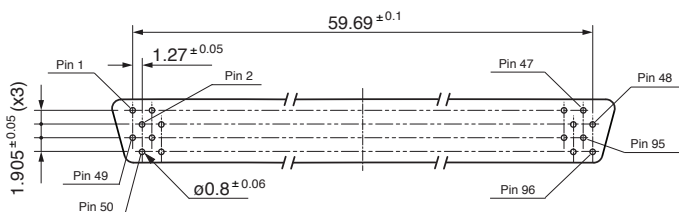
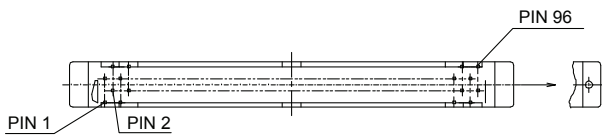
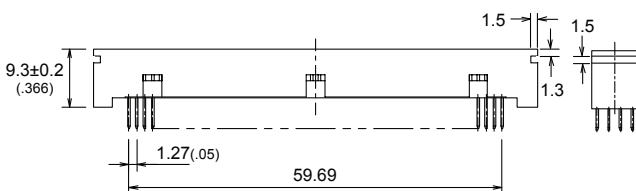
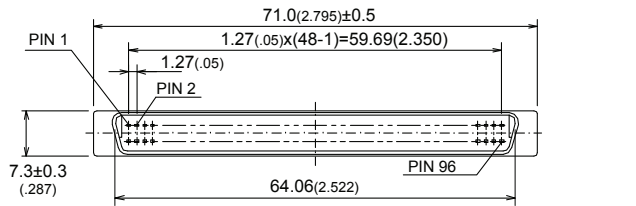
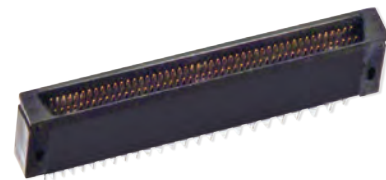
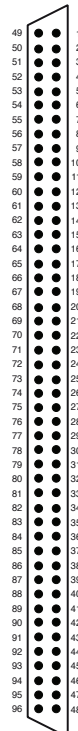
- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



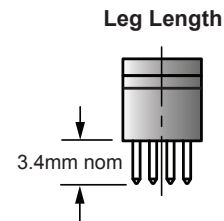
Male



PCB Footprint of 96-Pin Straight Male Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Latch clip
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length	3,4mm nom (See diagram)



Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Straight PCB Mount, Male 40-963-096-SM

Please ensure the correct connector gender is ordered for the application.

96-Pin 1.27mm Pitch Micro-D Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

96-Pin 1.27mm Pitch Micro-D Connector Block - Female

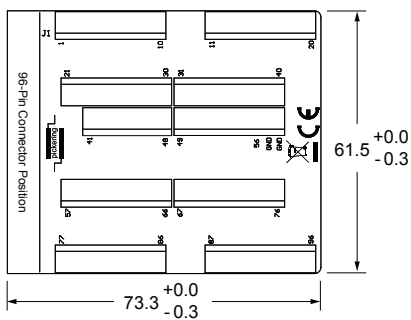
- For Connection at Cable End
- DIN Rail Mounted
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

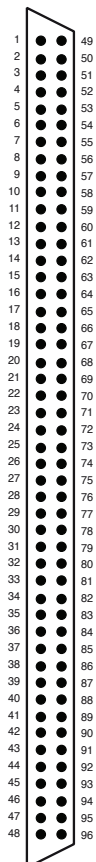
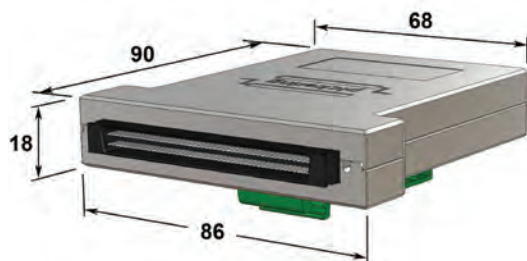
Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 96-Pin 1.27mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board. Latch clips are supplied in order to provide strain relief between the connector and the cable.



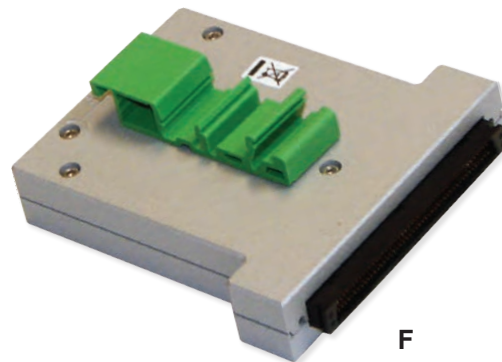
Female



PCB Layout



This Connector Block is Not Suitable for Connection to a Pickering Switching Product



Latch Clip

Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Latch clip
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit	Rear - 10 x 30mm
Overall Size (Approx)	H86 x W18 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, Screw Terminal, with Backshell, Female 40-966-096-F

Please ensure the correct connector gender is ordered for the application.

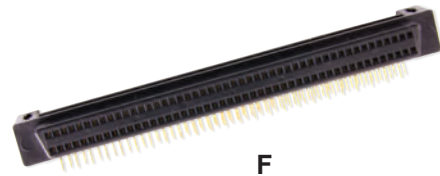
96-Pin 1.27mm Pitch Micro-D Connector, Right Angle PCB Mount - Female

- Right Angle PCB Mount
- M2.5 Screwlocks
- Ideal for User Created Termination Solutions

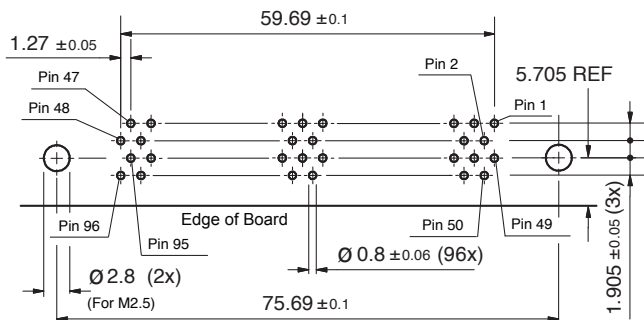
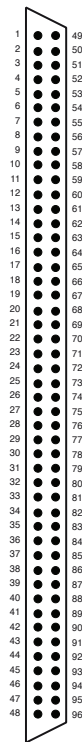
Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product or standard Pickering cable.

This Connector is Not Suitable for Connection to a Pickering Switching Product



Female

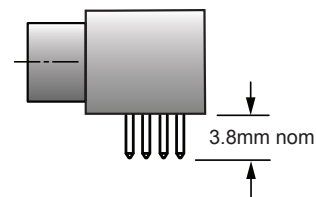


PCB Footprint of 96-Pin Right Angle Female Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Push fit
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length	3,8mm nom (See diagram)

Leg Length



Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount, Female 40-963-096-RF
Please ensure the correct connector gender is ordered for the application.

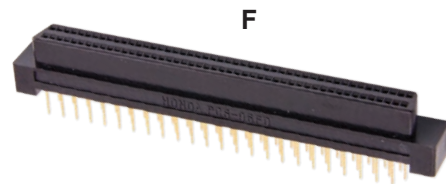
96-Pin 1.27mm Pitch Micro-D Connector, Straight PCB Mount - Female

- Straight PCB Mount
- Ideal for User Created Termination Solutions

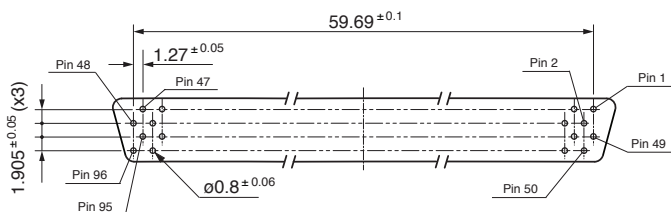
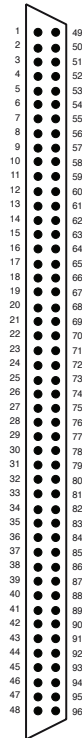
Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product or standard Pickering cable.

**This Connector is Not Suitable
for Connection
to a Pickering Switching Product**



Female

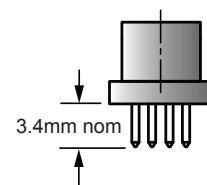


PCB Footprint of 96-Pin Straight Female Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Push fit
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length	3,4mm nom (See diagram)

Leg Length



Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Straight PCB Mount, Female

40-963-096-SF

Please ensure the correct connector gender is ordered for the application.

96-Pin 1.27mm Pitch Micro-D Connector Block - Male

- Connector, PCB and Backshell
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

If this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

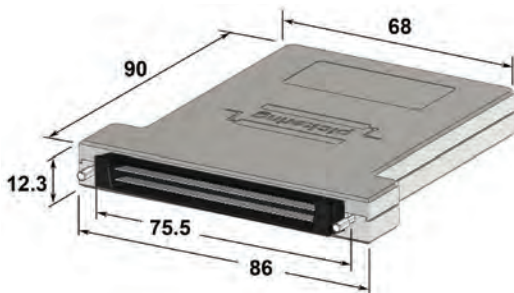
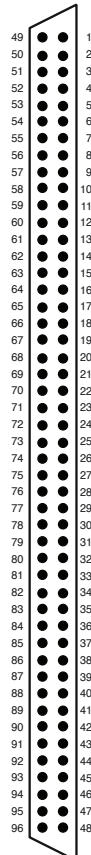
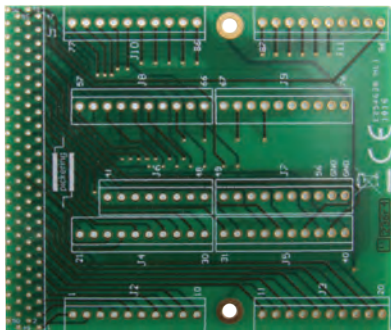
This Connector Block is Not Suitable for Connection to a Pickering Switching Product



M2.5 Screwlocks



Male



Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method:	
Product with Backshell	M2.5 screwlocks, male
Wire Connection	Rising cage screw terminal
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit	Rear - 9.5 x 30mm
Overall Size (Approx)	H86 x W12.3 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block, 1A, Screw Terminal, With Backshell, Male

44-965-096-M

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78-Pin D-type Connector Accessories

- **Standard Voltage to 250V AC/400V, 3A**
- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**



The Standard Voltage 78-Pin D-Type connector is used on PXI and LXI switching products to provide a medium density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 78-Pin D-Type Connection Accessories




Cables: 78-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-078-0.5m-MF	40-970-078-1m-MF	40-970-078-2m-MF	Yes (Female end)	6.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-078-0.5m-FF	40-970-078-1m-FF	40-970-078-2m-FF	Yes	6.6
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-078-0.5m-MM	40-970-078-1m-MM	40-970-078-2m-MM	No	6.19
Female	45° Away from Pin 1	Male, (32, 24, 16 or 8 Thermocouple Plugs)	Rear	-	A078DFR-32M002T5A100	-	Yes	6.8
					A078DFR-24M002T5A100			
					A078DFR-16M002T5A100			
					A078DFR-08M002T5A100			





Cables: 78-Pin D-Type Connector to Untermated								
End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-078-0.5m-FU	40-972-078-1m-FU	40-972-078-2m-FU	Yes	6.7	
		Tinned Ends	A078HF4-T-0A050	A078HF4-T-0A100	A078HF4-T-0A200	Yes		
		Cut End	A078HF4-C-0A050	A078HF4-C-0A100	A078HF4-C-0A200	Yes		
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-078-0.5m-MU	40-972-078-1m-MU	40-972-078-2m-MU	No	6.20	
		Tinned Ends	A078HM5-T-0A050	A078HM5-T-0A100	A078HM5-T-0A200	No		
		Cut End	A078HM5-C-0A050	A078HM5-C-0A100	A078HM5-C-0A200	No		



Cable Connectors and Connector Blocks: 78-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Connector Block	Female	Rear	40-965-078-F	92-965-078-F	Yes	6.10
	Male		40-965-078-M	92-965-078-M	No	6.21
Cable Connector	Female	45° Options	40-960-078-F	92-960-078-F	Yes	6.12
	Male	45° Options	40-960-078-M	92-960-078-M	No	6.22

Breakouts and PCB Connectors: 78-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
Breakout	DIN Rail Mount	Female	N/A	40-967-078-F	No	6.11
		Male	N/A	40-967-078-M	No	6.15
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-078-RF	No	6.13
		Male	N/A	40-963-078-RM	No	6.16
	Straight PCB Mount	Female	N/A	40-963-078-SF	No	6.14
		Male	N/A	40-963-078-SM	No	6.17

Contents - Mating Accessories for Pickering Products



Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 78-Pin D-Type, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 6.5
		Female	Female	Page 6.6
	Cable Assy, 78-Pin D-Type to Unterminated, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 6.7
	Thermocouple Cable Assy for 41-760, 78-Pin D-Type to 32, 24, 16 or 8 Thermocouple Plugs. 1m Long Custom lengths by quotation	Female	Male, Mini Thermocouple Plugs	Page 6.8

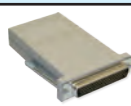

Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block, 78-Pin D-Type, 2A, Screw Terminal.	With or Without Backshell	Female	Page 6.10
	Breakout with DIN Rail Mount, 78-Pin D-Type, 2A, Screw Terminal			Page 6.11
	Cable Connector 78-Pin D-Type, 3A, Solder Bucket	With or Without Backshell		Page 6.12
	PCB Connector 78-Pin D-Type, 3A	Right Angle PCB Mount		Page 6.13
		Straight PCB Mount		Page 6.14

Male Breakouts/PCB Connectors				
View	Description	Type	Gender	Page
	Breakout with DIN Rail Mount, 78-Pin D-Type, 2A, Screw Terminal		Male	Page 6.15
	PCB Connector 78-Pin D-Type, 3A	Right Angle PCB Mount		Page 6.16
		Straight PCB Mount		Page 6.17

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 78-Pin D-Type, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 6.19
	Cable Assy, 78-Pin D-Type to Unterminated, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 6.20

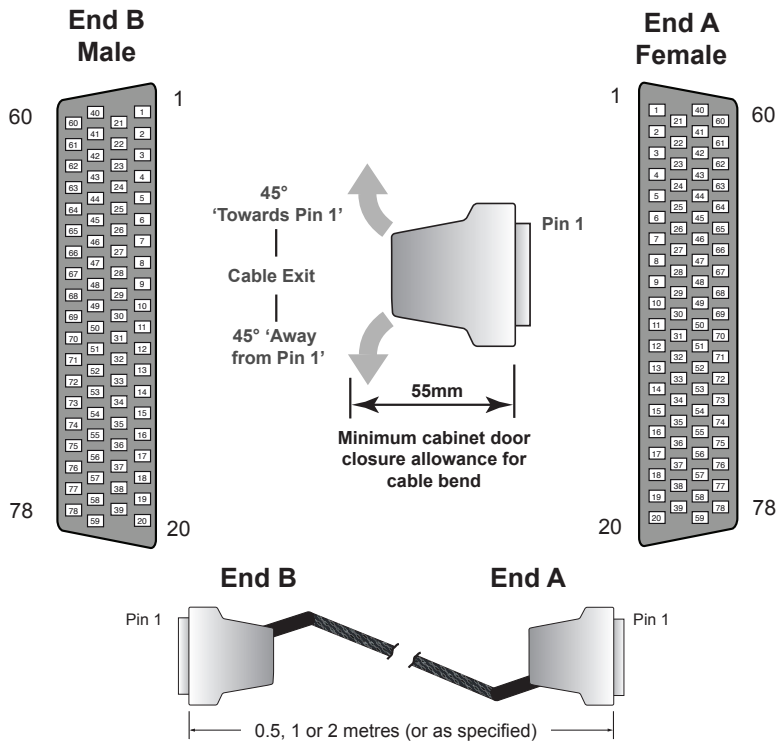
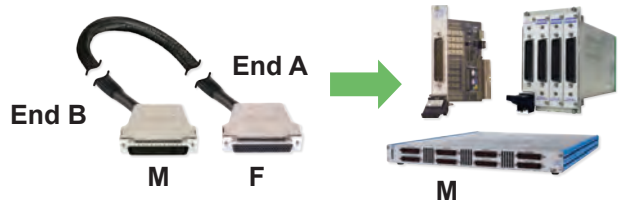
Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block, 78-Pin D-Type, 2A, Screw Terminal.	With or Without Backshell	Male	Page 6.21
	Cable Connector 78-Pin D-Type, 3A, Solder Bucket	With or Without Backshell		Page 6.22

Custom Termination

Section 25

78-Pin D-Type Cable Assy - Male to Female

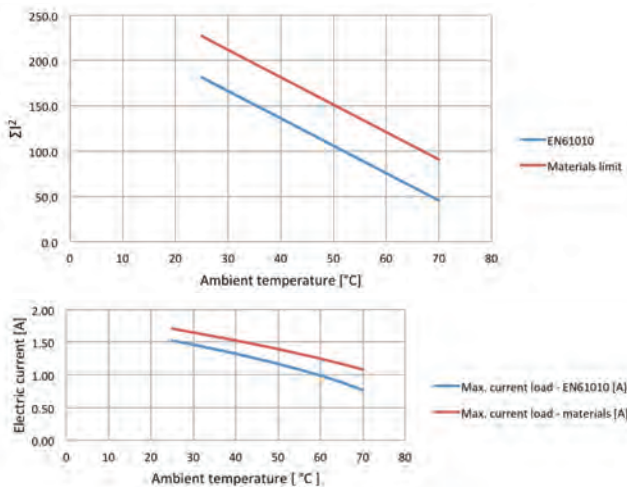
- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A):	78-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	78-Pin D-Subminiature Density and a half Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-078-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

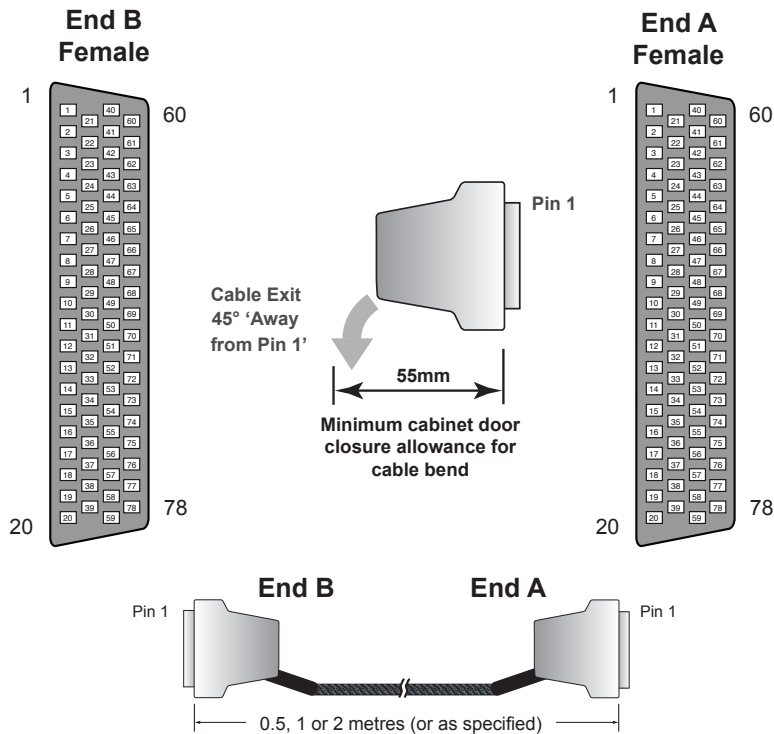
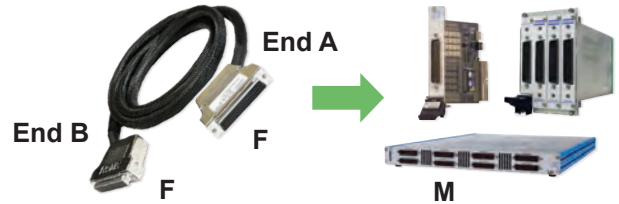
78-Pin D-Type Cable Assy, 3A, Male to Female,

- 0.5m Long
- 1.0m Long
- 2.0m Long

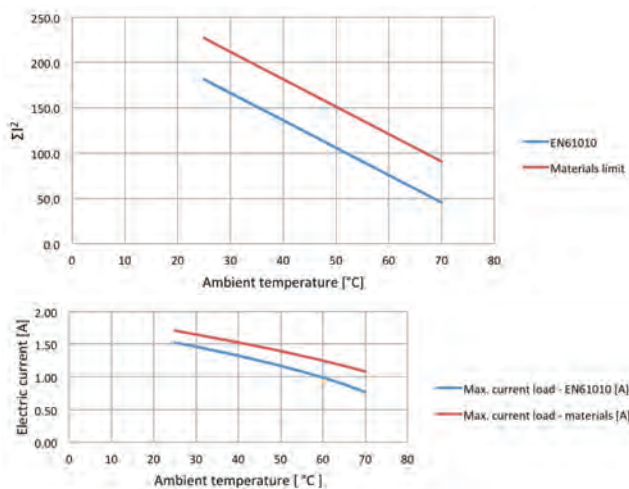
- 40-970-078-0.5m-MF
- 40-970-078-1m-MF
- 40-970-078-2m-MF

78-Pin D-Type Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Characteristic Plots for 40-970-078-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	78-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	78-Pin D-Subminiature Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000M Ω m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20m Ω m
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137 Ω /m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

78-Pin D-Type Cable Assy, 3A, Female to Female,

0.5m Long

40-970-078-0.5m-FF

1.0m Long

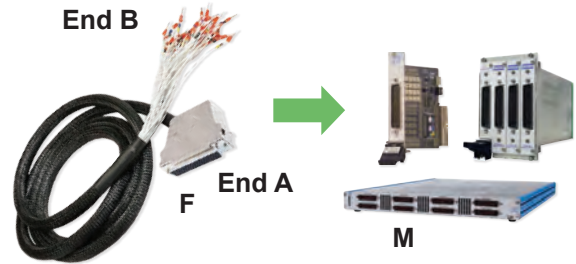
40-970-078-1m-FF

2.0m Long

40-970-078-2m-FF

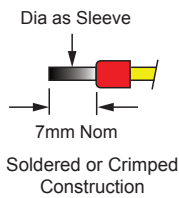
78-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

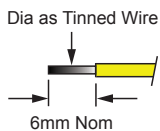


End B Options

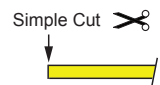
Ferrules



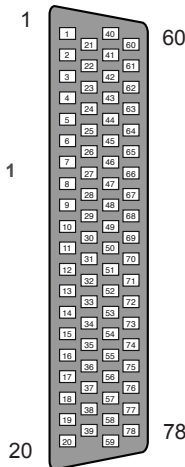
Tinned End



Cut End



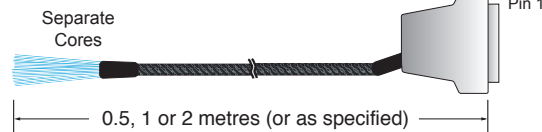
End A - Female



Cable Exit
45° 'Away
from Pin 1'

55mm
Minimum cabinet door
closure allowance for
cable bend

End B

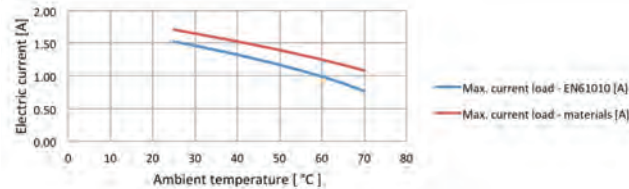
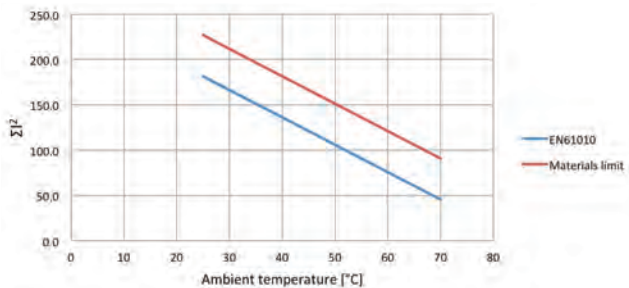


Technical Specification

Connector Type (End A):	78-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	Free Wire Length Individual Wire Labelling Wire End Options
Cable Assembly Rating:	130mm nominal To connector pins Ferrules, Tinned, Cut End
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MΩm
Connector:	Gold plated copper alloy Contact Resistance 20mΩm
Contact Material	Gold plated copper alloy
Contact Resistance	20mΩm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:
Other cable lengths can be supplied.

Characteristic Plots for 40-972-078-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 78-Pin D-Type Cable Assy, 3A, Boot Lace Ferrules,
 Female to Unterminated, 0.5m Long **40-972-078-0.5m-FU**
 Female to Unterminated, 1.0m Long **40-972-078-1m-FU**
 Female to Unterminated, 2.0m Long **40-972-078-2m-FU**

Part numbers for other versions:

End B:
 T = Tinned End
 C = Cut End

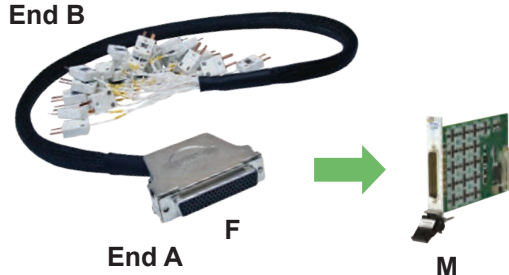
A078HF4-*-0A***

Cable Length:
 050 = 0.5m
 100 = 1.0m
 200 = 2.0m

78-Pin D-Type to Mini Thermocouple Plugs Cable Assy - Female to Male

- High Specification and Highly Flexible Cable
- Compatible with the Millivolt Thermocouple Simulator Module (41-760)
- Braided Sleeve
- Strain Relief on D-Type Connector
- Fully Coded Markers to Ensure Easy Connection

End B



End A

F

M

Technical Specification

Connector Type (End A):	78-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	Mini Copper Thermocouple Plugs
Gender	Male
Securing Method	Push Fit
Free Wire Length	100mm nominal
Individual Wire Labelling	As thermocouple channel
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	125VAC
Insulation Resistance	3000MOhm/m
Connector (End A):	
Contact Material	Brass
Contact Resistance	20mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H68 x W18.5 x D55mm
Connector (End B):	
Contact Material	Brass
Max Continuous Temperature	150°C
Cable Exit	Rear with cable clamp
Overall Size (Excluding Pins)	H16 x W8 x D20.2mm
Cable Type:	
Conductor: Material	Silver plated copper
Strands	7/0.15mm
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	-
Screened Construction	No
Additional Braided Sleeve	Yes
Cable O/D	12mm max
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

78-Pin D-Type Cable Assy, 3A,

Female to 32 x Mini Thermocouple Plugs, 1m Long

A078DFR-32M002T5A100

Female to 24 x Mini Thermocouple Plugs, 1m Long

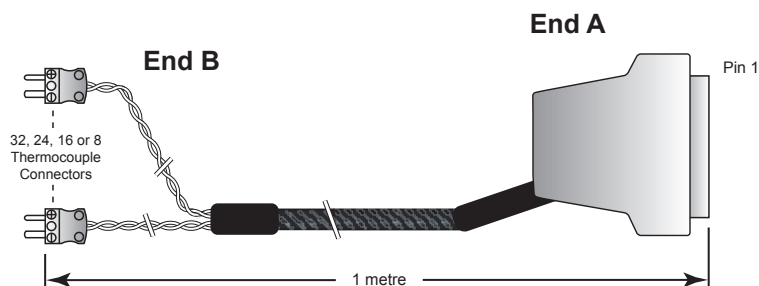
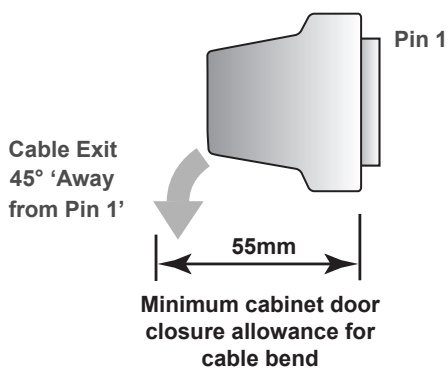
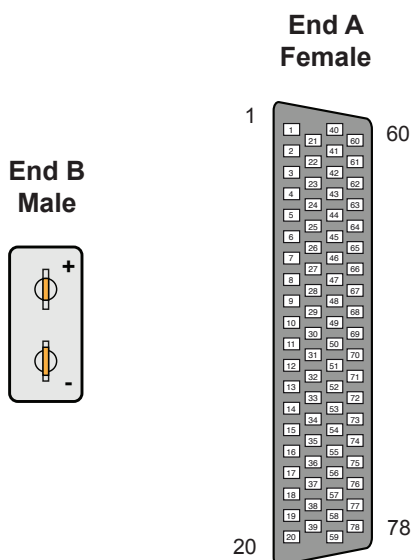
A078DFR-24M002T5A100

Female to 16 x Mini Thermocouple Plugs, 1m Long

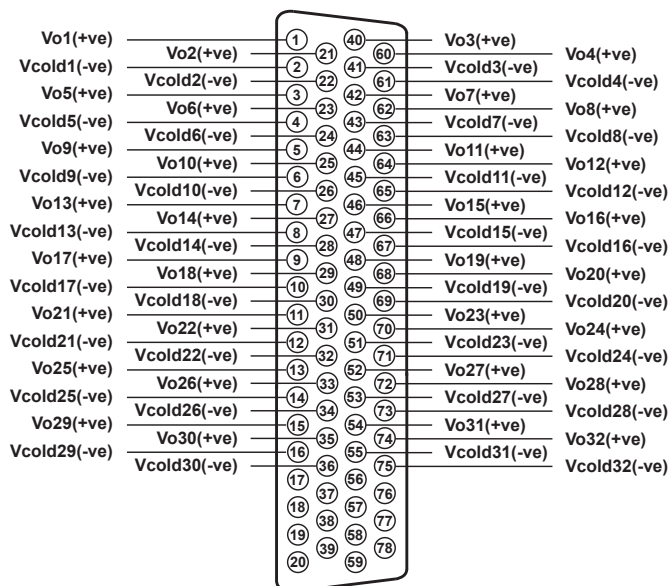
A078DFR-16M002T5A100

Female to 8 x Mini Thermocouple Plugs, 1m Long

A078DFR-08M002T5A100



Pinouts for the 78-Pin D-Type to Mini Thermocouple Plugs Cable Assembly



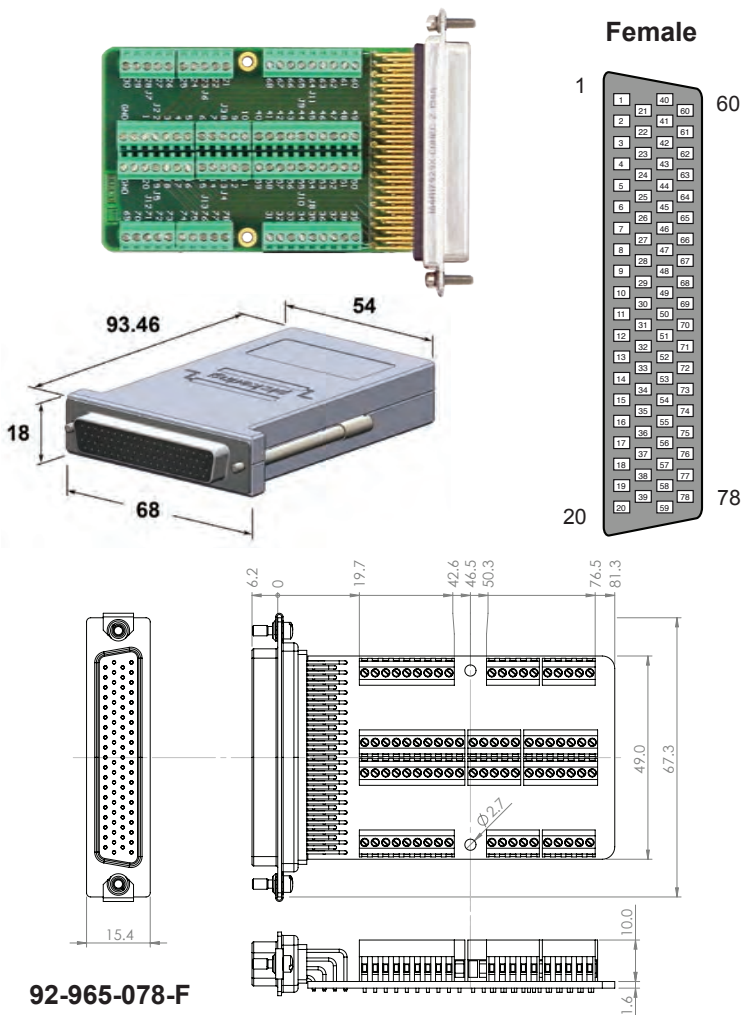
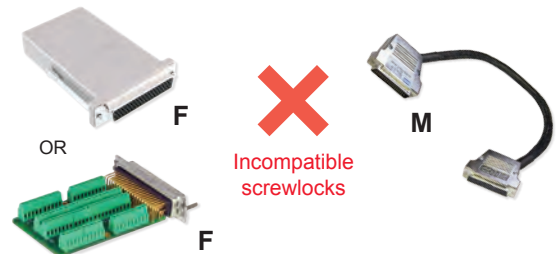
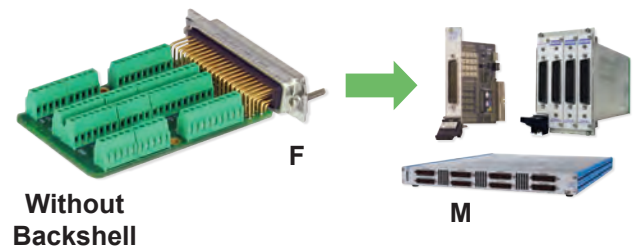
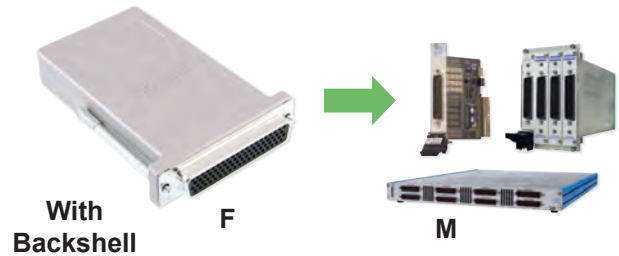
78-Pin D-Type Connector Block - Female

- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.



Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals

Connector Block Ratings:	
Maximum Current	2A
Maximum Voltage	200V DC
Cable Exit	Rear - 10 x 20mm
Overall Size (Approx)	H68 x W18 x D100mm
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Wire	PTFE type
Additional Cable Clamp	Yes (in backshell)

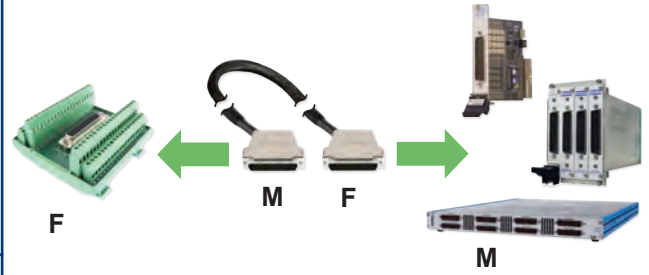
Notes:
When using this product please ensure appropriate electrical safety precautions are observed.

Product Order Codes

78-Pin D-Type Shielded Connector Block, 2A, Screw Terminal, With Backshell, Female	40-965-078-F
Screw Terminal, Without Backshell, Female	92-965-078-F

78-Pin D-Type Breakout - Female

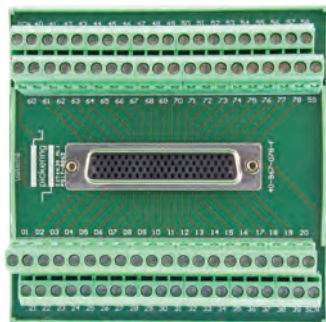
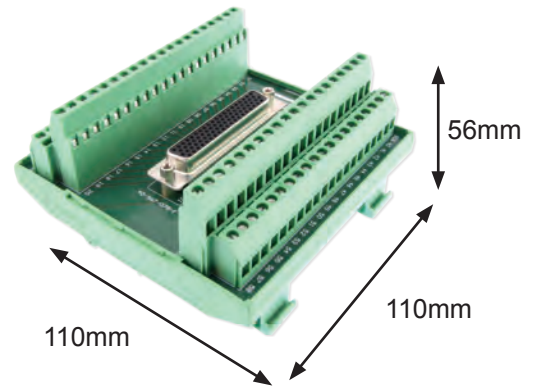
- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted



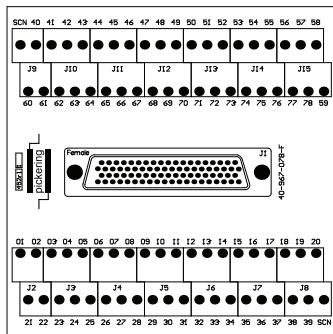
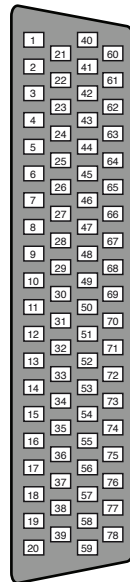
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This termination option is capable of accepting heavy duty connection wires and uses rising clamp screw terminals to minimize the danger of copper strand damage. Users should care take to protect the termination and provide a suitable method of restraining the cables.

When using this product please ensure appropriate electrical safety precautions are observed.



Female



40-967-078-F

Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Wire Connection	Rising cage screw terminals
Breakout Ratings:	
Maximum Current	2A
Maximum Voltage	200V DC
Securing Method	Suitable for securing to DIN rails.
Overall Size (Approx)	H110 x W110 x D56mm
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	12AWG
Additional Cable Clamp	No

Product Order Codes

78-Pin D-Type Breakout with DIN Rail Mount, 2A, Screw Terminal, Female

40-967-078-F

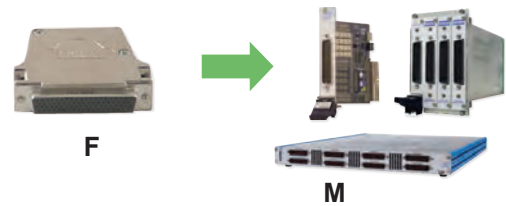
78-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

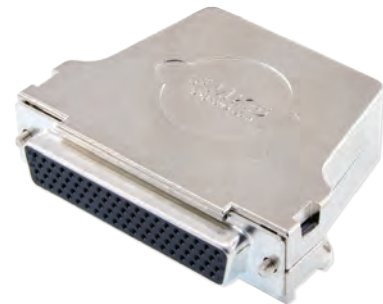
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

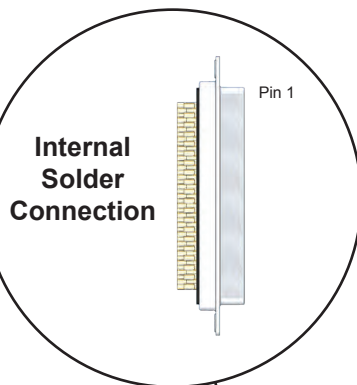


F

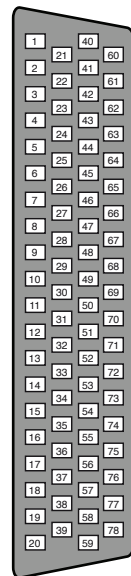
M



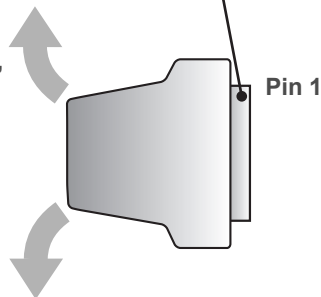
With
Backshell



Female



45°
'Towards Pin 1'
|
Cable Exit
Options
|
45° 'Away
from Pin 1'



Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method:	Product with Backshell Product without Backshell
Wire Connection	4-40 UNC screwlocks, male 4-40 UNC screwlocks, male Solder bucket
Connector Ratings:	
Maximum Current	3A
Maximum Voltage	250V AC
Cable Exit:	45°
Cable Exit Size	12mm dia
Overall Size (Approx)	H68 x W18.5 x D55mm
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

78-Pin D-Type Connector, 3A, Solder Bucket,

With Backshell, Female

40-960-078-F

Without Backshell, Female

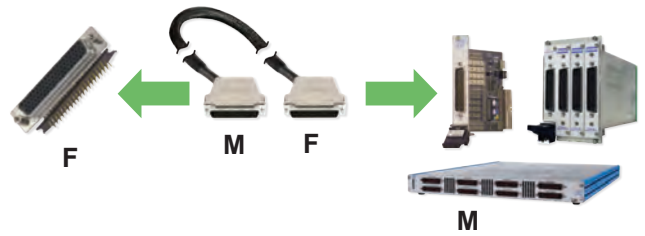
92-960-078-F

78-Pin D-Type Connector, Right Angle PCB Mount - Female

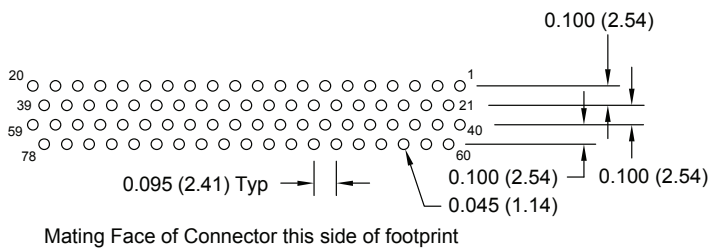
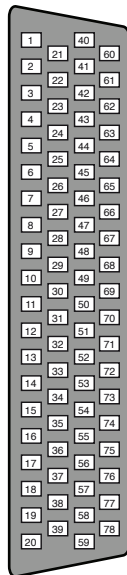
- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

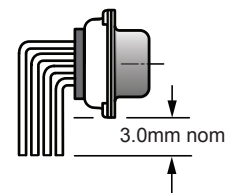


**PCB Footprint of 78-Pin Right Angle Female Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	250V AC
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	3.0mm nom (See diagram)

Effective Leg Length



Product Order Codes

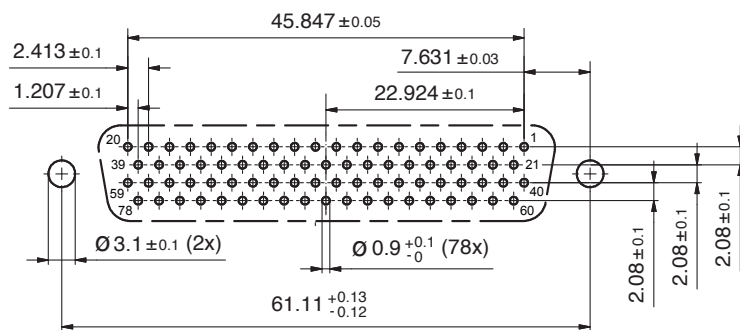
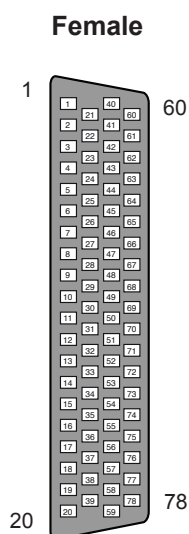
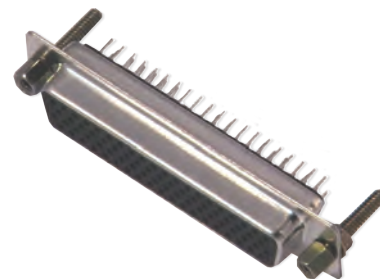
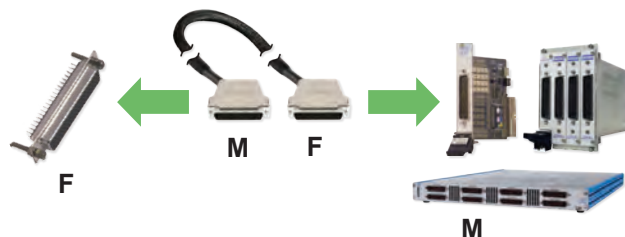
78-Pin D-Type Connector, 3A, Right Angle PCB Mount
Female **40-963-078-RF**

78-Pin D-Type Connector, Straight PCB Mount - Female

- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

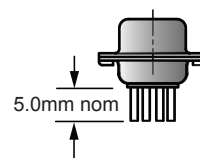


PCB Footprint of 78-Pin Straight Female Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	250V AC
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	5.0mm nom (See diagram)

Leg Length



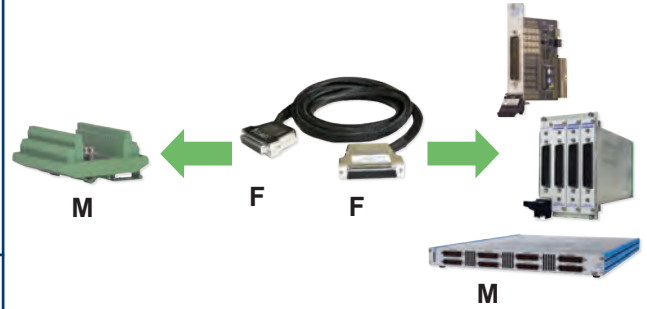
Product Order Codes

78-Pin D-Type Connector, 3A, Straight PCB Mount
Female

40-963-078-SF

78-Pin D-Type Breakout - Male

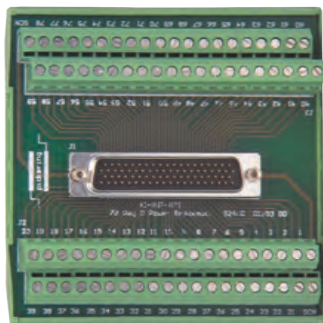
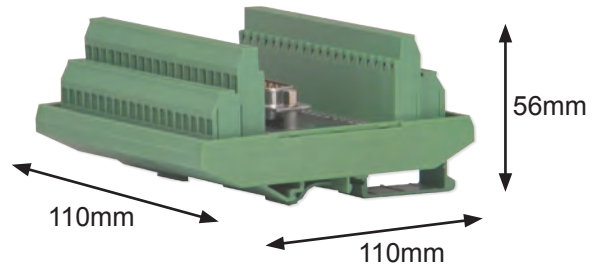
- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted



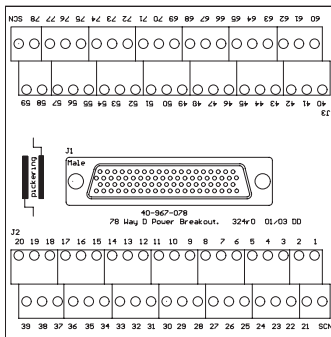
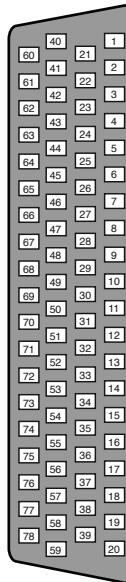
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This termination option is capable of accepting heavy duty connection wires and uses rising clamp screw terminals to minimize the danger of copper strand damage. Users should care take to protect the termination and provide a suitable method of restraining the cables.

When using this product please ensure appropriate electrical safety precautions are observed.



Male



40-967-078-M

Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method	4-40 UNC screwlocks, female
Wire Connection	Rising cage screw terminals
Breakout Ratings:	
Maximum Current	2A
Maximum Voltage	200V DC
Securing Method	Suitable for securing to DIN rails.
Overall Size (Approx)	H110 x W110 x D56mm
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	12AWG
Additional Cable Clamp	No

Product Order Codes

78-Pin D-Type Breakout with DIN Rail Mount, 2A, Screw Terminal, Male

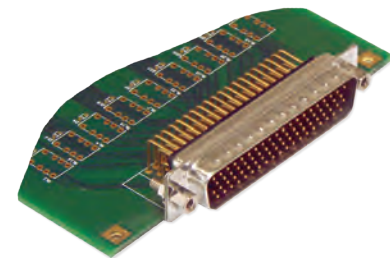
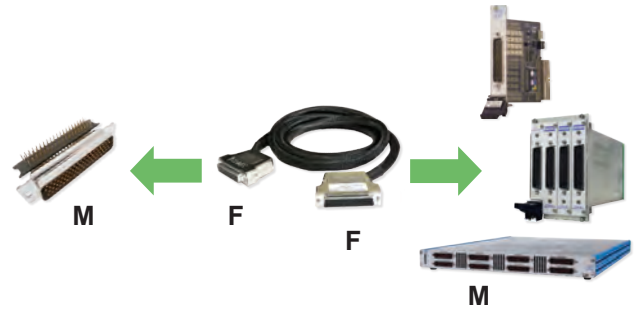
40-967-078-M

78-Pin D-Type Connector, Right Angle PCB Mount - Male

- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

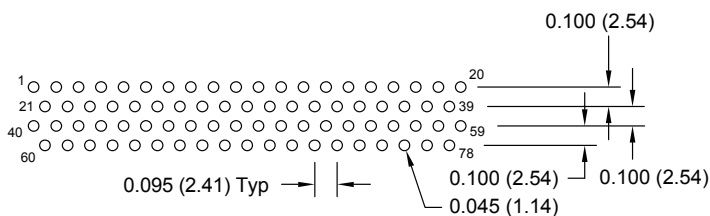
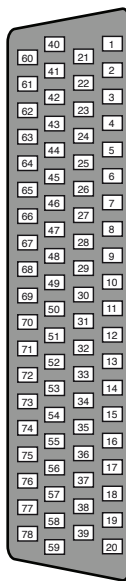
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



PCB not supplied

Male

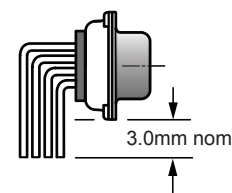


PCB Footprint of 78-Pin Right Angle Male Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	250V AC
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	3.0mm nom (See diagram)

Effective Leg Length



Product Order Codes

78-Pin D-Type Connector, 3A, Right Angle PCB Mount
Male

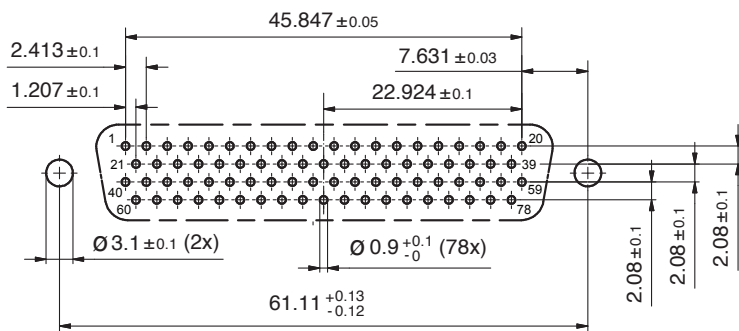
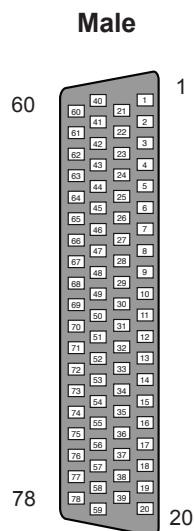
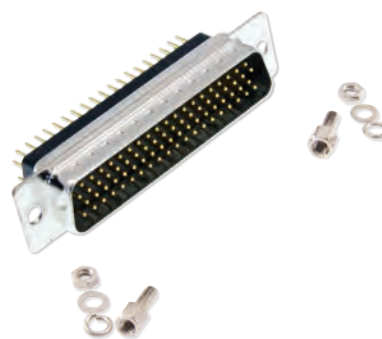
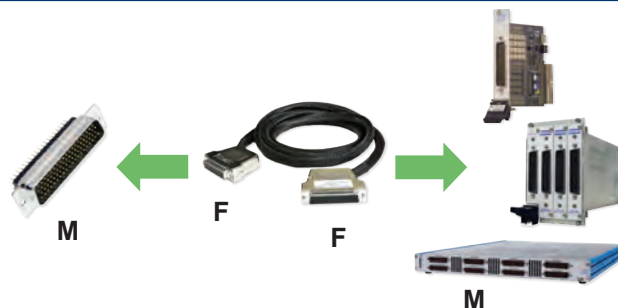
40-963-078-RM

78-Pin D-Type Connector, Straight PCB Mount - Male

- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

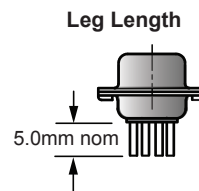
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



PCB Footprint of 78-Pin Straight Male Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	250V AC
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	5.0mm nom (See diagram)



Product Order Codes

78-Pin D-Type Connector, 3A, Straight PCB Mount
Male

40-963-078-SM

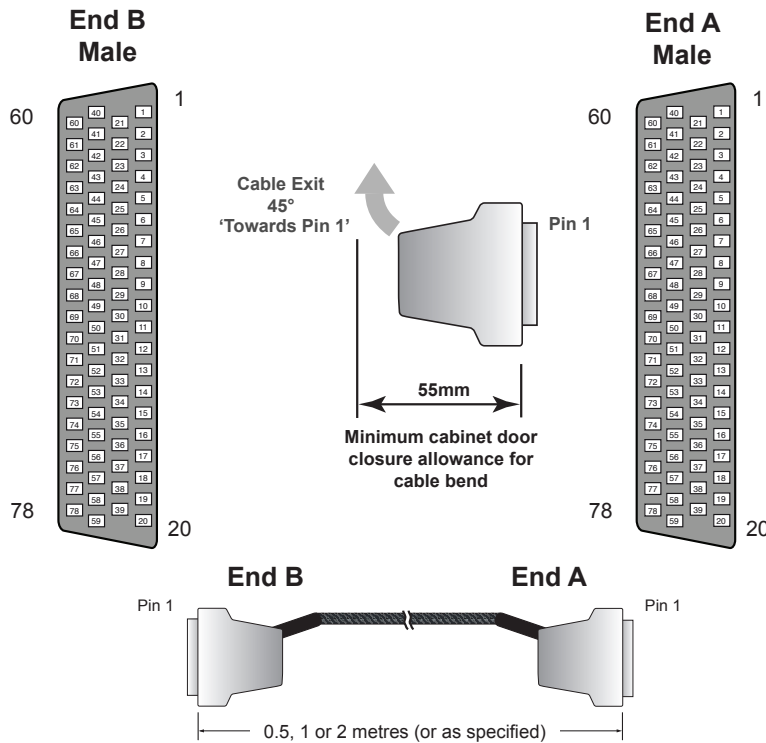
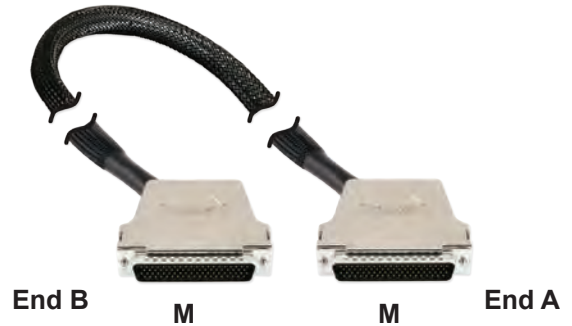
78-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

78-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit with Strain Relief
- Fully Screened Cable Construction

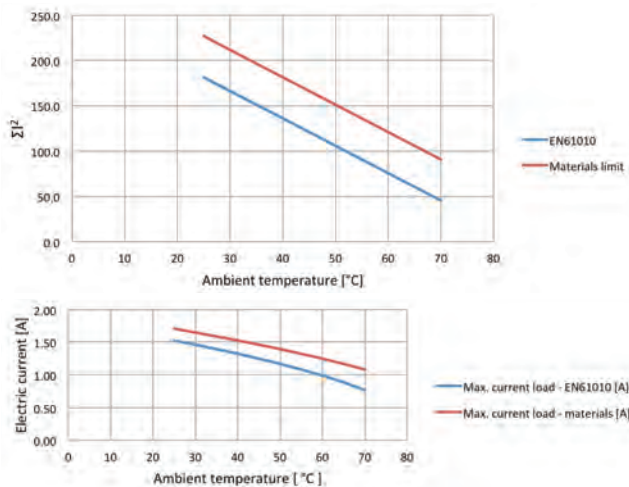
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	78-Pin D-Subminiature, Density and a half
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	78-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-078-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

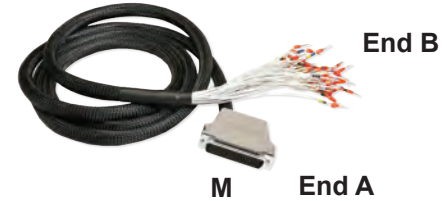
78-Pin D-Type Cable Assy, 3A, Male to Male,

- 0.5m Long** 40-970-078-0.5m-MM
- 1.0m Long** 40-970-078-1m-MM
- 2.0m Long** 40-970-078-2m-MM

78-Pin D-Type Cable Assy - Male to Unterminated

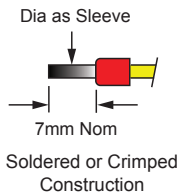
- High Specification and Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

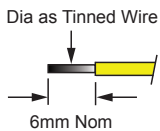


End B Options

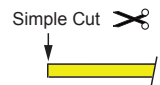
Ferrules



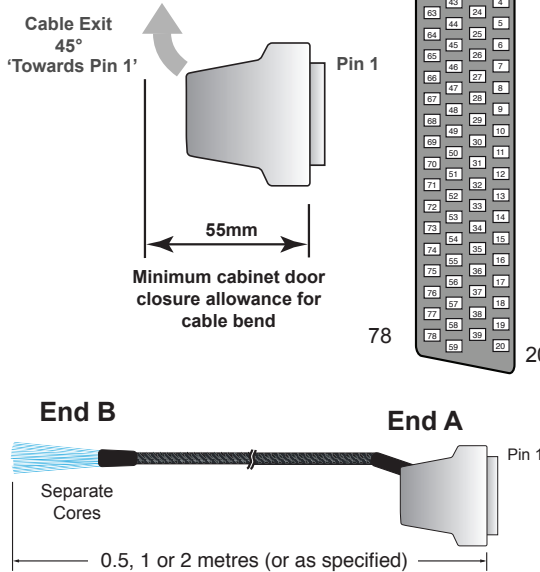
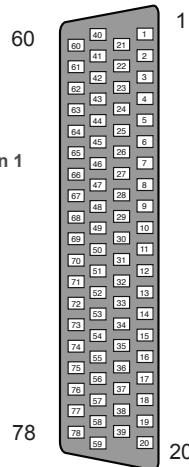
Tinned End



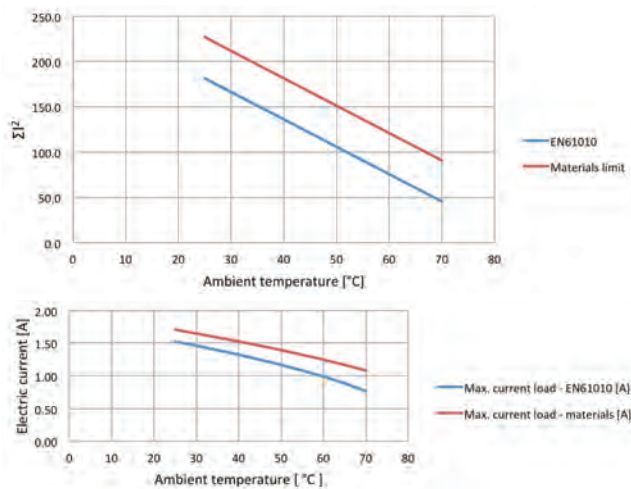
Cut End



End A - Male



Characteristic Plots for 40-972-078-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	78-Pin D-Subminiature, Density and a half
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130mm nominal
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000M Ω m
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	20m Ω m
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137 Ω /m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

78-Pin D-Type Cable Assy, 3A, Boot Lace Ferrules,

Male to Unterminated, 0.5m Long [40-972-078-0.5m-MU](#)

Male to Unterminated, 1.0m Long [40-972-078-1m-MU](#)

Male to Unterminated, 2.0m Long [40-972-078-2m-MU](#)

Part numbers for other versions:

End B:	A078HM5-*-0A***	Cable Length:
T = Tinned End		050 = 0.5m
C = Cut End		100 = 1.0m
		200 = 2.0m

78-Pin D-Type Connector Block - Male

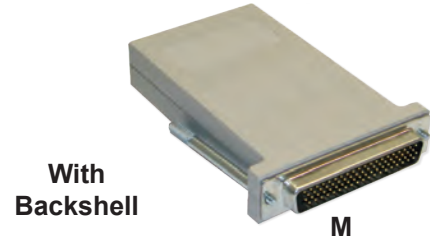
- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

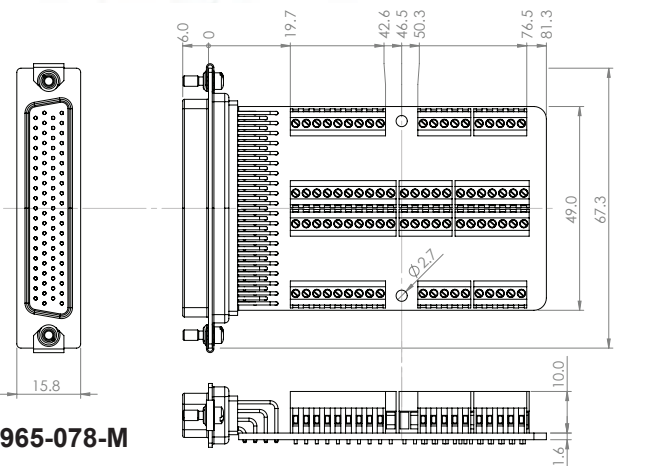
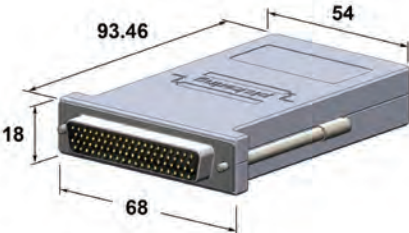
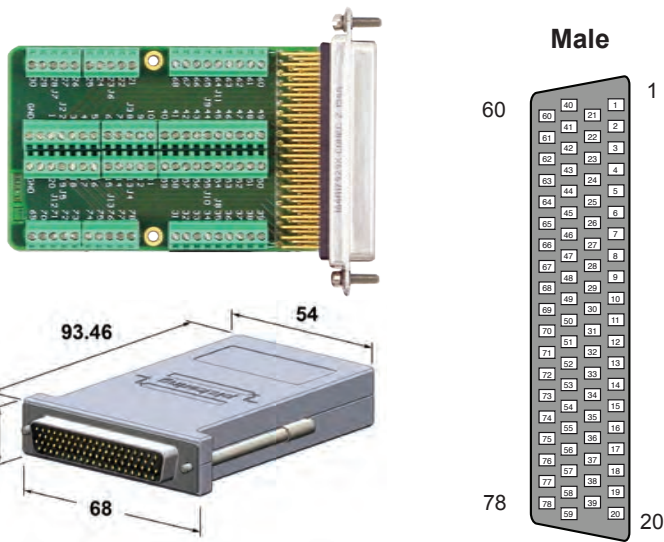
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.

This Connector Block is Not Suitable for Connection to a Pickering Switching Product



78-Pin D-type Connector Accessories



92-965-078-M

Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	2A
Maximum Voltage	200V DC
Cable Exit	Rear - 10 x 20mm
Overall Size (Approx)	H68 x W18 x D100mm
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)
Notes:	
• When using this product please ensure appropriate electrical safety precautions are observed.	

Product Order Codes

78-Pin D-Type Shielded Connector Block, 2A,

Screw Terminal, With Backshell, Male

40-965-078-M

Screw Terminal, Without Backshell, Male

92-965-078-M

78-Pin D-Type Connector - Male

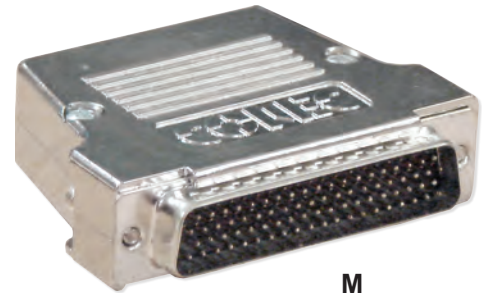
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

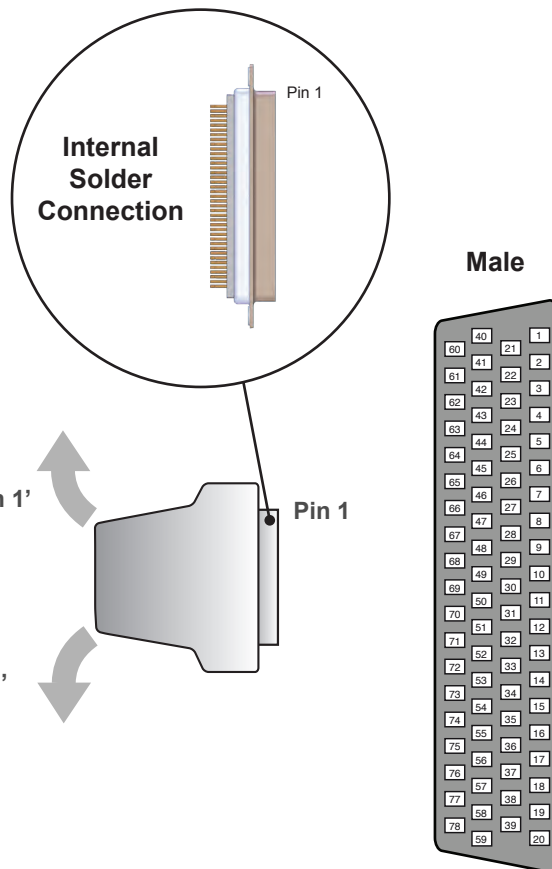
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



With Backshell



Technical Specification

Connector Type:	78-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	3A
Maximum Voltage	250V AC
Cable Exit:	45°
Cable Exit Size	12mm dia
Overall Size (Approx)	H68 x W18.5 x D55mm
78-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

78-Pin D-Type Connector, 3A, Solder Bucket,
With Backshell, Male
Without Backshell, Male

40-960-078-M
92-960-078-M

68-Pin 1.27mm Pitch Micro-D Connector Accessories

Note: This connector was originally referred to a '68 Pin SCSI Style Micro D Connector'

- **150V, 1A**
- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**



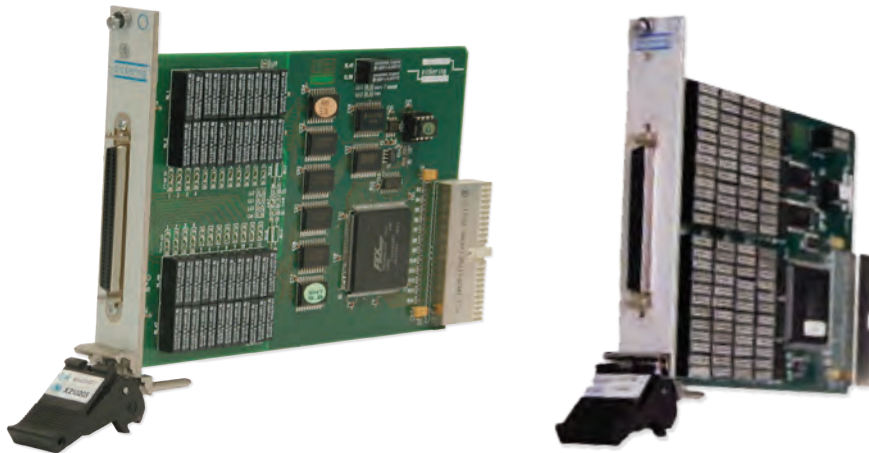
The 68-Pin 1.27mm Pitch Micro-D connector is used on PXI switching products to provide a high density 1A connector solution that is suitable for use to 150Vdc. Pickering Interfaces has developed a full range of standard connection solutions to simplify the task of integrating products into a test system. The high density and skill levels involved in terminating this connector means that we do strongly recommend that users use Pickering Interfaces solutions.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Solutions for connecting 34-Pin ribbon cable headers are also available and these are recommended for applications where unterminated assemblies are required. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote DIN rail mounted breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 68-Pin 1.27mm Pitch Micro-D Connection Accessories

Cables: 68-Pin 1.27mm Pitch Micro-D Connector to Connector

End 1 Type (inc Screwlocks)	End 2 Type (inc Screwlocks)	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
		0.5m Long	1m Long	2m Long		
68-Pin Micro-D, Male, (Metal Spring Latch)	68-Pin Micro-D, Female (Metal Spring Latch)	40-970-068-0.5m-MF	40-970-068-1m-MF	40-970-068-2m-MF	Yes	7.6
	68-Pin Micro-D, Male, (Metal Spring Latch)	40-970-068-0.5m-MM	40-970-068-1m-MM	40-970-068-2m-MM	Most PXI	7.8
68-Pin Micro-D, Female, (Metal Spring Latch)	68-Pin Micro-D, Female, (Metal Spring Latch)	40-970-068-0.5m-FF	40-970-068-1m-FF	40-970-068-2m-FF	40-542 and BRIC	7.7
68-Pin Micro-D, Male, (Metal Spring Latch)	2 x 34-Pin Ribbon, Female, (Push Fit)	40-971-068-0.5m-MF	40-971-068-1m-MF	40-971-068-2m-MF	Most PXI Cards	7.17
68-Pin Micro-D, Female, (Metal Spring Latch)	2 x 34-Pin Ribbon, Female, (Push Fit)	40-971-068-0.5m-FF	40-971-068-1m-FF	40-971-068-2m-FF	40-542 and BRIC	7.15

Cables: 68-Pin 1.27mm Pitch Micro-D Connector to Untermated

End 1 (inc Screwlocks)	End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
		0.5m Long	1m Long	2m Long		
68-Pin Micro-D, Female, (Metal Spring Latch)	Ferrules	A068SFR-F-5A050	A068SFR-F-5A100	A068SFR-F-5A200	40-542 and BRIC	7.9
	Tinned	A068SFR-T-5A050	A068SFR-T-5A100	A068SFR-T-5A200		
	Cut End	40-972-068-0.5m-FU	40-972-068-1m-FU	40-972-068-2m-FU		
68-Pin Micro-D, Female, (2-56UNC Screwlocks)	Ferrules	A068SFR-F-6A050	A068SFR-F-6A100	A068SFR-F-6A200	No	7.34
	Tinned	A068SFR-T-6A050	A068SFR-T-6A100	A068SFR-T-6A200		
	Cut End	A068SFR-C-6A050	A068SFR-C-6A100	A068SFR-C-6A200		
68-Pin Micro-D, Male, (Metal Spring Latch)	Ferrules	A068SMR-F-5A050	A068SMR-F-5A100	A068SMR-F-5A200	Yes Most PXI Cards	7.11
	Tinned	A068SMR-T-5A050	A068SMR-T-5A100	A068SMR-T-5A200		
	Cut End	40-972-068-0.5m-MU	40-972-068-1m-MU	40-972-068-2m-MU		
68-Pin Micro-D, Male, (2-56UNC Screwlocks)	Ferrules	A068SMR-F-6A050	A068SMR-F-6A100	A068SMR-F-6A200	Yes Most PXI Cards	7.13
	Tinned	A068SMR-T-6A050	A068SMR-T-6A100	A068SMR-T-6A200		
	Cut End	A068SMR-C-6A050	A068SMR-C-6A100	A068SMR-C-6A200		




Connector Blocks: 68-Pin 1.27mm Pitch Micro-D







Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
	With Backshell	Without Backshell		
Connector Block, Female (Latch Block)	40-965-068-F	92-965-068-F	Via Cable	7.19
Connector Block BRIC, Female (M2.5 Screwlocks, Male)	44-965-068-F	N/A	40-542 and BRIC	7.20
Connector Block, Male (2-56 UNC Screwlocks, Male)	40-965-068-M	92-965-068-M	Most PXI Cards	7.27
Connector Block, Female, DIN Rail (Latch Block)	40-966-068-F	N/A	Via a Cable	7.21
Connector Block, Male, DIN Rail (Push Fit)	40-966-068-M	N/A	Via a Cable	7.28







Part Number Listing for all 68-Pin 1.27mm Pitch Micro-D Connection Accessories (Continued)

Cable Connectors: 68-Pin 1.27mm Pitch Micro-D				
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
	With Backshell	Without Backshell		
Cable Connector, Female, IDC for Ribbon Cable (Metal Spring Latch)	40-961-068-F	N/A	40-542 and BRIC	7.22
Cable Connector, Male, IDC for Ribbon Cable (Metal Spring Latch)	40-961-068-M	N/A	Most PXI Cards	7.29
Cable Connector, Female, IDC for Discrete Wire (Metal Spring Latch)	40-962-068-F	N/A	40-542 and BRIC	7.23
Cable Connector, Male, IDC for Discrete Wire (Metal Spring Latch)	40-962-068-M	N/A	Most PXI Cards	7.30
Cable Connector, Female, Solder Bucket (Metal Spring Latch)	40-962-068-SB-F	N/A	40-542 and BRIC	7.24
Cable Connector, Male, Solder Bucket (2-56 UNC Screwlocks, Male)	40-962A-068-SB-M	N/A	Most PXI Cards	7.31

PCB Connectors: 68-Pin 1.27mm Pitch Micro-D						
Type	Mount	Gender	Screwlocks	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	2-56 UNC, Female and Latch Block	40-963-068-RF	Yes (Via a cable)	7.25
		Male	M2.5, Female and Latch Clip	40-963-068-RM		7.32
	Straight PCB Mount	Female	2-56 UNC, Female and Latch Block	40-963-068-SF		7.26
		Male	M2.5, Female and Latch	40-963-068-SM		Discontinued


Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 68-Pin 1.27mm Pitch Micro-D, 1A, Metal Spring Latch 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 7.6
		Female	Female	Page 7.7
		Male	Male	Page 7.8
	Cable Assy, 68-Pin 1.27mm Pitch Micro-D to Unterminated, 1A, Metal Spring Latch 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 7.9
		Male		Page 7.11
	Cable Assy, 68-Pin 1.27mm Pitch Micro-D to Unterminated, 1A, 2-56 UNC Screwlocks 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 7.13
	Cable Assy, 68-Pin 1.27mm Pitch Micro-D to 34-Pin Ribbon, 1A, Metal Spring Latch. 0.5m, 1m and 2m Custom lengths by quotation	Female	Female	Page 7.15
		Male		Page 7.17

Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block 68-Pin 1.27mm Pitch Micro-D, Latch Block, 1A, Screw Terminal	With or Without Backshell	Female	Page 7.19
	Shielded Connector Block for use with BRIC Modules, 68-Pin 1.27mm Pitch Micro-D with Backshell, 1A, M2.5 Screwlocks, Screw Terminal			Page 7.20
	Shielded Connector Block with DIN Rail Mount, 68-Pin 1.27mm Pitch Micro-D with Backshell, Latch Block, 1A, Screw Terminal			Page 7.21
	Cable Connector 68-Pin 1.27mm Pitch Micro-D, 1A, Metal Spring Latch IDC for Ribbon Cable	With Backshell		Page 7.22
	Cable Connector 68-Pin 1.27mm Pitch Micro-D, 1A, Metal Spring Latch IDC for Discrete Wire (Multicore or Individual Single cores, not Ribbon)	With Backshell		Page 7.23
	Cable Connector 68-Pin 1.27mm Pitch Micro-D, 1A, Metal Spring Latch, Solder Bucket	With Backshell		Page 7.24
	PCB Connector 68-Pin 1.27mm Pitch Micro-D, 1A, 2-56 UNC Screwlocks and Latch Block	Right Angle PCB Mount		Page 7.25
		Straight PCB Mount	Page 7.26	

Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block 68-Pin 1.27mm Pitch 2-56UNC Screwlocks Micro-D, 1A, Screw Terminal	With or Without Backshell	Male	Page 7.27
	Shielded Connector Block with DIN Rail Mount, 68-Pin 1.27mm Pitch Micro-D with Backshell, 1A, Push Fit, Screw Terminal			Page 7.28
	Cable Connector 68-Pin 1.27mm Pitch Micro-D, 1A, Metal Spring Latch, IDC for Ribbon Cable	With Backshell		Page 7.29
	Cable Connector 68-Pin 1.27mm Pitch Micro-D, 1A, Metal Spring Latch, IDC for Discrete Wire (Multicore or Individual Single cores, not Ribbon)	With Backshell		Page 7.30
	Cable Connector 68-Pin 1.27mm Pitch Micro-D, 1A, 2-56 UNC Screwlocks, Solder Bucket	With Backshell		Page 7.31
	PCB Connector 68-Pin 1.27mm Pitch Micro-D, 1A, M2.5 Screwlocks and Latch Clip	Right Angle PCB Mount		Page 7.32
		Straight PCB Mount		Discontinued

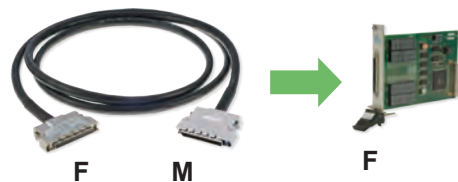
Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 68-Pin 1.27mm Pitch Micro-D to Unterminated, 1A, 2-56UNC Screwlocks, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 7.34

68-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Female

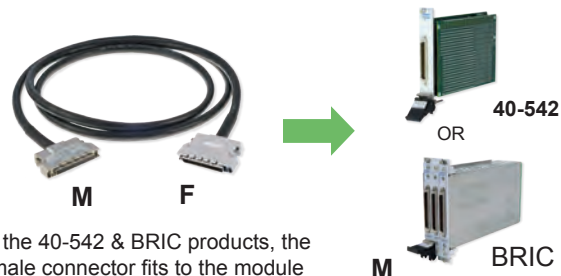
- High Specification Cable
- Highly Flexible Cable
- Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction



For the products listed to the right, the male end of the cable fits to the module

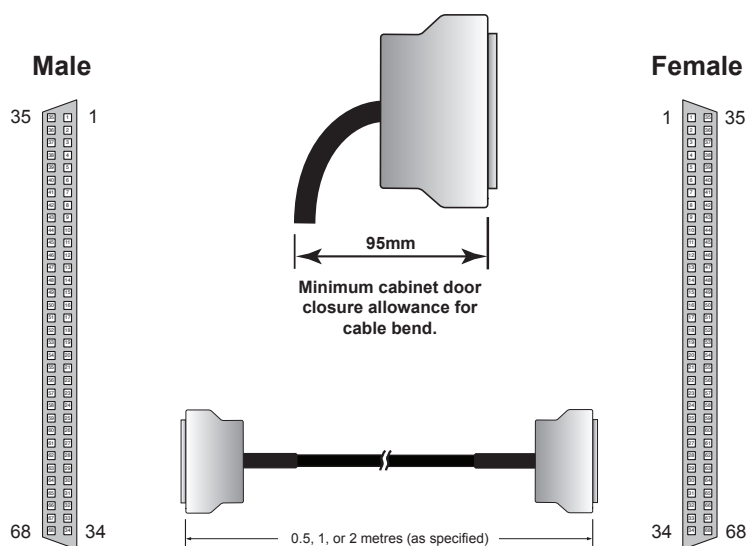
40-290
40-291
40-490
40-491
40-510
40-511
40-512
40-513
40-630
40-632

The cable assembly is suitable for direct connection to Pickering Interfaces products using the 68-Pin Female connector.

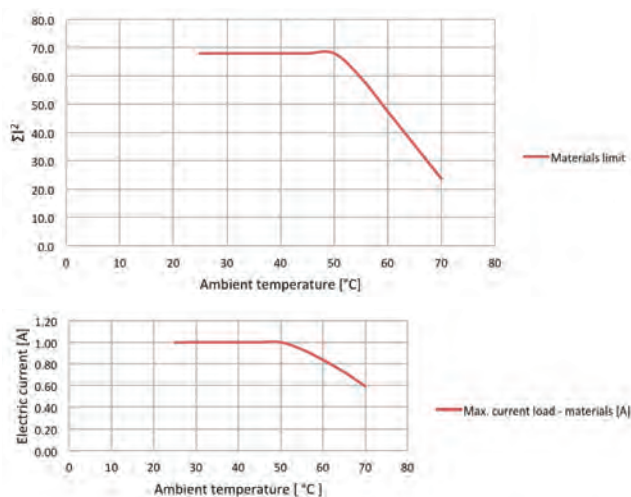


For the 40-542 & BRIC products, the female connector fits to the module

40-542
OR
BRIC



Characteristic Plots for 40-970-068-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End 1):	68-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Metal Spring Latch
Connector Type (End 2):	68-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal Spring Latch
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000M Ω
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35mm
Cable Type:	
Conductor: Material	Copper
Strands	7/36 (28AWG)
Resistance	0.2 Ω /m
Insulation	Polypropylene
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

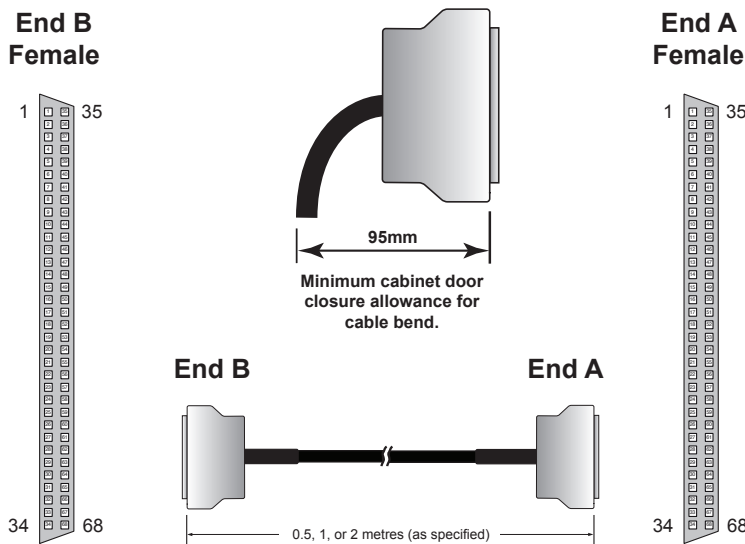
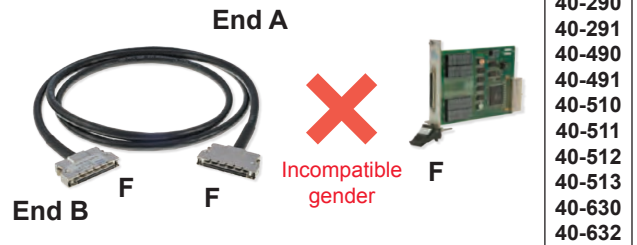
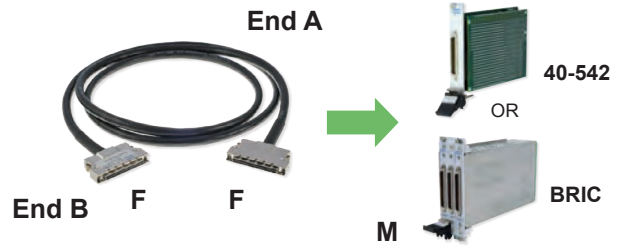
68-Pin 1.27mm Pitch Micro-D Cable Assy, 1A,
Male to Female, 0.5m Long [40-970-068-0.5m-MF](#)
Male to Female, 1.0m Long [40-970-068-1m-MF](#)
Male to Female, 2.0m Long [40-970-068-2m-MF](#)

Please ensure the correct connector gender is ordered for the application.

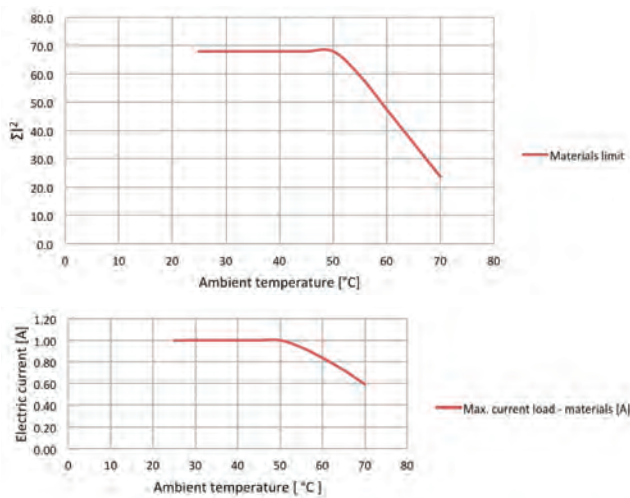
68-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable
- Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction

The cable assembly is suitable for direct connection to Pickering Interfaces products using the 68-Pin Female connector.



Characteristic Plots for 40-970-068-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	68-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal Spring Latch
Connector Type (End B):	68-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal Spring Latch
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35mm
Cable Type:	
Conductor: Material	Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	Polypropylene
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)
Notes:	Other cable lengths can be supplied.

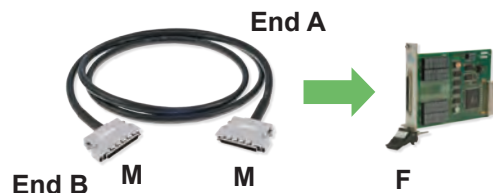
Product Order Codes

- 68-Pin 1.27mm Pitch Micro-D Cable Assy, 1A, Female to Female, 0.5m Long **40-970-068-0.5m-FF**
- Female to Female, 1.0m Long **40-970-068-1m-FF**
- Female to Female, 2.0m Long **40-970-068-2m-FF**

Please ensure the correct connector gender is ordered for the application.

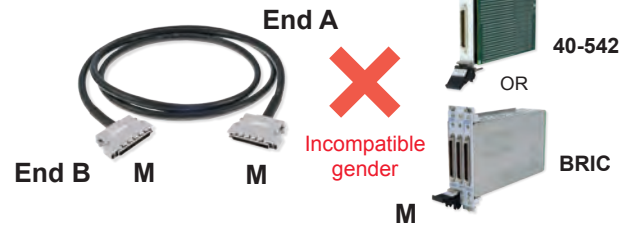
68-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable
- Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction



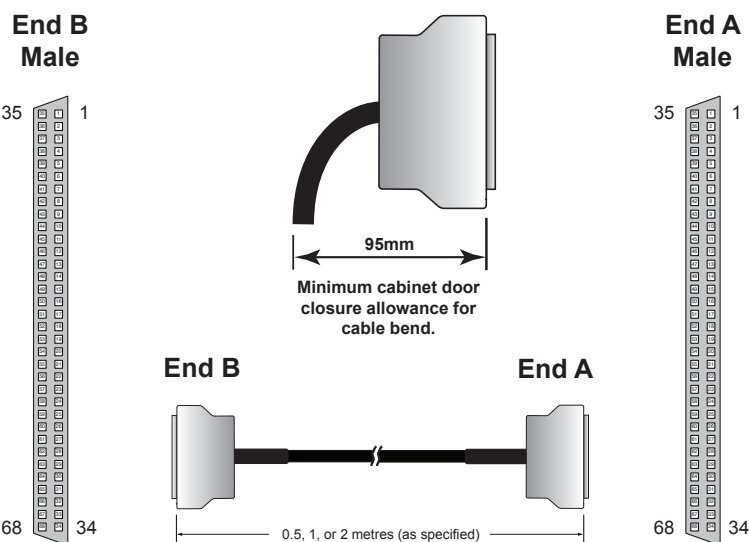
40-290
40-291
40-490
40-491
40-510
40-511
40-512
40-513
40-630
40-632

The cable assembly is suitable for direct connection to Pickering Interfaces products using the 68-Pin Male connector.



40-542

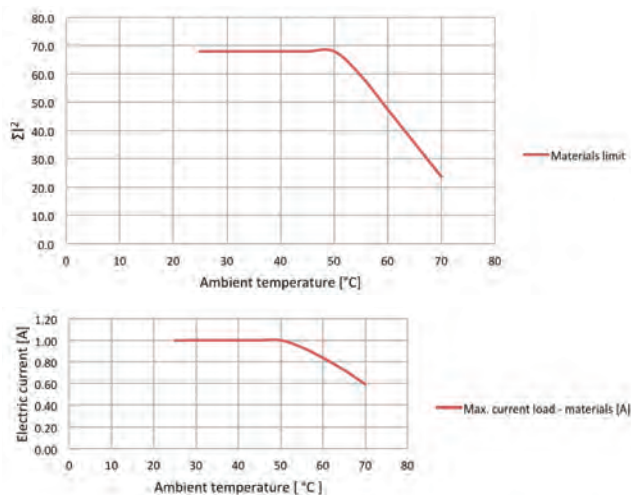
BRIC



Technical Specification

Connector Type (End A):	68-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Metal Spring Latch
Connector Type (End B):	68-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Metal Spring Latch
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35mm
Cable Type:	
Multipaired:	68-Pin twisted pair. Wires paired 1&35, 2&36 etc
Conductor: Material	Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	Polypropylene
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)
Notes:	
	Other cable lengths can be supplied.

Characteristic Plots for 40-970-068-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Cable Assy, 1A,
Male to Male, 0.5m Long [40-970-068-0.5m-MM](#)
Male to Male, 1.0m Long [40-970-068-1m-MM](#)
Male to Male, 2.0m Long [40-970-068-2m-MM](#)

Please ensure the correct connector gender is ordered for the application.

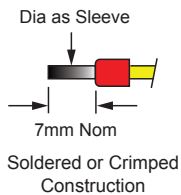
68-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Unterminated

- High Specification and Highly Flexible Cable
- Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction
- Wires Color Coded to Ensure Easy Connection

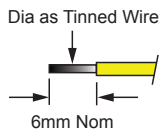
When using this product please ensure appropriate electrical safety precautions are observed.

End B Options

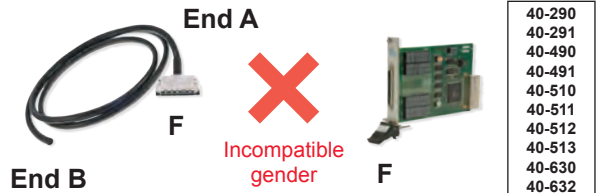
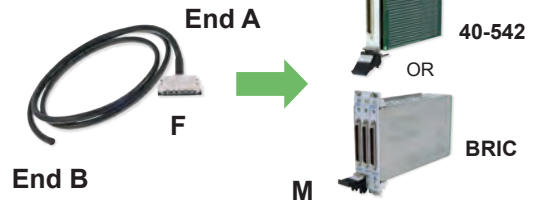
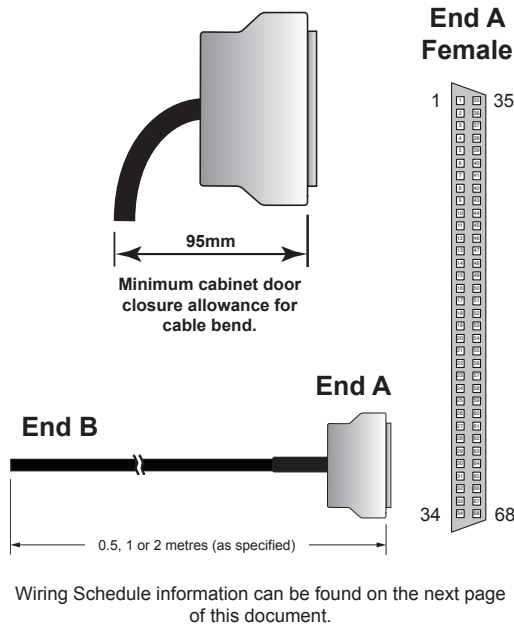
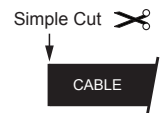
Ferrules



Tinned End



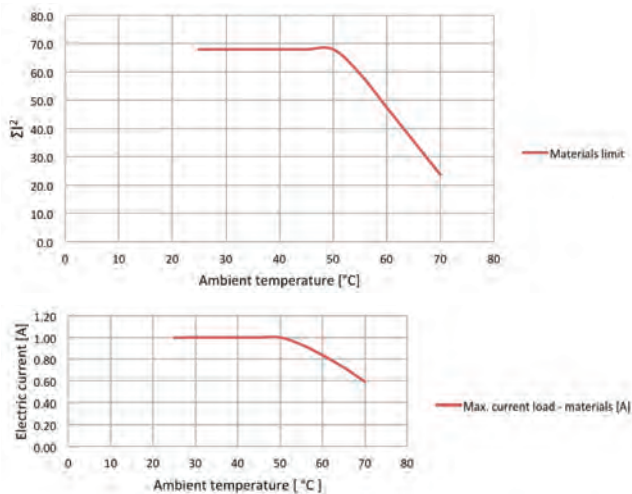
Cut End



Technical Specification

Connector Type (End A):	68-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Unterminated End (End B):	Free Wire Length Individual Wire Labelling Wire End Options
	130mm nom (Not Cut end) To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating:	Maximum Current Maximum Voltage Insulation Resistance
	1A 150V 1000MΩ
Connector:	Contact Material Contact Resistance Cable Exit Overall Size (Approx)
	Gold plated copper alloy <35mOhm Rear H60 x W12 x D35mm
Cable Type:	Multipaired: 68-Pin twisted pair. Wires paired 1&35, 2&36 etc Copper Strands Resistance Insulation
	7/36 (28AWG) 0.2Ω/m Polypropylene
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-972-068-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 68-Pin 1.27mm Pitch Micro-D Cable Assy, 1A, Metal Latch
 Fem to Unterminated, Cut End, 0.5m [40-972-068-0.5m-FU](#)
 Fem to Unterminated, Cut End, 1.0m [40-972-068-1m-FU](#)
 Fem to Unterminated, Cut End, 2.0m [40-972-068-2m-FU](#)

Part numbers for other versions:

A068SFR-*-5A***

End B:
F = Ferrules
T = Tinned End

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

Wiring Schedule for 68-Pin 1.27mm Pitch Micro-D Cable Assy Female to Unterminated

End A

Wire Color	Pin		Pin	Wire Color
Grey/Pink	1	● --- ●	35	Pink/Grey
Violet/Pink	2	● --- ●	36	Pink/Violet
Blue/Pink	3	● --- ●	37	Pink/Blue
Green/Pink	4	● --- ●	38	Pink/Green
Yellow/Pink	5	● --- ●	39	Pink/Yellow
Orange/Pink	6	● --- ●	40	Pink/Orange
Grey/Brown	7	● --- ●	41	Brown/Grey
Violet/Brown	8	● --- ●	42	Brown/Violet
Blue/Brown	9	● --- ●	43	Brown/Blue
Green/Brown	10	● --- ●	44	Brown/Green
Yellow/Brown	11	● --- ●	45	Brown/Yellow
Orange/Brown	12	● --- ●	46	Brown/Orange
Pink/Brown	13	● --- ●	47	Brown/Pink
Grey/Tan	14	● --- ●	48	Tan/Grey
Violet/Tan	15	● --- ●	49	Tan/Violet
Blue/Tan	16	● --- ●	50	Tan/Blue
Green/Tan	17	● --- ●	51	Tan/Green
Yellow/Tan	18	● --- ●	52	Tan/Yellow
Orange/Tan	19	● --- ●	53	Tan/Orange
Pink/Tan	20	● --- ●	54	Tan/Pink
Brown/Tan	21	● --- ●	55	Tan/Brown
Grey/White	22	● --- ●	56	White/Grey
Orange/White	23	● --- ●	57	White/Orange
Tan/White	24	● --- ●	58	White/Tan
Yellow/White	25	● --- ●	59	White/Yellow
Green/White	26	● --- ●	60	White/Green
Blue/White	27	● --- ●	61	White/Blue
Violet/White	28	● --- ●	62	White/Violet
Brown/White	29	● --- ●	63	White/Brown
Pink/White	30	● --- ●	64	White/Pink
Yellow/Orange	31	● --- ●	65	Orange/Yellow
Green/Orange	32	● --- ●	66	Orange/Green
Blue/Orange	33	● --- ●	67	Orange/Blue
Violet/Orange	34	● --- ●	68	Orange/Violet

68-Pin 1.27mm Pitch Female Connector (Mating Face)

--- Denotes Twisted Pairing i.e. Pins 1 and 35 use paired wires

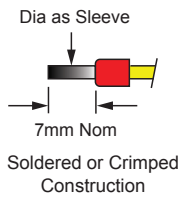
68-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Unterminated

- High Specification and Highly Flexible Cable
- Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction
- Wires Color Coded to Ensure Easy Connection

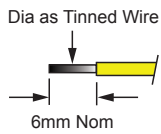
When using this product please ensure appropriate electrical safety precautions are observed.

End B Options

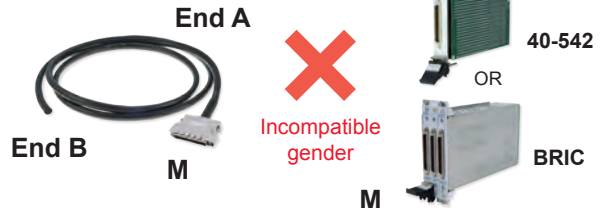
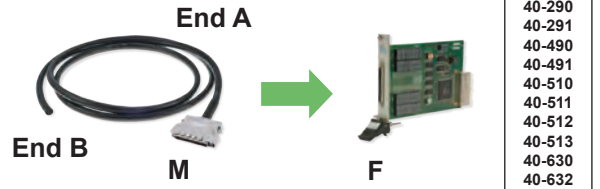
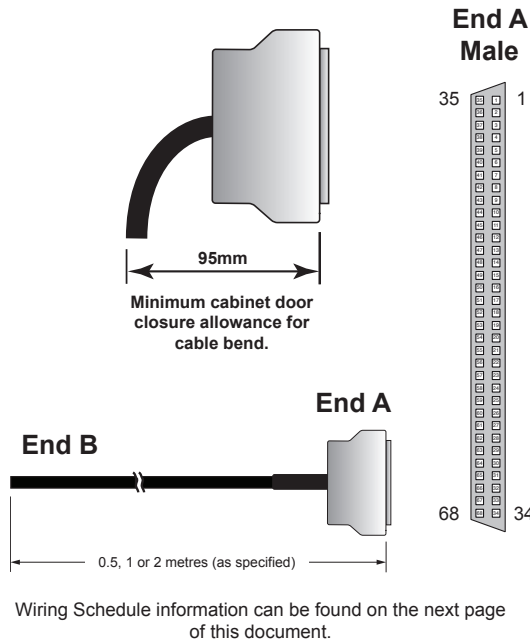
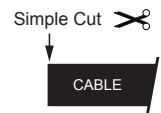
Ferrules



Tinned End



Cut End



Technical Specification

Connector Type (End A):	68-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Metal spring latch
Unterminated End (End B):	Free Wire Length Individual Wire Labelling Wire End Options
	130mm nom (Not Cut end) To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating:	Maximum Current Maximum Voltage Insulation Resistance
	1A 150V 1000MΩ
Connector:	Contact Material Contact Resistance Cable Exit Overall Size (Approx)
	Gold plated copper alloy <35mOhm Rear H60 x W12 x D35mm
Cable Type:	Multipaired: 68-Pin twisted pair. Wires paired 1&35, 2&36 etc Copper Resistance Insulation
	0.2Ω/m Polypropylene
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)

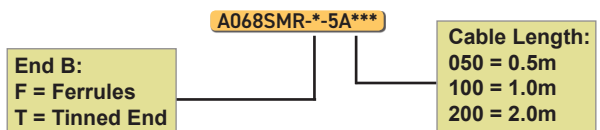
Notes:

Other cable lengths can be supplied.

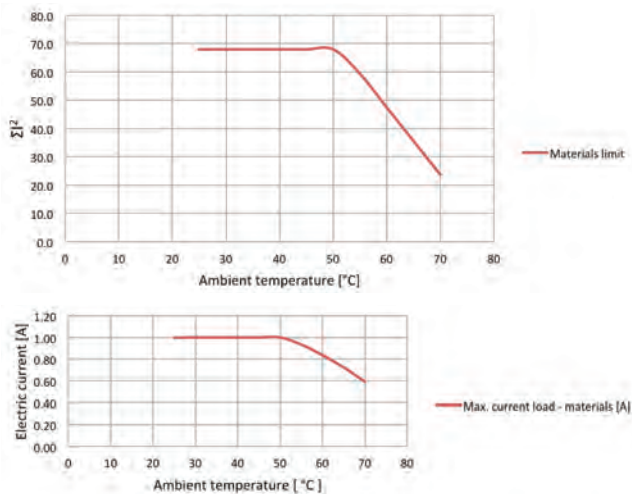
Product Order Codes

- 68-Pin 1.27mm Pitch Micro-D Cable Assy, 1A, Metal Latch
Male to Unterminated, Cut End, 0.5m [40-972-068-0.5m-MU](#)
Male to Unterminated, Cut End, 1.0m [40-972-068-1m-MU](#)
Male to Unterminated, Cut End, 2.0m [40-972-068-2m-MU](#)

Part numbers for other versions:



Characteristic Plots for 40-972-068-1m



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Wiring Schedule for 68-Pin 1.27mm Pitch Micro-D Cable Assy Male to Unterminated

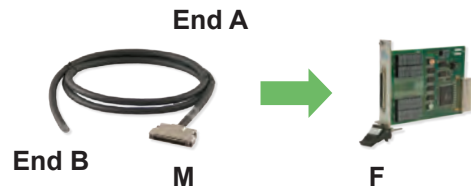
Wire Color	Pin	End A	Pin	Wire Color
Pink/Grey	35	● --- ●	1	Grey/Pink
Pink/Violet	36	● --- ●	2	Violet/Pink
Pink/Blue	37	● --- ●	3	Blue/Pink
Pink/Green	38	● --- ●	4	Green/Pink
Pink/Yellow	39	● --- ●	5	Yellow/Pink
Pink/Orange	40	● --- ●	6	Orange/Pink
Brown/Grey	41	● --- ●	7	Grey/Brown
Brown/Violet	42	● --- ●	8	Violet/Brown
Brown/Blue	43	● --- ●	9	Blue/Brown
Brown/Green	44	● --- ●	10	Green/Brown
Brown/Yellow	45	● --- ●	11	Yellow/Brown
Brown/Orange	46	● --- ●	12	Orange/Brown
Brown/Pink	47	● --- ●	13	Pink/Brown
Tan/Grey	48	● --- ●	14	Grey/Tan
Tan/Violet	49	● --- ●	15	Violet/Tan
Tan/Blue	50	● --- ●	16	Blue/Tan
Tan/Green	51	● --- ●	17	Green/Tan
Tan/Yellow	52	● --- ●	18	Yellow/Tan
Tan/Orange	53	● --- ●	19	Orange/Tan
Tan/Pink	54	● --- ●	20	Pink/Tan
Tan/Brown	55	● --- ●	21	Brown/Tan
White/Grey	56	● --- ●	22	Grey/White
White/Orange	57	● --- ●	23	Orange/White
White/Tan	58	● --- ●	24	Tan/White
White/Yellow	59	● --- ●	25	Yellow/White
White/Green	60	● --- ●	26	Green/White
White/Blue	61	● --- ●	27	Blue/White
White/Violet	62	● --- ●	28	Violet/White
White/Brown	63	● --- ●	29	Brown/White
White/Pink	64	● --- ●	30	Pink/White
Orange/Yellow	65	● --- ●	31	Yellow/Orange
Orange/Green	66	● --- ●	32	Green/Orange
Orange/Blue	67	● --- ●	33	Blue/Orange
Orange/Violet	68	● --- ●	34	Violet/Orange

68-Pin 1.27mm Pitch Male Connector (Mating Face)

--- Denotes Twisted Pairing ie. Pins 1 and 35 use paired wires

68-Pin 1.27mm Pitch Micro-D Cable Assy - Male to Unterminated

- High Specification and Highly Flexible Cable
- 2-56 UNC Screwlock Version
- Strain Relief
- Fully Screened Cable Construction
- Wires Color Coded to Ensure Easy Connection

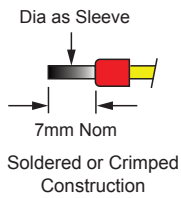


- 40-290
- 40-291
- 40-490
- 40-491
- 40-510
- 40-511
- 40-512
- 40-513
- 40-630
- 40-632

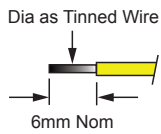
When using this product please ensure appropriate electrical safety precautions are observed.

End B Options

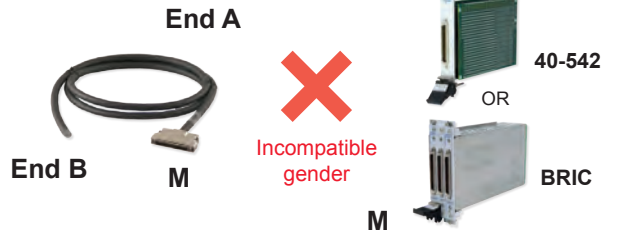
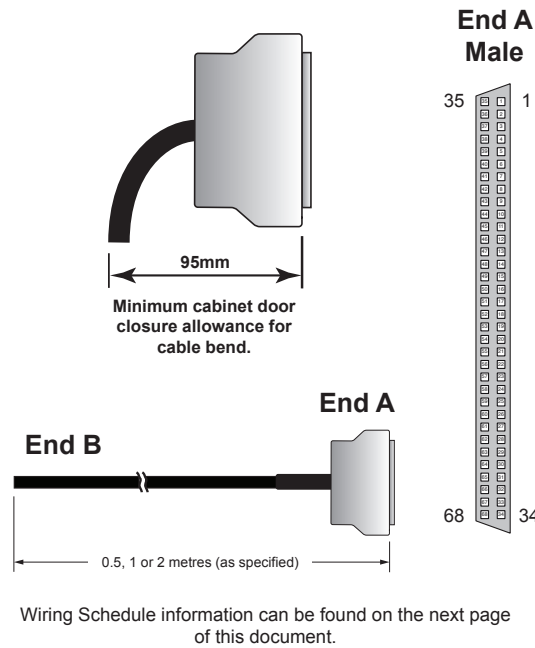
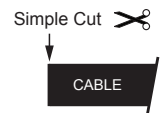
Ferrules



Tinned End



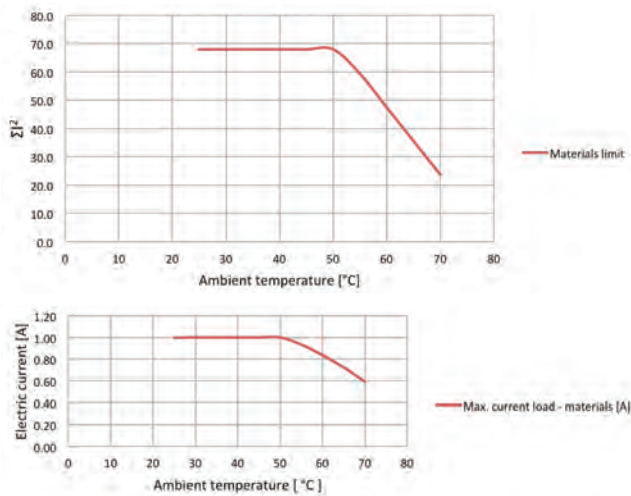
Cut End



Technical Specification

Connector Type (End A):	68-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks, male
Unterminated End (End B):	Free Wire Length Individual Wire Labelling Wire End Options
	130mm nom (Not Cut end) To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating:	1A 150V 1000MΩ
Connector:	Contact Material Contact Resistance Cable Exit Overall Size (Approx)
	Gold plated copper alloy <35mOhm Rear H60 x W12 x D35mm
Cable Type:	Multipaired: 68-Pin twisted pair. Wires paired 1&35, 2&36 etc
Conductor: Material	Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	Polypropylene
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)
Notes:	Other cable lengths can be supplied.

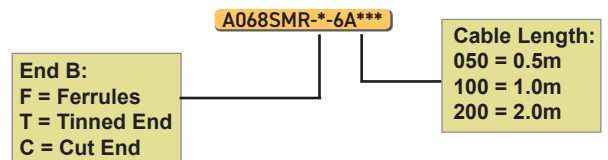
Characteristic Plots for A068SMR-*-6A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes



Wiring Schedule for 68-Pin 1.27mm Pitch Micro-D Cable Assy Male to Unterminated

End A

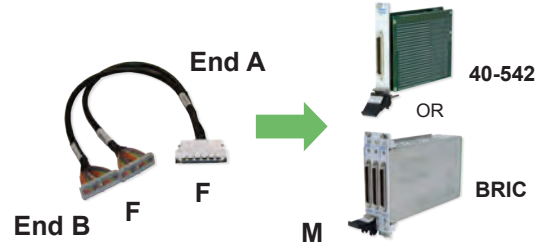
Wire Color	Pin		Pin	Wire Color
Pink/Grey	35	● - - ●	1	Grey/Pink
Pink/Violet	36	● - - ●	2	Violet/Pink
Pink/Blue	37	● - - ●	3	Blue/Pink
Pink/Green	38	● - - ●	4	Green/Pink
Pink/Yellow	39	● - - ●	5	Yellow/Pink
Pink/Orange	40	● - - ●	6	Orange/Pink
Brown/Grey	41	● - - ●	7	Grey/Brown
Brown/Violet	42	● - - ●	8	Violet/Brown
Brown/Blue	43	● - - ●	9	Blue/Brown
Brown/Green	44	● - - ●	10	Green/Brown
Brown/Yellow	45	● - - ●	11	Yellow/Brown
Brown/Orange	46	● - - ●	12	Orange/Brown
Brown/Pink	47	● - - ●	13	Pink/Brown
Tan/Grey	48	● - - ●	14	Grey/Tan
Tan/Violet	49	● - - ●	15	Violet/Tan
Tan/Blue	50	● - - ●	16	Blue/Tan
Tan/Green	51	● - - ●	17	Green/Tan
Tan/Yellow	52	● - - ●	18	Yellow/Tan
Tan/Orange	53	● - - ●	19	Orange/Tan
Tan/Pink	54	● - - ●	20	Pink/Tan
Tan/Brown	55	● - - ●	21	Brown/Tan
White/Grey	56	● - - ●	22	Grey/White
White/Orange	57	● - - ●	23	Orange/White
White/Tan	58	● - - ●	24	Tan/White
White/Yellow	59	● - - ●	25	Yellow/White
White/Green	60	● - - ●	26	Green/White
White/Blue	61	● - - ●	27	Blue/White
White/Violet	62	● - - ●	28	Violet/White
White/Brown	63	● - - ●	29	Brown/White
White/Pink	64	● - - ●	30	Pink/White
Orange/Yellow	65	● - - ●	31	Yellow/Orange
Orange/Green	66	● - - ●	32	Green/Orange
Orange/Blue	67	● - - ●	33	Blue/Orange
Orange/Violet	68	● - - ●	34	Violet/Orange

68-Pin 1.27mm Pitch Male Connector (Mating Face)

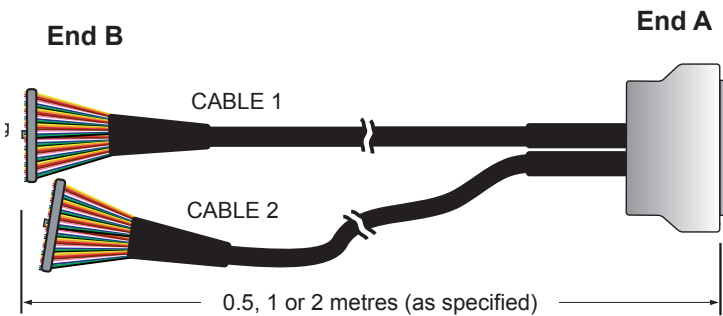
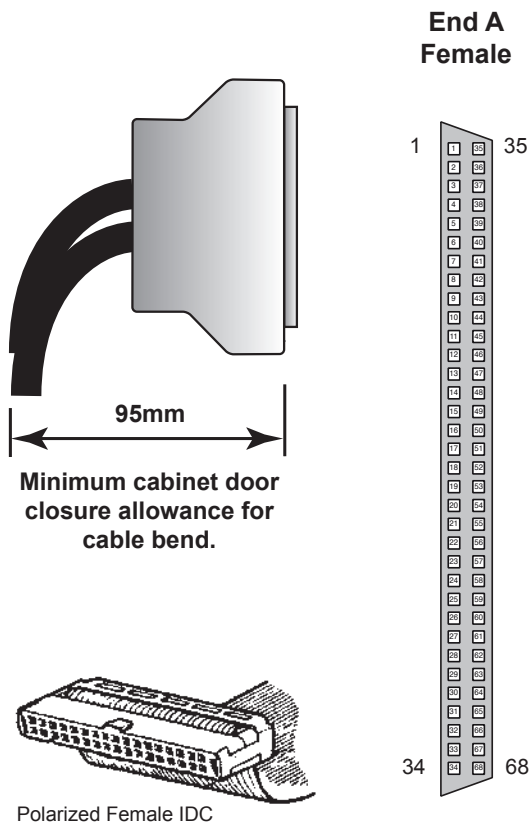
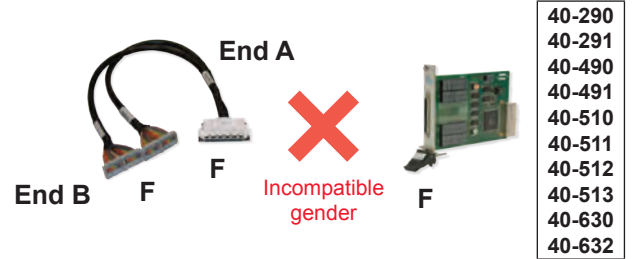
- - Denotes Twisted Pairing ie. Pins 1 and 35 use paired wires

68-Pin 1.27mm Pitch Micro-D (Female) to 2 x 34-Pin Ribbon (Female)

- High Specification Cable
- Highly Flexible Cable
- 68-Pin Connector with Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction



This cable assembly is designed to allow the termination of a 68-Pin 1.27mm Pitch Micro-D with 2 off 34-Pin Polarized Female IDC connectors. Each cable is identified and a common color coding is used.



Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A):	68-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal Spring Latch
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Overall Size (Approx)	H60 x W12 x D35mm
Connector Type (End B):	2 off 34-Pin polarized IDC
Gender	Female
Securing Method	Push fit
Contact Material	-
Contact Resistance	<20mOhm
Overall Size (Approx)	H15 x W48 x D6mm
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Cable Type:	Multipaired: 2 x 34-Pin twisted pair. Wires paired 1&2, 3&4 etc
Conductor: Material	Copper
Strands	7/0.127mm (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	9mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)
Notes:	
	• Please ensure the correct connector gender is ordered for the application. This may mean using a different connector style.
	• Other cable lengths can be supplied.

Product Order Codes

- 68-Pin 1.27mm Pitch Micro-D to 34-Pin Ribbon, 1A,
 Female to Female, 0.5m Long **40-971-068-0.5m-FF**
 Female to Female, 1.0m Long **40-971-068-1m-FF**
 Female to Female, 2.0m Long **40-971-068-2m-FF**

Wiring Schedule for 68-Pin 1.27mm Pitch Micro-D (Female) to 2 x 34-Pin IDC (Female)

End B

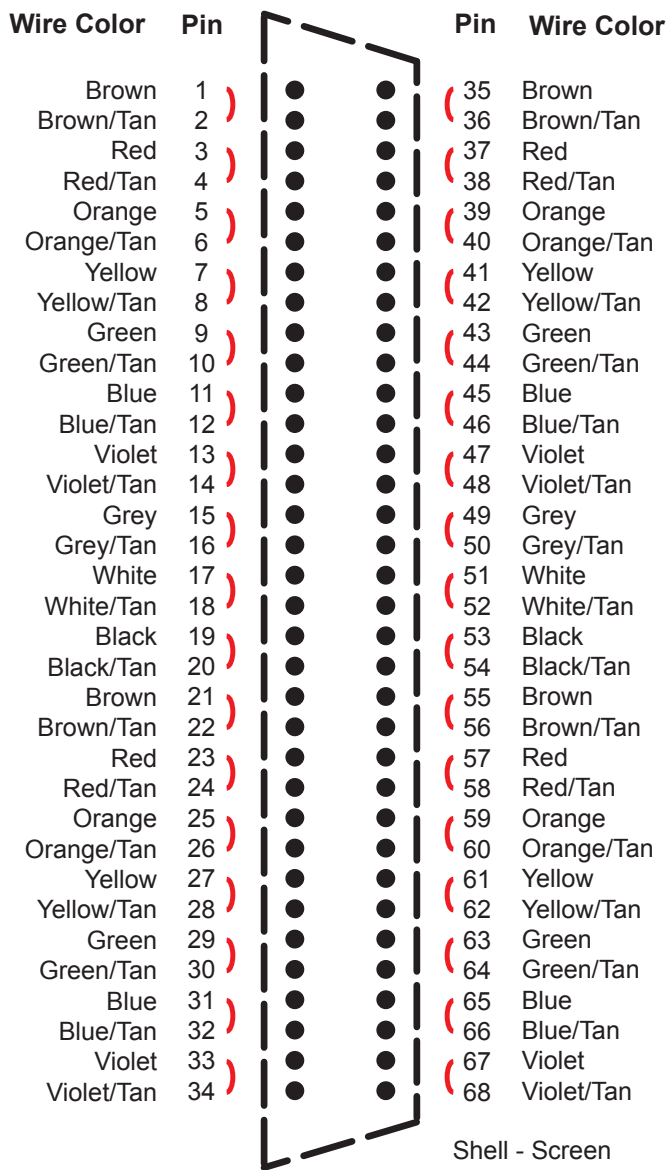
68-Pin Connector		CABLE 1		68-Pin Connector	
Pin No.				Pin No.	
Brown/Tan	2	2	1	1	Brown
Red/Tan	4	4	3	3	Red
Orange/Tan	6	6	5	5	Orange
Yellow/Tan	8	8	7	7	Yellow
Green/Tan	10	10	9	9	Green
Blue/Tan	12	12	11	11	Blue
Violet/Tan	14	14	13	13	Violet
Grey/Tan	16	16	15	15	Grey
White/Tan	18	18	17	17	White
Black/Tan	20	20	19	19	Black
Brown/Tan	22	22	21	21	Brown
Red/Tan	24	24	23	23	Red
Orange/Tan	26	26	25	25	Orange
Yellow/Tan	28	28	27	27	Yellow
Green/Tan	30	30	29	29	Green
Blue/Tan	32	32	31	31	Blue
Violet/Tan	34	34	33	33	Violet

34-Pin IDC Female (Mating Face)

68-Pin Connector		CABLE 2		68-Pin Connector	
Pin No.				Pin No.	
Brown/Tan	36	2	1	35	Brown
Red/Tan	38	4	3	37	Red
Orange/Tan	40	6	5	39	Orange
Yellow/Tan	42	8	7	41	Yellow
Green/Tan	44	10	9	43	Green
Blue/Tan	46	12	11	45	Blue
Violet/Tan	48	14	13	47	Violet
Grey/Tan	50	16	15	49	Grey
White/Tan	52	18	17	51	White
Black/Tan	54	20	19	53	Black
Brown/Tan	56	22	21	55	Brown
Red/Tan	58	24	23	57	Red
Orange/Tan	60	26	25	59	Orange
Yellow/Tan	62	28	27	61	Yellow
Green/Tan	64	30	29	63	Green
Blue/Tan	66	32	31	65	Blue
Violet/Tan	68	34	33	67	Violet

34-Pin IDC Female (Mating Face)

End A

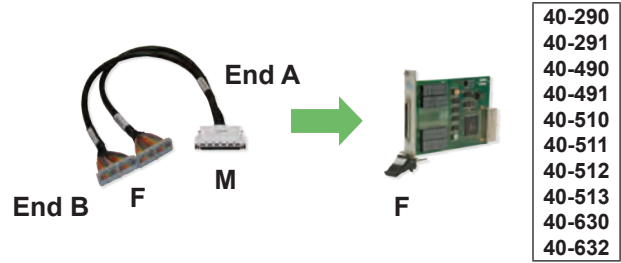


68-Pin 1.27mm Pitch Female Connector (Mating Face)

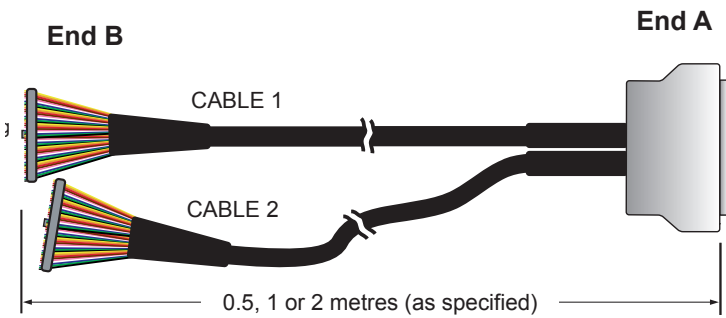
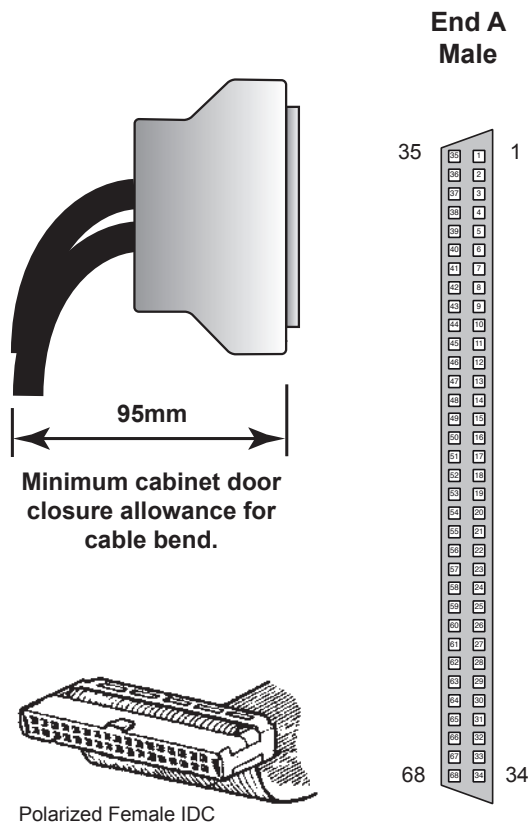
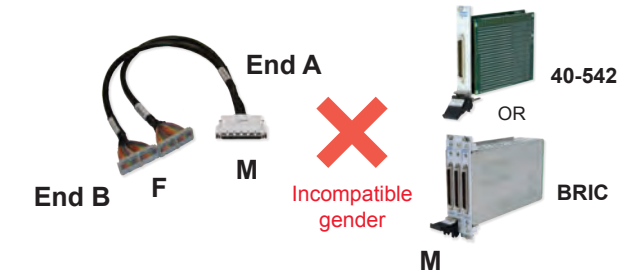
() Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

68-Pin 1.27mm Pitch Micro-D (Male) to 2 x 34-Pin Ribbon (Female)

- High Specification Cable
- Highly Flexible Cable
- 68-Pin Connector with Metal Spring Latches
- Strain Relief
- Fully Screened Cable Construction



This cable assembly is designed to allow the termination of a 68-Pin 1.27mm Pitch Micro-D with 2 off 34-Pin Polarized Female IDC connectors. Each cable is identified and a common color coding is used.



Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A):	68-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Metal Spring Latch
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Overall Size (Approx)	H60 x W12 x D35mm
Connector Type (End B):	2 off 34-Pin polarised IDC
Gender	Female
Securing Method	Push fit
Contact Material	-
Contact Resistance	<20mOhm
Overall Size (Approx)	H15 x W48 x D6mm
Cable Assembly Rating:	1A
Maximum Current	150V
Maximum Voltage	1000MΩ
Insulation Resistance	
Cable Type:	Multipaired: 2 x 34-Pin twisted pair. Wires paired 1&2, 3&4 etc
Conductor: Material	Copper
Strands	7/0.127mm (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	9mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)
Notes:	
	• Please ensure the correct connector gender is ordered for the application. This may mean using a different connector style.
	• Other cable lengths can be supplied.

Product Order Codes

68-Pin 1.27mm Pitch Micro-D to 34-Pin Ribbon, 1A, Male to Female, 0.5m Long	40-971-068-0.5m-MF
Male to Female, 1.0m Long	40-971-068-1m-MF
Male to Female, 2.0m Long	40-971-068-2m-MF

Wiring Schedule for 68-Pin 1.27mm Pitch Micro-D (Male) to 2 x 34-Pin IDC (Female)

End B

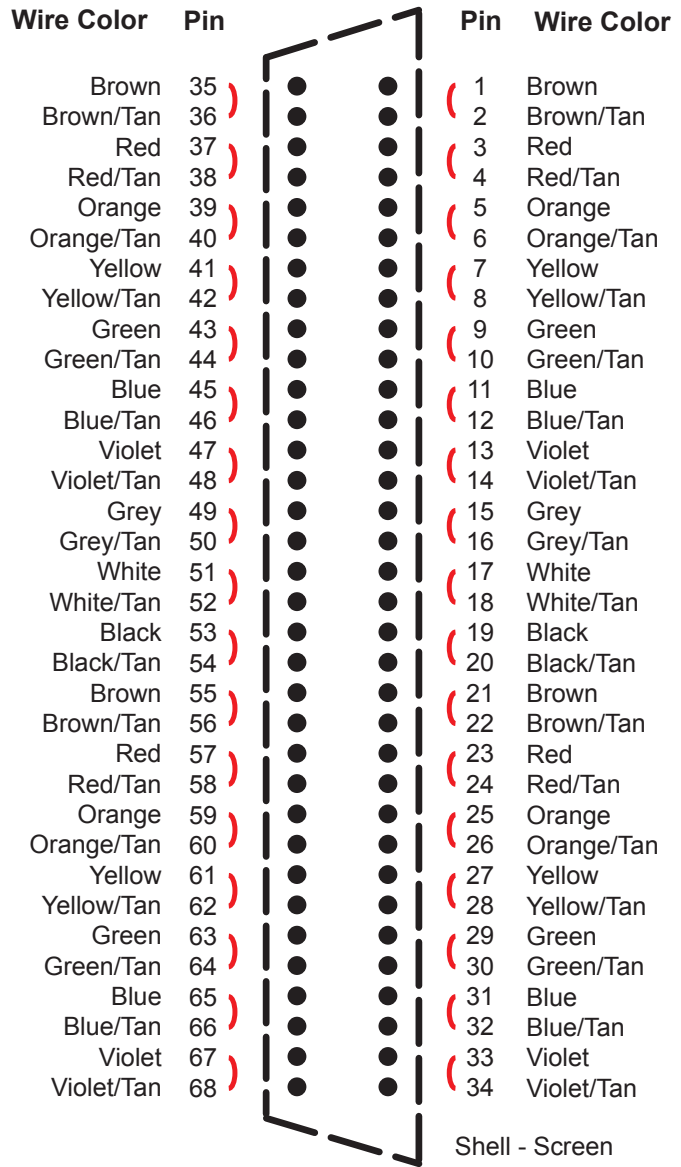
68-Pin Connector		CABLE 1		68-Pin Connector	
Pin No.				Pin No.	
Brown/Tan	2	2	1	1	Brown
Red/Tan	4	4	3	3	Red
Orange/Tan	6	6	5	5	Orange
Yellow/Tan	8	8	7	7	Yellow
Green/Tan	10	10	9	9	Green
Blue/Tan	12	12	11	11	Blue
Violet/Tan	14	14	13	13	Violet
Grey/Tan	16	16	15	15	Grey
White/Tan	18	18	17	17	White
Black/Tan	20	20	19	19	Black
Brown/Tan	22	22	21	21	Brown
Red/Tan	24	24	23	23	Red
Orange/Tan	26	26	25	25	Orange
Yellow/Tan	28	28	27	27	Yellow
Green/Tan	30	30	29	29	Green
Blue/Tan	32	32	31	31	Blue
Violet/Tan	34	34	33	33	Violet

34-Pin IDC Female (Mating Face)

68-Pin Connector		CABLE 2		68-Pin Connector	
Pin No.				Pin No.	
Brown/Tan	36	2	1	35	Brown
Red/Tan	38	4	3	37	Red
Orange/Tan	40	6	5	39	Orange
Yellow/Tan	42	8	7	41	Yellow
Green/Tan	44	10	9	43	Green
Blue/Tan	46	12	11	45	Blue
Violet/Tan	48	14	13	47	Violet
Grey/Tan	50	16	15	49	Grey
White/Tan	52	18	17	51	White
Black/Tan	54	20	19	53	Black
Brown/Tan	56	22	21	55	Brown
Red/Tan	58	24	23	57	Red
Orange/Tan	60	26	25	59	Orange
Yellow/Tan	62	28	27	61	Yellow
Green/Tan	64	30	29	63	Green
Blue/Tan	66	32	31	65	Blue
Violet/Tan	68	34	33	67	Violet

34-Pin IDC Female (Mating Face)

End A

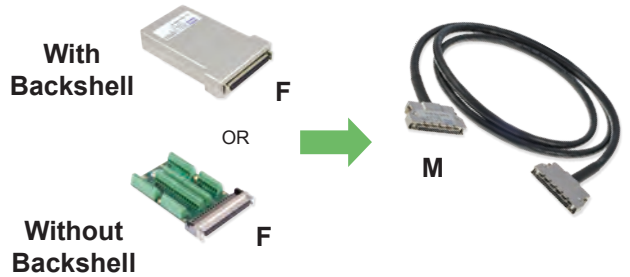


68-Pin 1.27mm Pitch Male Connector (Mating Face)

— Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

68-Pin 1.27mm Pitch Micro-D Connector Block - Female

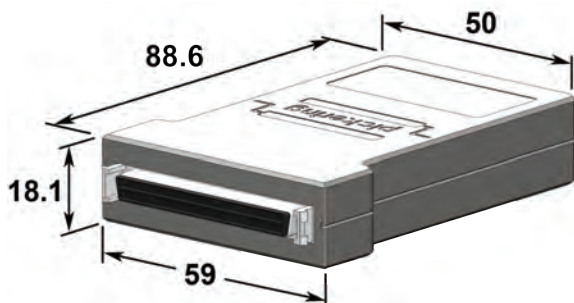
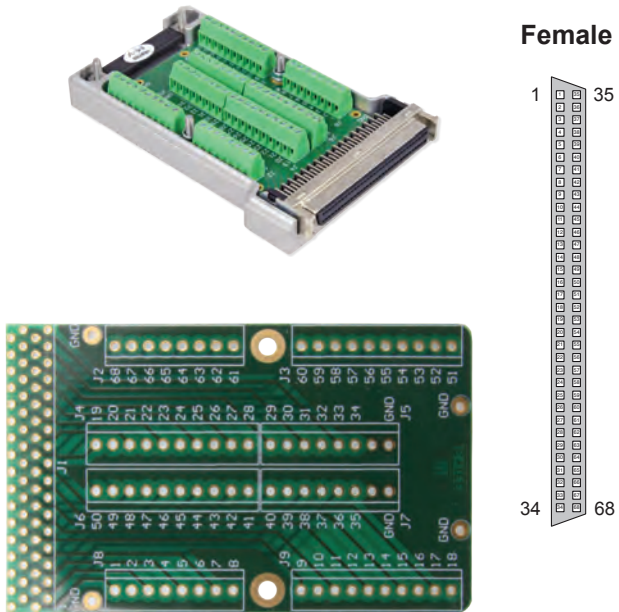
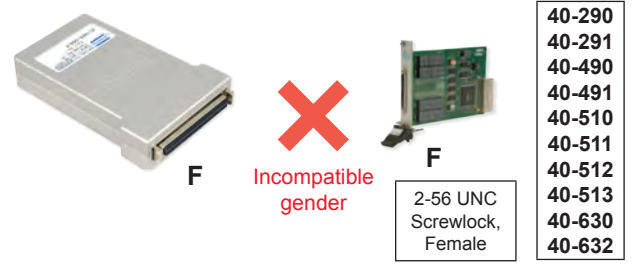
- Connector and PCB and Backshell
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals



Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



Technical Specification

Connector Type: Gender	68-Pin 1.27mm pitch Micro-D Female
Securing Method: Product with Backshell Product without Backshell Wire Connection	Latch block Latch block Rising cage screw terminals
Connector Block Ratings: Maximum Current Maximum Voltage Cable Exit Overall Size (Approx)	1A 200VDC Rear - 12.6 x 28mm H59 x W18.1 x D92mm
68-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Screw Terminals: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Shielded Connector Block, 1A, Screw Terminal, With Backshell, Female 40-965-068-F
Without Backshell, Female 92-965-068-F

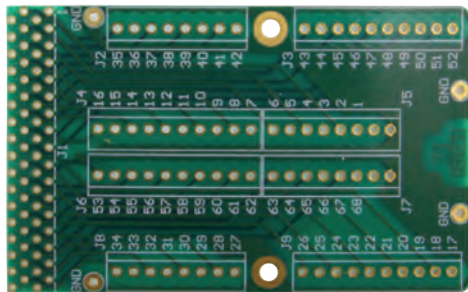
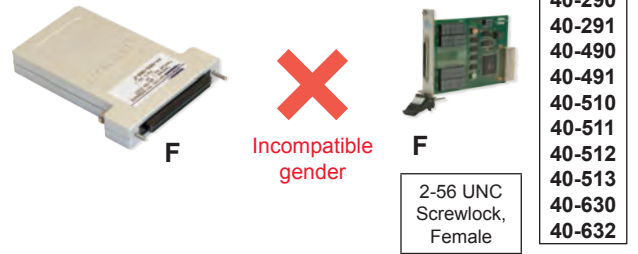
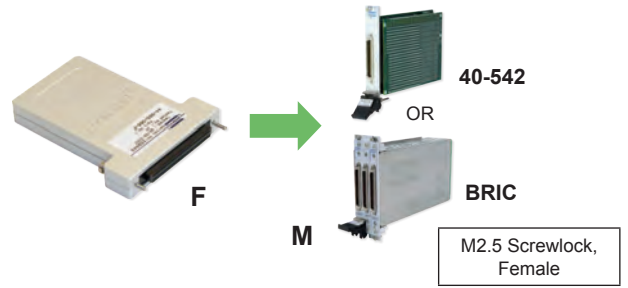
68-Pin 1.27mm Pitch Micro-D Connector Block - Female

- Connector and PCB and Backshell
- Mounts Directly on Front of BRIC Module
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

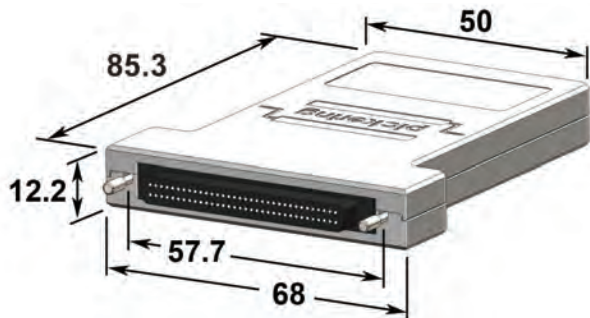
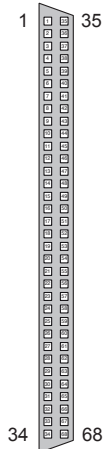
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This connector block provides a simple method of connecting to high density 68-Pin 1.27mm Pitch Micro-D connectors. The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables.



Female



Technical Specification

Connector Type: Gender Securing Method Wire Connection	68-Pin 1.27mm pitch Micro-D Female M2.5 screwlocks, male Rising cage screw terminals
Connector Block Ratings: Maximum Current Maximum Voltage Cable Exit Overall Size (Approx)	1A 200VDC Rear - 9.5 x 20mm H68 x W12.2 x D90.5mm
68-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Screw Terminals: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Yes (in backshell)

Product Order Codes

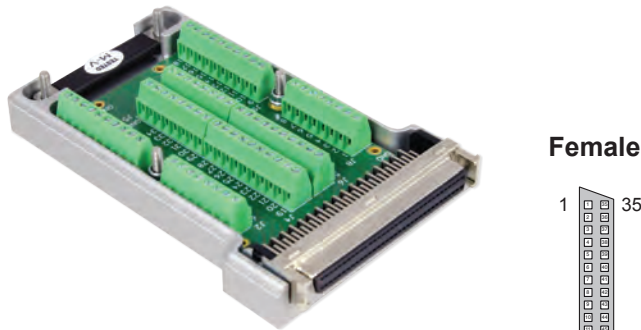
68-Pin 1.27mm Pitch Micro-D Shielded Connector Block for BRIC Modules, 1A, Screw Terminal, With Backshell, Female **44-965-068-F**

68-Pin 1.27mm Pitch Micro-D Connector Block - Female

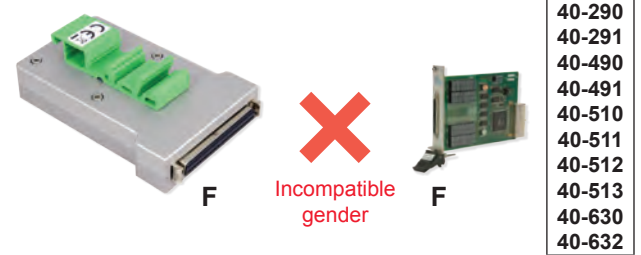
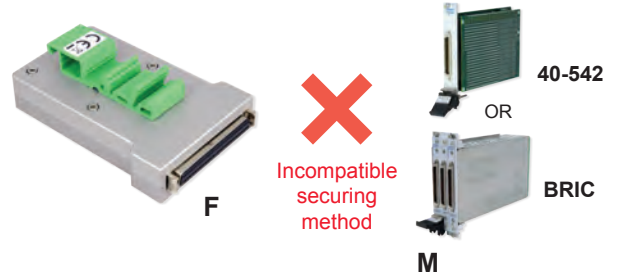
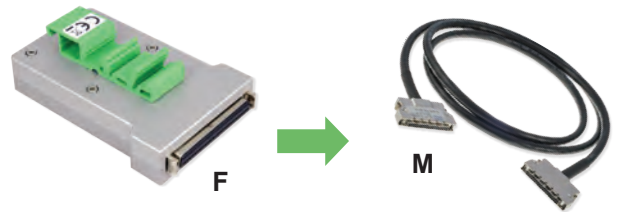
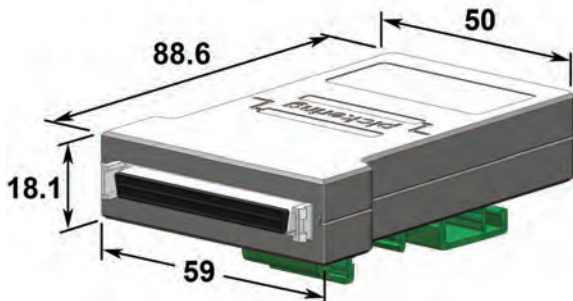
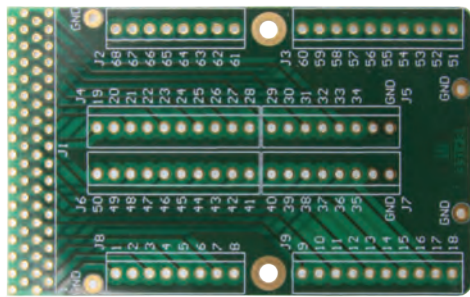
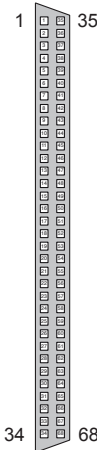
- For Connection at Cable End
- DIN Rail Mounted
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 68-Pin 1.27mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board. Latch blocks are supplied in order to provide strain relief between the connector and the cable.



Female



Technical Specification

Connector Type: Gender Securing Method Wire Connection	68-Pin 1.27mm pitch Micro-D Female Latch block Rising cage screw terminals
Connector Block Ratings: Maximum Current Maximum Voltage Cable Exit Overall Size (Approx)	1A 200VDC Rear - 12.6 x 28mm H59 x W18.1 x D92mm
68-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Screw Terminals: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, Screw Terminal, with Backshell, Female **40-966-068-F**

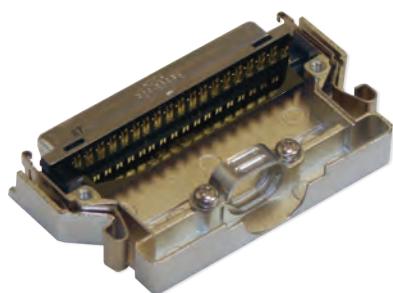
Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Connector - Female

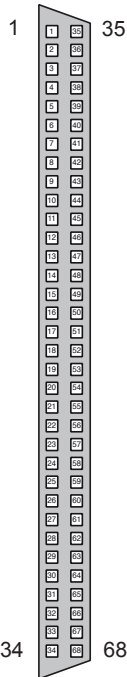
- Connector and Backshell
- Metal Spring Latches
- IDC for Ribbon Cable
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector.

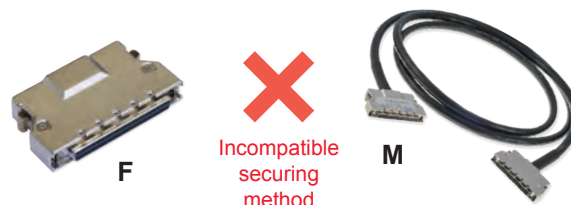
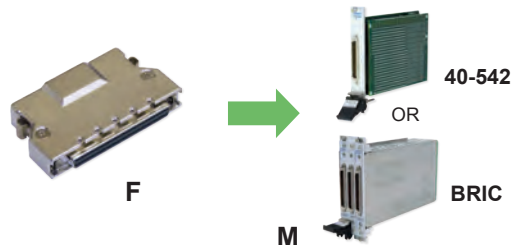
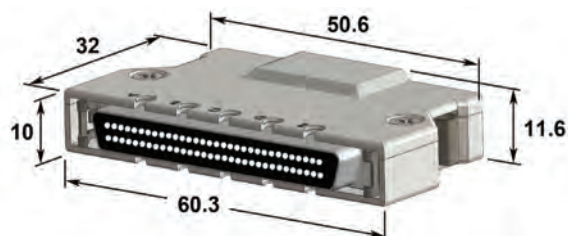
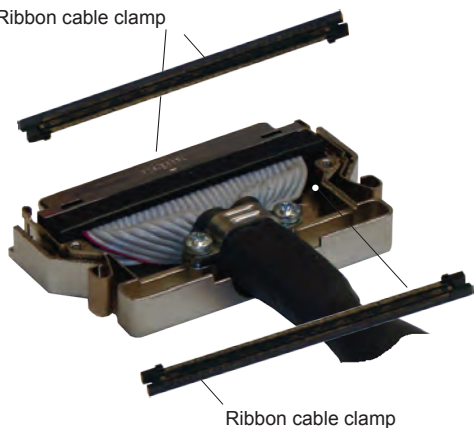
It is difficult to terminate cable to the 68-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Female



Ribbon cable clamp



Technical Specification

Connector Type:	68-Pin 1.27mm pitch Micro-D, IDC for ribbon cable
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	7.5 x 8.5mm
Overall Size (Approx)	H60 x W12 x D35mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Ribbon cable, 68-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable,

With Backshell, Female

40-961-068-F

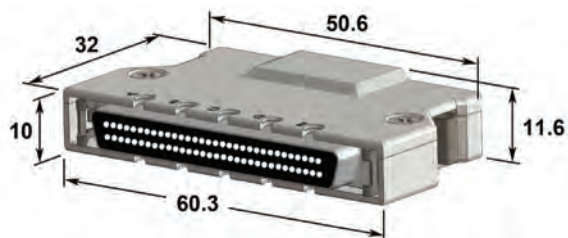
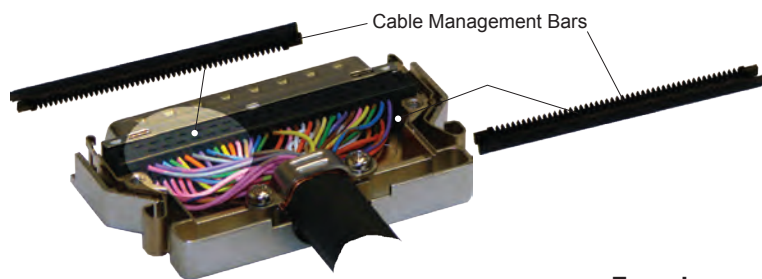
Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Connector - Female

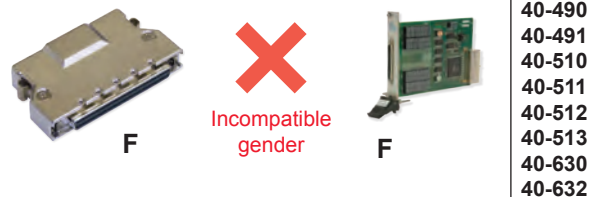
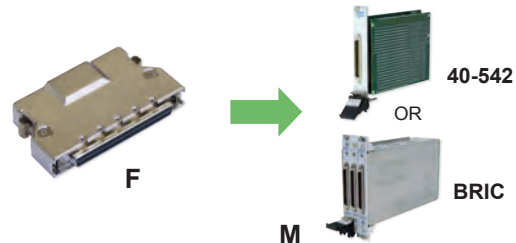
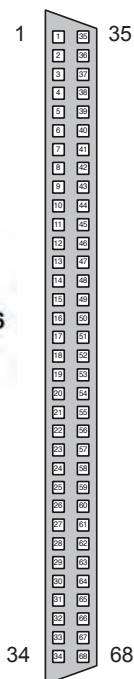
- Connector and Backshell
- Metal Spring Latches
- IDC for Discrete Wires
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 68-Pin 1.27mm Pitch Micro-D connector.

It is difficult to terminate cable to the 68-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Female



Technical Specification

Connector Type:	68-Pin 1.27mm pitch Micro-D, IDC for discrete wires
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	7.5 x 8.5mm
Overall Size (Approx)	H60 x W12 x D35mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 68-Pin or single core,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire Cable (Multicore or Individual Single Cores, not Ribbon),

With Backshell, Female

40-962-068-F

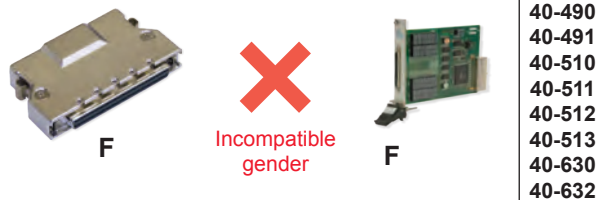
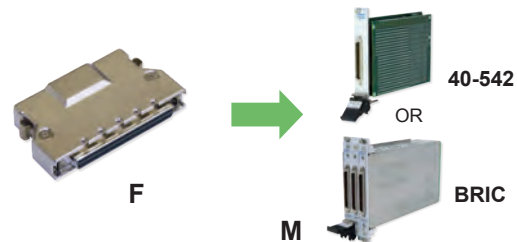
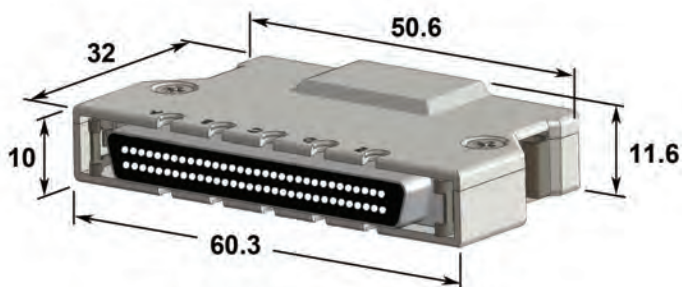
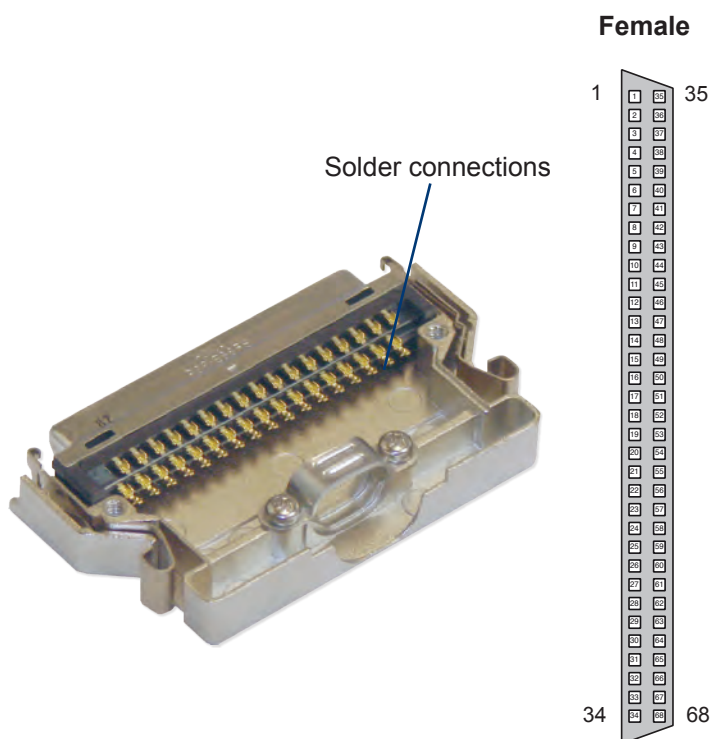
Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Connector - Female

- Connector and Backshell
- Metal Spring Latches
- Soldered Connection
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with soldered connections to the 68-Pin 1.27mm Pitch Micro-D connector.

It is difficult to terminate cable to the 68-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Technical Specification

Connector Type:	68-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	7.5 x 8.5mm
Overall Size (Approx)	H60 x W12 x D35mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	20AWG, (Number of connections may be limited by backshell exit)
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, Solder Bucket With Backshell, Female **40-962-068-SB-F**

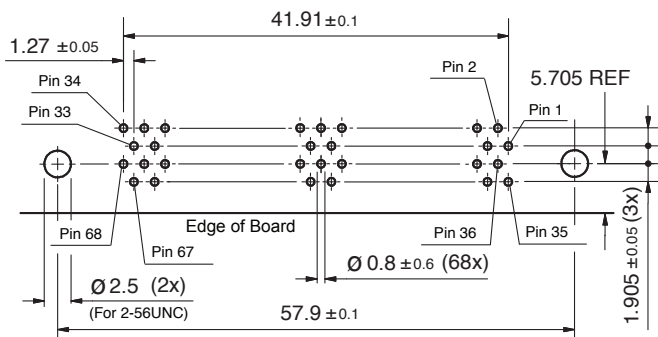
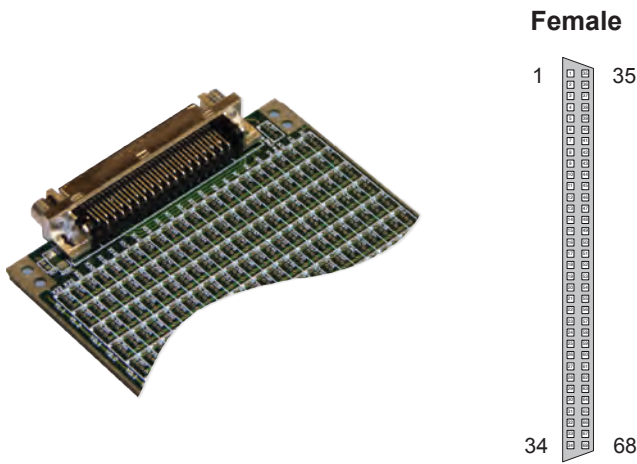
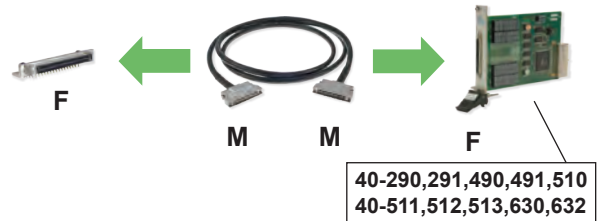
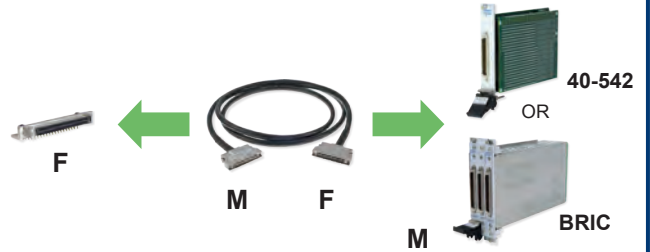
Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Connector, Right Angle PCB Mount - Female

- Right Angle PCB Mount
- 2-56 UNC Screwlocks and Latch Block
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



PCB Footprint of 68-Pin Right Angle Female Connector (Connector Side - Not to Scale)

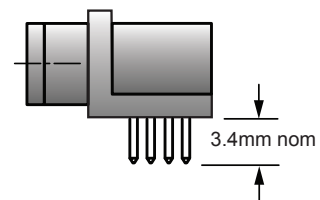
Technical Specification

Connector Type:	68-Pin 1.27mm pitch Micro-D Female
Gender	Female
Securing Method	2-56 UNC screwlocks, female and latch block
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250VAC
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length	3.4mm nom (See diagram)

Notes:

Pin numbers do not directly match for the male and female connectors.

Leg Length



Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount

Female **40-963-068-RF**

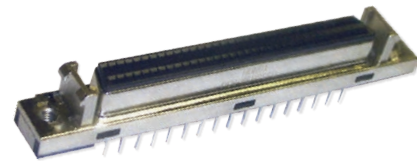
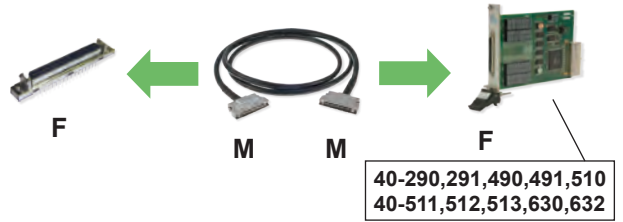
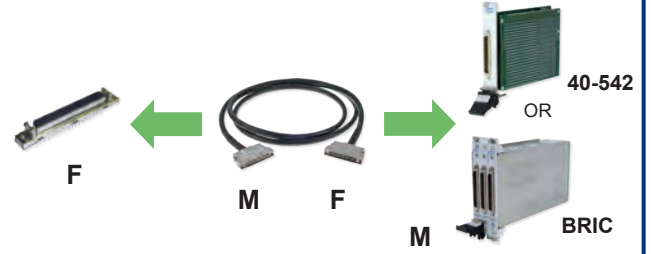
Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Connector, Straight PCB Mount - Female

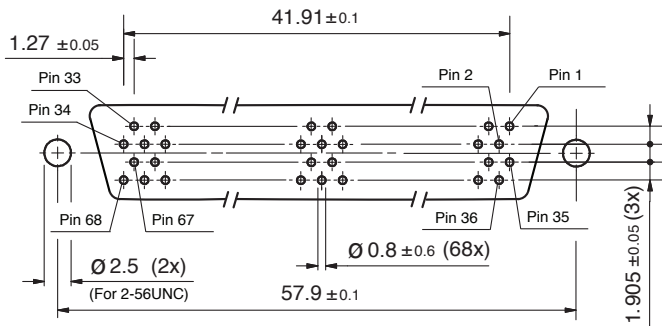
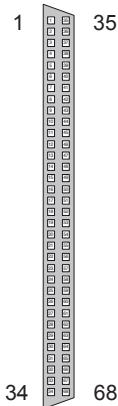
- Straight PCB Mount
- 2-56 UNC Screwlocks and Latch Block
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

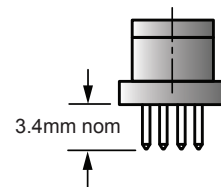


PCB Footprint of 68-Pin Straight Female Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method	68-Pin 1.27mm pitch Micro-D Female 2-56 UNC screwlocks, female and latch block
PCB Mounting	Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	1A each pin 250VAC
68-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
PCB Legs: Leg Length	3.4mm nom (See diagram)

Leg Length



Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, Straight PCB Mount,
Female **40-963-068-SF**

Please ensure the correct connector gender is ordered for the application.

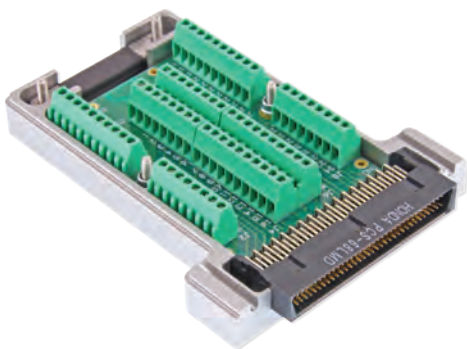
68-Pin D-Type Connector Block - Male

- Connector and PCB and Backshell
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

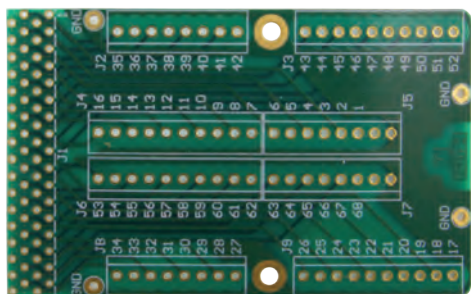
This connector block provides a simple method of connecting to high density 68-Pin 1.27mm Pitch Micro-D connectors. The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

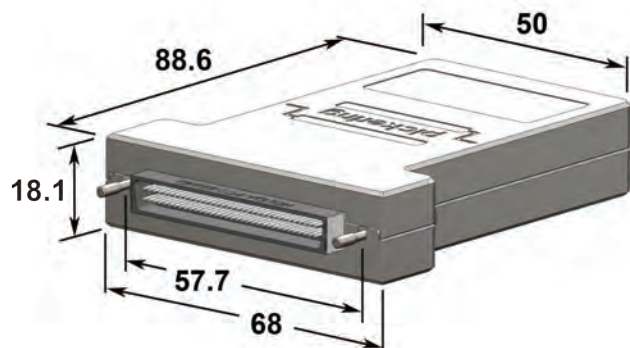


Male

35 1



68 34



With Backshell

2-56 UNC Screwlock, Female

- 40-290
- 40-291
- 40-490
- 40-491
- 40-510
- 40-511
- 40-512
- 40-513
- 40-630
- 40-632

With Backshell

Incompatible gender

40-542

OR

BRIC

M2.5 Screwlock, Female

OR

Incompatible securing method

F

Technical Specification

Connector Type: Gender	68-Pin 1.27mm pitch Micro-D Male
Securing Method: Product with Backshell Product without Backshell	2-56 UNC screwlocks, male Push Fit
Wire Connection	Rising cage screw terminals
Connector Block Ratings: Maximum Current Maximum Voltage Cable Exit Overall Size (Approx)	1A 200VDC Rear - 12.6 x 28mm H68 x W18.1 x D93mm
68-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Screw Terminals: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Yes (in backshell)

Product Order Codes

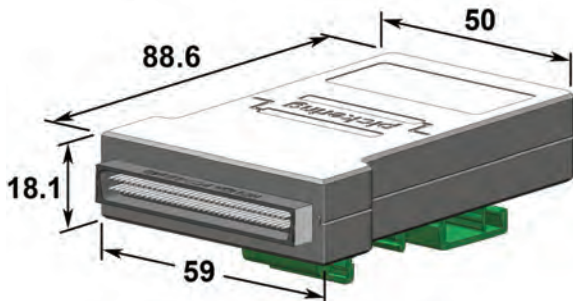
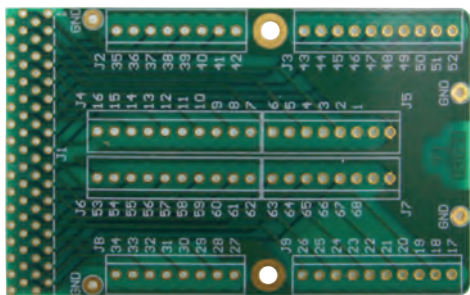
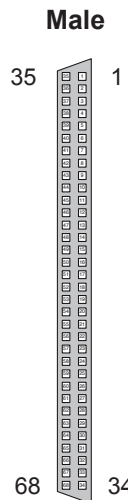
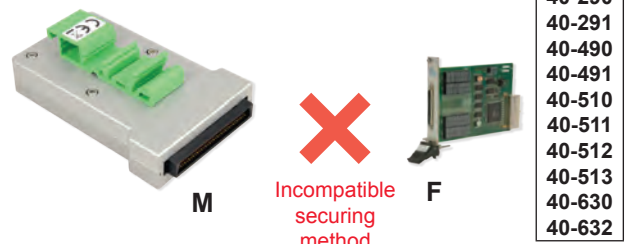
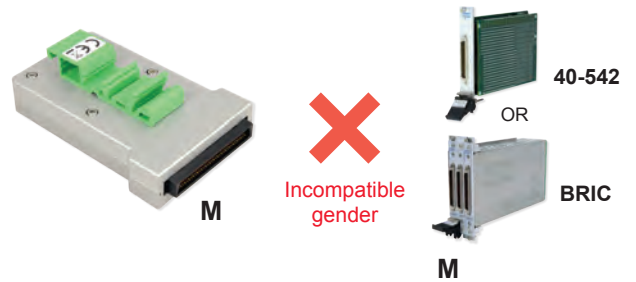
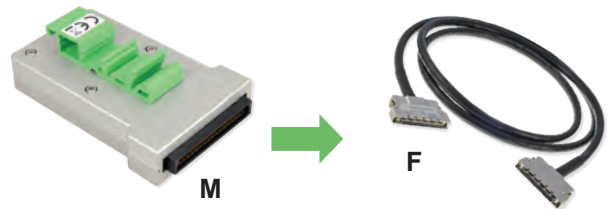
68-Pin 1.27mm Pitch Micro-D Shielded Connector Block, 1A, Screw Terminal,
With Backshell, Male 40-965-068-M
Without Backshell, Male 92-965-068-M

68-Pin 1.27mm Pitch Micro-D Connector Block - Male

- For Connection at Cable End
- DIN Rail Mounted
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 68-Pin 1.27mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board.



Technical Specification

Connector Type: Gender Securing Method Wire Connection	68-Pin 1.27mm pitch Micro-D Male Push fit Rising cage screw terminals
Connector Block Ratings: Maximum Current Maximum Voltage Cable Exit Overall Size (Approx)	1A 200VDC Rear H59 x W18.1 x D93mm
68-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Screw Terminals: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, Screw Terminal, with Backshell, Male **40-966-068-M**

Please ensure the correct connector gender is ordered for the application.

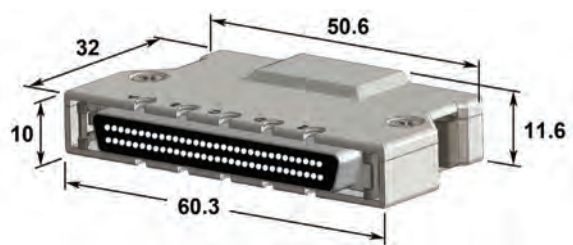
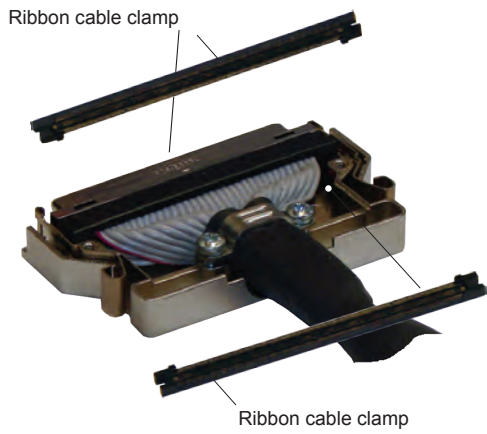
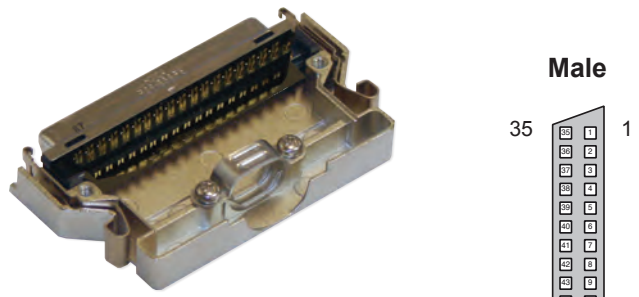
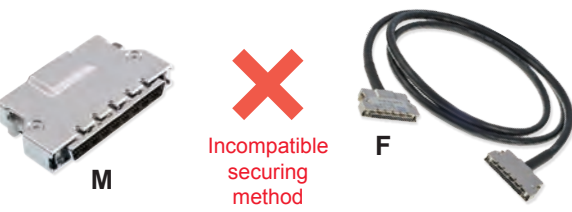
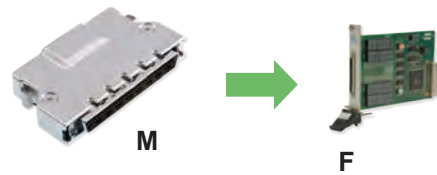
68-Pin 1.27mm Pitch Micro-D Connector - Male

- Connector and Backshell
- Metal Spring Latch
- IDC for Ribbon Cable
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable to the connector.

It is difficult to terminate cable to the 68-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

- 40-290
- 40-291
- 40-490
- 40-491
- 40-510
- 40-511
- 40-512
- 40-513
- 40-630
- 40-632



Technical Specification

Connector Type:	68-Pin 1.27mm pitch Micro-D, IDC for ribbon cable
Gender	Male
Securing Method	Metal spring latch
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	7.5 x 8.5mm
Overall Size (Approx)	H60 x W12 x D35mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Ribbon cable, 68-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable

With Backshell, Male

40-961-068-M

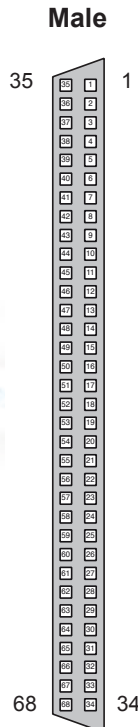
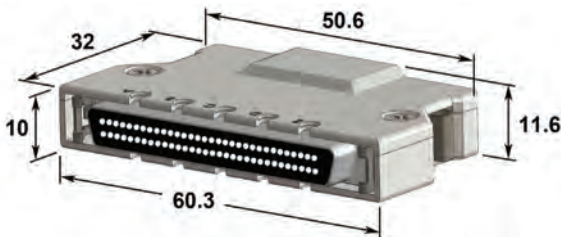
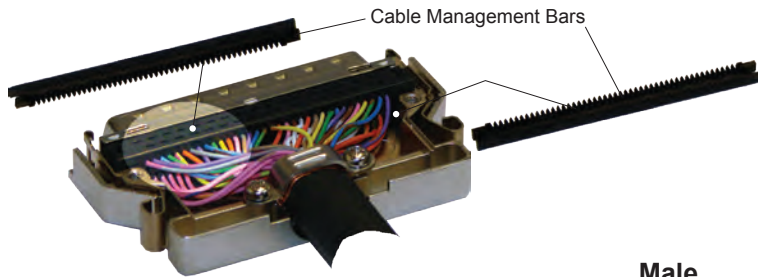
Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Connector - Male

- Connector and Backshell
- Metal Spring Latch
- IDC for Discrete Wires
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 68-Pin 1.27mm Pitch Micro-D connector.

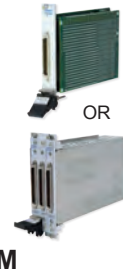
It is difficult to terminate cable to the 68-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



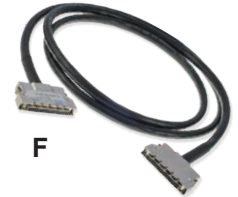
- 40-290
- 40-291
- 40-490
- 40-491
- 40-510
- 40-511
- 40-512
- 40-513
- 40-630
- 40-632



Incompatible gender



Incompatible securing method



Technical Specification

Connector Type:	68-Pin 1.27mm pitch Micro-D, IDC for discrete wires
Gender	Male
Securing Method	Metal spring latch
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250VAC
Cable Exit:	Rear
Cable Exit Size	7.5 x 8.5mm
Overall Size (Approx)	H60 x W12 x D35mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 68-Pin or single core,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire Cable (Multicore or Individual Single Cores, not Ribbon)

With Backshell, Male

40-962-068-M

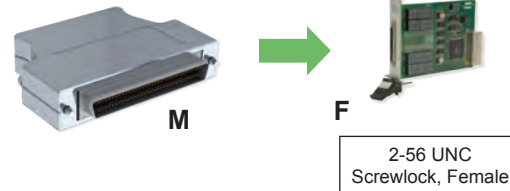
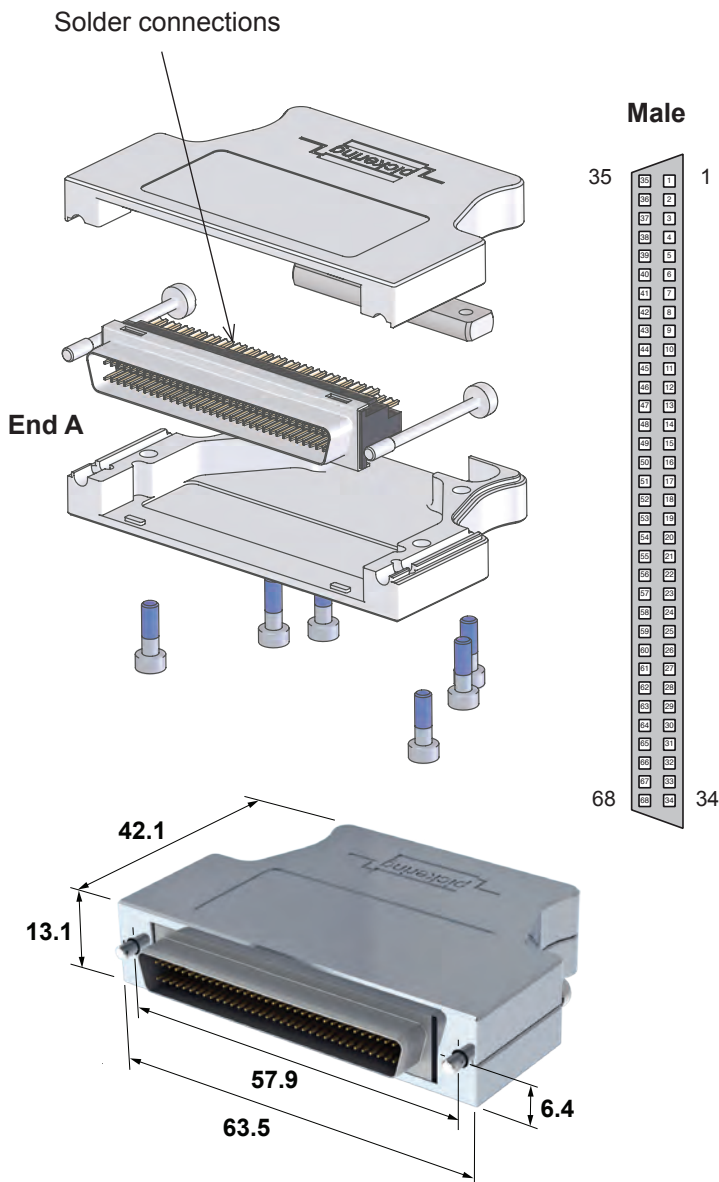
Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Connector - Male

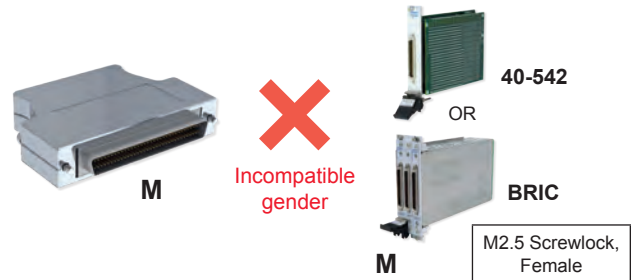
- Connector and Backshell
- 2-56 UNC Screwlock Version
- Soldered Connection
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable with soldered connections to the connector.

It is difficult to terminate cable to the 68-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



- 40-290
- 40-291
- 40-490
- 40-491
- 40-510
- 40-511
- 40-512
- 40-513
- 40-630
- 40-632



Technical Specification

Connector Type: Gender Securing Method	68-Pin 1.27mm pitch Micro-D Male 2-56 UNC screwlocks, male. Screwlock adaptors are supplied to fit onto the module front panel connector.
Wire Connection	Solder bucket
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	1A 250VAC Rear 22.4 x 10.1mm H63.5 x W13.1 x D47mm
68-Pin Micro-D: Contact Material Contact Resistance	Gold plated copper alloy <35mOhm
Wire Connection: Maximum Wire Size Additional Cable Clamp	20AWG Yes (in backshell)

Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, Solder Bucket,

With Backshell, Male

40-962A-068-SB-M

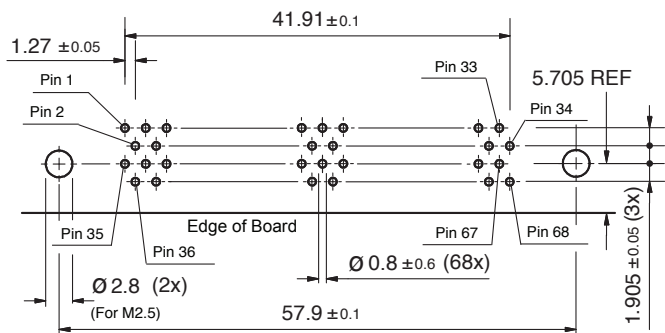
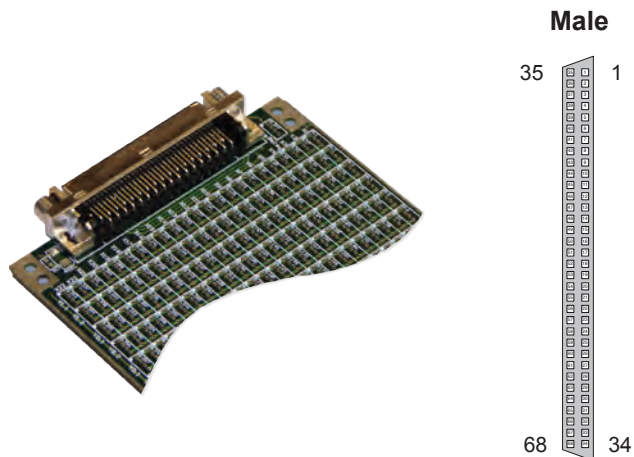
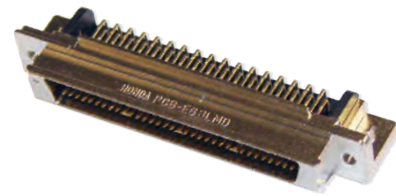
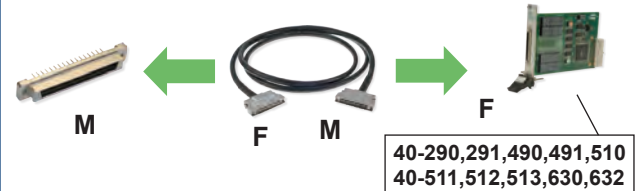
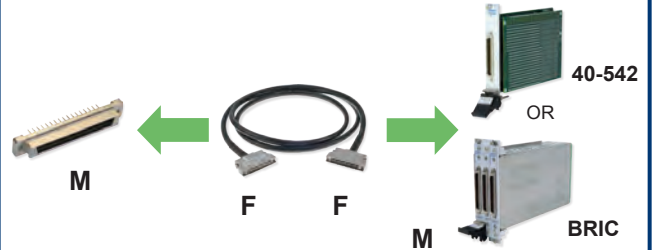
Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Connector, Right Angle PCB Mount - Male

- Right Angle PCB Mount
- M2.5 Screwlocks and Latch Clip
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



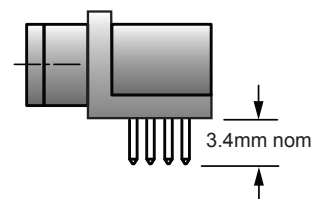
**PCB Footprint of 68-Pin Right Angle Male Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	68-Pin 1.27mm pitch Micro-D Male M2.5 screwlocks, female and latch clip Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 68-Pin Micro-D: Contact Material Contact Resistance PCB Legs: Leg Length	1A each pin 250VAC Gold plated copper alloy <35mOhm 3.4mm nom (See diagram)

Notes:
Pin numbers do not directly match for the male and female connectors.

Leg Length



Product Order Codes

68-Pin 1.27mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount

Male

40-963-068-RM

Please ensure the correct connector gender is ordered for the application.

68-Pin 1.27mm Pitch Micro-D Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

68-Pin 1.27mm Pitch Micro-D Cable Assy - Female to Unterminated

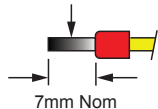
- High Specification and Highly Flexible Cable
- Connector with 2-56 UNC Screwlocks
- Strain Relief
- Wires Color Coded to Ensure Easy Connection

When using this product please ensure appropriate electrical safety precautions are observed.

End B Options

Ferrules

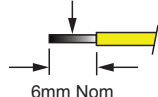
Dia as Sleeve



7mm Nom
Soldered or Crimped Construction

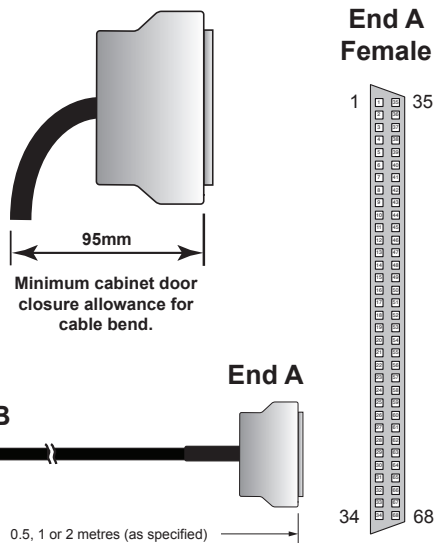
Tinned End

Dia as Tinned Wire



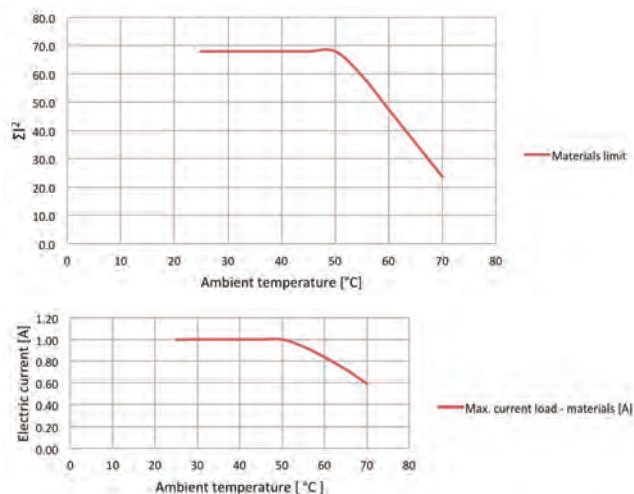
Cut End

Simple Cut



Wiring Schedule information can be found on the next page of this document.

Characteristic Plots for A068SFR-*-6A100



The top graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	68-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Unterminated End (End B):	130mm nom (Not Cut end)
Free Wire Length	To connector pins
Individual Wire Labelling	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35mm
Cable Type:	
Conductor: Material	Copper
Strands	7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	Polypropylene
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	95mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

A068SFR-*-6A***		
End B:		Cable Length:
F = Ferrules		050 = 0.5m
T = Tinned End		100 = 1.0m
C = Cut End		200 = 2.0m

Wiring Schedule for 68-Pin 1.27mm Pitch Micro-D Cable Assy Female to Unterminated

End A

Wire Color	Pin		Pin	Wire Color
Grey/Pink	1	● --- ●	35	Pink/Grey
Violet/Pink	2	● --- ●	36	Pink/Violet
Blue/Pink	3	● --- ●	37	Pink/Blue
Green/Pink	4	● --- ●	38	Pink/Green
Yellow/Pink	5	● --- ●	39	Pink/Yellow
Orange/Pink	6	● --- ●	40	Pink/Orange
Grey/Brown	7	● --- ●	41	Brown/Grey
Violet/Brown	8	● --- ●	42	Brown/Violet
Blue/Brown	9	● --- ●	43	Brown/Blue
Green/Brown	10	● --- ●	44	Brown/Green
Yellow/Brown	11	● --- ●	45	Brown/Yellow
Orange/Brown	12	● --- ●	46	Brown/Orange
Pink/Brown	13	● --- ●	47	Brown/Pink
Grey/Tan	14	● --- ●	48	Tan/Grey
Violet/Tan	15	● --- ●	49	Tan/Violet
Blue/Tan	16	● --- ●	50	Tan/Blue
Green/Tan	17	● --- ●	51	Tan/Green
Yellow/Tan	18	● --- ●	52	Tan/Yellow
Orange/Tan	19	● --- ●	53	Tan/Orange
Pink/Tan	20	● --- ●	54	Tan/Pink
Brown/Tan	21	● --- ●	55	Tan/Brown
Grey/White	22	● --- ●	56	White/Grey
Orange/White	23	● --- ●	57	White/Orange
Tan/White	24	● --- ●	58	White/Tan
Yellow/White	25	● --- ●	59	White/Yellow
Green/White	26	● --- ●	60	White/Green
Blue/White	27	● --- ●	61	White/Blue
Violet/White	28	● --- ●	62	White/Violet
Brown/White	29	● --- ●	63	White/Brown
Pink/White	30	● --- ●	64	White/Pink
Yellow/Orange	31	● --- ●	65	Orange/Yellow
Green/Orange	32	● --- ●	66	Orange/Green
Blue/Orange	33	● --- ●	67	Orange/Blue
Violet/Orange	34	● --- ●	68	Orange/Violet

68-Pin 1.27mm Pitch Female Connector (Mating Face)

--- Denotes Twisted Pairing ie. Pins 1 and 35 use paired wires

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68-Pin VHDCI Connector Accessories

- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**



The 68-Pin VHDCI connector provides a high density 0.5A connector solution that is suitable for use to 30Vac. Pickering Interfaces has developed range of standard connection solutions to simplify the task of integrating products into a test system. The high density and skill levels involved in terminating this connector mean that we strongly recommend that users use Pickering Interfaces solutions.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors which allow users to create either their own cable based solutions. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 68-Pin VHDCI Connection Accessories



Cables: 68-Pin VHDCI Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	Rear	Male	Rear	A068VMR-068VMR-5A050	A068VMR-068VMR-5A100	A068VMR-068VMR-5A200	No	8.4




Cables: 68-Pin VHDCI Connector to Untermated								
End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Male	Rear	Boot Lace Ferrules	A068VMR-F-5A050	A068VMR-F-5A100	A068VMR-F-5A200	No	8.5	
		Tinned Ends	A068VMR-T-5A050	A068VMR-T-5A100	A068VMR-T-5A200			
		Cut End	A068VMR-C-5A050	A068VMR-C-5A100	A068VMR-C-5A200			

Cable Connectors and Connector Blocks: 68-Pin VHDCI						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Connector Block	Female	Rear	B068VFR-6F-0A	B068VFX-6F-0A	No	8.7
Cable Connector	Male	Rear	C068VMR-6SB-6A	-	No	8.8
Cable Connector	Male	Rear	C068VMR-6SB-5A	-	No	8.9

Contents

Although these items do not directly mate with current Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Standard Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 68-Pin VHDCI, 0.5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 8.4
	Cable Assy, 68-Pin VHDCI to Unterminated, 0.5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 8.5

Standard Voltage - Male Connector Blocks / Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block, 68-Pin VHDCI, 0.5A, Screw Terminal.	With or Without Backshell	Female	Page 8.7
	Cable Connector, Slimline, 68-Pin VHDCI, 2A, Soldered Connection	With Backshell	Male	Page 8.8
	Cable Connector 68-Pin VHDCI, 0.5A, Solder Bucket	With Backshell	Male	Page 8.9

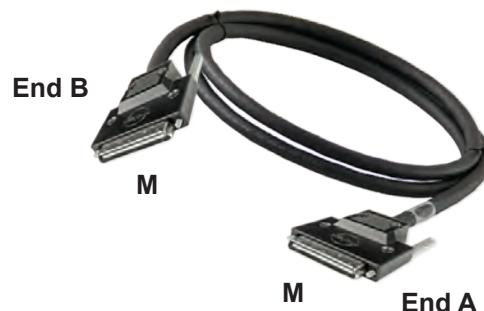
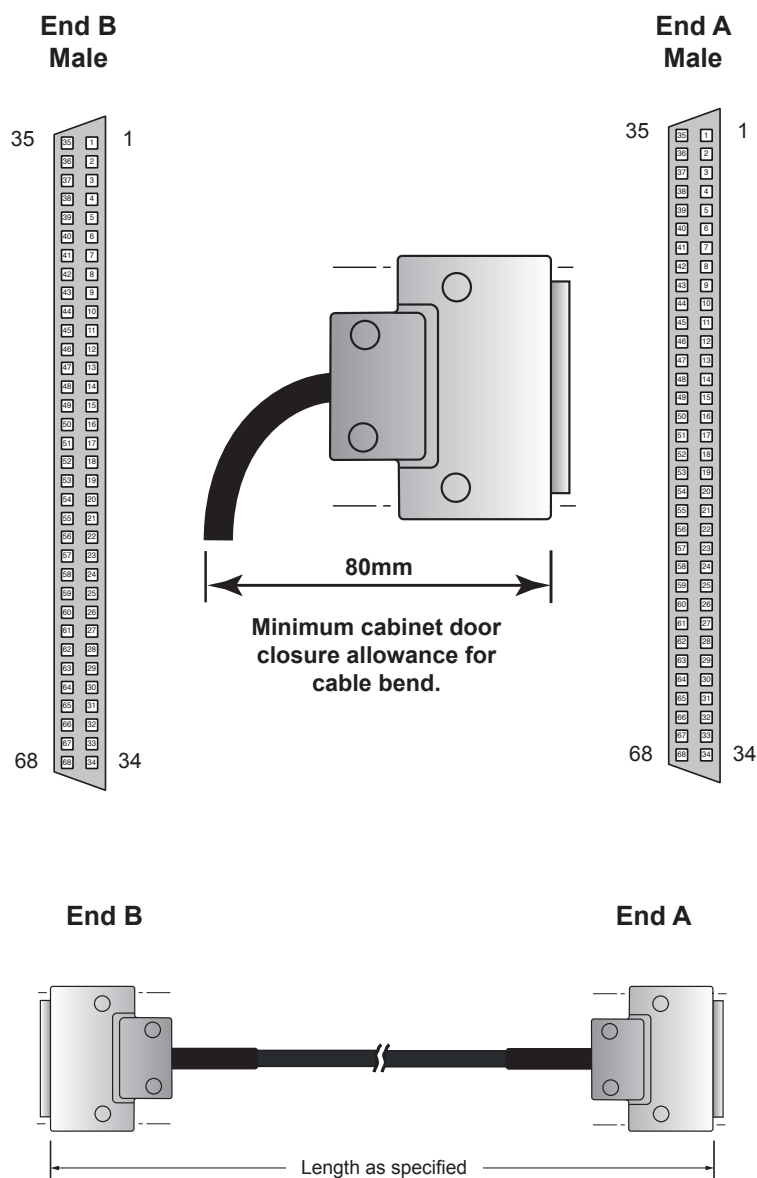
Custom Termination

Section 25

68-Pin VHDCI Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable
- Strain Relief
- Fully Screened Cable Construction

The male cable assembly is suitable for direct connection to various products using the 68-Pin VHDCI connector.



Technical Specification

Connector Type (End A):	68-Pin VHDCI
Gender	Male
Securing Method	M2 screwlocks, male
Connector Type (End B):	68-Pin VHDCI
Gender	Male
Securing Method	M2 screwlocks, male
Cable Assembly Rating:	
Maximum Current	0.5A
Maximum Voltage	30VAC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	50mOhm
Cable Exit	Rear
Overall Size (Approx)	H43.6 x W9.4 x D39.6mm
Cable Type:	
Conductor: Material	Copper
Strands	7/38(30AWG)
Resistance	0.34Ω/m
Insulation	Polyolefin
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	40mm
Door Closure Allowance	80mm (see diagram)
Notes:	
Other cable lengths can be supplied.	

Product Order Codes

68-Pin VHDCI Cable Assy, 0.5A, Male to Male

0.5m Long

A068VMR-068VMR-5A050

1.0m Long

A068VMR-068VMR-5A100

2.0m Long

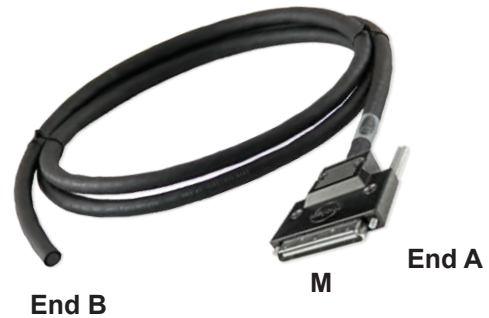
A068VMR-068VMR-5A200

68-Pin VHDCI Cable Assy - Male to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Strain Relief
- Fully Screened Cable Construction
- Wires Color Coded to Ensure Easy Connection

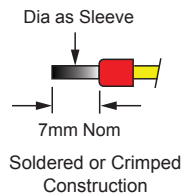
The male cable assembly is suitable for direct connection to various products using the 68-Pin VHDCI connector and is constructed from 68-Pin twisted pair ribbon cable.

When using this product please ensure appropriate electrical safety precautions are observed.

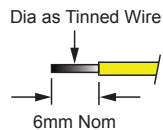


End B Options

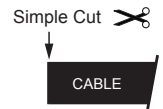
Ferrules



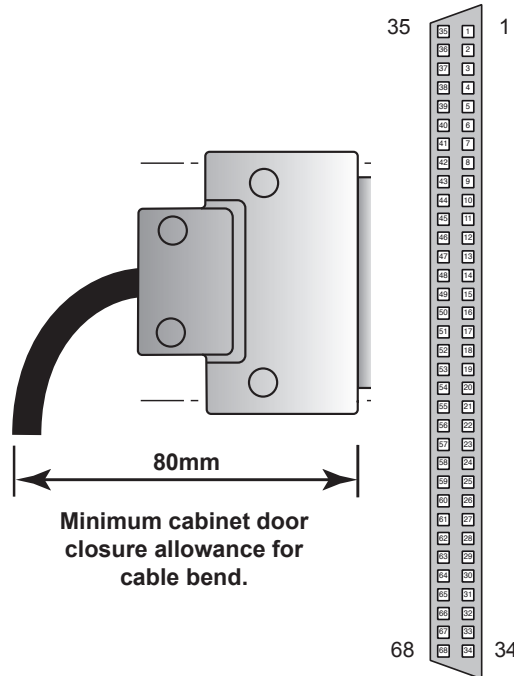
Tinned End



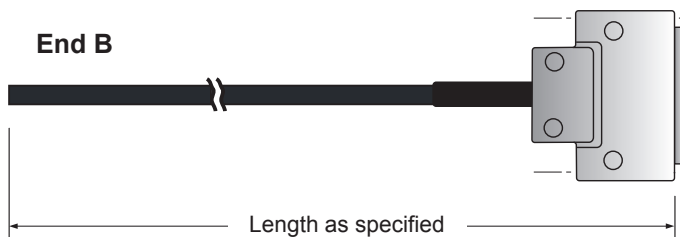
Cut End



End A Male



End A



Wiring Schedule information can be found on the next page of this document.

Technical Specification

Connector Type (End A): Gender Securing Method	68-Pin VHDCI Male M2 screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nom (Not cut end) To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	0.5A 30VAC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 50mOhm Rear H43.6 x W9.4 x D39.6mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Multipaired: 68-Pin twisted pair. Wires paired 1&2, 3&4, etc Copper 7/38(30AWG) 0.34Ω/m Polyolefin PVC Yes No 10mm 40mm 80mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

68-Pin VHDCI Cable Assy, 0.5A, Male to Unterminated

A068VMR-*-5A***

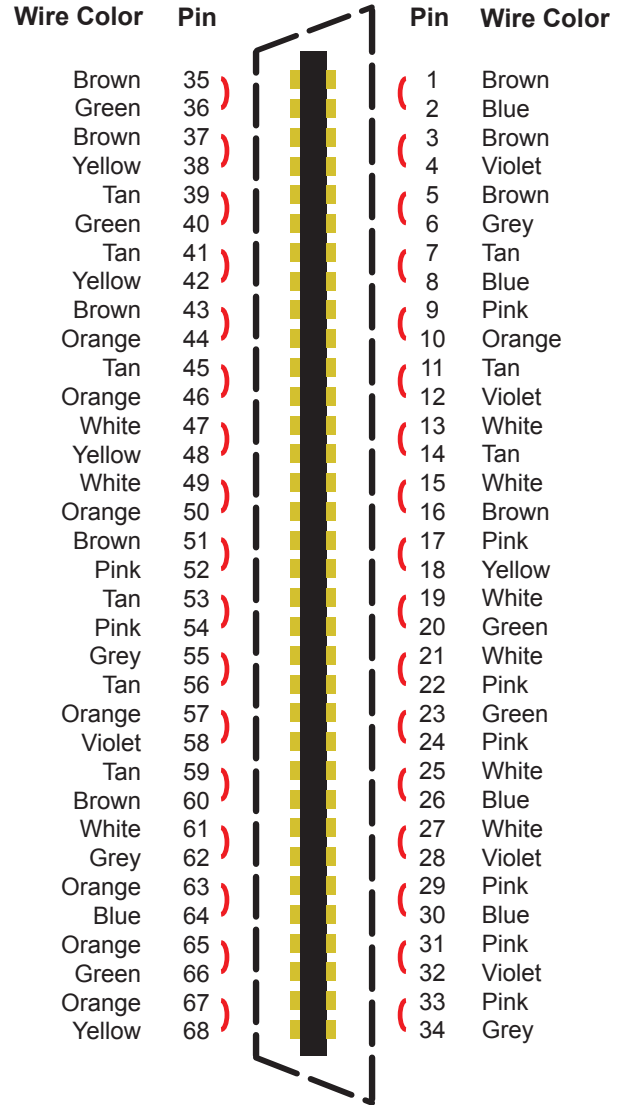
End B:
F = Ferrules
T = Tinned End
C = Cut End

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

Wiring Schedule for 68-Pin 1.27mm Pitch Micro-D Cable Assy Male to Unterminated

End A

Pin No	Wire Color	Pin No	Wire Color
35	Brown	1	Brown
36	Green	2	Blue
37	Brown	3	Brown
38	Yellow	4	Violet
39	Tan	5	Brown
40	Green	6	Grey
41	Tan	7	Tan
42	Yellow	8	Blue
43	Brown	9	Pink
44	Orange	10	Orange
45	Tan	11	Tan
46	Orange	12	Violet
47	White	13	White
48	Yellow	14	Tan
49	White	15	White
50	Orange	16	Brown
51	Brown	17	Pink
52	Pink	18	Yellow
53	Tan	19	White
54	Pink	20	Green
55	Grey	21	White
56	Tan	22	Pink
57	Orange	23	Green
58	Violet	24	Pink
59	Tan	25	White
60	Brown	26	Blue
61	White	27	White
62	Grey	28	Violet
63	Orange	29	Pink
64	Blue	30	Blue
65	Orange	31	Pink
66	Green	32	Violet
67	Orange	33	Pink
68	Yellow	34	Grey



68-Pin VHDCI Male Connector (Mating Face)

— Denotes Twisted Pairing ie. Pins 1 and 2 use paired wires

68-Pin VHDCI Connector Block - Female

- Connector, PCB and Backshell
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

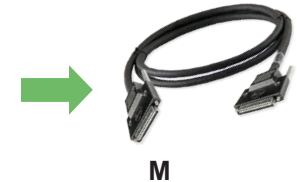
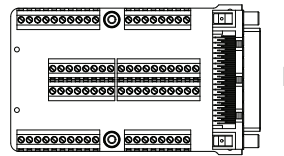
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

With Backshell

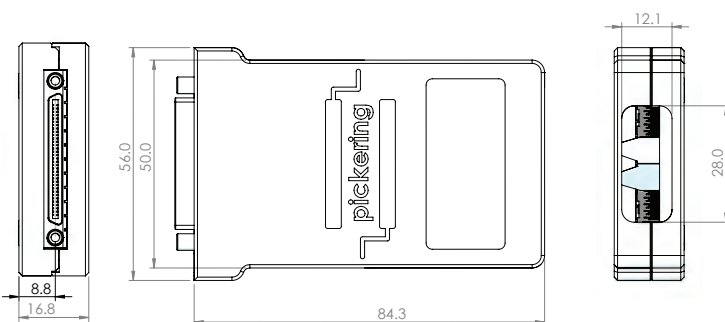
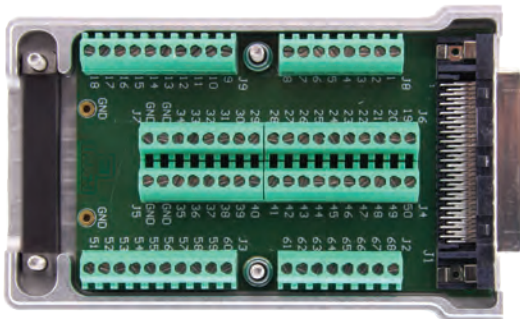
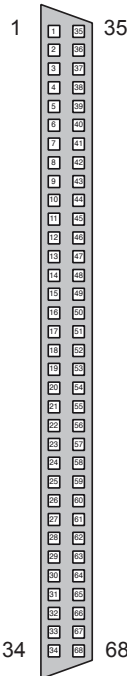


OR



Without Backshell

Female



Technical Specification

Connector Type:	68-Pin VHDCI
Gender	Female
Securing Method:	
Product with Backshell	M2 screwlocks, male
Product without Backshell	Push fit
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	0.5A
Maximum Voltage	30VAC
Cable Exit	Rear - 12.1 x 28mm
Overall Size (Approx)	H56 x W16.8 x D88.5mm
68-Pin VHDCI:	
Contact Material	Gold plated copper alloy
Contact Resistance	50mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

68-Pin VHDCI Shielded Connector Block, 0.5A, Screw Terminal,
With Backshell, Female
Without Backshell, Female

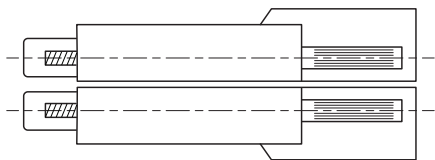
B068VFR-6F-0A
B068VFX-6F-0A

68-Pin VHDCI Connector, Slimline - Male

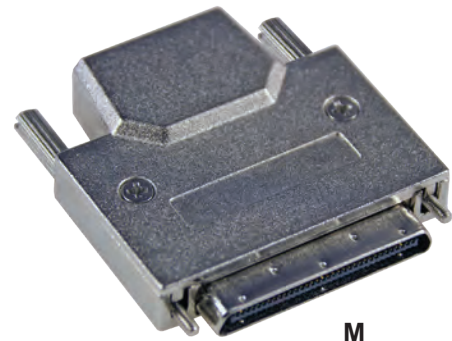
- Connector and Backshell
- Slimline for Back to Back Mounting
- Soldered Connection
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable with soldered connections to the 68-Pin VHDCI connector and to mount the connectors back to back when necessary.

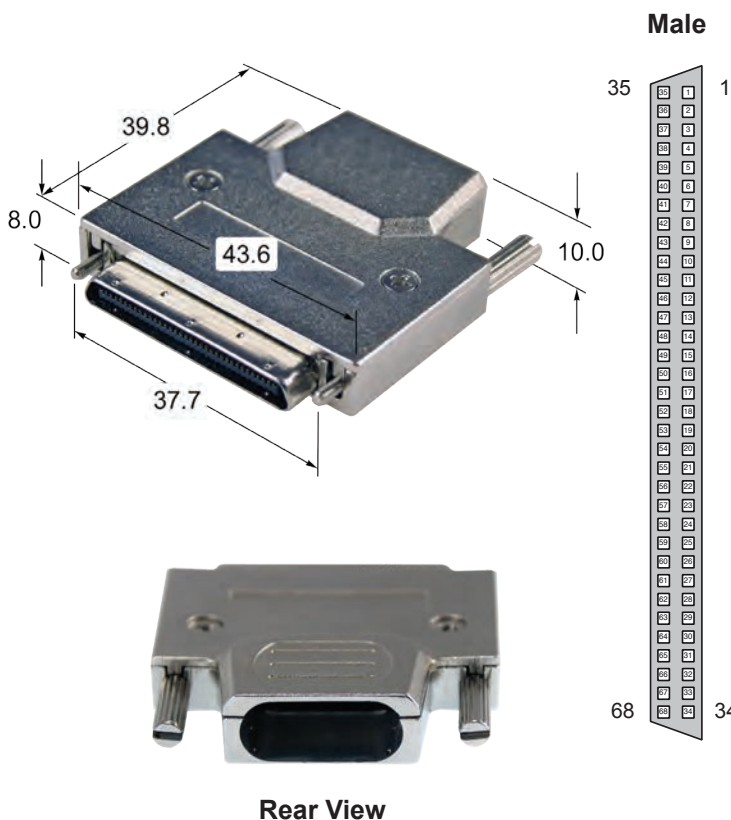
It is difficult to terminate cable to the 68-Pin VHDCI because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Detail showing Back to Back Mounting



M



Technical Specification

Connector Type:	68-Pin VHDCI, Slimline
Gender	Male
Securing Method	M2 screwlocks, male
Wire Connection	Slimline (solder)
Connector Ratings:	
Maximum Current	2A
Maximum Voltage	30VAC
Cable Exit:	Rear
Cable Exit Size	12.7 x 6.7mm (Rounded)
Overall Size (Approx)	H43.6 x W10 x D46mm
68-Pin VHDCI:	
Contact Material	Gold flash over nickel plated brass
Wire Connection:	
Maximum Wire Size	24AWG
Recommended Insulation	PVC
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

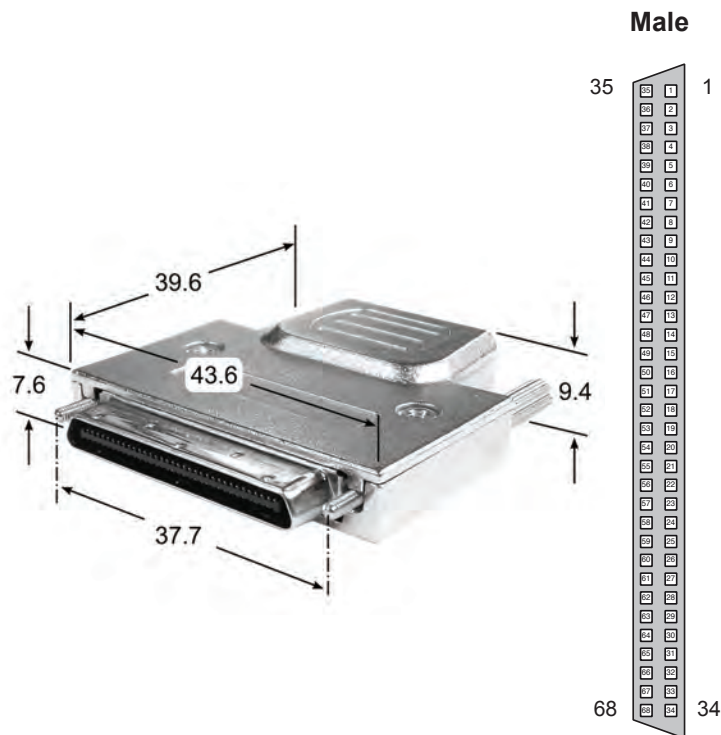
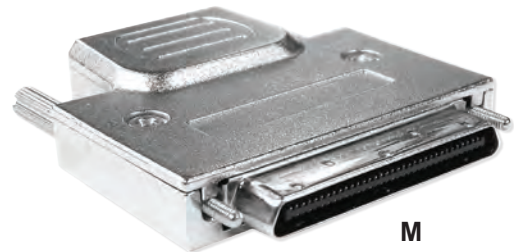
68-Pin VHDCI Connector, Slimline, 2A, Soldered Connection, With Backshell, Male **C068VMR-6SB-6A**

68-Pin VHDCI Connector - Male

- Connector and Backshell
- Soldered Connection
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate a cable with soldered connections to the 68-Pin VHDCI connector.

It is difficult to terminate cable to the 68-Pin VHDCI because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.



Technical Specification

Connector Type:	68-Pin VHDCI
Gender	Male
Securing Method	M2 screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	0.5A
Maximum Voltage	30VAC
Cable Exit:	Rear
Cable Exit Size	10 x 7.5mm
Overall Size (Approx)	H43.6 x W9.4 x D45.8mm
68-Pin VHDCI:	
Contact Material	Gold plated copper alloy
Contact Resistance	60mOhm
Wire Connection:	
Maximum Wire Size	28-30AWG
Recommended Insulation	PVC
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

68-Pin VHDCI Connector, 0.5A, Soldered Connection, With Backshell, Male

C068VMR-6SB-5A

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50-Pin IDC Connector Accessories

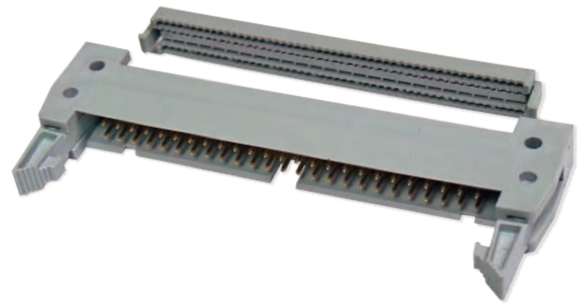
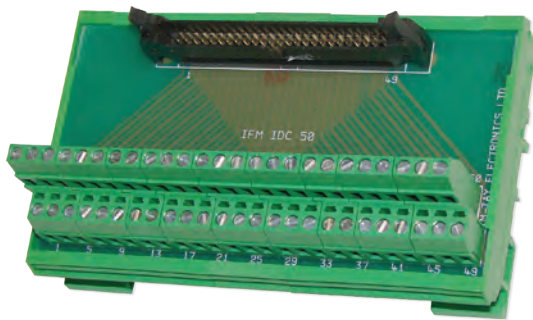
- Voltage to 200V, 1A
- Mating Connectors
- Breakouts
- 0.100 (2.54mm) Pitch
- Guaranteed Compatibility



The 50-Pin IDC connector is used to provide a 1 Amp medium density connector solution.

We offer a PCB header and mating connectors allowing the user to create their own cable based solutions. A remote breakout is also available. The breakout allows the user to terminate a cable assembly by converting the connections to arrays of screw terminal blocks.





Pickering Interfaces can manufacture custom connector accessories to suit any application. If you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 50-Pin IDC Connection Accessories

Breakouts and Cable Connectors: 50-Pin IDC						
Type	Mount	Gender	Cable Exit	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
Breakout	DIN Rail Mount	Male	N/A	40-967-550-M	Yes (via Cable)	9.3
Cable Connector	Mating Product	Female	Side	40-961-550-F	Yes (via Cable)	9.4
		Male		40-961-550-M	Yes (via Cable)	9.5
PCB Connector	Straight PCB Mount	Male	N/A	40-963-550-SM	Yes (via Cable)	9.6

Contents - Mating Accessories for Pickering Products

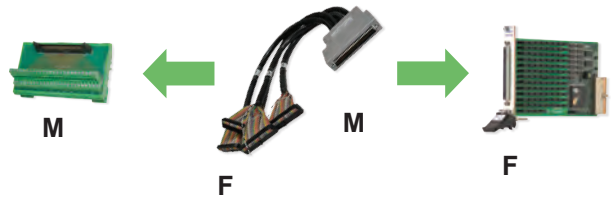
Breakouts/Connectors				
View	Description	Type	Gender	Page
	Breakout with DIN Rail Mount, 50-Pin IDC, 1A, Screw Terminal		Male	Page 9.3
	Cable Connector 50-Pin IDC for Ribbon Cable, 1A,	With Strain Relief Bar	Female	Page 9.4
	Cable Connector 50-Pin IDC for Ribbon Cable, 1A,	Without Strain Relief Bar	Male	Page 9.5
	PCB Connector 50-Pin IDC, 1A,	Without Strain Relief Bar	Male	Page 9.6

Custom Termination

Section 25

50-Pin IDC Breakout - Male

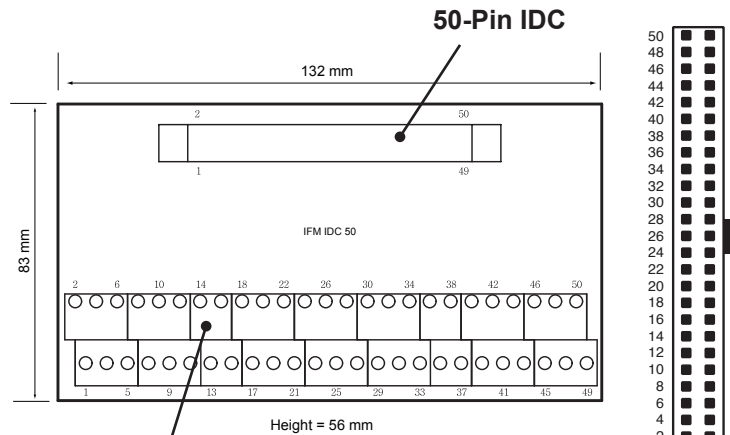
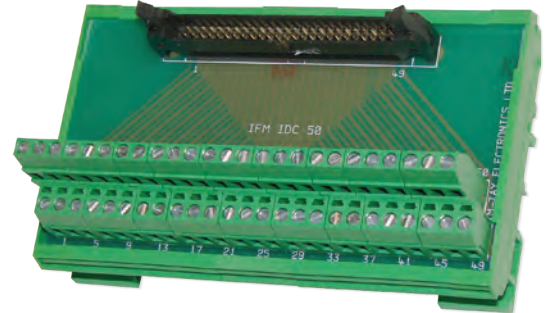
- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted



Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This accessory is designed to be used for terminating a 50-Pin ribbon cable connector. A 200-Pin to quad 50-Pin ribbon header cable accessory is available that allows it to be used to terminate a 200-Pin connector. The accessory is suitable for mounting on DIN rails. The ribbon cable termination includes a strain relief

When using this product please ensure appropriate electrical safety precautions are observed.



Screw Terminals

50-Pin IDC Breakout 40-967-550-M

Technical Specification

Connector Type: Gender Securing Method Wire Connection	50-Pin IDC Male Latch clips Rising cage screw terminals
Breakout Ratings: Maximum Current Maximum Voltage Securing Method	1A 200VDC Suitable for securing to DIN rails.
Overall Size (Approx)	H56 x W101 x D83mm
50-Pin IDC: Contact Material Contact Resistance	- <20mOhm
Screw Terminals: Maximum Wire Size Additional Cable Clamp	12AWG No

Product Order Codes

50-Pin IDC Breakout with DIN Rail Mount, 1A, Screw Terminal, Male

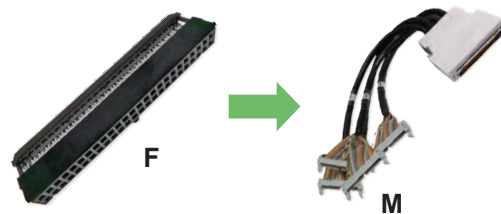
40-967-550-M

50-Pin IDC Connector for Ribbon Cable - Female

- For Ribbon Cable Connection
- Centre and Military Polarized
- 0.100 (2.54mm) Pitch
- Mates with 0.025 Inch Square or Round-Pins
- Accepts 28 AWG Ribbon Wires
- Snap-on Strain Relief

Ideal for user created termination schemes where the termination is to be remotely connected by a ribbon cable.

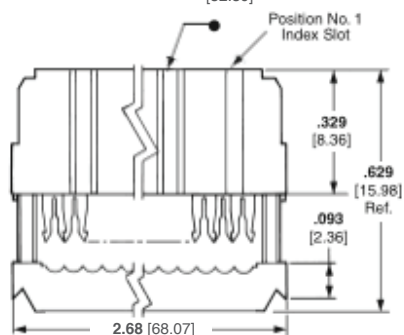
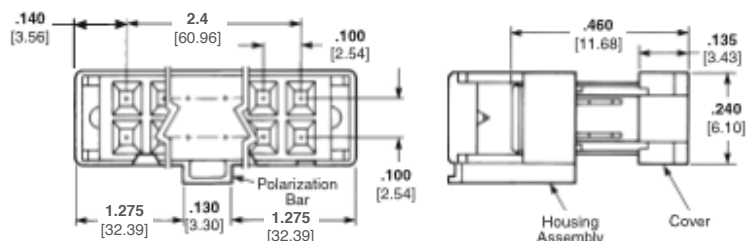
Mating 50-Pin connectors are also detailed in this section.



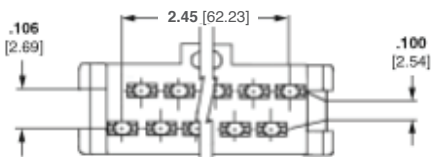
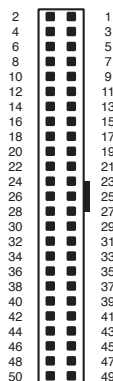
Connector and Strain Relief bar



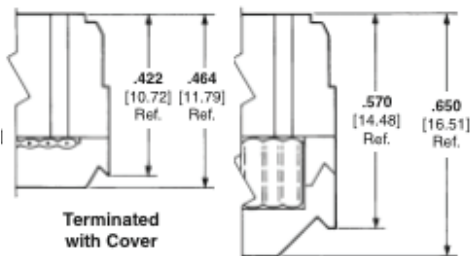
Rear View without Strain Relief bar



Female



Housing Assembly and Cover



Terminated with Cover

Terminated with Cover and Strain Relief

Technical Specification

Connector Type:	50-Pin IDC 0.1" (2.54mm) pitch Female
Gender	Female
Securing Method	As mating connector
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit:	Side
Cable Exit Size	-
Overall Size (Approx)	See drawing
Contact Material	Phosphor bronze with gold flash
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	0.05" (1.27mm) pitch ribbon cable
Additional Cable Clamp	Yes - Strain relief bar

Product Order Codes

50-Pin IDC Connector for Ribbon Cable, 1A, Female

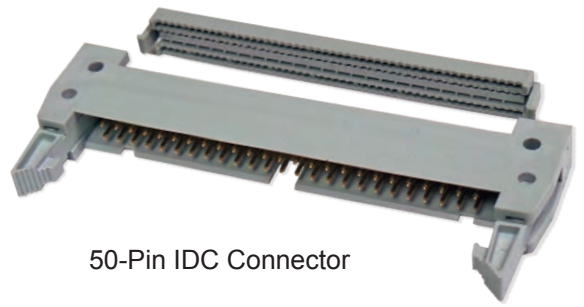
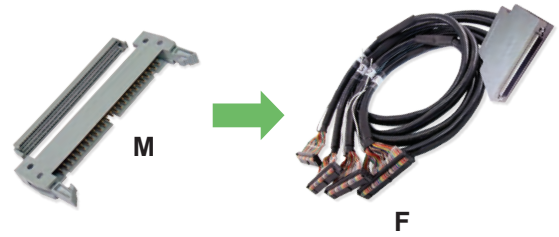
40-961-550-F

50-Pin IDC Connector for Ribbon Cable - Male

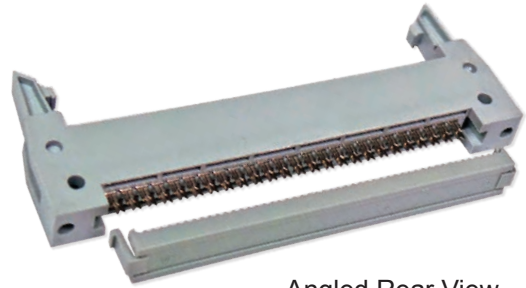
- For Ribbon Cable Connection
- Centre and Military Polarized
- 0.100 (2.54mm) Pitch
- Mates with 1.27mm Pitch Ribbon Cable
- Accepts 28 AWG Ribbon Wires

Ideal for user created termination schemes where the termination is to be remotely connected by a ribbon cable.

Mating 50-Pin connectors are also detailed in this section.

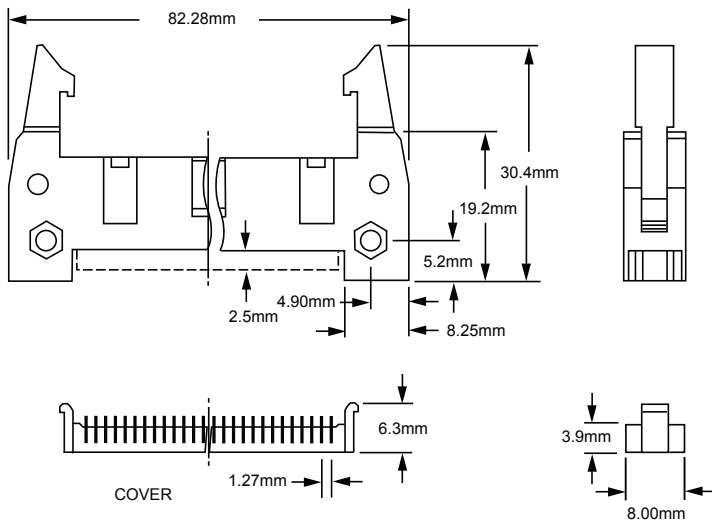
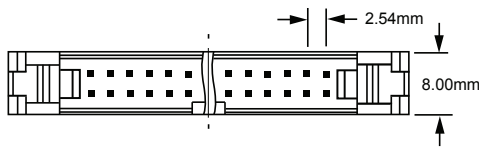
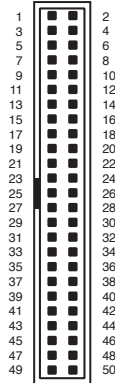


50-Pin IDC Connector



Angled Rear View

Male



Technical Specification

Connector Type:	50-Pin IDC 0.1" (2.54mm) pitch
Gender	Male
Securing Method	Latch clips
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit:	Side
Cable Exit Size	-
Overall Size (Approx)	See drawing
Contact Material	Copper alloy with selective gold flash
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	0.05" (1.27mm) pitch ribbon cable
Additional Cable Clamp	No

Product Order Codes

50-Pin IDC Connector for Ribbon Cable, 1A, Male

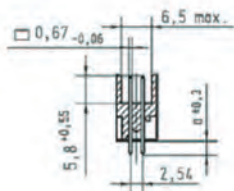
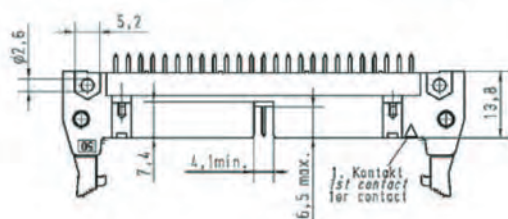
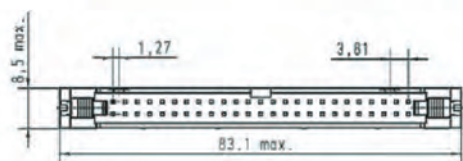
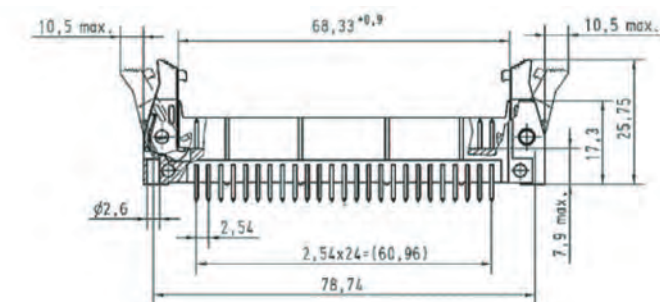
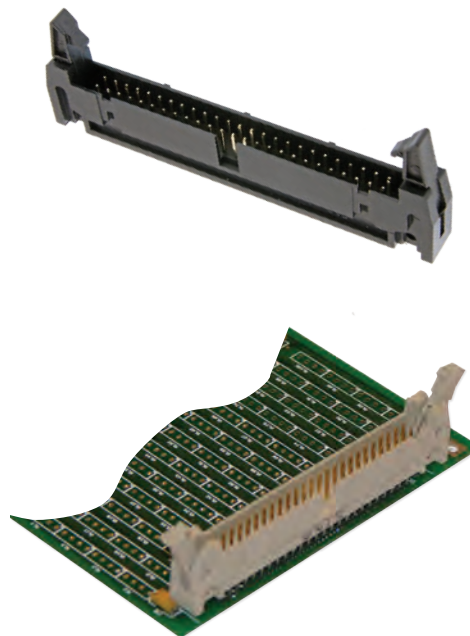
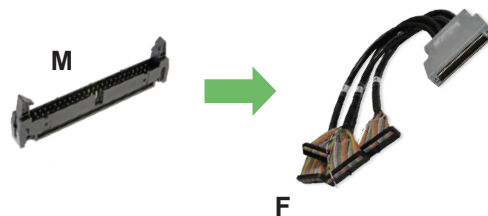
40-961-550-M

50-Pin IDC Connector, Straight PCB Mount - Male

- Straight Interface to PCB
- Strain Relief and Latch Clips
- Ideal for User Created Termination Solutions

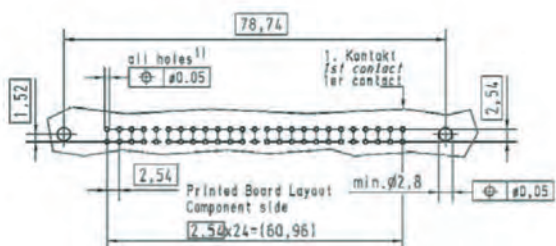
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

50	■	49
48	■	47
46	■	45
44	■	43
42	■	41
40	■	39
38	■	37
36	■	35
34	■	33
32	■	31
30	■	29
28	■	27
26	■	25
24	■	23
22	■	21
20	■	19
18	■	17
16	■	15
14	■	13
12	■	11
10	■	9
8	■	7
6	■	5
4	■	3
2	■	1



Technical Specification

Connector Type:	50-Pin IDC
Gender	0.1" (2.54mm) pitch
Securing Method	Male
PCB Mounting	Latch clip
	Straight PCB mount, solder

Connector Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
50-Pin IDC:	
Contact Material	-
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	See drawing

Product Order Codes

50-Pin IDC Connector, 1A, Straight PCB Mount,
Male

40-963-550-SM

Standard Voltage 50-Pin D-type Connector Accessories

- **Standard Voltage to 250V AC/400V DC, 5A**
- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**
- **50-Pin High Voltage Solutions are also Available**
See Section 11



The Standard Voltage 50-Pin D-Type connector is used on switching products to provide a medium density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to meet most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application. If you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 50-Pin D-Type Connection Accessories



Cables: Standard Voltage 50-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-050-0.5m-MF	40-970-050-1m-MF	40-970-050-2m-MF	Yes (Female end)	10.5
	45° Towards Pin 1		45° Towards Pin 1	A050DM5-050DF5-0A050	A050DM5-050DF5-0A100	A050DM5-050DF5-0A200		
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-050-0.5m-FF	40-970-050-1m-FF	40-970-050-2m-FF	Yes	10.6
	45° Towards Pin 1		45° Towards Pin 1	A050DF5-050DF5-0A050	A050DF5-050DF5-0A100	A050DF5-050DF5-0A200		
Male	45° Away from Pin 1	Male	45° Away from Pin 1	40-970-050-0.5m-MM	40-970-050-1m-MM	40-970-050-2m-MM	No	10.17
	45° Towards Pin 1		45° Towards Pin 1	A050DM5-050DM5-0A050	A050DM5-050DM5-0A100	A050DM5-050DM5-0A200		





Cables: Standard Voltage 50-Pin D-Type Connector to Untermated								
End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-050-0.5m-FU	40-972-050-1m-FU	40-972-050-2m-FU	Yes	10.7	
		Tinned Ends	A050DF4-T-0A050	A050DF4-T-0A100	A050DF4-T-0A200			
		Cut End	A050DF4-C-0A050	A050DF4-C-0A100	A050DF4-C-0A200			
	45° Towards Pin 1	Boot Lace Ferrules	A050DF5-F-0A050	A050DF5-F-0A100	A050DF5-F-0A200			
		Tinned Ends	A050DF5-T-0A050	A050DF5-T-0A100	A050DF5-T-0A200			
		Cut End	A050DF5-C-0A050	A050DF5-C-0A100	A050DF5-C-0A200			
Male	45° Away from Pin 1	Boot Lace Ferrules	40-972-050-0.5m-MU	40-972-050-1m-MU	40-972-050-2m-MU	No	10.18	
		Tinned Ends	A050DM4-T-0A050	A050DM4-T-0A100	A050DM4-T-0A200			
		Cut End	A050DM4-C-0A050	A050DM4-C-0A100	A050DM4-C-0A200			
	45° Towards Pin 1	Boot Lace Ferrules	A050DM5-F-0A050	A050DM5-F-0A100	A050DM5-F-0A200			
		Tinned Ends	A050DM5-T-0A050	A050DM5-T-0A100	A050DM5-T-0A200			
		Cut End	A050DM5-C-0A050	A050DM5-C-0A100	A050DM5-C-0A200			



Cable Connectors and Connector Blocks: Standard Voltage 50-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Connector Block	Female	Rear	40-965-050-F	92-965-050-F	Yes	10.8
	Male		40-965-050-M	92-965-050-M	No	10.19
Cable Connector	Female	45° Options	40-960-050-F	92-960-050-F	Yes	10.10
	Male		40-960-050-M	92-960-050-M	No	10.20

Breakouts and PCB Connectors: Standard Voltage 50-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
Breakout	DIN Rail Mount	Female	N/A	40-967-050-F	No	10.9
		Male	N/A	40-967-050-M		10.13
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-050-RF		10.11
		Male	N/A	40-963-050-RM		10.14
	Straight PCB Mount	Female	N/A	40-963-050-SF		10.12
		Male	N/A	40-963-050-SM		10.15

Contents - Mating Accessories for Pickering Products



Standard Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 50-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 10.5
		Female	Female	Page 10.6
	Cable Assy, 50-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 10.7



Standard Voltage - Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block, 50-Pin D-Type, 5A, Screw Terminal.	With or Without Backshell	Female	Page 10.8
	Breakout with DIN Rail Mount, 50-Pin D-Type, 5A, Screw Terminal			Page 10.9
	Cable Connector 50-Pin D-Type, 5A, Solder Bucket	With or Without Backshell		Page 10.10
	PCB Connector 50-Pin D-Type, 5A	Right Angle PCB Mount		Page 10.11
		Straight PCB Mount		Page 10.12

Standard Voltage - Male Breakouts/PCB Connectors				
View	Description	Type	Gender	Page
	Breakout with DIN Rail Mount, 50-Pin D-Type, 5A, Screw Terminal		Male	Page 10.13
	PCB Connector 50-Pin D-Type, 5A	Right Angle PCB Mount		Page 10.14
		Straight PCB Mount		Page 10.15

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Standard Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 50-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 10.17
	Cable Assy, 50-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 10.18

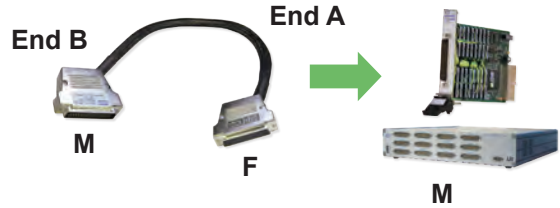
Standard Voltage - Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block, 50-Pin D-Type, 5A, Screw Terminal.	With or Without Backshell	Male	Page 10.19
	Cable Connector 50-Pin D-Type, 5A, Solder Bucket	With or Without Backshell		Page 10.20

Custom Termination

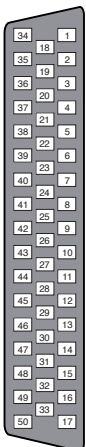
Section 25

Standard Voltage 50-Pin D-Type Cable Assy - Male to Female

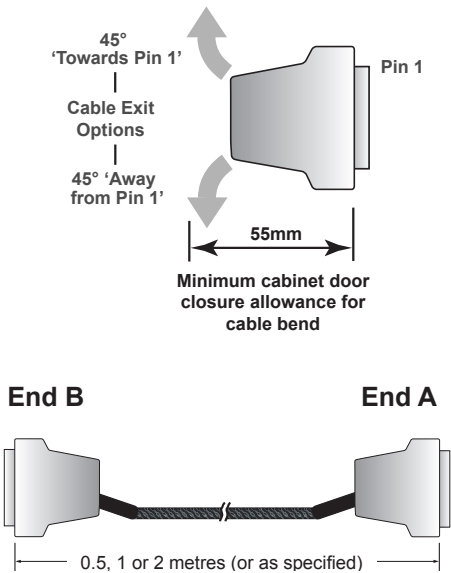
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



End B Male



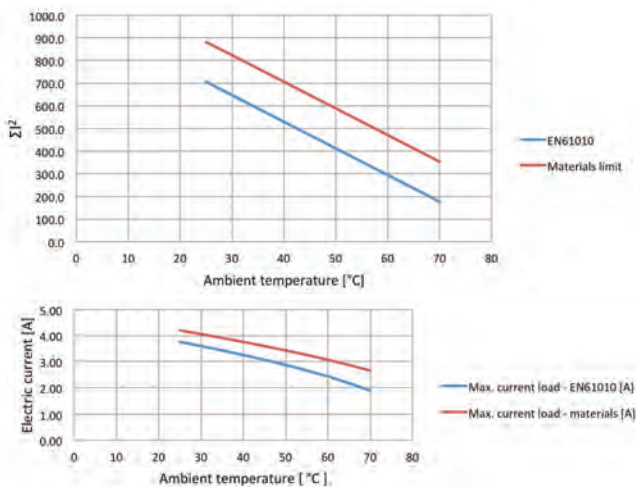
End A Female



Technical Specification

Connector Type (End A):	50-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	50-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (See Order Codes)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Copper
Strands	19/0.18 (0.41mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-050-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

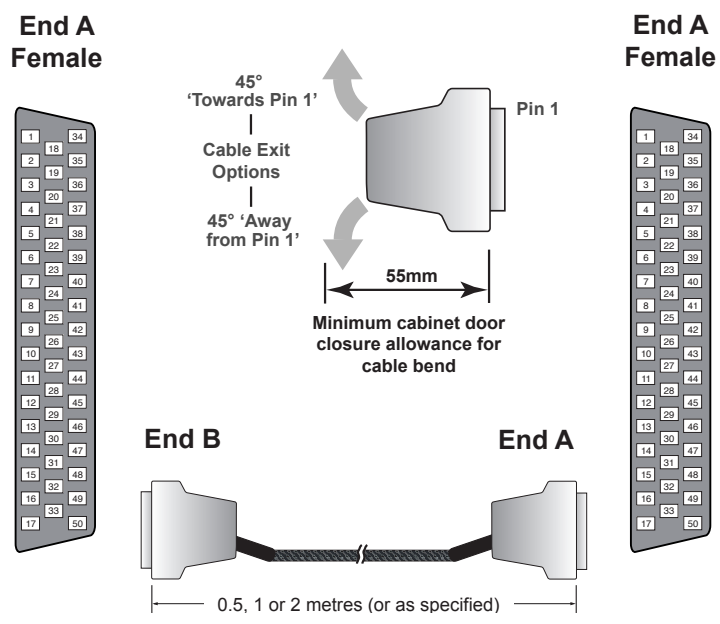
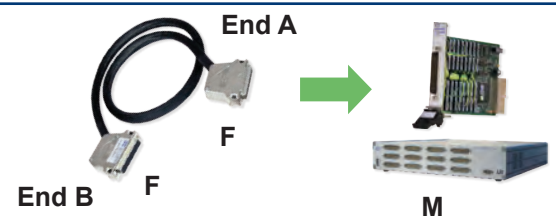
50-Pin D-Type Cable Assy, 5A, Male to Female,

- Cable Exit 45° (Away from Pin 1),
- 0.5m Long [40-970-050-0.5m-MF](#)
 - 1.0m Long [40-970-050-1m-MF](#)
 - 2.0m Long [40-970-050-2m-MF](#)

- Cable Exit 45° (Towards Pin 1),
- 0.5m Long [A050DM5-050DF5-0A050](#)
 - 1.0m Long [A050DM5-050DF5-0A100](#)
 - 2.0m Long [A050DM5-050DF5-0A200](#)

Standard Voltage 50-Pin D-Type Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

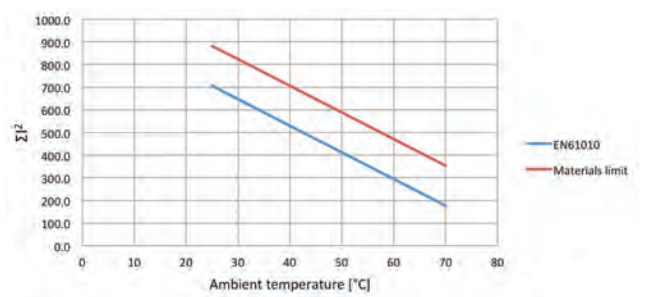


Technical Specification

Connector Type (End A):	50-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	50-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (See Order Codes)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	
Conductor: Material	Copper
Strands	19/0.18 (0.41mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:
Other cable lengths can be supplied.

Characteristic Plots for 40-970-050-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

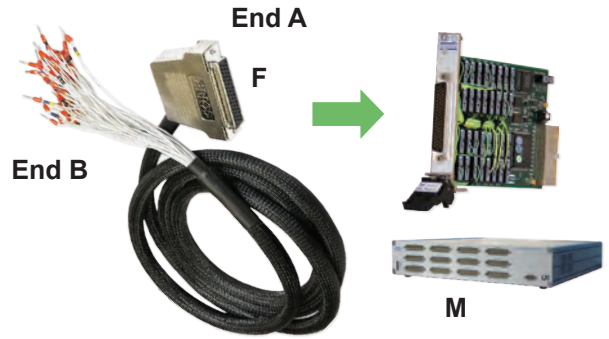
The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 50-Pin D-Type Cable Assy, 5A, Female to Female,**
- Cable Exit 45° (Away from Pin 1),**
- 0.5m Long [40-970-050-0.5m-FF](#)
 - 1.0m Long [40-970-050-1m-FF](#)
 - 2.0m Long [40-970-050-2m-FF](#)
- Cable Exit 45° (Towards Pin 1),**
- 0.5m Long [A050DF5-050DF5-0A050](#)
 - 1.0m Long [A050DF5-050DF5-0A100](#)
 - 2.0m Long [A050DF5-050DF5-0A200](#)

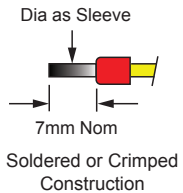
Standard Voltage 50-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

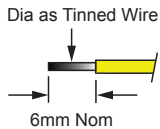


End B Options

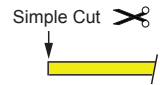
Ferrules



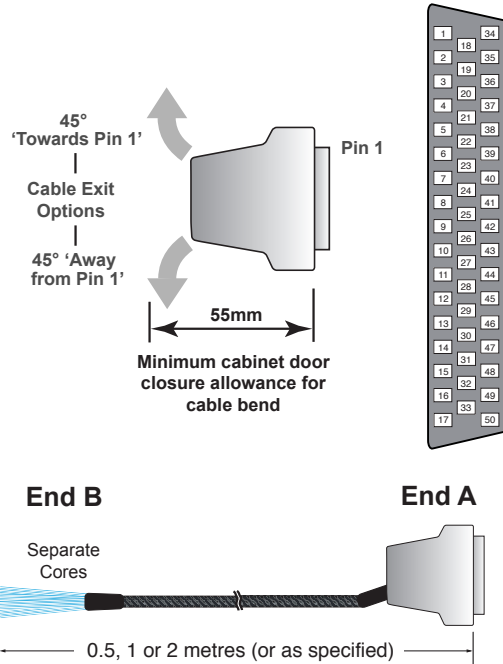
Tinned End



Cut End



End A - Female



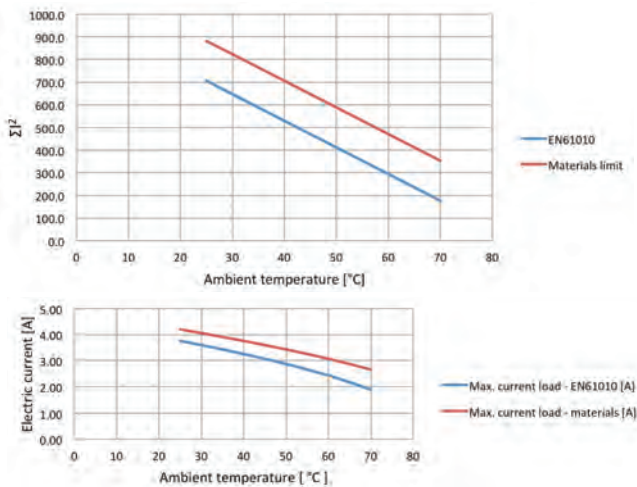
Technical Specification

Connector Type (End A): Gender Securing Method	50-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (See Order Codes) H68 x W18.5 x D55mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Copper 19/0.18 (0.41mm ² , 21AWG) 0.041Ω/m (max) PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 12mm 25mm 55mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for 40-972-050-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 50-Pin D-Type Cable Assy, 5A, Cable Exit Away from Pin 1, Boot Lace Ferrules,
Female to Unterminated, 0.5m Long [40-972-050-0.5m-FU](#)
Female to Unterminated, 1.0m Long [40-972-050-1m-FU](#)
Female to Unterminated, 2.0m Long [40-972-050-2m-FU](#)

Part numbers for other versions:

A050DF*-0A***

End A: 45° Cable Exit 4 = (Away from Pin 1) 5 = (Towards Pin 1)	End B: F = Ferrules T = Tinned End C = Cut End	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
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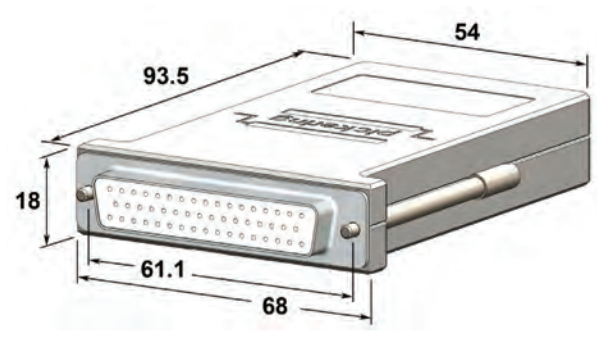
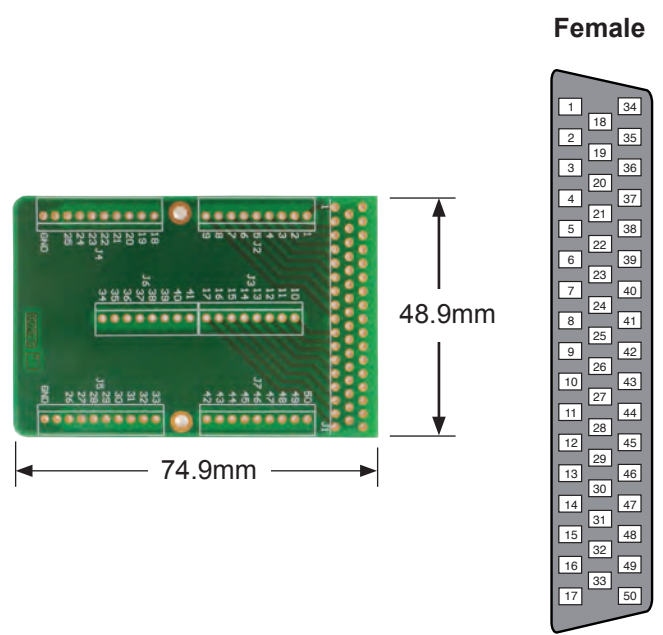
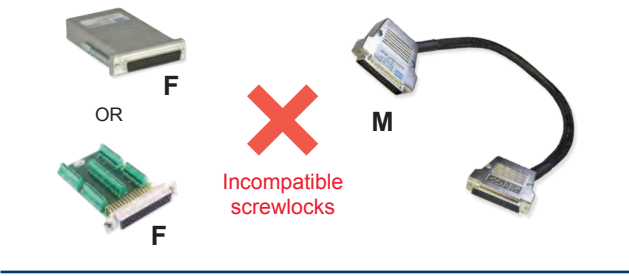
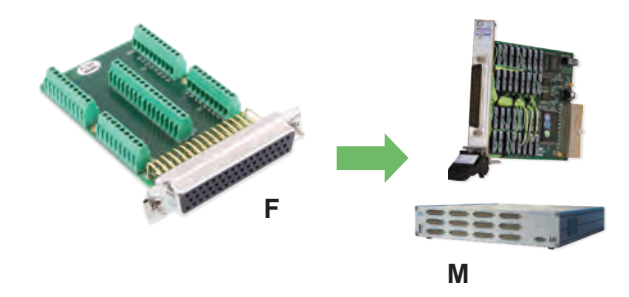
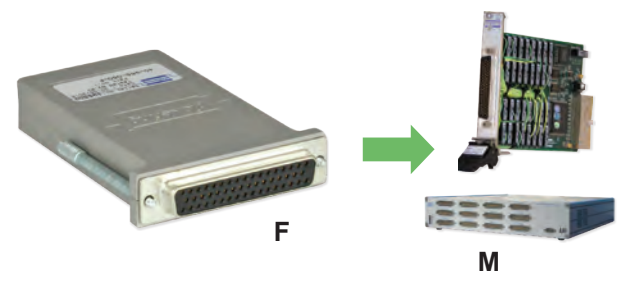
Standard Voltage 50-Pin D-Type Connector Block - Female

- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.



Technical Specification

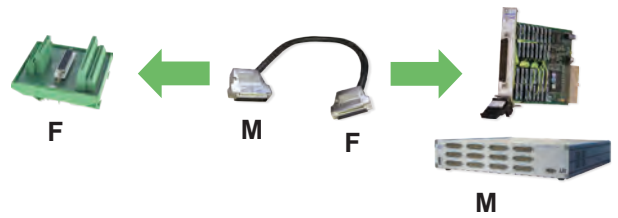
Connector Type:	50-Pin D-Subminiature Female
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	5A
Maximum Voltage	200VDC
Cable Exit	Rear - 10.3 x 20mm
Overall Size (Approx)	H68 x W18 x D100mm
50-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

- 50-Pin D-Type Shielded Connector Block, 5A, Screw Terminal, With Backshell, Female **40-965-050-F**
- Screw Terminal, Without Backshell, Female **92-965-050-F**

Standard Voltage 50-Pin D-Type Breakout - Female

- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted



Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This termination option is capable of accepting heavy duty connection wires and uses rising clamp screw terminals to minimize the danger of copper strand damage. Users should care take to protect the termination and provide a suitable method of restraining the cables.

When using this product please ensure appropriate electrical safety precautions are observed.

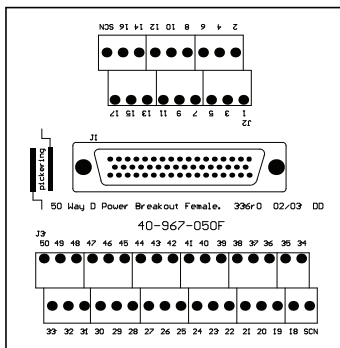


Technical Specification

Connector Type: Gender Securing Method Wire Connection	50-Pin D-Subminiature Female 4-40 UNC screwlocks, female Rising cage screw terminals
Breakout Ratings: Maximum Current Maximum Voltage Securing Method	5A 200VDC Suitable for securing to DIN rails.
Overall Size (Approx) 50-Pin D-Sub: Contact Material Contact Resistance	H110 x W110 x D56mm Gold plated copper alloy <20mOhm
Screw Terminals: Maximum Wire Size Additional Cable Clamp	12AWG No

Female

40-967-050-F



Product Order Codes

50-Pin D-Type Breakout with DIN Rail Mount, 5A,
Screw Terminal, Female

40-967-050-F

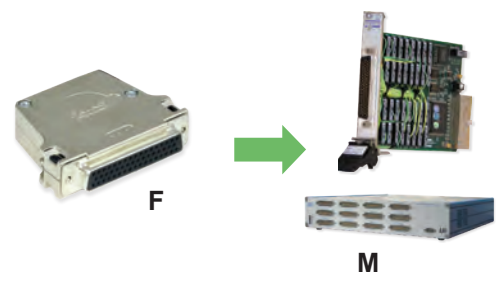
Standard Voltage 50-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

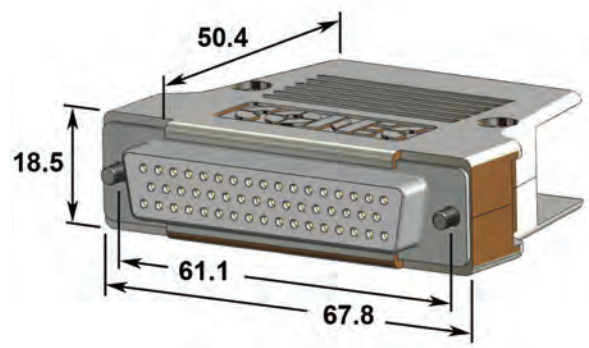
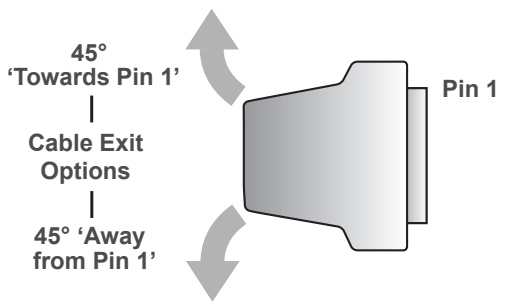
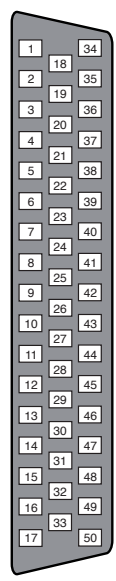
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



Internal Solder Connection

Female



Technical Specification

Connector Type:	50-Pin D-Subminiature Female
Gender	Female
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	250VAC
Cable Exit:	45°
Cable Exit Size	15mm dia
Overall Size (Approx)	H68 x W18.5 x D55mm
50-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

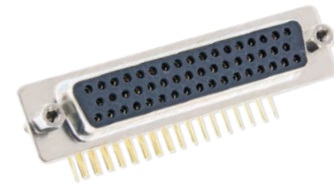
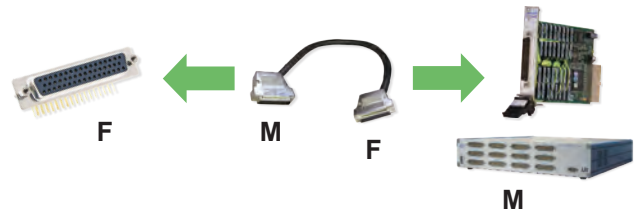
- 50-Pin D-Type Connector, 5A, Solder Bucket, With Backshell, Female 40-960-050-F
- Without Backshell, Female 92-960-050-F

Standard Voltage 50-Pin D-Type Connector, Right Angle PCB Mount - Female

- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

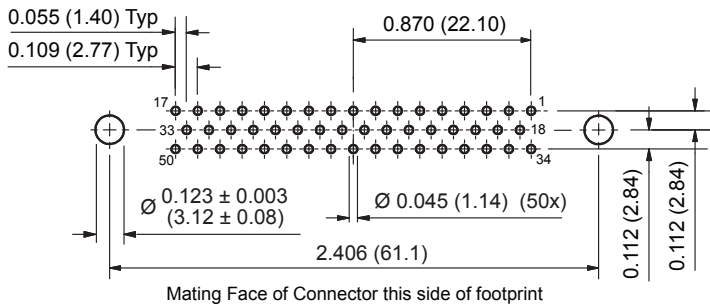


Female



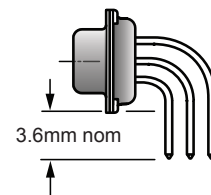
Technical Specification

Connector Type: Gender Securing Method PCB Mounting	50-Pin D-Subminiature Female 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 50-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Effective Leg Length	5A each pin 250VAC Gold plated copper alloy <20mOhm 3.6mm nom (See diagram)



PCB Footprint of 50-Pin Right Angle Female Connector
(Connector Side - Not to Scale)

Effective Leg Length



Product Order Codes

50-Pin D-Type Connector, 5A, Right Angle PCB Mount,
Female

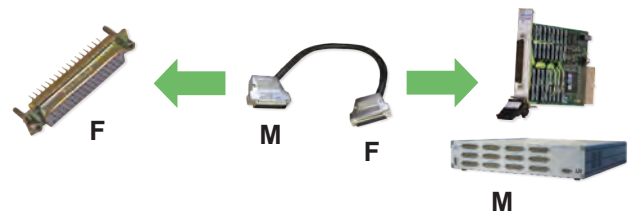
40-963-050-RF

Standard Voltage 50-Pin D-Type Connector, Straight PCB Mount - Female

- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

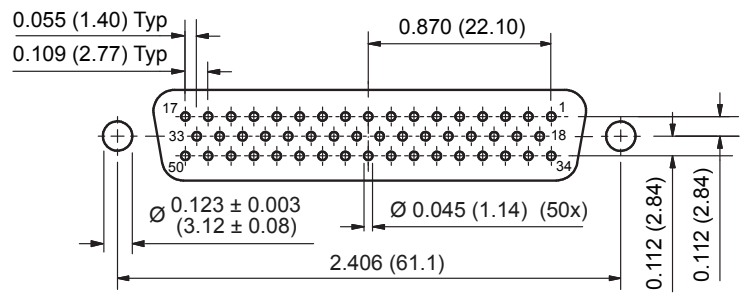


Female

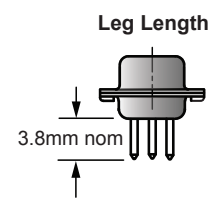


Technical Specification

Connector Type: Gender Securing Method PCB Mounting	50-Pin D-Subminiature Female 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 50-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250VAC Gold plated copper alloy <20mOhm 3.8mm nom (See diagram)



PCB Footprint of 50-Pin Straight Female Connector (Connector Side - Not to Scale)

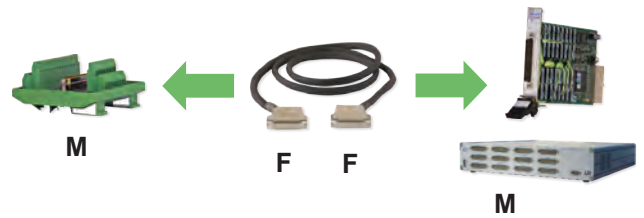


Product Order Codes

50-Pin D-Type Connector, 5A, Straight PCB Mount, Female **40-963-050-SF**

Standard Voltage 50-Pin D-Type Breakout - Male

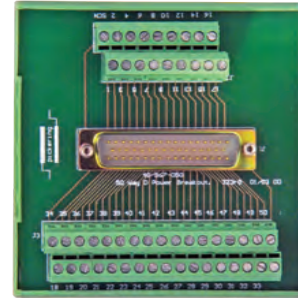
- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted



Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This termination option is capable of accepting heavy duty connection wires and uses rising clamp screw terminals to minimize the danger of copper strand damage. Users should care take to protect the termination and provide a suitable method of restraining the cables.

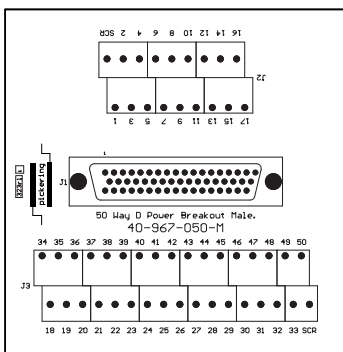
When using this product please ensure appropriate electrical safety precautions are observed.



Technical Specification

Connector Type: Gender Securing Method Wire Connection	50-Pin D-Subminiature Male 4-40 UNC screwlocks, female Rising cage screw terminals
Breakout Ratings: Maximum Current Maximum Voltage Securing Method	5A 200VDC Suitable for securing to DIN rails.
Overall Size (Approx)	H110 x W110 x D56mm
50-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
Screw Terminals: Maximum Wire Size Additional Cable Clamp	12AWG No

40-967-050-M



Male



Product Order Codes

50-Pin D-Type Breakout with DIN Rail Mount, 5A, Screw Terminal, Male

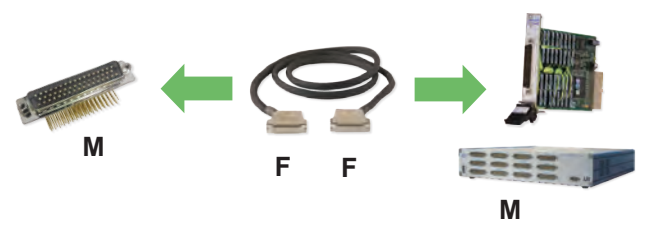
40-967-050-M

Standard Voltage 50-Pin D-Type Connector, Right Angle PCB Mount - Male

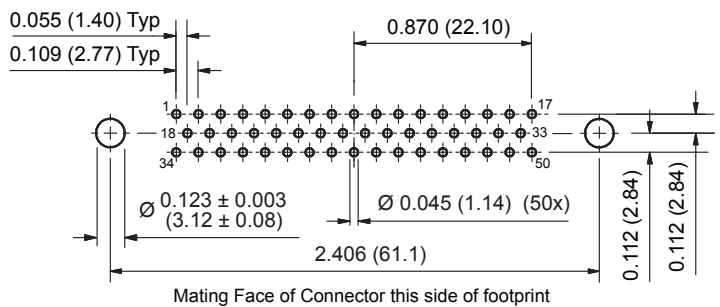
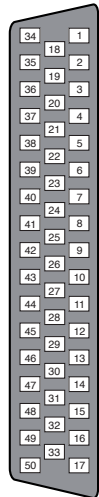
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male

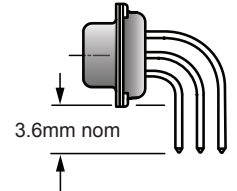


PCB Footprint of 50-Pin Right Angle Male Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	50-Pin D-Subminiature Male 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 250VAC
50-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	3.6mm nom (See diagram)

Effective Leg Length



Product Order Codes

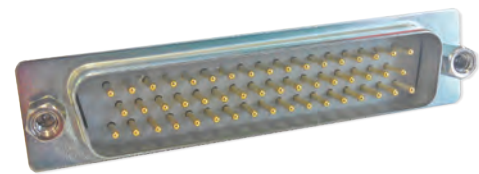
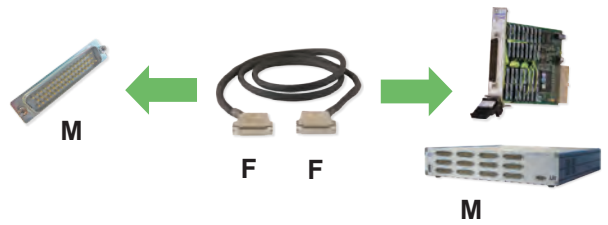
50-Pin D-Type Connector, 5A, Right Angle PCB Mount, Male **40-963-050-RM**

Standard Voltage 50-Pin D-Type Connector, Straight PCB Mount - Male

- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

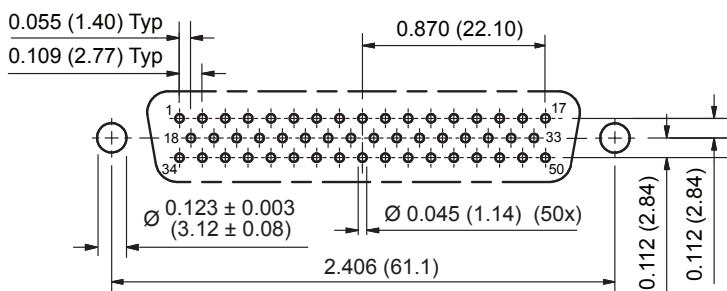


Male

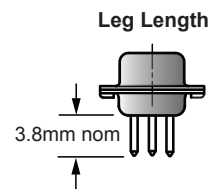


Technical Specification

Connector Type: Gender Securing Method PCB Mounting	50-Pin D-Subminiature Male 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 50-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250VAC Gold plated copper alloy <20mOhm 3.8mm nom (See diagram)



**PCB Footprint of 50-Pin Straight Male Connector
(Connector Side - Not to Scale)**



Product Order Codes

50-Pin D-Type Connector, 5A, Straight PCB Mount,
Male

40-963-050-SM

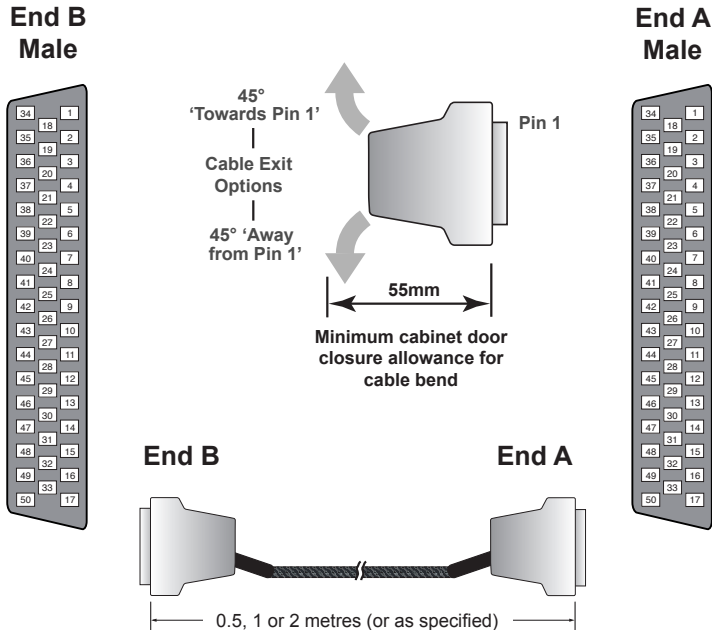
Standard Voltage 50-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Standard Voltage 50-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

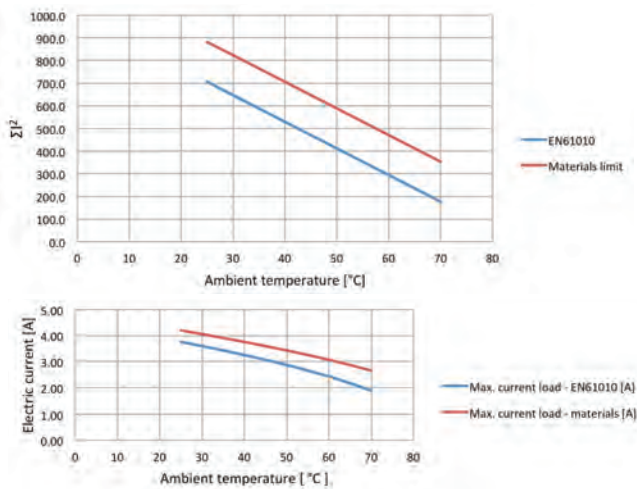
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	50-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	50-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (See Order Codes)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	
Conductor: Material	Copper
Strands	19/0.18 (0.41mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-050-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

50-Pin D-Type Cable Assy, 5A, Male to Male,

Cable Exit 45° (Away from Pin 1),

0.5m Long

40-970-050-0.5m-MM

1.0m Long

40-970-050-1m-MM

2.0m Long

40-970-050-2m-MM

Cable Exit 45° (Towards Pin 1),

0.5m Long

A050DM5-050DM5-0A050

1.0m Long

A050DM5-050DM5-0A100

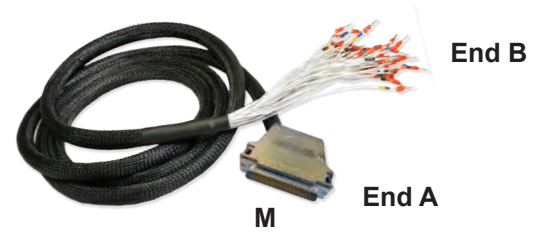
2.0m Long

A050DM5-050DM5-0A200

Standard Voltage 50-Pin D-Type Cable Assy - Male to Unterminated

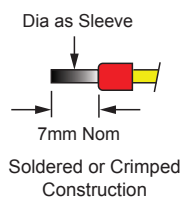
- High Specification and Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

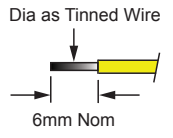


End B Options

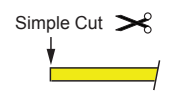
Ferrules



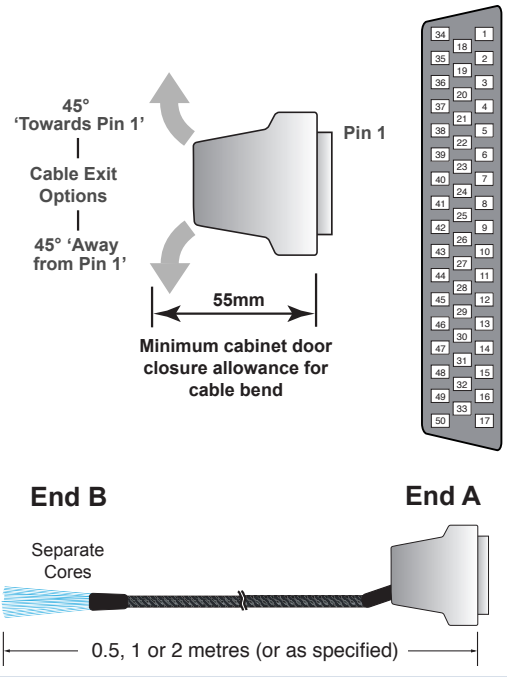
Tinned End



Cut End



End A - Male



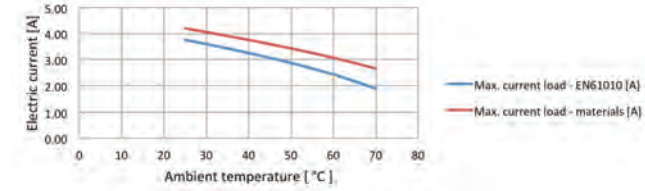
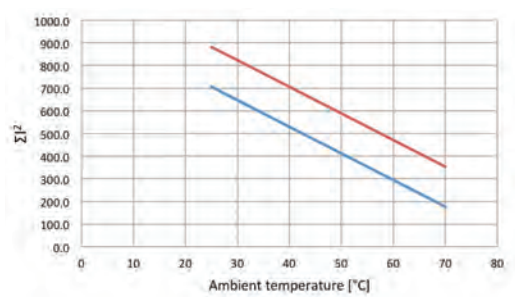
Technical Specification

Connector Type (End A): Gender Securing Method	50-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MΩm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩm 45° (See Order Codes) H68 x W18.5 x D55mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Copper 19/0.18 (0.41mm ² , 21AWG) 0.041Ω/m PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 12mm 25mm 55mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for 40-972-050-1m



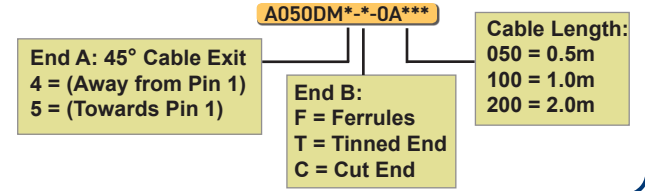
The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 50-Pin D-Type Cable Assy, 5A, Cable Exit Away from Pin 1, Boot Lace Ferrules, Male to Unterminated, 0.5m Long** 40-972-050-0.5m-MU
Male to Unterminated, 1.0m Long 40-972-050-1m-MU
Male to Unterminated, 2.0m Long 40-972-050-2m-MU

Part numbers for other versions:



Standard Voltage 50-Pin D-Type Connector Block - Male

- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.

This Connector Block is Not Suitable for Connection to a Pickering Switching Product

With Backshell



Without Backshell



OR

M

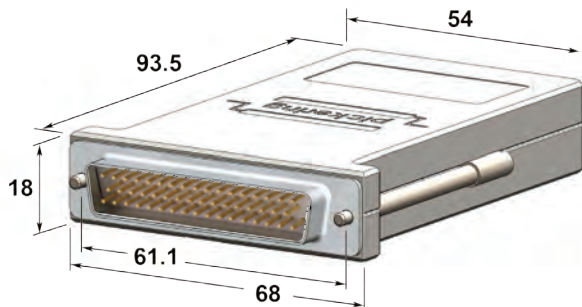
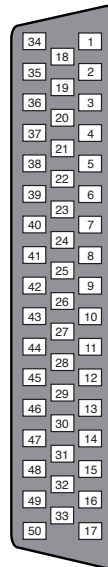
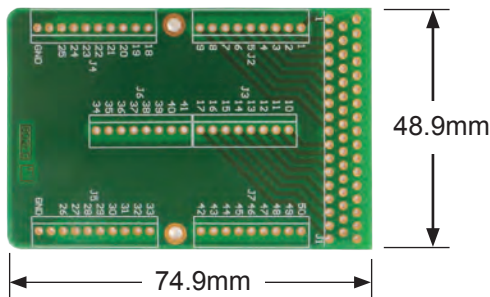


Incompatible screwlocks



F

Male



Technical Specification

Connector Type:	50-Pin D-Subminiature Male
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	5A
Maximum Voltage	200VDC
Cable Exit	Rear - 10.3 x 20mm
Overall Size (Approx)	H68 x W18 x D100mm
50-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

50-Pin D-Type Shielded Connector Block, 5A, Screw Terminal, With Backshell, Male
Screw Terminal, Without Backshell, Male

40-965-050-M

92-965-050-M

Standard Voltage 50-Pin D-Type Connector - Male

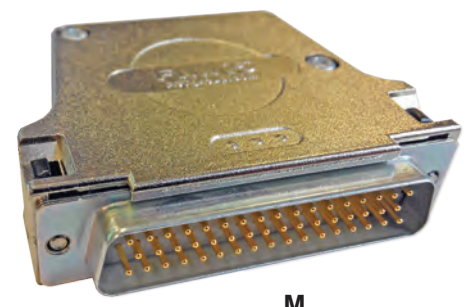
- Connector only or Connector and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



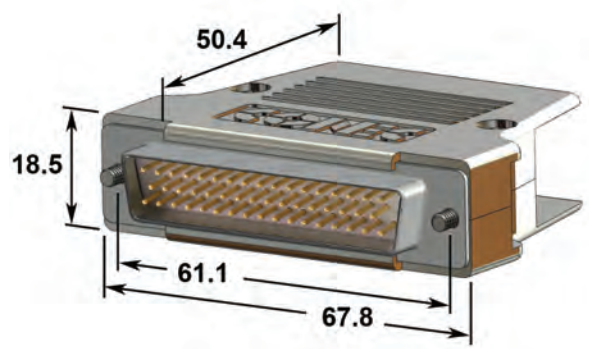
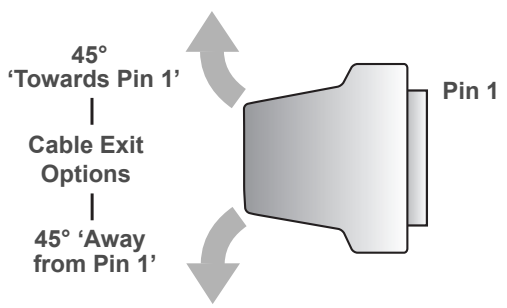
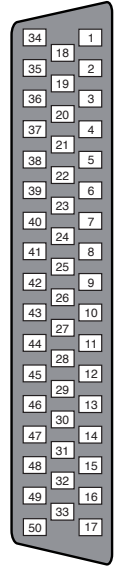
With Backshell

M



Internal Solder Connection

Male



Technical Specification

Connector Type:	50-Pin D-Subminiature Male
Gender	Male
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	Maximum Current: 5A Maximum Voltage: 250VAC Cable Exit: 45° Cable Exit Size: 15mm dia Overall Size (Approx): H68 x W18.5 x D55mm
50-Pin D-Sub:	Contact Material: Gold plated copper alloy Contact Resistance: 20mOhm
Wire Connection:	Maximum Wire Size: 20AWG Recommended Insulation: PTFE Additional Cable Clamp: Yes (in backshell)

Product Order Codes

50-Pin D-Type Connector, 5A, Solder Bucket,
 With Backshell, Male 40-960-050-M
 Without Backshell, Male 92-960-050-M

High Voltage 50-Pin D-type Connector Accessories

- **750V Continuous Working Voltage, 5A 1000V Maximum**
- **Mating Connectors**
- **Connector Hoods**
- **Cable Assemblies**
- **Guaranteed Compatibility**
- **50-Pin Standard Voltage Solutions are also Available**
See Section 10



The High Voltage 50-Pin D-Type connector is used on high voltage LXI switching products to provide a high voltage connector solution. Pickering Interfaces has developed a range of standard connection solutions to simplify the task of integrating products into a test system.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to meet most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution.

Pickering Interfaces can manufacture custom connector accessories to suit any application. If you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all High Voltage 50-Pin D-Type Connection Accessories



Cables: High Voltage 50-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-050-0.5m-MF-HV	40-970-050-1m-MF-HV	40-970-050-2m-MF-HV	Yes (Female end)	11.5
	45° Towards Pin 1		45° Towards Pin 1	A050DM5-050DF5-HA050	A050DM5-050DF5-HA100	A050DM5-050DF5-HA200	Yes (Female end)	
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-050-0.5m-FF-HV	40-970-050-1m-FF-HV	40-970-050-2m-FF-HV	Yes	11.6
	45° Towards Pin 1		45° Towards Pin 1	A050DF5-050DF5-HA050	A050DF5-050DF5-HA100	A050DF5-050DF5-HA200	Yes	
Male	45° Away from Pin 1	Male	45° Away from Pin 1	40-970-050-0.5m-MM-HV	40-970-050-1m-MM-HV	40-970-050-2m-MM-HV	No	11.14
	45° Towards Pin 1		45° Towards Pin 1	A050DM5-050DM5-HA050	A050DM5-050DM5-HA100	A050DM5-050DM5-HA200	No	



Cables: High Voltage 50-Pin D-Type Connector to Untermated								
End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-050-0.5m-FU-HV	40-972-050-1m-FU-HV	40-972-050-2m-FU-HV	Yes	11.7	
		Tinned Ends	A050DF4-T-HA050	A050DF4-T-HA100	A050DF4-T-HA200	Yes		
		Cut End	A050DF4-C-HA050	A050DF4-C-HA100	A050DF4-C-HA200	Yes		
	45° Towards Pin 1	Boot Lace Ferrules	A050DF5-F-HA050	A050DF5-F-HA100	A050DF5-F-HA200	Yes		
		Tinned Ends	A050DF5-T-HA050	A050DF5-T-HA100	A050DF5-T-HA200	Yes		
		Cut End	A050DF5-C-HA050	A050DF5-C-HA100	A050DF5-C-HA200	Yes		
Male	45° Away from Pin 1	Boot Lace Ferrules	40-972-050-0.5m-MU-HV	40-972-050-1m-MU-HV	40-972-050-2m-MU-HV	No	11.15	
		Tinned Ends	A050DM4-T-HA050	A050DM4-T-HA100	A050DM4-T-HA200	No		
		Cut End	A050DM4-C-HA050	A050DM4-C-HA100	A050DM4-C-HA200	No		
	45° Towards Pin 1	Boot Lace Ferrules	A050DM5-F-HA050	A050DM5-F-HA100	A050DM5-F-HA200	No		
		Tinned Ends	A050DM5-T-HA050	A050DM5-T-HA100	A050DM5-T-HA200	No		
		Cut End	A050DM5-C-HA050	A050DM5-C-HA100	A050DM5-C-HA200	No		


Cable Connectors: High Voltage 50-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Female	45° Options	40-960-050-F-HV	92-960-050-F-HV	Yes	11.8
	Male	45° Options	40-960-050-M-HV	92-960-050-M-HV	No	11.16

PCB Connectors: High Voltage 50-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-050-RF-HV	No	11.9
		Male	N/A	40-963-050-RM-HV	No	11.11
	Straight PCB Mount	Female	N/A	40-963-050-SF-HV	No	11.10
		Male	N/A	40-963-050-SM-HV	No	11.12

Contents - Mating Accessories for Pickering Switches



High Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 50-Pin D-Type, 5A, HV, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 11.5
		Female	Female	Page 11.6
	Cable Assy, 50-Pin D-Type to Unterminated, 5A, HV, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 11.7


High Voltage - Female Connectors				
View	Description	Type	Gender	Page
	Cable Connector 50-Pin D-Type, 5A, HV, Solder Bucket	With or Without Backshell	Female	Page 11.8
	PCB Connector 50-Pin D-Type, 5A, HV	Right Angle PCB Mount	Female	Page 11.9
		Straight PCB Mount		Page 11.10

High Voltage - Male PCB Connectors				
View	Description	Type	Gender	Page
	PCB Connector 50-Pin D-Type, 5A, HV	Right Angle PCB Mount	Male	Page 11.11
		Straight PCB Mount		Page 11.12

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

High Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 50-Pin D-Type, 5A, HV, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 11.14
	Cable Assy, 50-Pin D-Type to Unterminated, 5A, HV, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 11.15

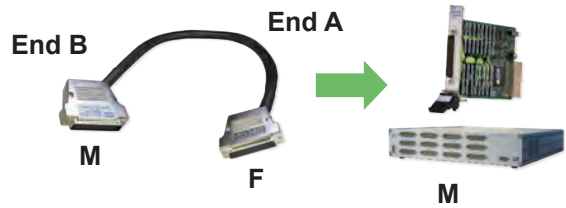
High Voltage - Male Connectors				
View	Description	Type	Gender	Page
	Cable Connector 50-Pin D-Type, 5A, HV, Solder Bucket	With or Without Backshell	Male	Page 11.16

Custom Termination

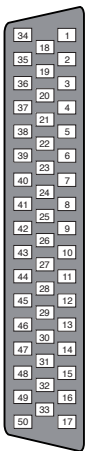
Section 25

High Voltage 50-Pin D-Type Cable Assy - Male to Female

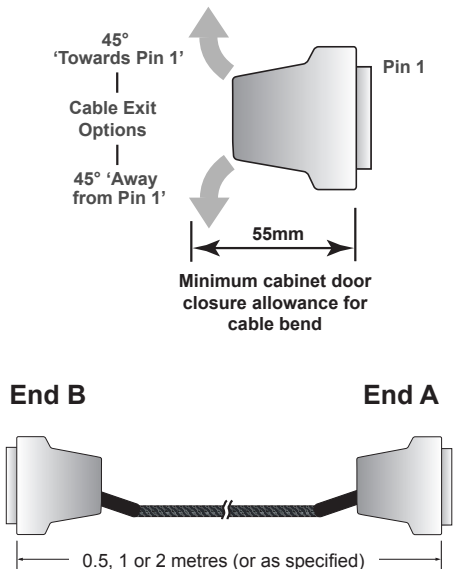
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



End B Male



End A Female



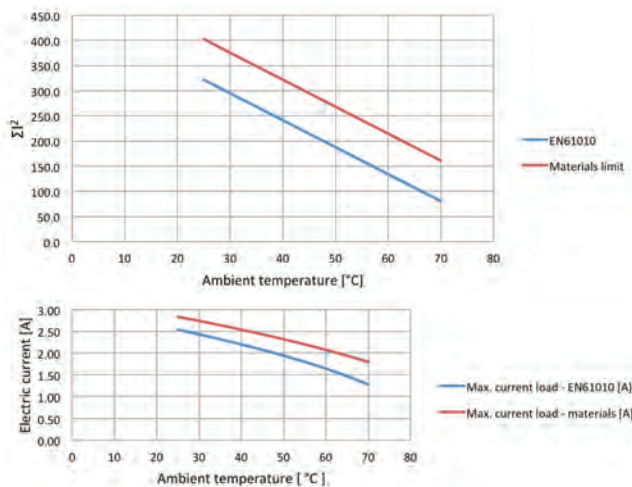
Technical Specification

Connector Type (End A):	50-Pin D-Subminiature, HV
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	50-Pin D-Subminiature HV
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	750V working/1000VDC AC peak typical
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (See Order Codes)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	7/0.2 (0.2 mm ² , 24AWG)
Resistance	0.089Ω/m (max) at 20°C
Insulation	PTFE Type C (BS3G210)
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:

Other cable lengths can be supplied.

Characteristic Plots for 40-970-050-1m (HV)



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

50-Pin D-Type Cable Assy, 5A, Male to Female, HV,

Cable Exit 45° (Away from Pin 1),

0.5m Long

40-970-050-0.5m-MF-HV

1.0m Long

40-970-050-1m-MF-HV

2.0m Long

40-970-050-2m-MF-HV

Cable Exit 45° (Towards Pin 1),

0.5m Long

A050DM5-050DF5-HA050

1.0m Long

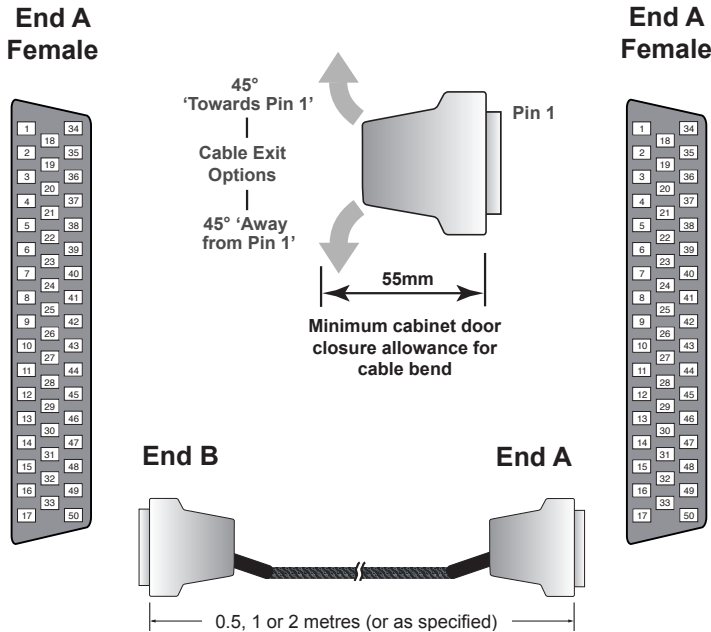
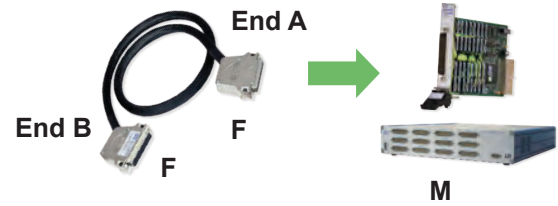
A050DM5-050DF5-HA100

2.0m Long

A050DM5-050DF5-HA200

High Voltage 50-Pin D-Type Cable Assy - Female to Female

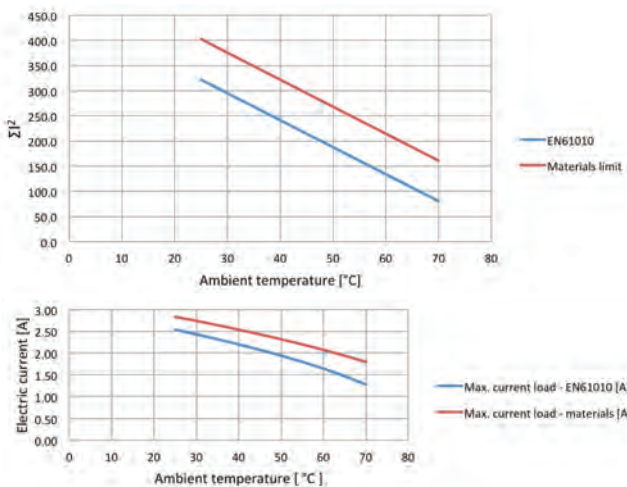
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A): Gender Securing Method	50-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	50-Pin D-Subminiature HV Female 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000VDC AC peak typical
Insulation Resistance	1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (See Order Codes) H68 x W18.5 x D55mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.2 mm ² , 24AWG) 1.62mm O/D 0.089Ω/m (max) at 20°C PTFE Type C (BS3G210) Polyester Yes Yes 12mm 25mm 55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-050-1m (HV)



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

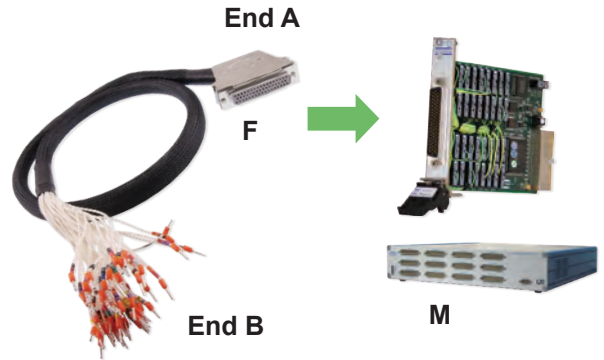
50-Pin D-Type Cable Assy, 5A, Female to Female, HV,

- Cable Exit 45° (Away from Pin 1),**
- 0.5m Long [40-970-050-0.5m-FF-HV](#)
 - 1.0m Long [40-970-050-1m-FF-HV](#)
 - 2.0m Long [40-970-050-2m-FF-HV](#)

- Cable Exit 45° (Towards Pin 1),**
- 0.5m Long [A050DF5-050DF5-HA050](#)
 - 1.0m Long [A050DF5-050DF5-HA100](#)
 - 2.0m Long [A050DF5-050DF5-HA200](#)

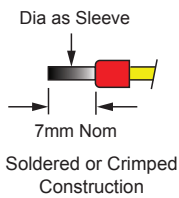
High Voltage 50-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

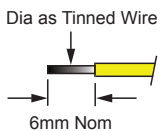


End B Options

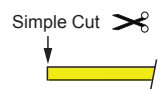
Ferrules



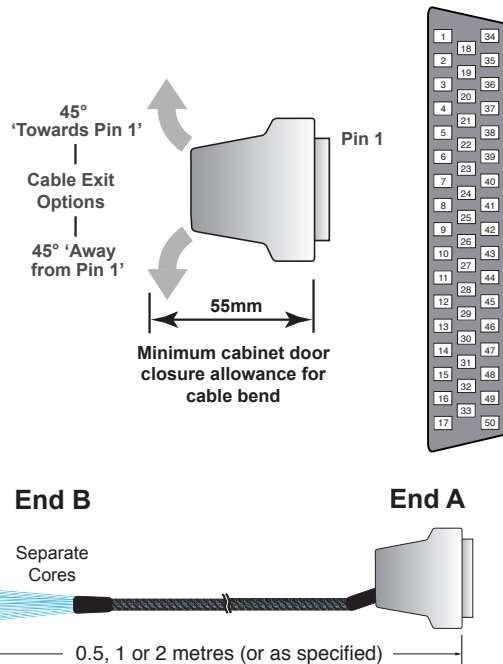
Tinned End



Cut End



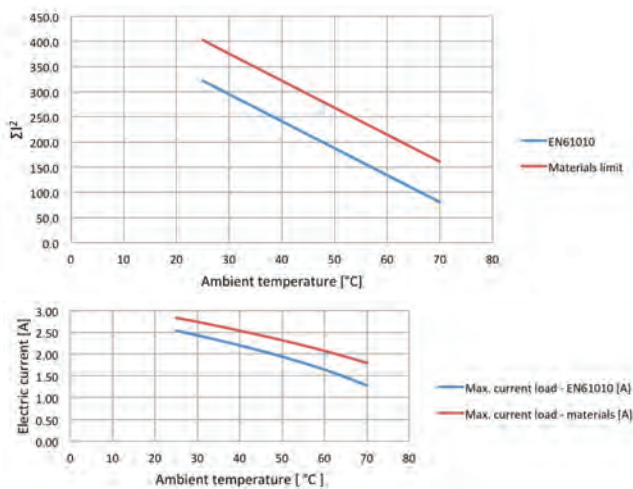
End A - Female



Technical Specification

Connector Type (End A): Gender Securing Method	50-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000VDC AC peak typical
Insulation Resistance	1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (See Order Codes) H68 x W18.5 x D55mm
Cable Type: Conductor: Material Strands	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.2 mm ² , 24AWG) 1.62mm O/D
Resistance Insulation	0.089Ω/m (max) at 20°C PTFE Type C (BS3G210)
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 12mm 25mm 55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-972-050-1m (HV)



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 50-Pin D-Type Cable Assy, 5A, Cable Exit 45° (Away from Pin 1), Boot Lace Ferrules, HV,
 Female to Unterminated, 0.5m Long **40-972-050-0.5m-FU-HV**
 Female to Unterminated, 1.0m Long **40-972-050-1m-FU-HV**
 Female to Unterminated, 2.0m Long **40-972-050-2m-FU-HV**

Part numbers for other versions:

A050DF*-HA***

End A: 45° Cable Exit
 4 = (Away from Pin 1)
 5 = (Towards Pin 1)

End B:
 F = Ferrules
 T = Tinned End
 C = Cut End

Cable Length:
 050 = 0.5m
 100 = 1.0m
 200 = 2.0m

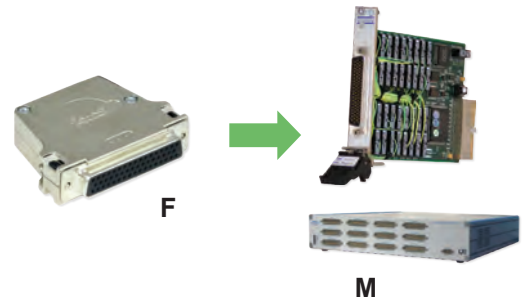
High Voltage 50-Pin D-Type Connector - Female

- Connector Only
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

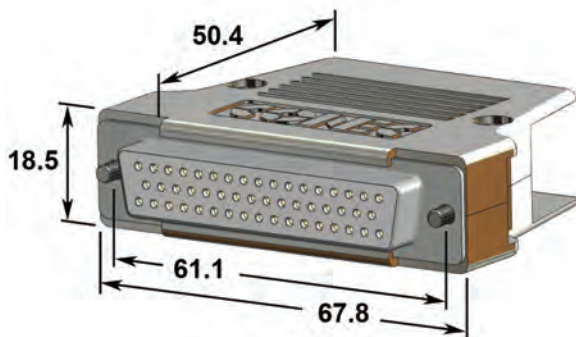
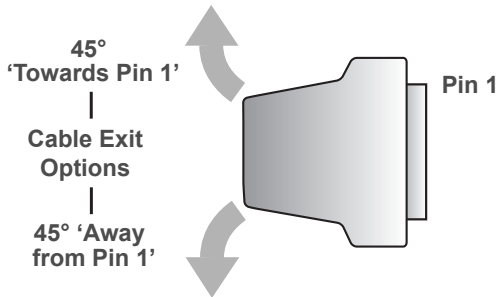
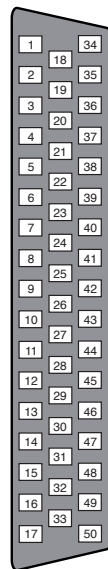


With Backshell



Internal Solder Connection

Female



Technical Specification

Connector Type: Gender	50-Pin D-Subminiature, HV Female
Securing Method: Product with Backshell Product without Backshell	4-40 UNC screwlocks, male 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	5A 1000V DC or AC 45° 12mm dia H68 x W18.5 x D55mm
50-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
Wire Connection: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Type C Yes (in backshell)

Product Order Codes

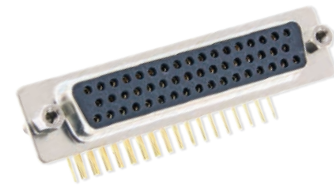
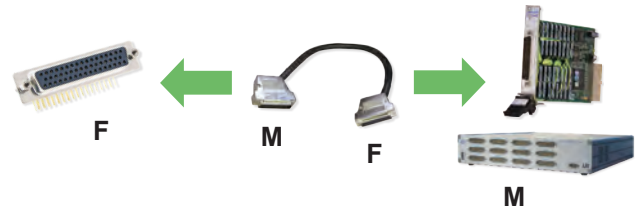
50-Pin D-Type Connector, 5A, Solder Bucket, HV,
 With Backshell, Female **40-960-050-F-HV**
 Without Backshell, Female **92-960-050-F-HV**

High Voltage 50-Pin D-Type Connector, Right Angle PCB Mount - Female

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

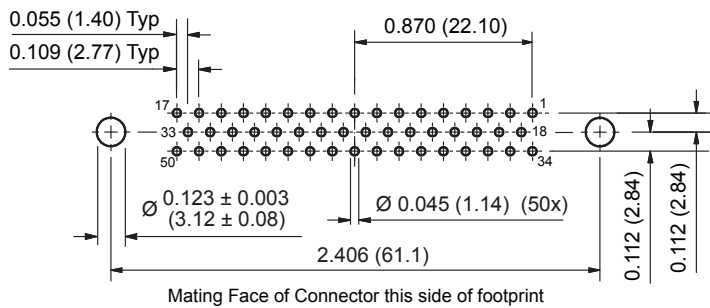


Female

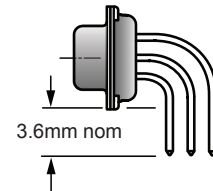


Technical Specification

Connector Type: Gender Securing Method PCB Mounting	50-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 50-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Effective Leg Length	5A each pin 1000V DC or AC Gold plated copper alloy <20mOhm 3.6mm nom (See diagram)



Effective Leg Length



**PCB Footprint of 50-Pin Right Angle Female HV Connector
(Connector Side - Not to Scale)**

Product Order Codes

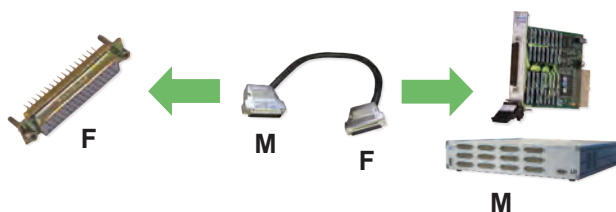
50-Pin D-Type Connector, 5A, Right Angle PCB Mount, HV, Female **40-963-050-RF-HV**

High Voltage 50-Pin D-Type Connector, Straight PCB Mount - Female

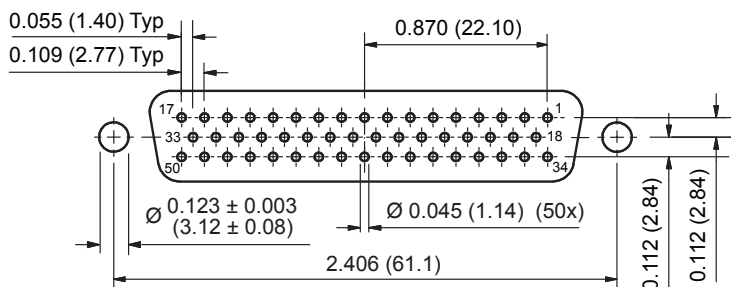
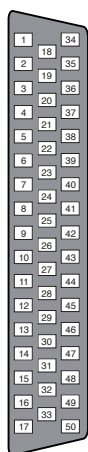
- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



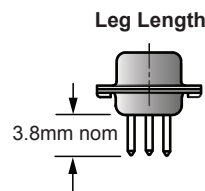
Female



PCB Footprint of 50-Pin Straight Female HV Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	50-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 1000V DC or AC
50-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Leg Length	3.8mm nom (See diagram)



Product Order Codes

50-Pin D-Type Connector, 5A, Straight PCB Mount, HV, Female

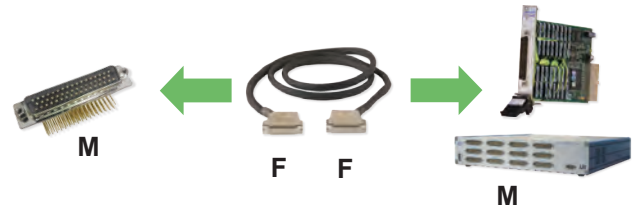
40-963-050-SF-HV

High Voltage 50-Pin D-Type Connector, Right Angle PCB Mount - Male

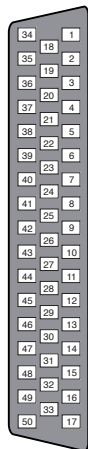
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

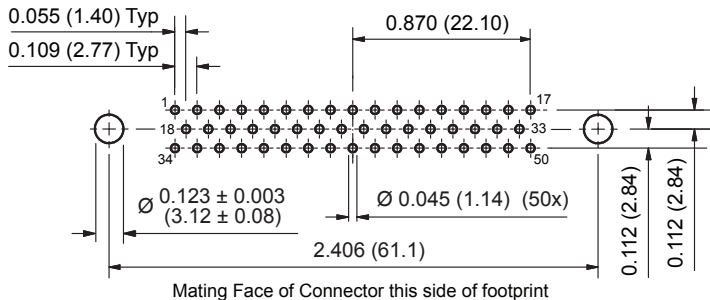


Male



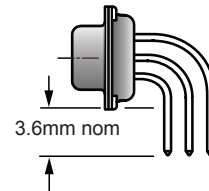
Technical Specification

Connector Type: Gender Securing Method PCB Mounting	50-Pin D-Subminiature, HV Male 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 50-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Effective Leg Length	5A each pin 1000V DC or AC Gold plated copper alloy <20mOhm 3.6mm nom (See diagram)



PCB Footprint of 50-Pin Right Angle Male HV Connector
(Connector Side - Not to Scale)

Effective Leg Length



Product Order Codes

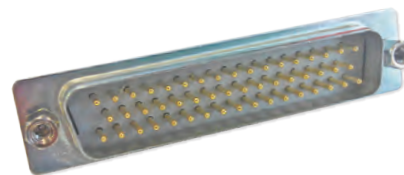
50-Pin D-Type Connector, 5A, Right Angle PCB Mount, HV, Male **40-963-050-RM-HV**

High Voltage 50-Pin D-Type Connector, Straight PCB Mount - Male

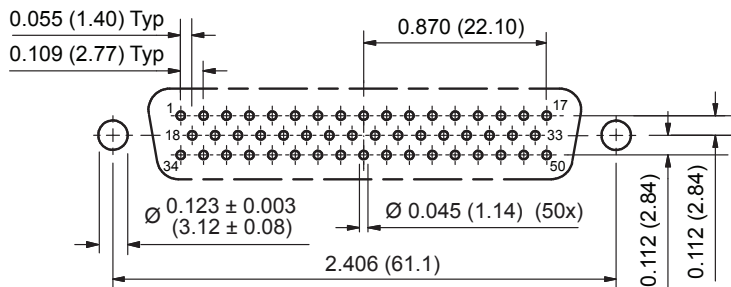
- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



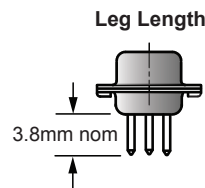
Male



PCB Footprint of 50-Pin Straight Male HV Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	50-Pin D-Subminiature, HV Male 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 50-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 1000V DC or AC Gold plated copper alloy <20mOhm 3.8mm nom (See diagram)



Product Order Codes

50-Pin D-Type Connector, 5A, Straight PCB Mount, HV, Male **40-963-050-SM-HV**

High Voltage 50-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

High Voltage 50-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

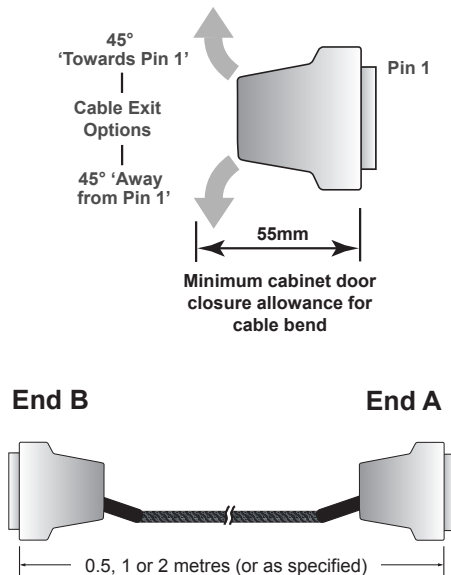
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



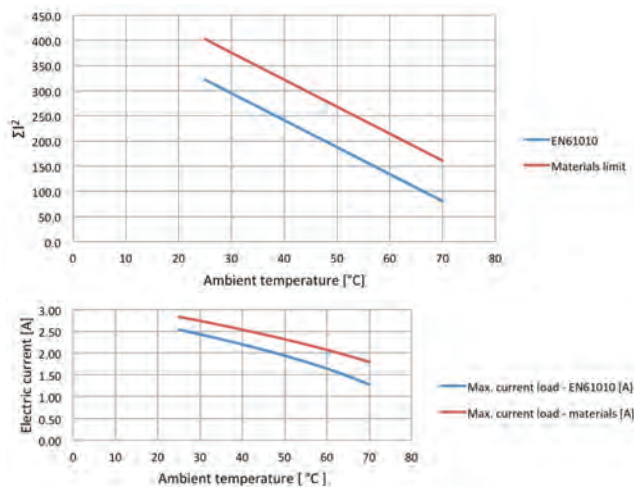
End B Male



End A Male



Characteristic Plots for 40-970-050-1m (HV)



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	50-Pin D-Subminiature, HV Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	50-Pin D-Subminiature HV Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	750V working/1000VDC AC peak typical
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (See Order Codes)
Overall Size (Approx)	H68 x W18.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	7/0.2 (0.2 mm ² , 24AWG)
	1.62mm O/D
Resistance	0.089Ω/m (max) at 20°C
Insulation	PTFE Type C (BS3G210)
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

50-Pin D-Type Cable Assy, 5A, Male to Male, HV,

Cable Exit 45° (Away from Pin 1),

0.5m Long

40-970-050-0.5m-MM-HV

1.0m Long

40-970-050-1m-MM-HV

2.0m Long

40-970-050-2m-MM-HV

Cable Exit 45° (Towards Pin 1),

0.5m Long

A050DM5-050DM5-HA050

1.0m Long

A050DM5-050DM5-HA100

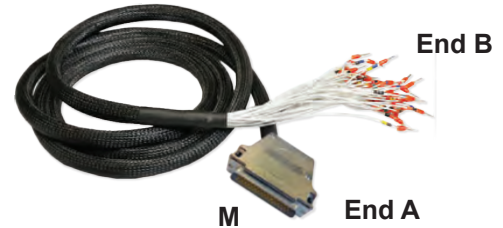
2.0m Long

A050DM5-050DM5-HA200

High Voltage 50-Pin D-Type Cable Assy - Male to Unterminated

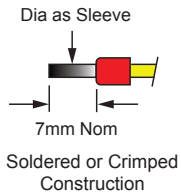
- High Specification and Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

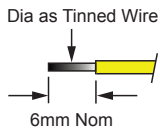


End B Options

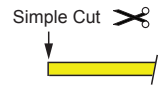
Ferrules



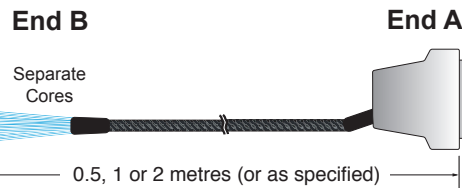
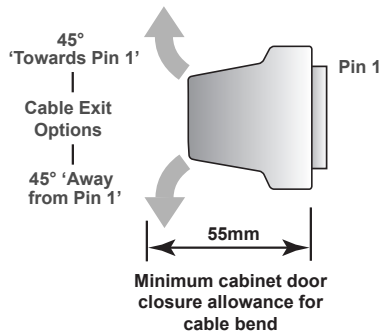
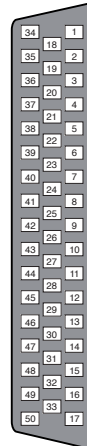
Tinned End



Cut End



End A - Male



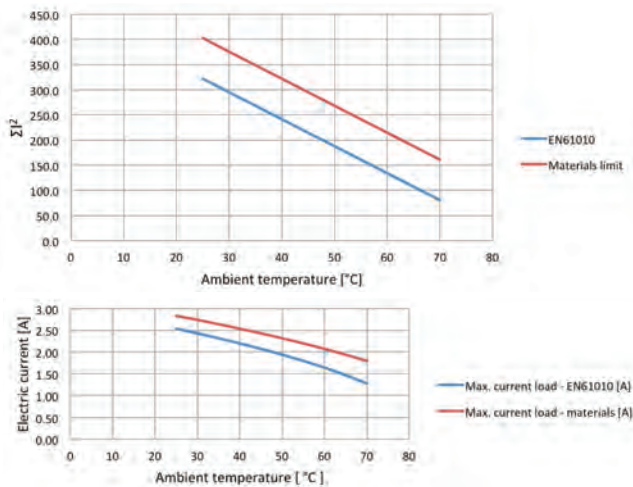
Technical Specification

Connector Type (End A): Gender Securing Method	50-Pin D-Subminiature, HV Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000VDC AC peak typical
Insulation Resistance	1000MΩ
Connector : Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩ 45° (See Order Codes) H68 x W18.5 x D55mm
Cable Type: Conductor: Material Strands	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.2 mm ² , 24AWG) 1.62mm O/D
Resistance Insulation	0.089Ω/m (max) at 20°C PTFE Type C (BS3G210)
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 12mm 25mm 55mm (see diagram)

Notes:

Other cable lengths can be supplied.

Characteristic Plots for 40-972-050-1m (HV)



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

50-Pin D-Type Cable Assy, 5A, Cable Exit 45° (Away from Pin 1), Boot Lace Ferrules, HV,
 Male to Unterminated, 0.5m Long **40-972-050-0.5m-MU-HV**
 Male to Unterminated, 1.0m Long **40-972-050-1m-MU-HV**
 Male to Unterminated, 2.0m Long **40-972-050-2m-MU-HV**

Part numbers for other versions:

A050DM*-*-HA***

End A: 45° Cable Exit
 4 = (Away from Pin 1)
 5 = (Towards Pin 1)

End B:
 F = Ferrules
 T = Tinned End
 C = Cut End

Cable Length:
 050 = 0.5m
 100 = 1.0m
 200 = 2.0m

High Voltage 50-Pin D-Type Connector - Male

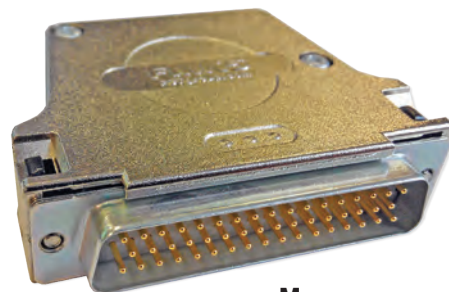
- Connector Only
- Male Screwlocks
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

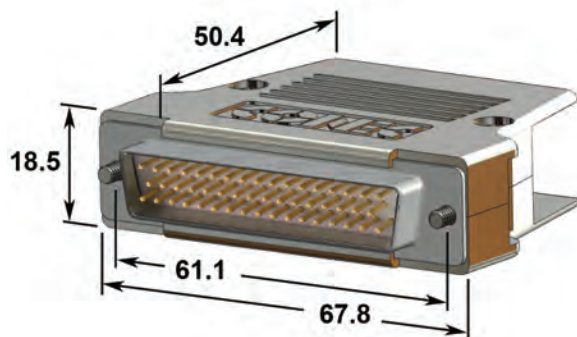
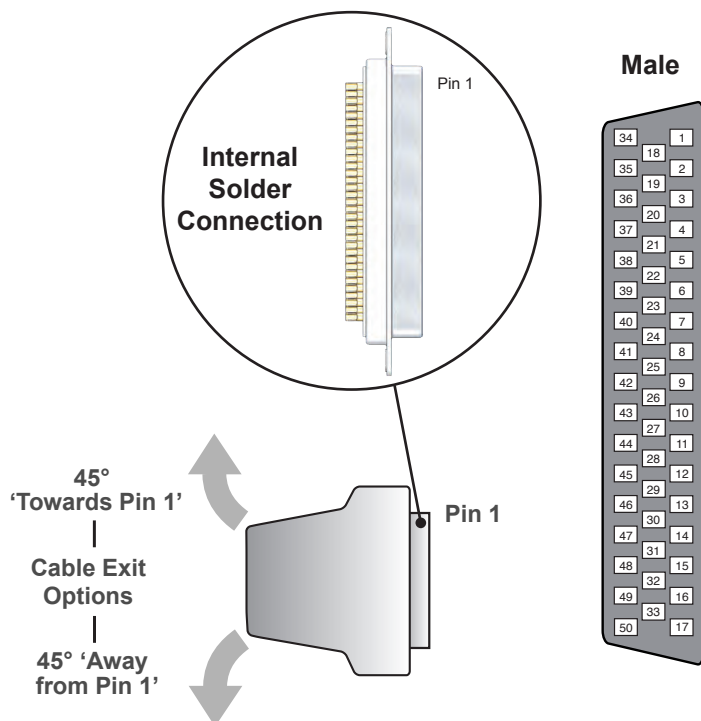
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



M

With Backshell



Technical Specification

Connector Type:	50-Pin D-Subminiature, HV
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	1000V DC or AC
Cable Exit:	45°
Cable Exit Size	12mm dia
Overall Size (Approx)	H68 x W18.5 x D55mm
50-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE Type C
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

50-Pin D-Type Connector, 5A, Solder Bucket, HV,
With Backshell, Male [40-960-050-M-HV](#)
Without Backshell, Male [92-960-050-M-HV](#)

44-Pin D-type Connector Accessories

- Voltage to 250VAC, 3A
- Mating Connectors
- Connector Hoods
- Cable Assemblies
- Guaranteed Compatibility



The 44-Pin D-Type connector is used on PXI products to provide a low density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 44-Pin D-Type Connection Accessories

Cables: 44-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-044-0.5m-MF	40-970-044-1m-MF	40-970-044-2m-MF	No	12.4
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-044-0.5m-FF	40-970-044-1m-FF	40-970-044-2m-FF	No	12.5
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-044-0.5m-MM	40-970-044-1m-MM	40-970-044-2m-MM	No	12.6



Cables: 44-Pin D-Type Connector to Untermated								
End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-044-0.5m-FU	40-972-044-1m-FU	40-972-044-2m-FU	No	12.7	
		Tinned Ends	A044HF4-T-0A050	A044HF4-T-0A100	A044HF4-T-0A200	No		
		Cut End	A044HF4-C-0A050	A044HF4-C-0A100	A044HF4-C-0A200	No		
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-044-0.5m-MU	40-972-044-1m-MU	40-972-044-2m-MU	No	12.8	
		Tinned Ends	A044HM5-T-0A050	A044HM5-T-0A100	A044HM5-T-0A200	No		
		Cut End	A044HM5-C-0A050	A044HM5-C-0A100	A044HM5-C-0A200	No		

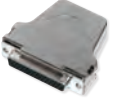




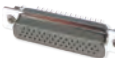
Cable Connectors: 44-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Female	45° Options	40-960-044-F	92-960-044-F	No	12.9
	Male	45° Options	40-960-044-M	92-960-044-M	No	12.10

PCB Connectors: 44-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-044-RF	No	12.11
		Male	N/A	40-963-044-RM	No	12.12
	Straight PCB Mount	Female	N/A	40-963-044-SF	No	12.13
		Male	N/A	40-963-044-SM	No	12.14

Contents

Although these items do not directly mate with current Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 44-Pin D-Type, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 12.4
		Female	Female	Page 12.5
		Male	Male	Page 12.6
	Cable Assy, 44-Pin D-Type to Unterminated, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 12.7
		Male		Page 12.8

Connectors				
View	Description	Type	Gender	Page
	Cable Connector 44-Pin D-Type, 3A, Solder Bucket	With or Without Backshell	Female	Page 12.9
			Male	Page 12.10
	PCB Connector 44-Pin D-Type, 3A	Right Angle PCB Mount	Female	Page 12.11
			Male	Page 12.12
		Straight PCB Mount	Female	Page 12.13
			Male	Page 12.14

Custom Termination

Section 25

44-Pin D-Type Cable Assy - Male to Female

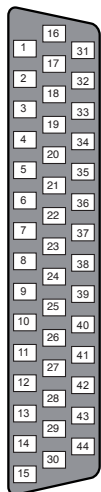
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

End B

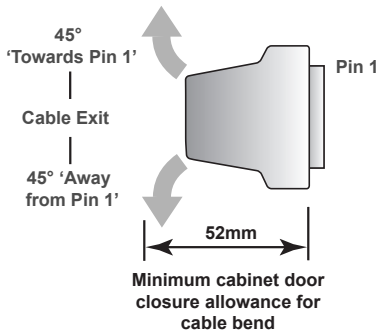


End A

End B
Female

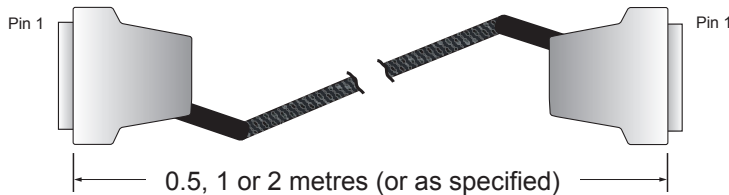


End A
Male



End B

End A



Technical Specification

Connector Type (End A):	44-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	44-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H54 x W15.5 x D52mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	52mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

44-Pin D-Type Cable Assy, 3A, Male to Female,

0.5m Long

40-970-044-0.5m-MF

1.0m Long

40-970-044-1m-MF

2.0m Long

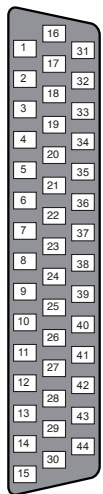
40-970-044-2m-MF

44-Pin D-Type Cable Assy - Female to Female

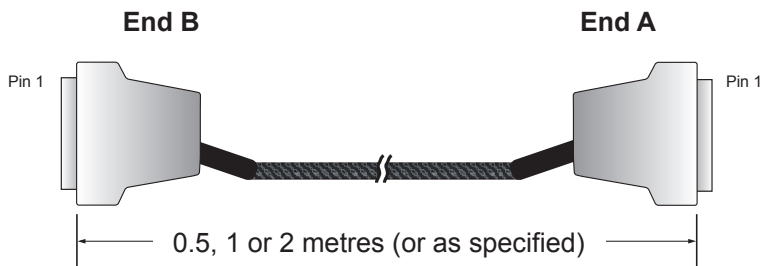
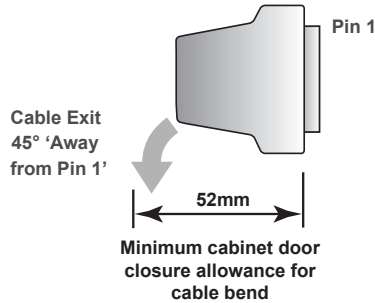
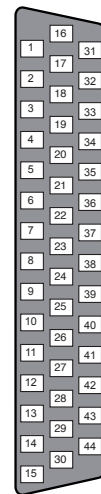
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



**End B
Female**



**End A
Female**



Technical Specification

Connector Type (End A):	44-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	44-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mΩ
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H54 x W15.5 x D52mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	52mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

44-Pin D-Type Cable Assy, 3A, Female to Female,

0.5m Long

40-970-044-0.5m-FF

1.0m Long

40-970-044-1m-FF

2.0m Long

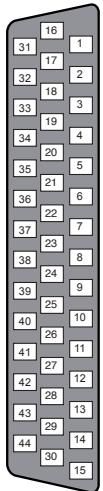
40-970-044-2m-FF

44-Pin D-Type Cable Assy - Male to Male

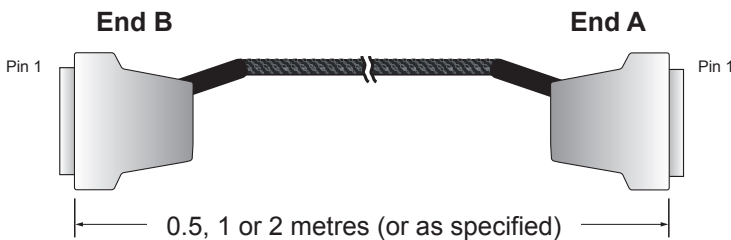
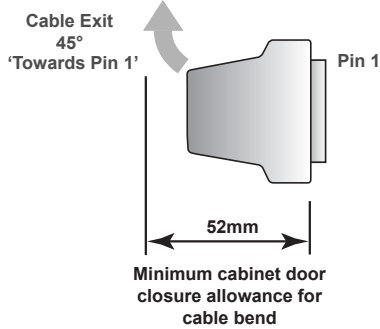
- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



End B Male



End A Male



Technical Specification

Connector Type (End A):	44-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	44-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H54 x W15.5 x D52mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	52mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

44-Pin D-Type Cable Assy, 3A, Male to Male,

- 0.5m Long
- 1.0m Long
- 2.0m Long

- 40-970-044-0.5m-MM**
- 40-970-044-1m-MM**
- 40-970-044-2m-MM**

44-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

End B

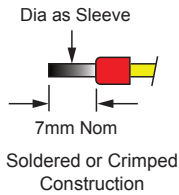


End A

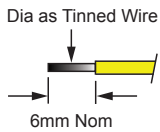
F

End B Options

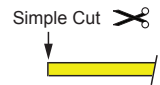
Ferrules



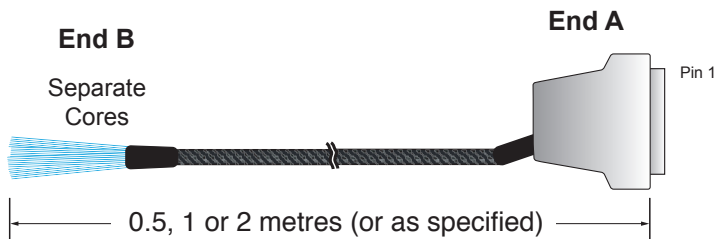
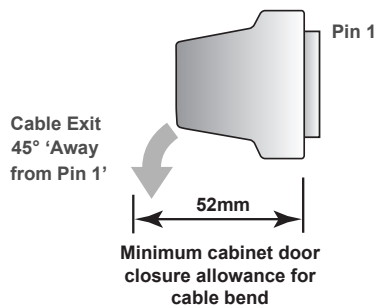
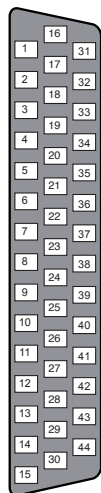
Tinned End



Cut End



End A Female



Technical Specification

Connector Type (End A):	44-Pin D-Subminiature Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	130mm nominal To connector pins Ferrules, Tinned, Cut End
Free Wire Length	
Individual Wire Labelling	
Wire End Options	
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H54 x W15.5 x D52mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	52mm (see diagram)
Notes:	
	• Please ensure appropriate electrical safety precautions are observed when using this product.
	• Other cable lengths can be supplied.

Product Order Codes

- 44-Pin D-Type Cable Assy, 3A, Boot Lace Ferrules,
 Female to Unterminated, 0.5m Long [40-972-044-0.5m-FU](#)
 Female to Unterminated, 1.0m Long [40-972-044-1m-FU](#)
 Female to Unterminated, 2.0m Long [40-972-044-2m-FU](#)

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A044HF4-*-0A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
--	------------------------	--

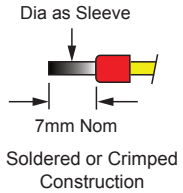
44-Pin D-Type Cable Assy - Male to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

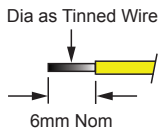


End B Options

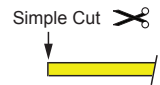
Ferrules



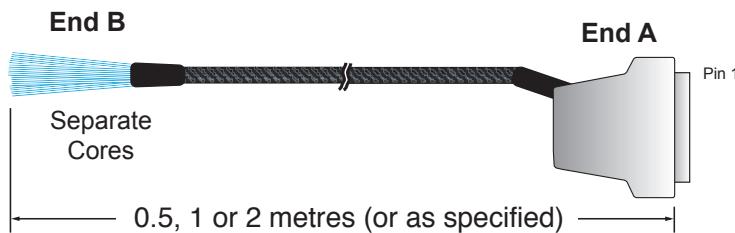
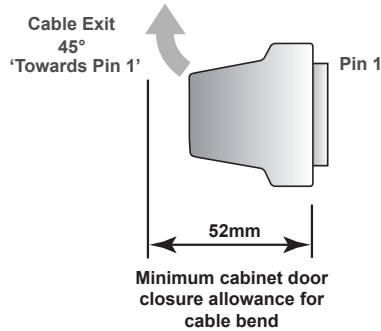
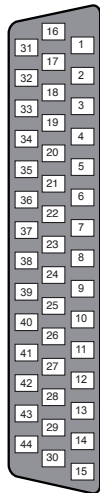
Tinned End



Cut End



End A Male



Technical Specification

Connector Type (End A):	44-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	130mm nominal Free Wire Length
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	3A
Maximum Current	250VAC/400VDC
Maximum Voltage	1000MOhm
Insulation Resistance	
Connector:	Gold plated copper alloy
Contact Material	20mOhm
Contact Resistance	45° (Towards Pin 1)
Cable Exit	H54 x W15.5 x D52mm
Overall Size (Approx)	Individual wires, screened & sleeved
Cable Type:	Silver plated copper wire
Conductor: Material	7/0.15 (0.124mm ² , 26AWG)
Strands	0.137Ω/m
Resistance	PFA
Insulation	Polyester
Outer Sleeve	Yes
Screened Construction	Yes
Additional Braided Sleeve	10mm
Cable O/D	25mm
Minimum Bend Radius	52mm (see diagram)
Door Closure Allowance	
Notes:	
	• Please ensure appropriate electrical safety precautions are observed when using this product.
	• Other cable lengths can be supplied.

Product Order Codes

- 44-Pin D-Type Cable Assy, 3A, Boot Lace Ferrules, Male to Unterminated, 0.5m Long [40-972-044-0.5m-MU](#)
 Male to Unterminated, 1.0m Long [40-972-044-1m-MU](#)
 Male to Unterminated, 2.0m Long [40-972-044-2m-MU](#)

Part numbers for other versions:

End B:	A044HM5-*-0A***	Cable Length:
T = Tinned End		050 = 0.5m
C = Cut End		100 = 1.0m
		200 = 2.0m

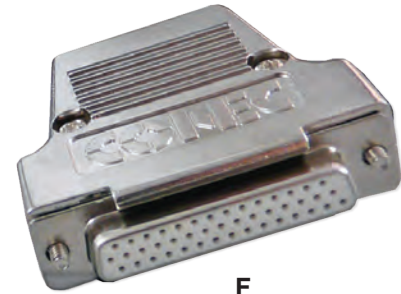
44-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

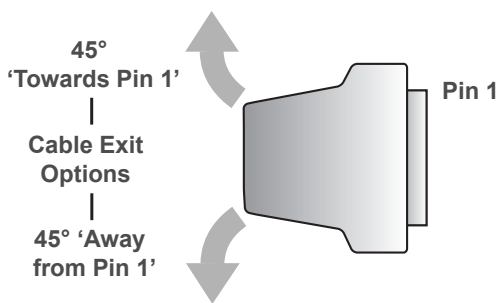
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

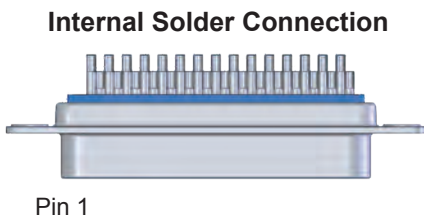
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell



Female



Connector Detail

Technical Specification

Connector Type:	44-Pin D-Subminiature, Density and a half Female
Gender	Female
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	3A
Maximum Voltage	250V AC
Cable Exit:	45°
Cable Exit Size	10mm dia
Overall Size (Approx)	H54 x W15.5 x D52mm
44-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

44-Pin D-Type Connector, 3A, Solder Bucket, With Backshell, Female
Without Backshell, Female

40-960-044-F
92-960-044-F

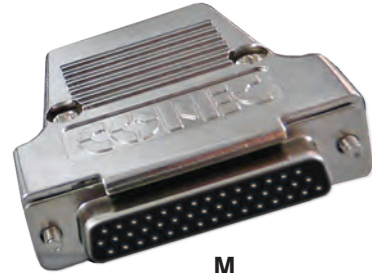
44-Pin D-Type Connector - Male

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

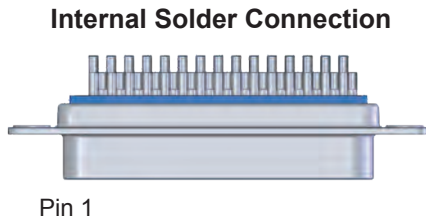
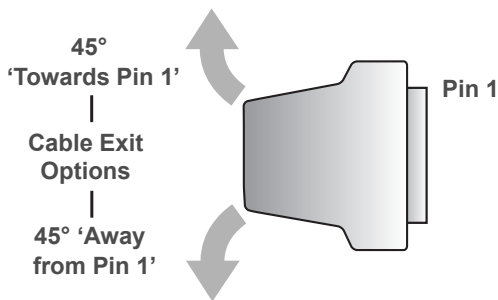
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell

Male



Connector Detail

Technical Specification

Connector Type:	44-Pin D-Subminiature, Density and a half Male
Gender	Male
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	3A
Maximum Voltage	250V AC
Cable Exit:	45°
Cable Exit Size	10mm dia
Overall Size (Approx)	H54 x W15.5 x D52mm
44-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

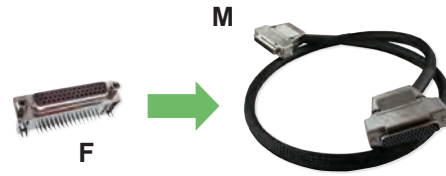
44-Pin D-Type Connector, 3A, Solder Bucket, With Backshell, Male 40-960-044-M
Without Backshell, Male 92-960-044-M

44-Pin D-Type Connector, Right Angle PCB Mount - Female

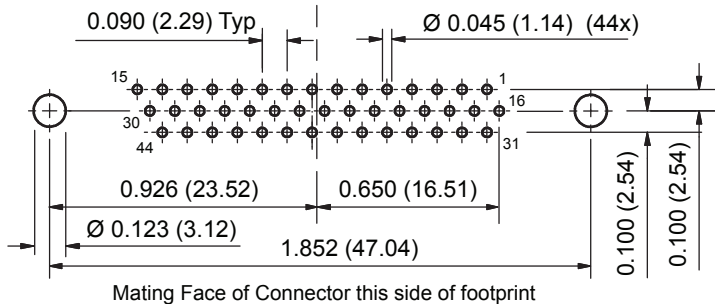
- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

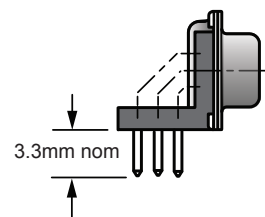


PCB Footprint of 44-Pin Right Angle Female Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type:	44-Pin D-Subminiature Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	250V AC
44-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	3.3mm nom (See diagram)

Leg Length



Product Order Codes

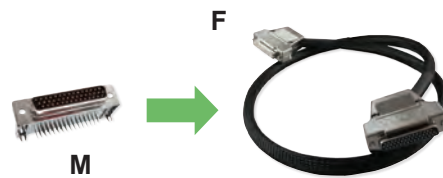
44-Pin D-Type Connector, 3A, Right Angle PCB Mount, Female **40-963-044-RF**

44-Pin D-Type Connector, Right Angle PCB Mount - Male

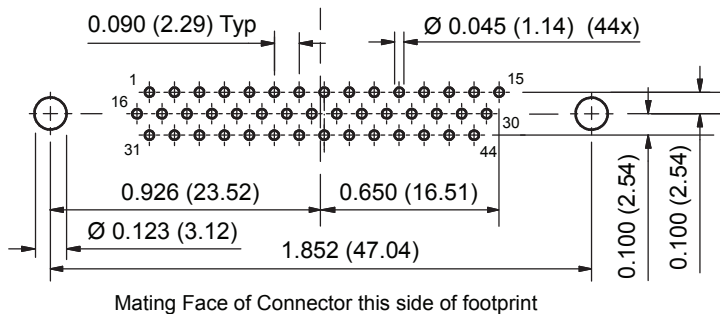
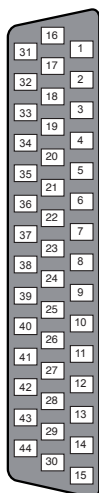
- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male

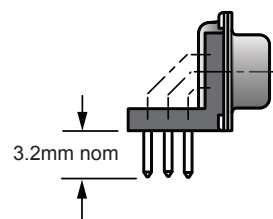


**PCB Footprint of 44-Pin Right Angle Male Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type:	44-Pin D-Subminiature Density and a half
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	250V AC
44-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	3.2mm nom (See diagram)

Leg Length



Product Order Codes

44-Pin D-Type Connector, 3A, Right Angle PCB Mount, Male

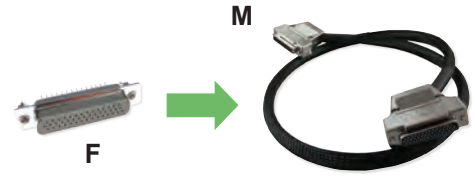
40-963-044-RM

44-Pin D-Type Connector, Straight PCB Mount - Female

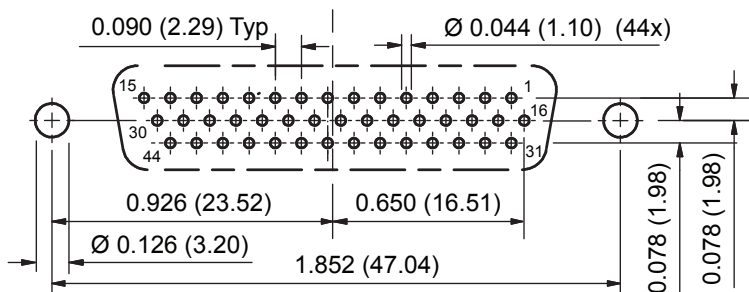
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

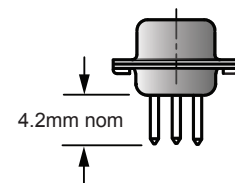


PCB Footprint of 44-Pin Straight Female Connector (Connector Side - Not to Scale) Tol: ± 0,03mm

Technical Specification

Connector Type:	44-Pin D-Subminiature Density and a half Female
Gender	Female
Securing Method	4-40 UNC screwlocks, female PCB Mounting
Connector Ratings:	3A each pin
Maximum Current	250V AC
Maximum Voltage	
44-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	4.2mm nom (See diagram)

Leg Length



Product Order Codes

44-Pin D-Type Connector, 3A, Straight PCB Mount, Female

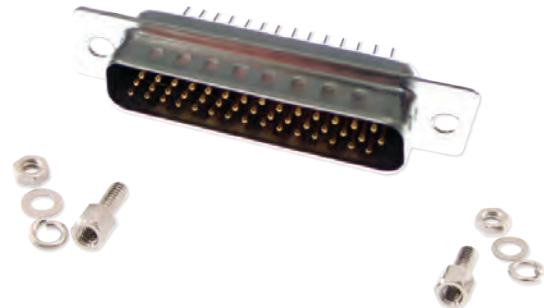
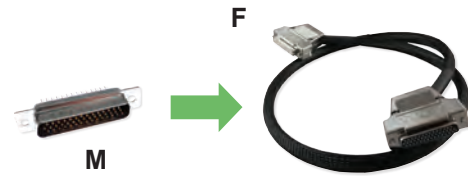
40-963-044-SF

44-Pin D-Type Connector, Straight PCB Mount - Male

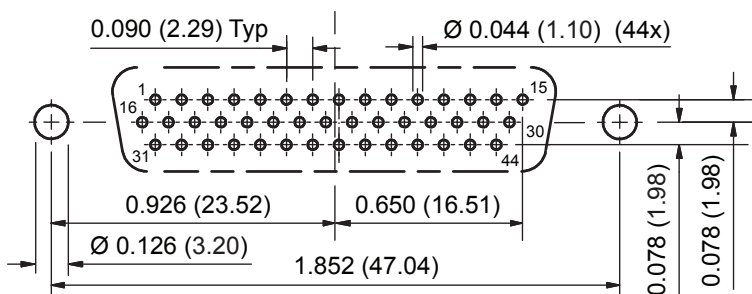
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male

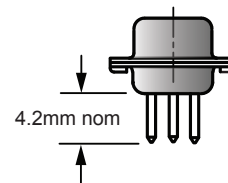


PCB Footprint of 44-Pin Straight Male Connector (Connector Side - Not to Scale) Tol: ± 0,03mm

Technical Specification

Connector Type:	44-Pin D-Subminiature Density and a half
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	250V AC
44-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	4.2mm nom (See diagram)

Leg Length



Product Order Codes

44-Pin D-Type Connector, 3A, Straight PCB Mount, Male

40-963-044-SM

Standard Voltage 37-Pin D-type Connector Accessories

- **Standard Voltage to 250V AC/400V, 5A**
- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**
- **37-Pin High Voltage Solutions are also Available**
See Section 14



The Standard Voltage 37-Pin D-Type connector is used on PXI and LXI switching products to provide a medium density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Appendix - Standard Voltage Part Number Listing

Cables: Standard Voltage 37-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-037-0.5m-MF	40-970-037-1m-MF	40-970-037-2m-MF	Yes (Female end)	13.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-037-0.5m-FF	40-970-037-1m-FF	40-970-037-2m-FF	Yes	13.6
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-037-0.5m-MM	40-970-037-1m-MM	40-970-037-2m-MM	No	13.18



Calibration Port Cable for Precision Resistor Modules: 9-Pin D-Type to 4 x 4mm Bayonet Plug								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	For Modules 40-293 and 50-293	For Modules 40-297 and 50-297			
1 x Female	45° Away from Pin 1	4 x Male	Rear	40-975-037-02-1m	40-975-037-1m	Yes (Female end)	13.16	





Cables: Standard Voltage 37-Pin D-Type Connector to Underterminated								
End 1		End 2 Underterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-037-0.5m-FU	40-972-037-1m-FU	40-972-037-2m-FU	Yes	13.7	
		Tinned Ends	A037DF4-T-0A050	A037DF4-T-0A100	A037DF4-T-0A200			
		Cut End	A037DF4-C-0A050	A037DF4-C-0A100	A037DF4-C-0A200			
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-037-0.5m-MU	40-972-037-1m-MU	40-972-037-2m-MU	No	13.19	
		Tinned Ends	A037DM5-T-0A050	A037DM5-T-0A100	A037DM5-T-0A200			
		Cut End	A037DM5-C-0A050	A037DM5-C-0A100	A037DM5-C-0A200			




Cable Connectors and Connector Blocks: Standard Voltage 37-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Connector Block	Female	Rear	40-965-037-F	92-965-037-F	Yes	13.8
	Male		40-965-037-M	92-965-037-M	No	13.20
Cable Connector	Female	45° Options	40-960-037-F	92-960-037-F	Yes	13.10
	Male	45° Options	40-960-037-M	92-960-037-M	No	13.21

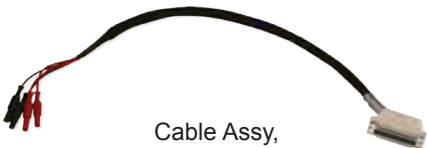
Breakouts and PCB Connectors: Standard Voltage 37-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
Breakout	DIN Rail Mount	Female	N/A	40-967-037-F	No	13.9
		Male	N/A	40-967-037-M		13.13
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-037-RF		13.11
		Male	N/A	40-963-037-RM		13.14
	Straight PCB Mount	Female	N/A	40-963-037-SF		13.12
		Male	N/A	40-963-037-SM		13.15

Contents - Mating Accessories For Pickering Products

Standard Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 37-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 13.5
		Female	Female	Page 13.6
	Cable Assy, 37-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 13.7



Standard Voltage - Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block, 37-Pin D-Type, 5A, Screw Terminal.	With or Without Backshell	Female	Page 13.8
	Breakout with DIN Rail Mount, 37-Pin D-Type, 5A, Screw Terminal			Page 13.9
	Cable Connector 37-Pin D-Type, 5A, Solder Bucket	With or Without Backshell		Page 13.10
	PCB Connector 37-Pin D-Type, 5A	Right Angle PCB Mount		Page 13.11
		Straight PCB Mount		Page 13.12

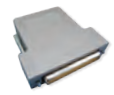

Standard Voltage - Male Breakouts/PCB Connectors				
View	Description	Type	Gender	Page
	Breakout with DIN Rail Mount, 37-Pin D-Type, 5A, Screw Terminal		Male	Page 13.13
	PCB Connector 37-Pin D-Type, 5A	Right Angle PCB Mount		Page 13.14
		Straight PCB Mount		Page 13.15

Standard Voltage - Calibration Cables			
View And Description	End 1	End 2	Page
 Cable Assy, 4 x 4mm DMM Bayonet Plug to 37-Pin D-Type Connector, Female.	1 x 37-Pin D-Type, Female	4 x 4mm DMM Bayonet Plug	Page 13.16

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

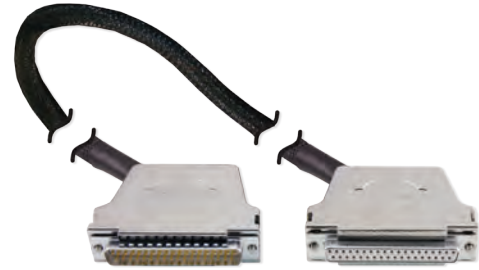
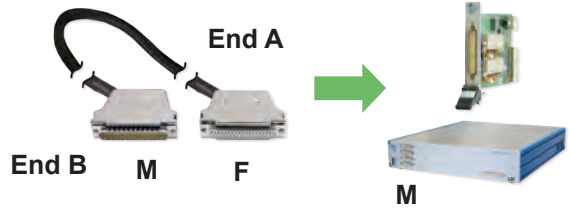
Standard Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 37-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 13.18
	Cable Assy, 37-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 13.19

Standard Voltage - Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block, 37-Pin D-Type, 5A, Screw Terminal.	With or Without Backshell	Male	Page 13.20
	Cable Connector 37-Pin D-Type, 5A, Solder Bucket	With or Without Backshell		Page 13.21

Custom Termination Section 25

Standard Voltage 37-Pin D-Type Cable Assy - Male to Female

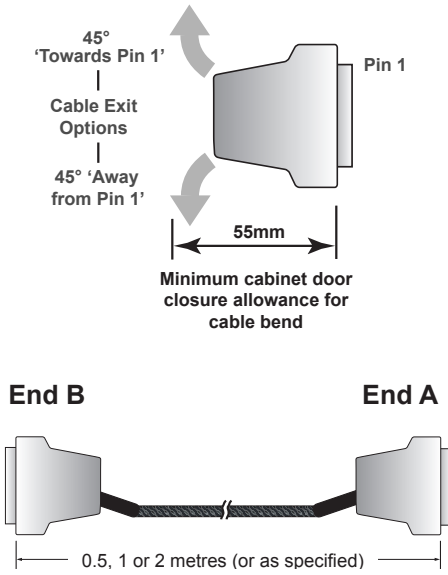
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



End B Male



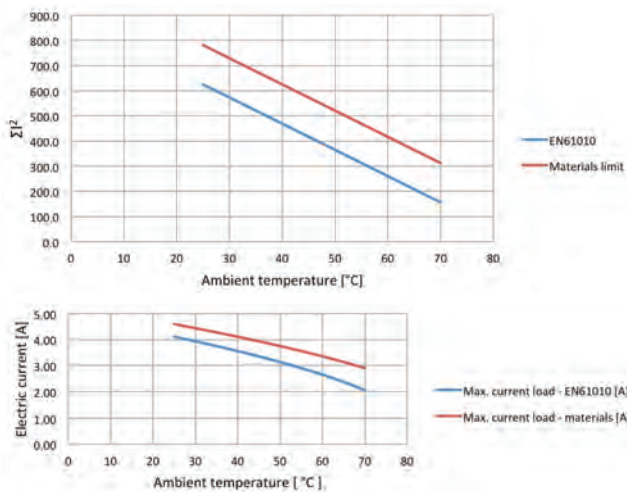
End A Female



Technical Specification

Connector Type (End A):	37-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	37-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H70 x W15.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.41mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-037-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

37-Pin D-Type Cable Assy, 5A, Male to Female,

0.5m Long

40-970-037-0.5m-MF

1.0m Long

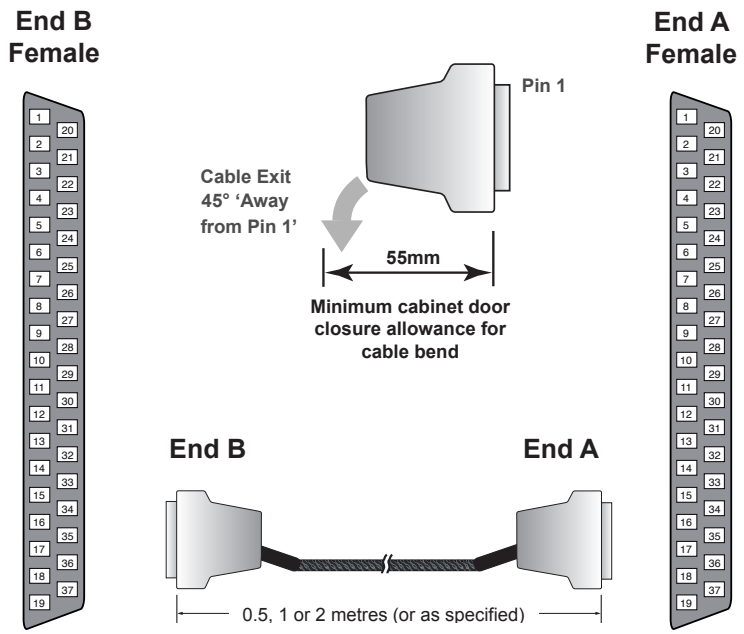
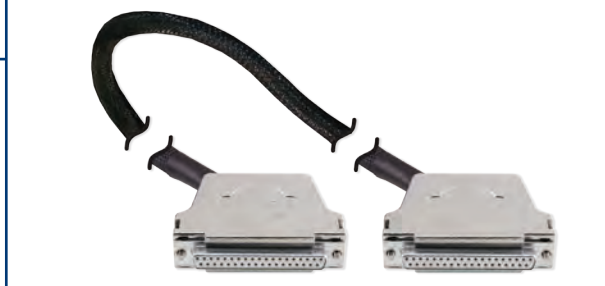
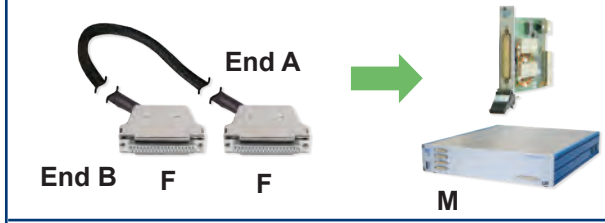
40-970-037-1m-MF

2.0m Long

40-970-037-2m-MF

Standard Voltage 37-Pin D-Type Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

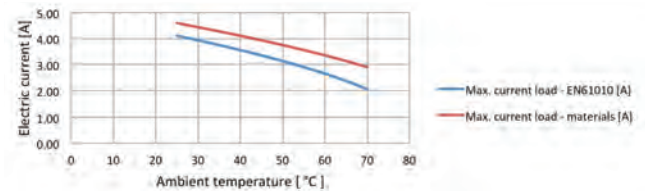
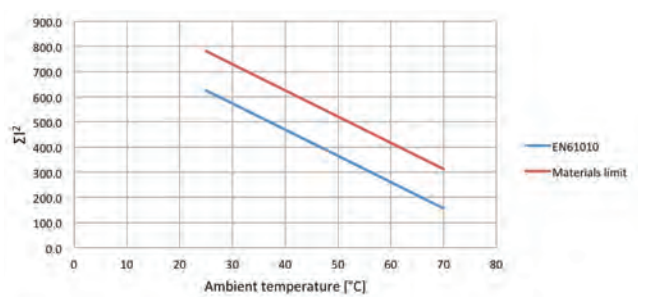


Technical Specification

Connector Type (End A):	37-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	37-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit:	45° (Away from Pin 1)
Overall Size (Approx)	H70 x W15.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.41mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:
Other cable lengths can be supplied.

Characteristic Plots for 40-970-037-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

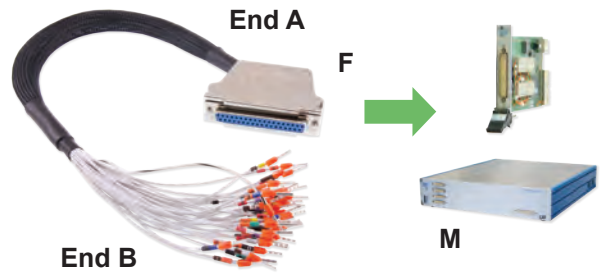
The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 37-Pin D-Type Cable Assy, 5A, Female to Female,**
- 0.5m Long** 40-970-037-0.5m-FF
 - 1.0m Long** 40-970-037-1m-FF
 - 2.0m Long** 40-970-037-2m-FF

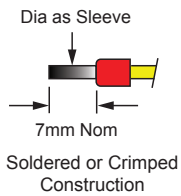
Standard Voltage 37-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

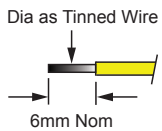


End B Options

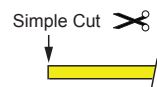
Ferrules



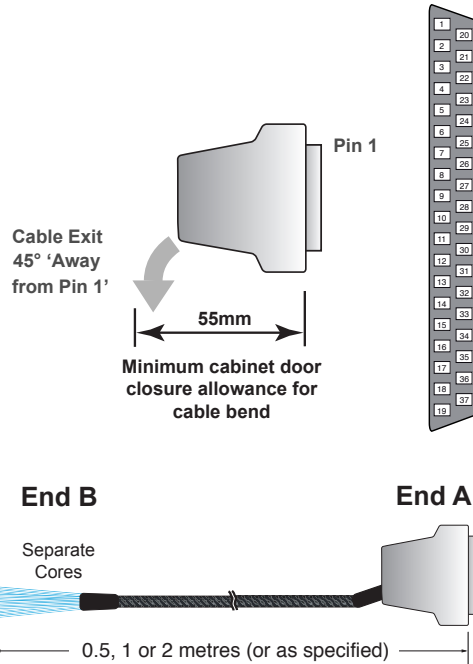
Tinned End



Cut End



End A - Female



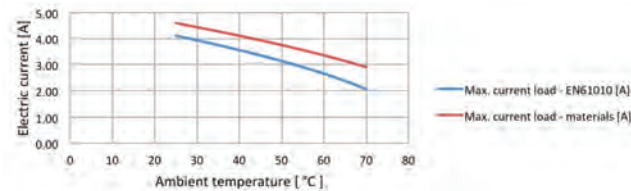
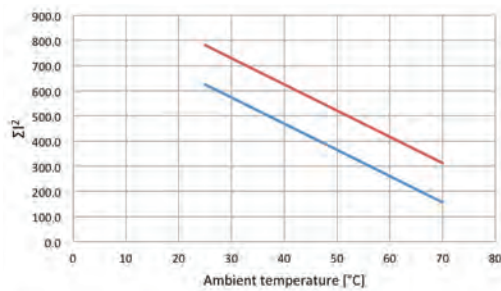
Technical Specification

Connector Type (End A): Gender Securing Method	37-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (Away from Pin 1) H70 x W15.5 x D55mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Copper 19/0.18 (0.41mm ² , 21AWG) 0.041Ω/m PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 10mm 25mm 55mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Characteristic Plots for 40-972-037-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

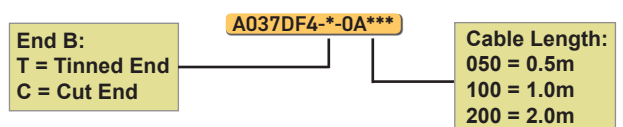
37-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules,

Female to Unterminated, 0.5m Long **40-972-037-0.5m-FU**

Female to Unterminated, 1.0m Long **40-972-037-1m-FU**

Female to Unterminated, 2.0m Long **40-972-037-2m-FU**

Part numbers for other versions:



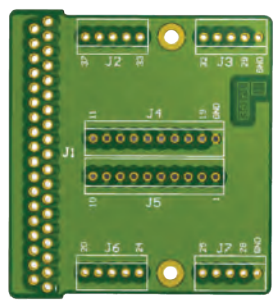
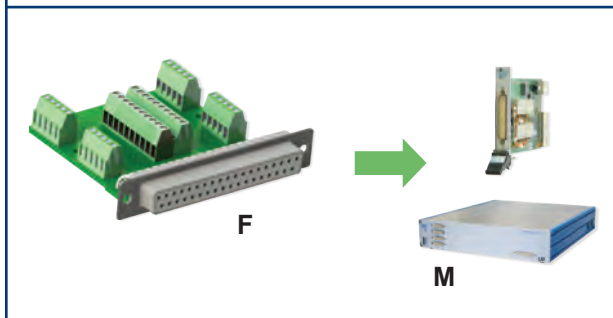
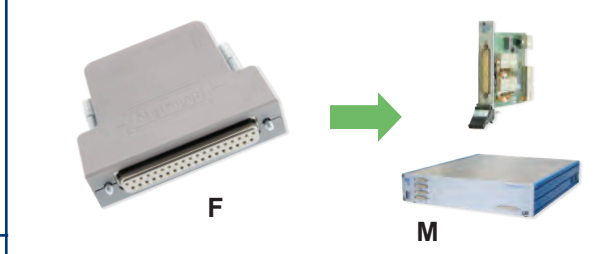
Standard Voltage 37-Pin D-Type Connector Block - Female

- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

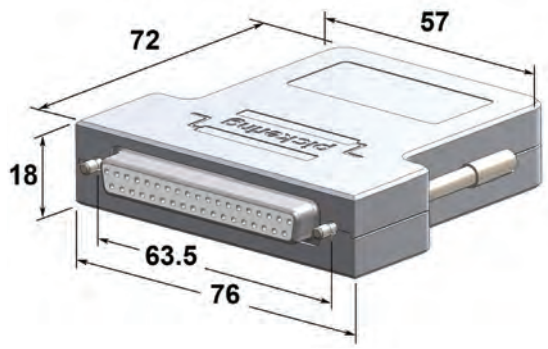
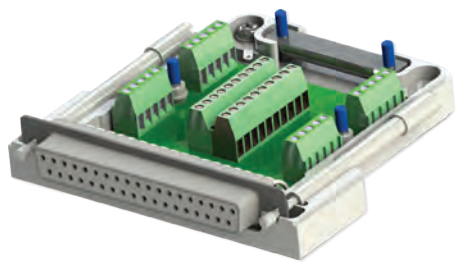
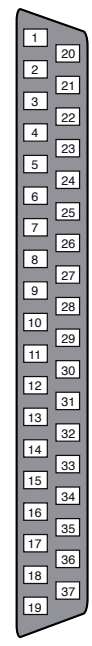
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PFA cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.



Female



Technical Specification

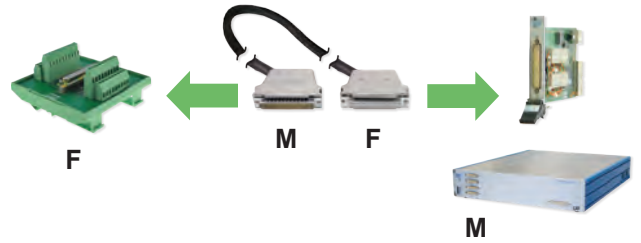
Connector Type:	37-Pin D-Subminiature
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	5A
Maximum Voltage	200VDC
Cable Exit	Rear - 18 x 24mm
Overall Size (Approx)	H76 x W17.5 x D77mm
37-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

- 37-Pin D-Type Connector Block, 5A,
 Screw Terminal, With Backshell, Female 40-965-037-F
 Screw Terminal, Without Backshell, Female 92-965-037-F

Standard Voltage 37-Pin D-Type Breakout - Female

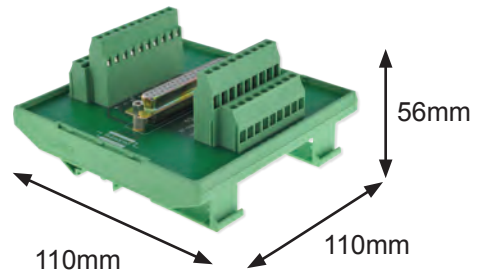
- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted



Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

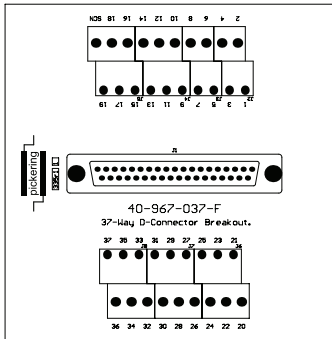
This termination option is capable of accepting heavy duty connection wires and uses rising clamp screw terminals to minimize the danger of copper strand damage. Users should care take to protect the termination and provide a suitable method of restraining the cables.

When using this product please ensure appropriate electrical safety precautions are observed.



Female

40-967-037-F



Technical Specification

Connector Type:	37-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, female
Wire Connection	Rising cage screw terminals
Breakout Ratings:	
Maximum Current	5A
Maximum Voltage	200VDC
Securing Method	Suitable for securing to DIN rails.
Overall Size (Approx)	H110 x W110 x D56mm
37-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	12AWG
Additional Cable Clamp	No

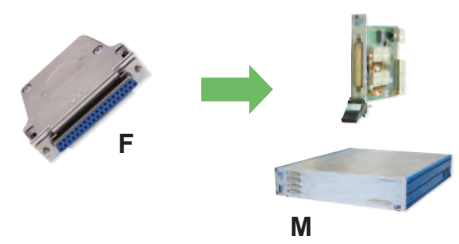
Product Order Codes

37-Pin D-Type Breakout with DIN Rail Mount, 5A, Screw Terminal, Female

40-967-037-F

Standard Voltage 37-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination



This accessory is designed to allow users to directly terminate with soldered connections to the connector.

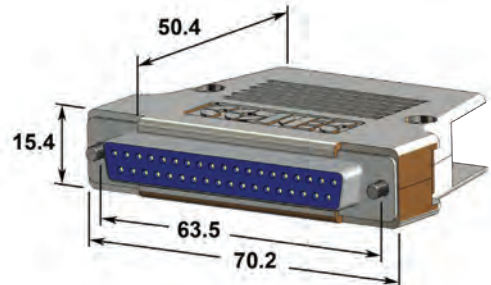
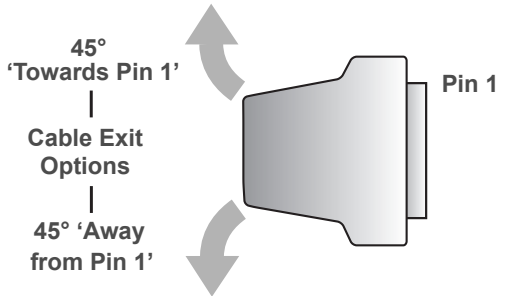
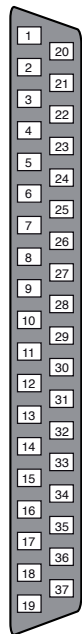
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



Internal Solder Connection

Female



Technical Specification

Connector Type:	37-Pin D-Subminiature Female
Gender	Female
Securing Method:	4-40 UNC screwlocks, male
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	Solder bucket
Wire Connection	
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	250VAC
Cable Exit:	45°
Cable Exit Size	13mm dia
Overall Size (Approx)	H70 x W15.5 x D55mm
37-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

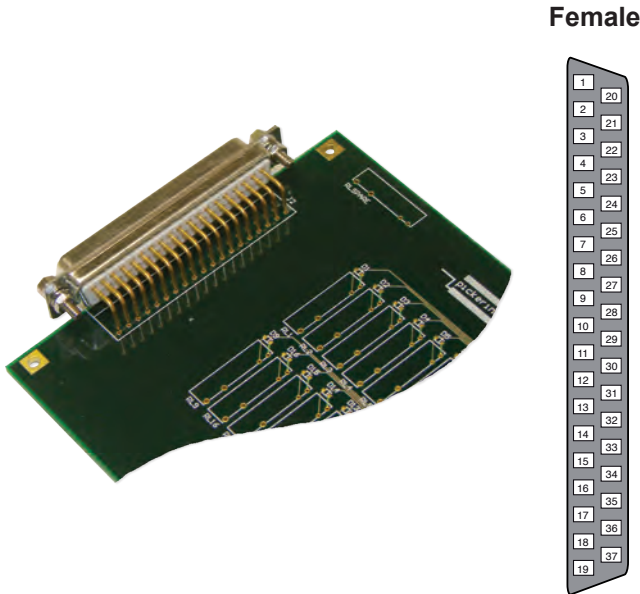
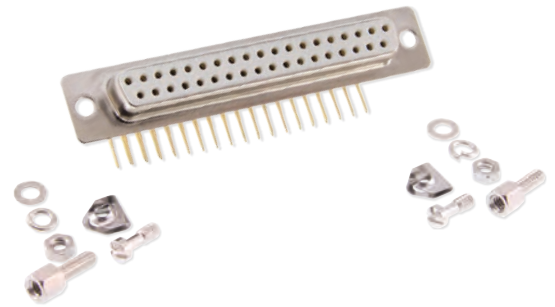
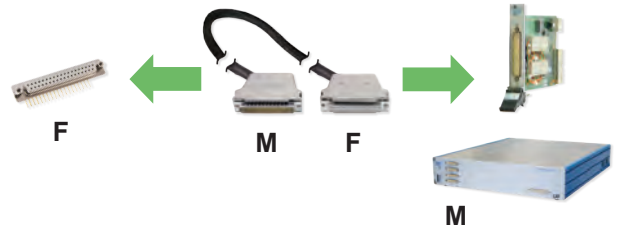
- 37-Pin D-Type Connector, 5A, Solder Bucket,
 With Backshell, Female 40-960-037-F
 Without Backshell, Female 92-960-037-F

Standard Voltage 37-Pin D-Type Connector, Right Angle PCB Mount - Female

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

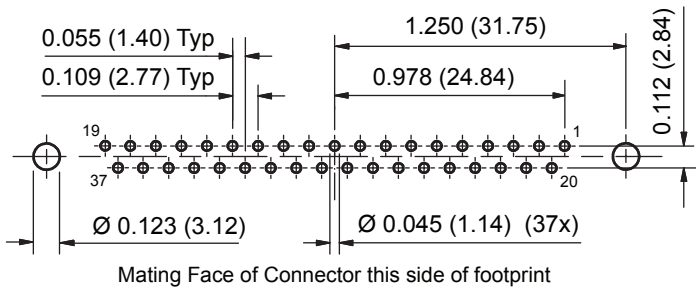
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

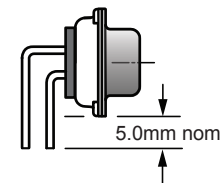


Technical Specification

Connector Type:	37-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	5A each pin
Maximum Voltage	250VAC
37-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	5.0mm nom (See diagram)



Effective Leg Length



PCB Footprint of 37-Pin Right Angle Female Connector (Connector Side - Not to Scale)

Product Order Codes

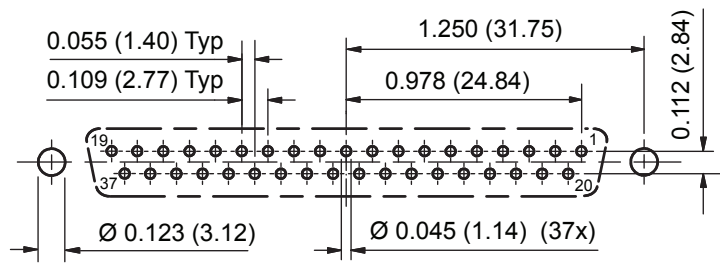
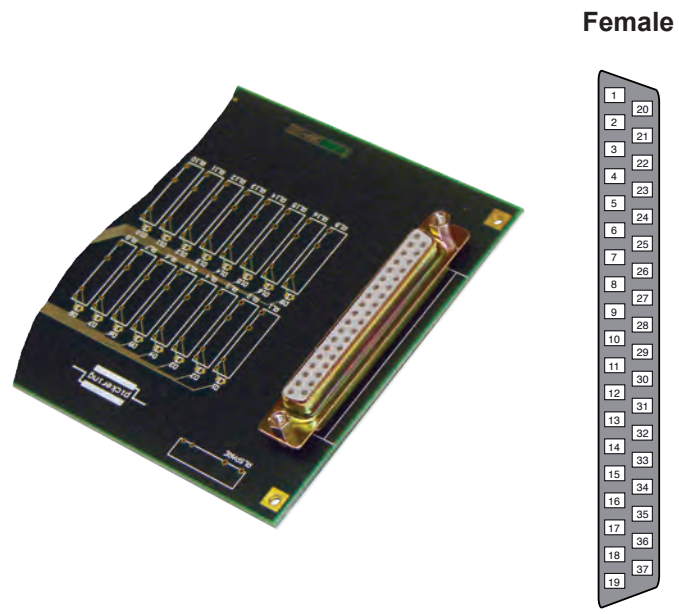
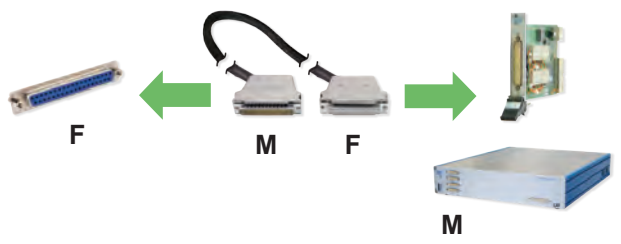
37-Pin D-Type Connector, 5A, Right Angle PCB Mount, Female **40-963-037-RF**

Standard Voltage 37-Pin D-Type Connector, Straight PCB Mount - Female

- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

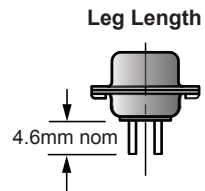
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



**PCB Footprint of 37-Pin Straight Female Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	37-Pin D-Subminiature Female 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 250VAC
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Leg Length	4.6mm nom (See diagram)

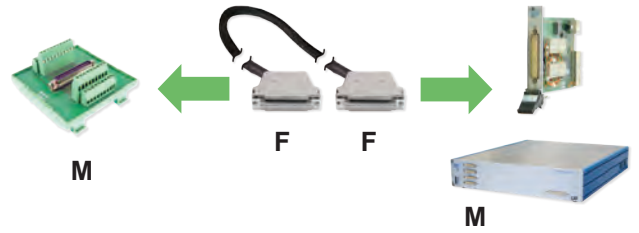


Product Order Codes

37-Pin D-Type Connector, 5A, Straight PCB Mount, Female **40-963-037-SF**

Standard Voltage 37-Pin D-Type Breakout - Male

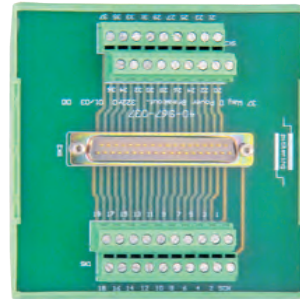
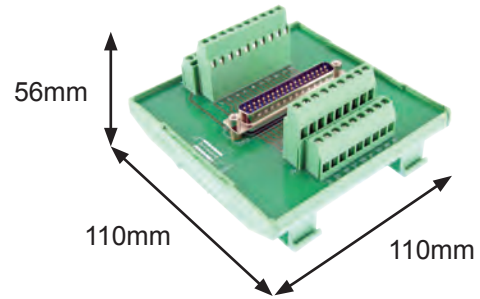
- For Connection at Cable End
- Simple to Use Rising Cage Screw Clamp Termination
- DIN Rail Mounted



Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

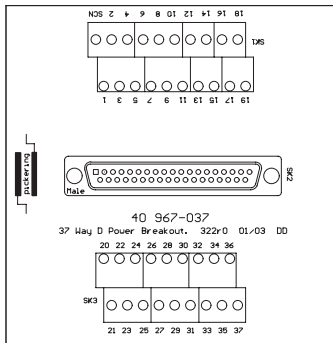
This termination option is capable of accepting heavy duty connection wires and uses rising clamp screw terminals to minimize the danger of copper strand damage. Users should care take to protect the termination and provide a suitable method of restraining the cables.

When using this product please ensure appropriate electrical safety precautions are observed.



Male

40-967-037-M



Technical Specification

Connector Type: Gender Securing Method Wire Connection	37-Pin D-Subminiature Male 4-40 UNC screwlocks, female Rising cage screw terminals
Breakout Ratings: Maximum Current Maximum Voltage Securing Method	5A 200VDC Suitable for securing to DIN rails.
Overall Size (Approx)	H110 x W110 x D56mm
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
Screw Terminals: Maximum Wire Size Additional Cable Clamp	12AWG No

Product Order Codes

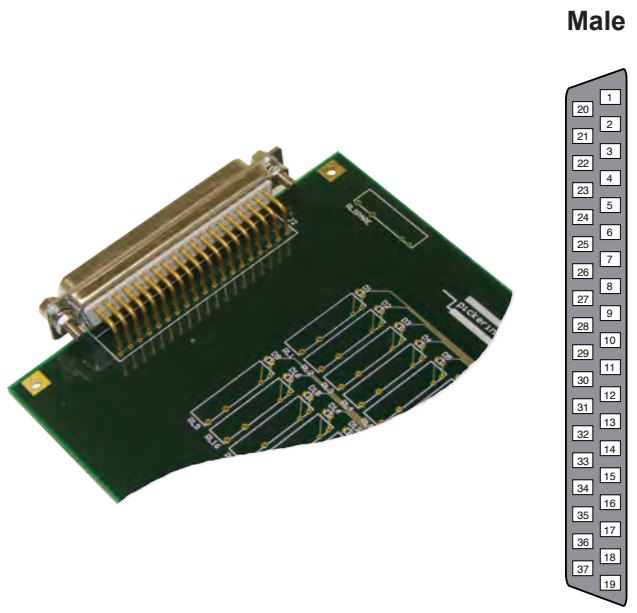
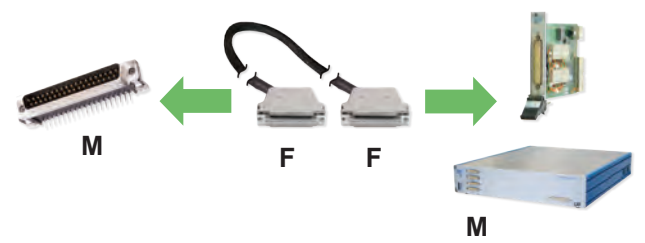
37-Pin D-Type Breakout with DIN Rail Mount, 5A, Screw Terminal, Male **40-967-037-M**

Standard Voltage 37-Pin D-Type Connector, Right Angle PCB Mount - Male

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

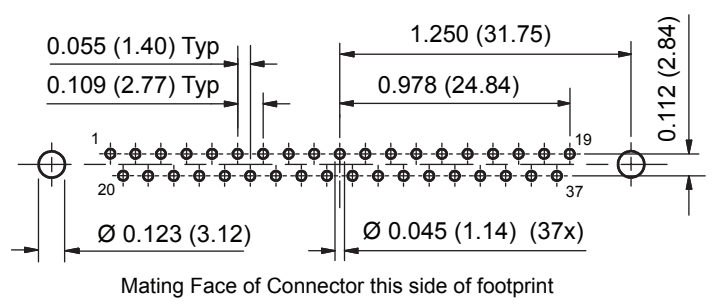
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

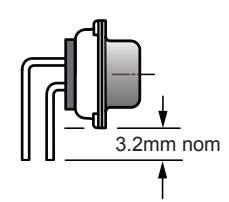


Technical Specification

Connector Type: Gender Securing Method PCB Mounting	37-Pin D-Subminiature Male 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 250VAC
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	3.2mm nom (See diagram)



Effective Leg Length



**PCB Footprint of 37-Pin Right Angle Male Connector
(Connector Side - Not to Scale)**

Product Order Codes

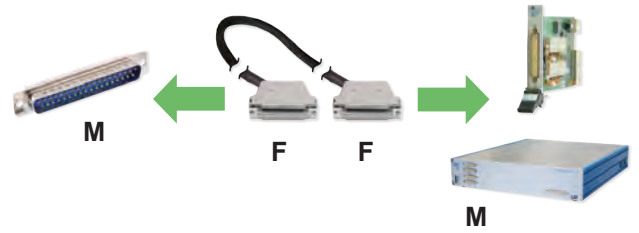
37-Pin D-Type Connector, 5A, Right Angle PCB Mount, Male
40-963-037-RM

Standard Voltage 37-Pin D-Type Connector, Straight PCB Mount - Male

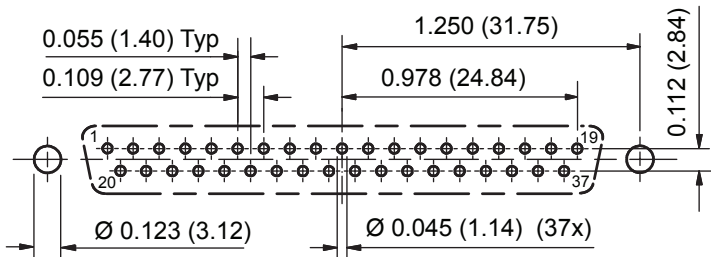
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male

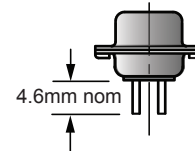


**PCB Footprint of 37-Pin Straight Male Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	37-Pin D-Subminiature Male 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 37-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250VAC Gold plated copper alloy <20mOhm 4.6mm nom (See diagram)

Leg Length



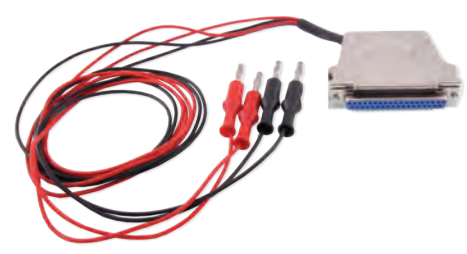
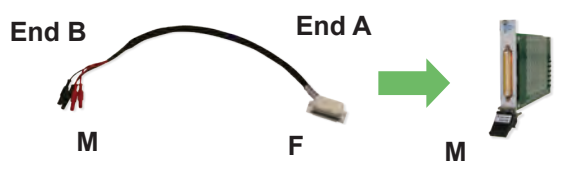
Product Order Codes

37-Pin D-Type Connector, 5A, Straight PCB Mount,
Male

40-963-037-SM

Module Specific Calibration Port Cable - Precision Resistor Modules

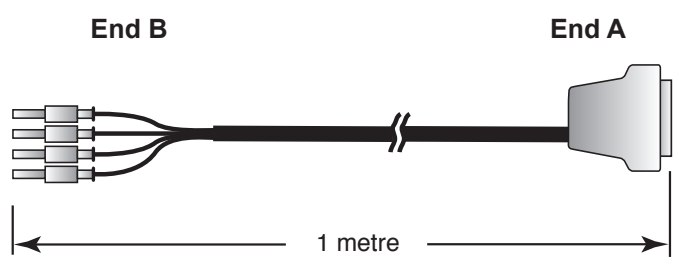
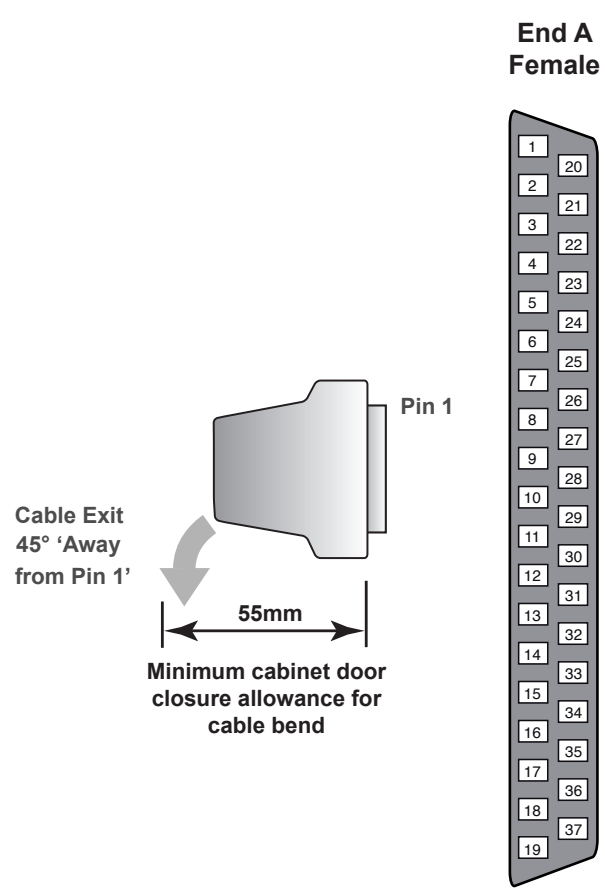
- High Specification Cable
- Stranded Hi-Flex PVC Cable
- Strain Relief
- Braided Sleeving
- Fully Screened Cable Construction



The calibration cable assemblies are specifically designed to connect to the 37-Pin D-Type port located on the front panel of Pickering Interfaces Precision Programmable Resistor Modules 40-293, 40-297, 50-293 and 50-297 enabling calibration via an external DMM.

Technical Specification

Connector Type (End A):	37-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	4 x 4mm DMM Bayonet Plug
Gender	Male
Securing Method	Push fit
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	750V
Insulation Resistance	1000M Ω
Connector (End A):	
Contact Material	Gold plated copper alloy
Contact Resistance	<20m Ω
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H70 x W15.5 x D55mm
Connector (End B):	
Contact Material	Gold plated copper alloy
Contact Resistance	<20m Ω
Overall Size (Approx)	50 x 8.5mm dia
Cable Type:	
Conductor: Material	Tinned copper wire
Strands	259/0.07 (1.0mm ² , 17AWG)
Resistance	-
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	No
Additional Braided Sleeve	Yes
Cable O/D	8mm
Minimum Bend Radius	10mm
Door Closure Allowance	55mm (see diagram)
Notes:	
	• The 2 cable assemblies listed feature different internal wiring although similar externally.
	• Other cable lengths can be supplied.



Product Order Codes

- For Modules 40-293 and 50-293:**
 4 x 4mm DMM Bayonet Plug to 37-Pin D-Type connector, Female **40-975-037-02-1m**
- For Modules 40-297 and 50-297:**
 4 x 4mm DMM Bayonet Plug to 37-Pin D-Type connector, Female **40-975-037-1m**

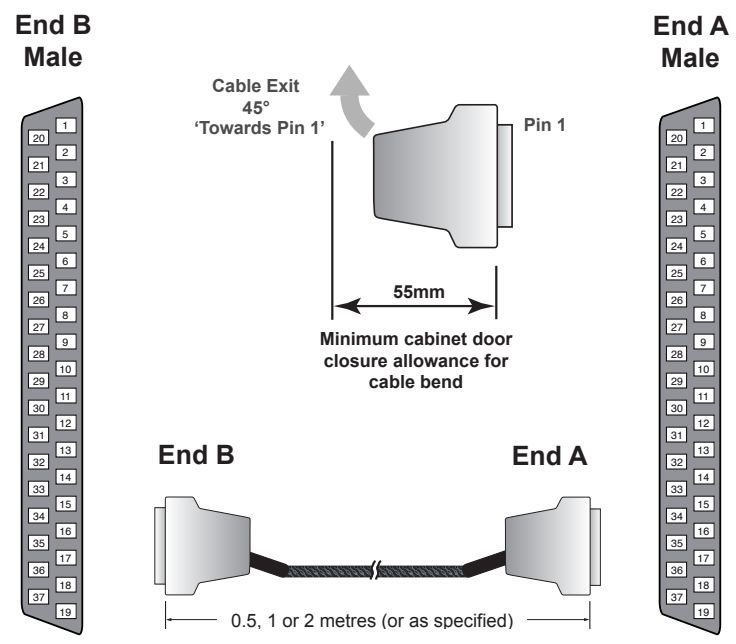
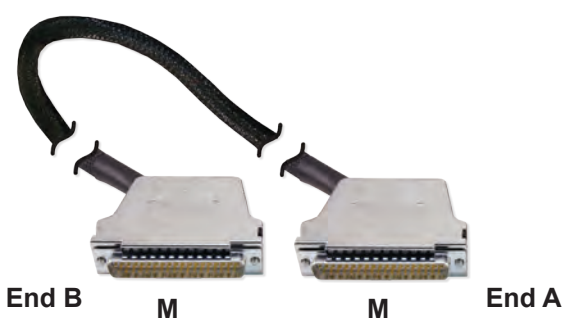
Standard Voltage 37-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Standard Voltage 37-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

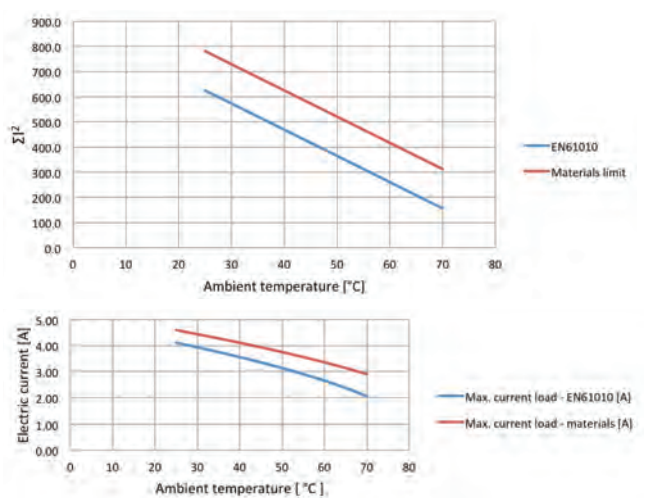
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	37-Pin D-Subminiature Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	37-Pin D-Subminiature Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H70 x W15.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.41mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-037-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

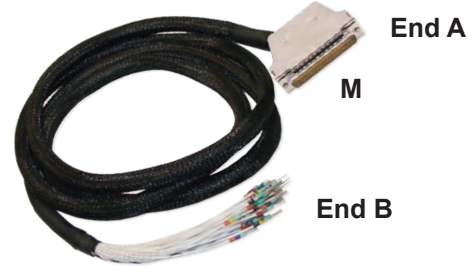
Product Order Codes

- 37-Pin D-Type Cable Assy, 5A, Male to Male,**
- 0.5m Long** 40-970-037-0.5m-MM
 - 1.0m Long** 40-970-037-1m-MM
 - 2.0m Long** 40-970-037-2m-MM

Standard Voltage 37-Pin D-Type Cable Assy - Male to Unterminated

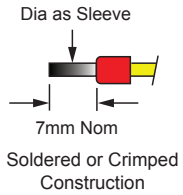
- High Specification and Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

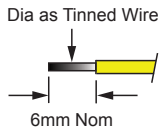


End B Options

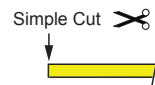
Ferrules



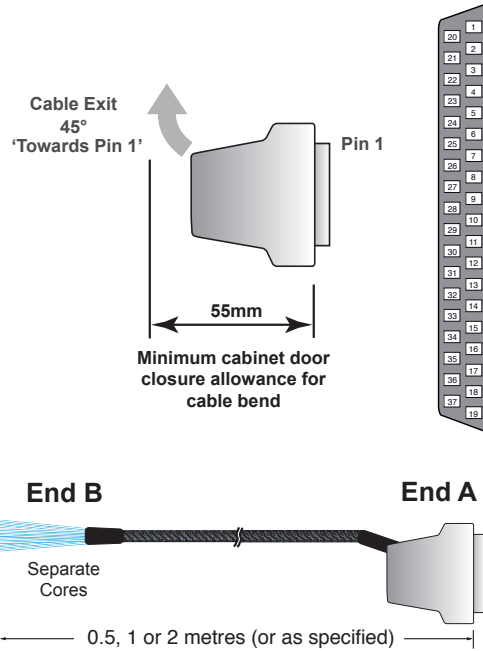
Tinned End



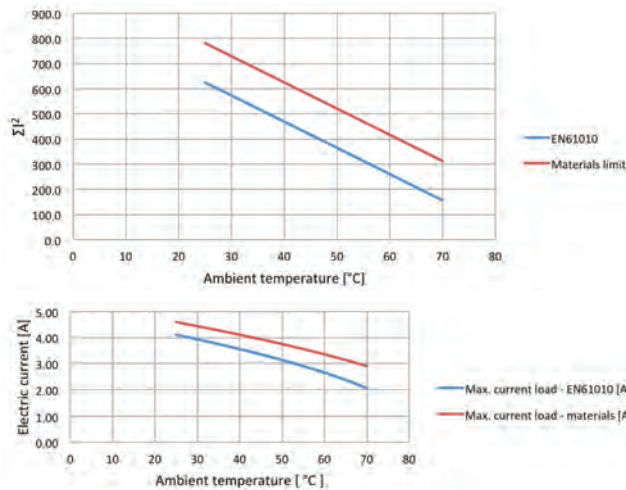
Cut End



End A - Male



Characteristic Plots for 40-972-037-1m



Technical Specification

Connector Type (End A): Gender Securing Method	37-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx) Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	5A 250VAC/400VDC 1000MOhm Gold plated copper alloy <20mOhm 45° (Towards Pin 1) H70 x W15.5 x D55mm Individual wires, screened & sleeved Copper 19/0.18 (0.41mm ² , 21AWG) 0.041Ω/m PFA Polyester Yes Yes 10mm 25mm 55mm (see diagram)

Notes:

- When using this product please ensure appropriate electrical safety precautions are observed.
- Other cable lengths can be supplied.

Product Order Codes

37-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules,

Male to Unterminated, 0.5m Long [40-972-037-0.5m-MU](#)

Male to Unterminated, 1.0m Long [40-972-037-1m-MU](#)

Male to Unterminated, 2.0m Long [40-972-037-2m-MU](#)

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A037DM5*-0A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
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Standard Voltage 37-Pin D-Type Connector Block - Male

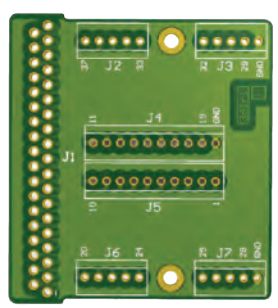
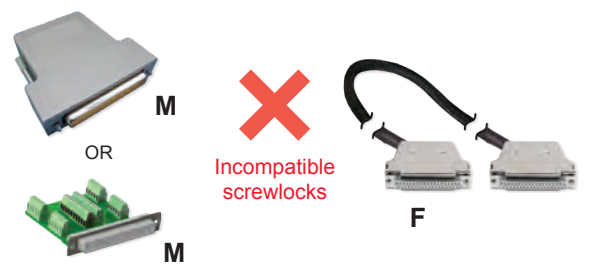
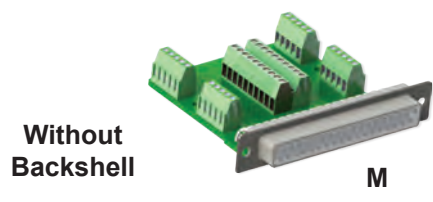
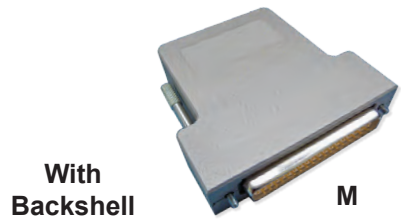
- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

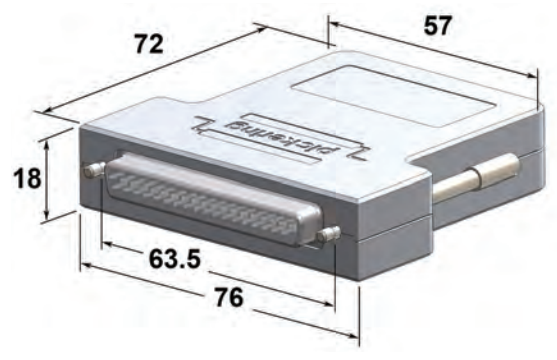
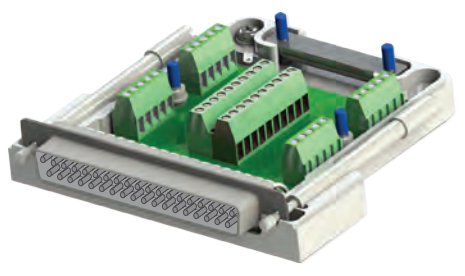
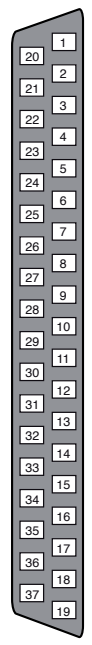
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PFA cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.

This Connector Block is Not Suitable for Connection to a Pickering Switching Product



Male



Technical Specification

Connector Type:	37-Pin D-Subminiature Male
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	5A
Maximum Voltage	200VDC
Cable Exit	Rear - 18 x 24mm
Overall Size (Approx)	H76 x W17.5 x D77mm
37-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

- 37-Pin D-Type Connector Block, 5A, Screw Terminal, With Backshell, Male 40-965-037-M
- Screw Terminal, Without Backshell, Male 92-965-037-M

Standard Voltage 37-Pin D-Type Connector - Male

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

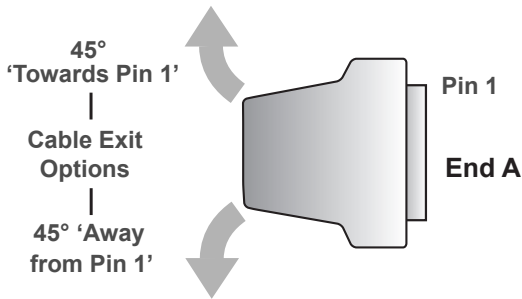
This Connector is Not Suitable for Connection to a Pickering Switching Product



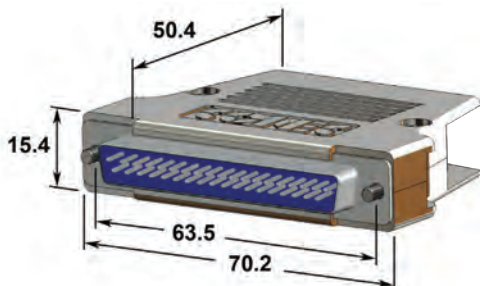
With Backshell M



Internal Solder Connection



Male



Technical Specification

Connector Type:	37-Pin D-Subminiature
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	250VAC
Cable Exit:	45°
Cable Exit Size	13mm dia
Overall Size (Approx)	H70 x W15.5 x D55mm
37-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

37-Pin D-Type Connector, 5A, Solder Bucket,
 With Backshell, Male
 Without Backshell, Male

40-960-037-M
 92-960-037-M

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High Voltage 37-Pin D-type Connector Accessories

- **High Voltage to 750V Working//1000VDC AC Peak Typical, 5A**
- **Mating Connectors**
- **Connector Hoods**
- **Cable Assemblies**
- **Guaranteed Compatibility**
- **37-Pin Standard Voltage Solutions are also Available**
See Section 13



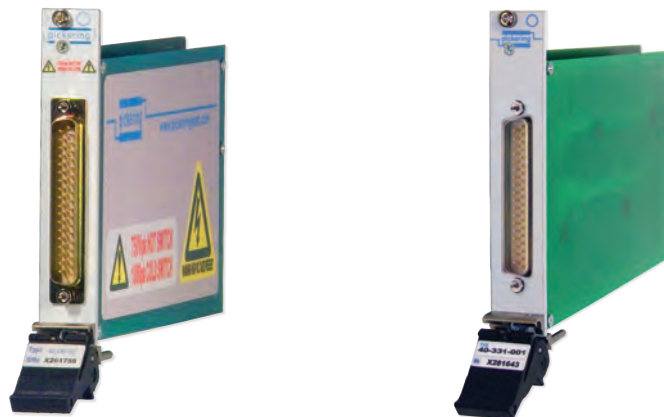
The High Voltage 37-Pin D-Type connector is used on PXI switching products to provide a high voltage connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all High Voltage 37-Pin D-Type Connection Accessories



Cables: High Voltage 37-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-037-0.5m-MF-HV	40-970-037-1m-MF-HV	40-970-037-2m-MF-HV	Yes (Female end)	14.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-037-0.5m-FF-HV	40-970-037-1m-FF-HV	40-970-037-2m-FF-HV	Yes	14.6
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-037-0.5m-MM-HV	40-970-037-1m-MM-HV	40-970-037-2m-MM-HV	No	14.14




Cables: High Voltage 37-Pin D-Type Connector to Unterminated								
End 1		End 2 Unterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-037-0.5m-FU-HV	40-972-037-1m-FU-HV	40-972-037-2m-FU-HV	Yes	14.7	
		Tinned Ends	A037DF4-T-HA050	A037DF4-T-HA100	A037DF4-T-HA200			
		Cut End	A037DF4-C-HA050	A037DF4-C-HA100	A037DF4-C-HA200			
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-037-0.5m-MU-HV	40-972-037-1m-MU-HV	40-972-037-2m-MU-HV	No	14.15	
		Tinned Ends	A037DM5-T-HA050	A037DM5-T-HA100	A037DM5-T-HA200			
		Cut End	A037DM5-C-HA050	A037DM5-C-HA100	A037DM5-C-HA200			



Cable Connectors: High Voltage 37-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Female	45° Options	40-960-037-F-HV	92-960-037-F-HV	Yes	14.8
	Male	45° Options	40-960-037-M-HV	92-960-037-M-HV	No	14.16

PCB Connectors: High Voltage 37-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-037-RF-HV	No	14.9
		Male	N/A	40-963-037-RM-HV		14.11
	Straight PCB Mount	Female	N/A	40-963-037-SF-HV		14.10
		Male	N/A	40-963-037-SM-HV		14.12

Contents - Mating Accessories for Pickering Products



High Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 37-Pin D-Type, 5A, High Voltage 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 14.5
		Female	Female	Page 14.6
	Cable Assy, 37-Pin D-Type to Unterminated, 5A, High Voltage 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 14.7


High Voltage - Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Cable Connector 37-Pin D-Type, 5A, High Voltage, Solder Bucket	With or Without Backshell	Female	Page 14.8
	PCB Connector 37-Pin D-Type, 5A, High Voltage	Right Angle PCB Mount		Page 14.9
		Straight PCB Mount		Page 14.10

High Voltage - Male Breakouts/PCB Connectors				
View	Description	Type	Gender	Page
	PCB Connector 37-Pin D-Type, 5A, High Voltage	Right Angle PCB Mount	Male	Page 14.11
		Straight PCB Mount		Page 14.12

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

High Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 37-Pin D-Type, 5A, High Voltage 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 14.14
	Cable Assy, 37-Pin D-Type to Unterminated, 5A, High Voltage 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 14.15

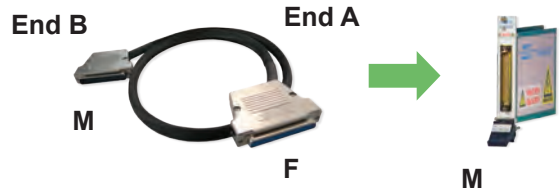
High Voltage - Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Cable Connector 37-Pin D-Type, 5A, High Voltage, Solder Bucket	With or Without Backshell	Male	Page 14.16

Custom Termination

Section 25

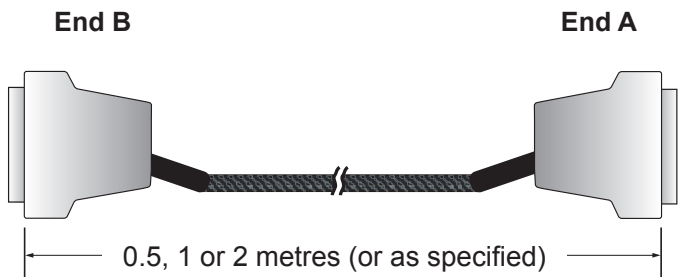
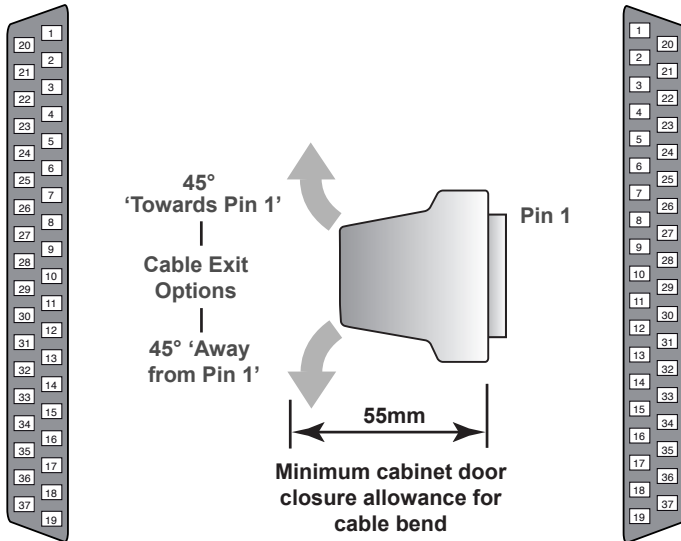
High Voltage 37-Pin D-Type Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



End B
Male

End A
Female



Technical Specification

Connector Type (End A): Gender Securing Method	37-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	37-Pin D-Subminiature, HV Male 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000V DC AC peak typical
Insulation Resistance	1000MΩm
Connectors: Contact Material Contact Resistance	Gold plated copper alloy <20mΩm
Cable Exit: Female Connectors Male Connectors	45° (Away from Pin 1) 45° (Towards Pin 1)
Overall Size (Approx)	H70 x W15.5 x D55mm
Cable Type: Conductor: Material Strands	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.22 mm ² , 24AWG)
Resistance Insulation	1.62mm O/D 0.089Ω/m (max) at 20°C PTFE Type C (BS3G210)
Outer Sleeve Screened Construction Additional Braided Sleeve	Polyester Yes Yes
Cable O/D Minimum Bend Radius Door Closure Allowance	12mm 25mm 55mm (see diagram)
Notes:	Other cable lengths can be supplied.

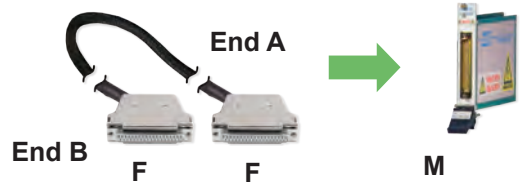
Product Order Codes

37-Pin D-Type Cable Assy, 5A, HV, Male to Female

- 0.5m Long [40-970-037-0.5m-MF-HV](#)
- 1.0m Long [40-970-037-1m-MF-HV](#)
- 2.0m Long [40-970-037-2m-MF-HV](#)

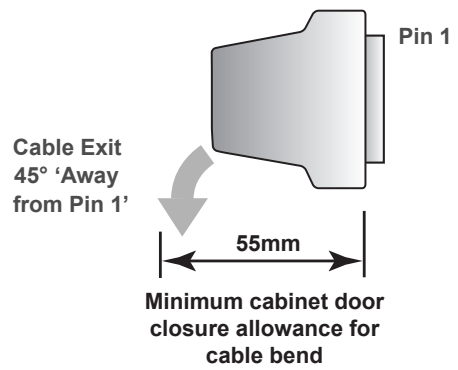
High Voltage 37-Pin D-Type Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Braided Slewing
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



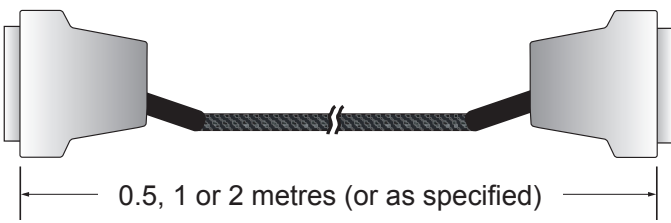
**End B
Female**

**End A
Female**



End B

End A



Technical Specification

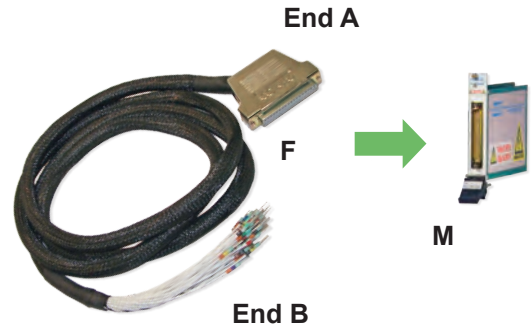
Connector Type (End A): Gender Securing Method	37-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	37-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000V DC AC peak typical
Insulation Resistance	1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (Away from Pin 1) H70 x W15.5 x D55mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.22 mm ² , 24AWG) 1.62mm O/D 0.089Ω/m (max) at 20°C PTFE Type C (BS3G210) Polyester Yes Yes 12mm 25mm 55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

- 37-Pin D-Type Cable Assy, 5A, HV, Female to Female**
- 0.5m Long 40-970-037-0.5m-FF-HV
 - 1.0m Long 40-970-037-1m-FF-HV
 - 2.0m Long 40-970-037-2m-FF-HV

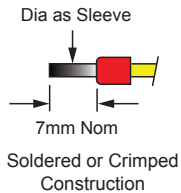
High Voltage 37-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

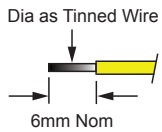


End B Options

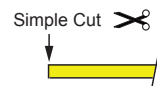
Ferrules



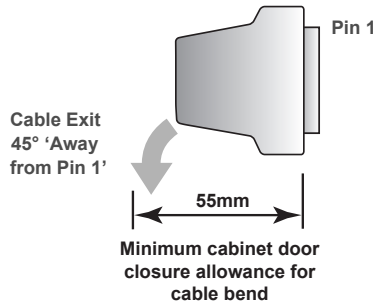
Tinned End



Cut End



End A Female



Technical Specification

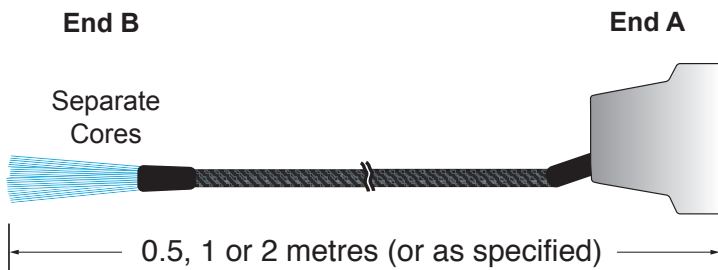
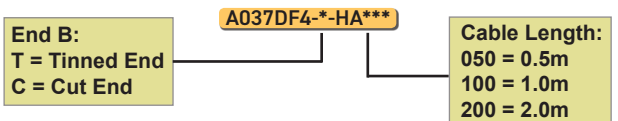
Connector Type (End A): Gender Securing Method	37-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000V DC AC peak typical
Insulation Resistance	1000MOhm
Connector: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H70 x W15.5 x D55mm
Cable Type: Conductor: Material Strands	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.22 mm ² , 24AWG)
Resistance Insulation	1.62mm O/D 0.089Ω/m (max) at 20°C PTFE Type C (BS3G210)
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:
Other cable lengths can be supplied.

Product Order Codes

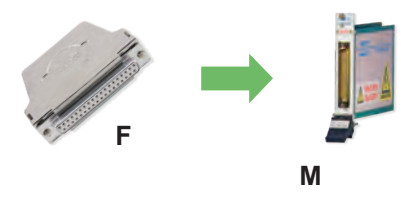
37-Pin D-Type Cable Assy, 5A, HV, Boot Lace Ferrules,
 Female to Unterminated, 0.5m Lg [40-972-037-0.5m-FU-HV](#)
 Female to Unterminated, 1.0m Lg [40-972-037-1m-FU-HV](#)
 Female to Unterminated, 2.0m Lg [40-972-037-2m-FU-HV](#)

Part numbers for other versions:



High Voltage 37-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination



This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

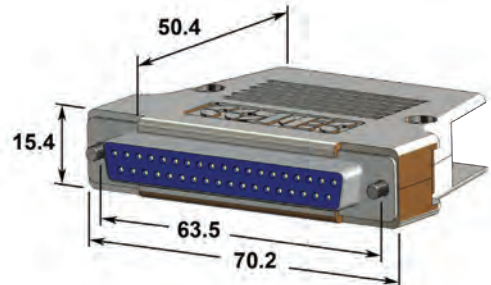
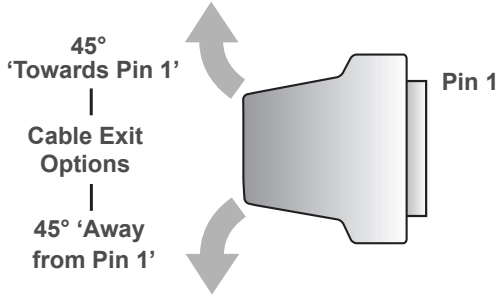
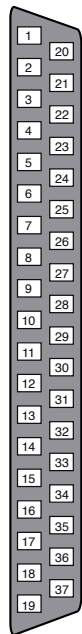


With Backshell



Internal Solder Connection

Female



Technical Specification

Connector Type: Gender	37-Pin D-Subminiature, HV Female
Securing Method: Product with Backshell Product without Backshell	4-40 UNC screwlocks, male 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	5A 1000V DC or AC 45° 12mm dia H70 x W15.5 x D55mm
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
Wire Connection: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Type C Yes (in backshell)

Product Order Codes

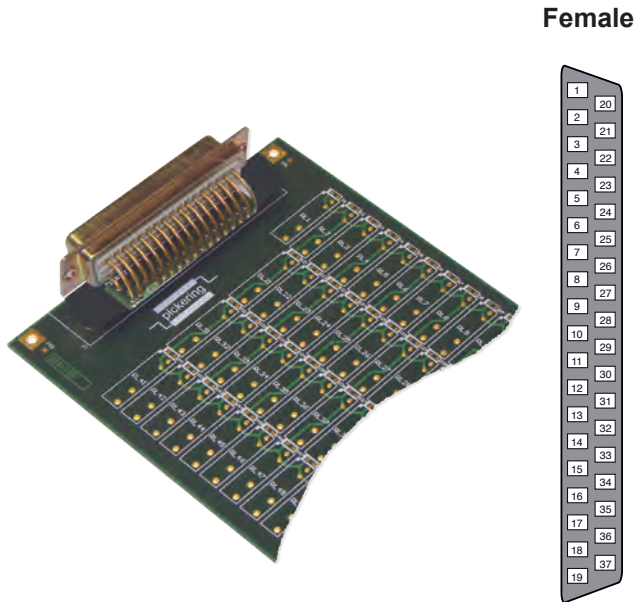
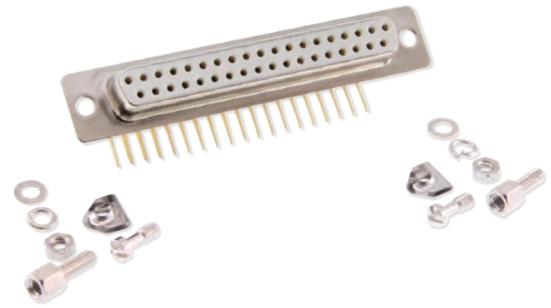
- 37-Pin D-Type Connector, 5A, HV, Solder Bucket**
- With Backshell, Female 40-960-037-F-HV
 - Without Backshell, Female 92-960-037-F-HV

High Voltage 37-Pin D-Type Connector, Right Angle PCB Mount - Female

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

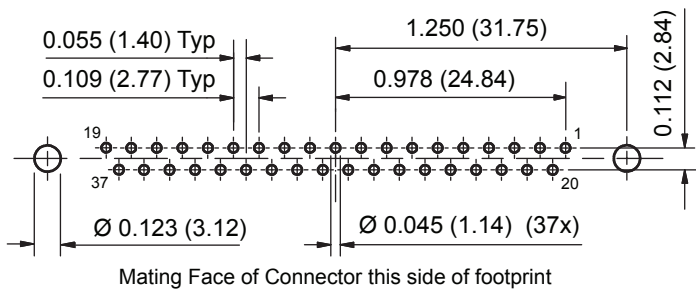
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

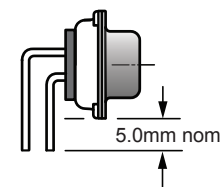


Technical Specification

Connector Type: Gender Securing Method PCB Mounting	37-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 1000V DC or AC
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	5.0mm nom (See diagram)



Effective Leg Length



PCB Footprint of 37-Pin Right Angle Female HV Connector (Connector Side - Not to Scale)

Product Order Codes

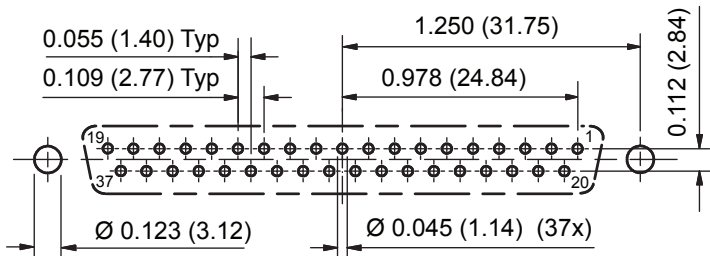
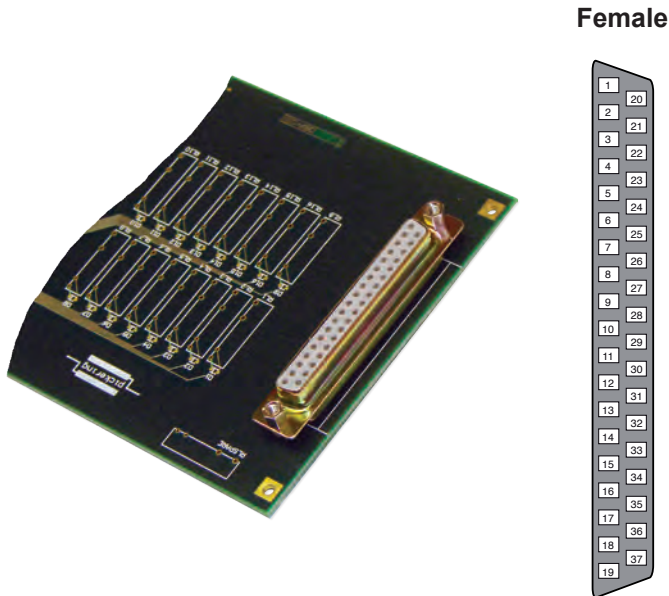
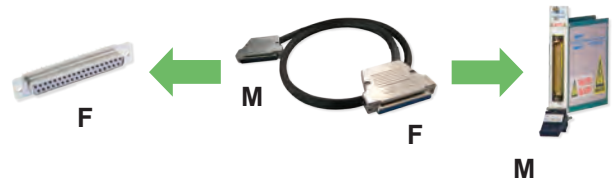
37-Pin D-Type Connector, 5A, HV, Right Angle PCB Mount
Female **40-963-037-RF-HV**

High Voltage 37-Pin D-Type Connector, Straight PCB Mount - Female

- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

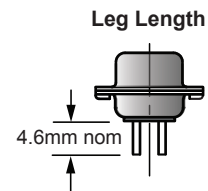
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



**PCB Footprint of 37-Pin Straight Female HV Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	37-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 1000V DC or AC
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Leg Length	4.6mm nom (See diagram)



Product Order Codes

37-Pin D-Type Connector, 5A, Straight PCB Mount
Female

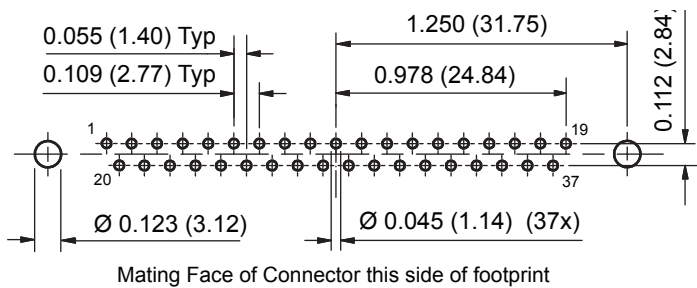
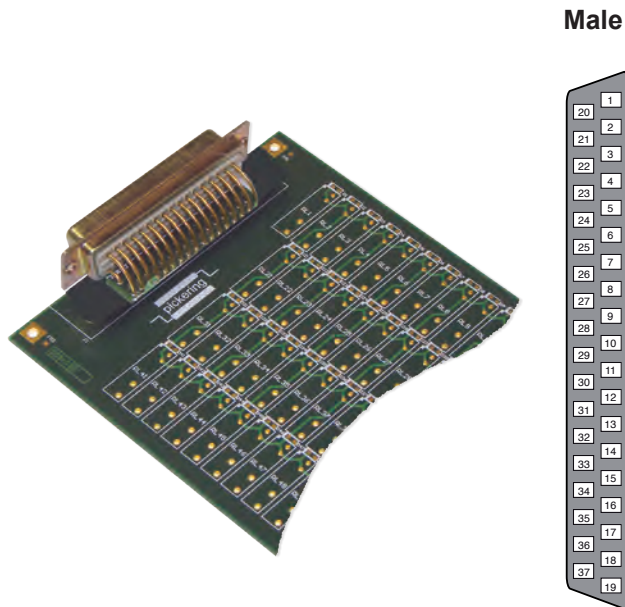
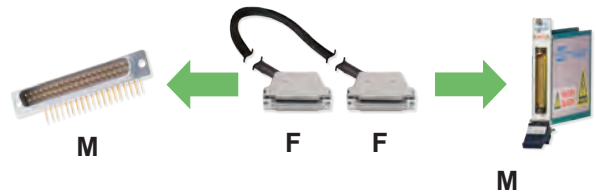
40-963-037-SF-HV

High Voltage 37-Pin D-Type Connector, Right Angle PCB Mount - Male

- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

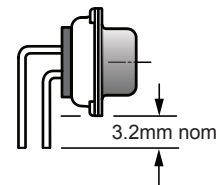


PCB Footprint of 37-Pin Right Angle Male HV Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	37-Pin D-Subminiature, HV Male 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 1000V DC or AC
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	3.2mm nom (See diagram)

Effective Leg Length



Product Order Codes

37-Pin D-Type Connector, 5A, HV, Right Angle PCB Mount
Male

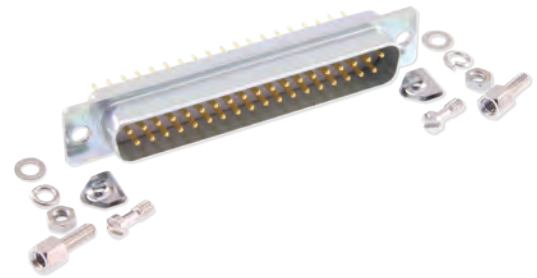
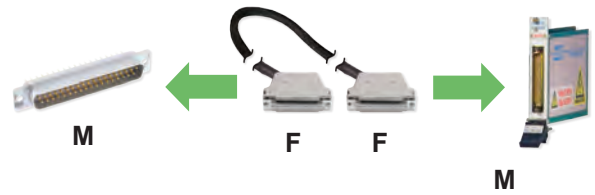
40-963-037-RM-HV

High Voltage 37-Pin D-Type Connector, Straight PCB Mount - Male

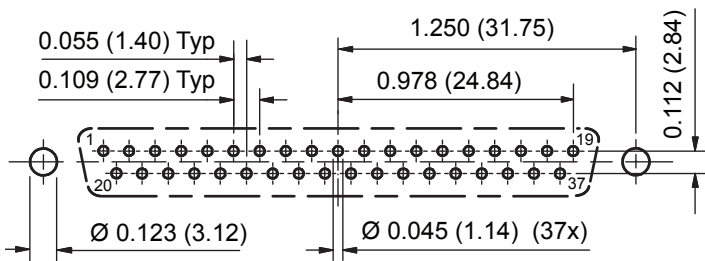
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



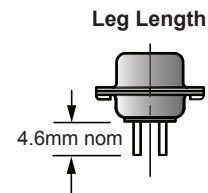
Male



**PCB Footprint of 37-Pin Straight Male HV Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	37-Pin D-Subminiature, HV Male 4-40 UNC screwlocks, female Straight PCB mount
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 1000V DC or AC
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Leg Length	4.6mm nom (See diagram)



Product Order Codes

37-Pin D-Type Connector, 5A, Straight PCB Mount
Male

40-963-037-SM-HV

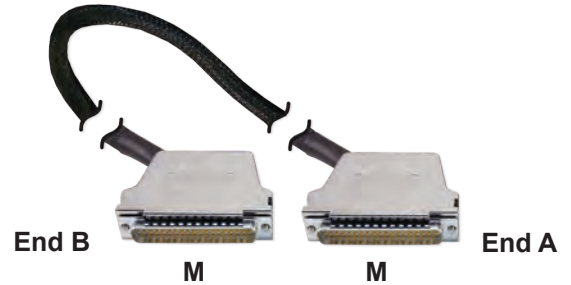
High Voltage 37-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

High Voltage 37-Pin D-Type Cable Assy - Male to Male

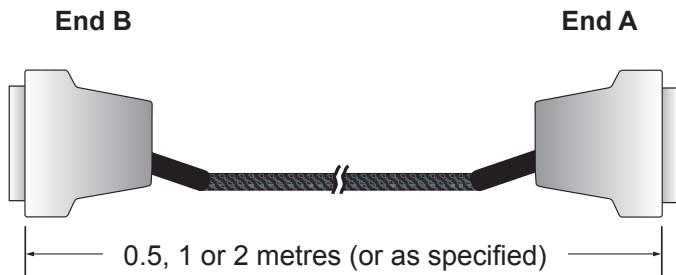
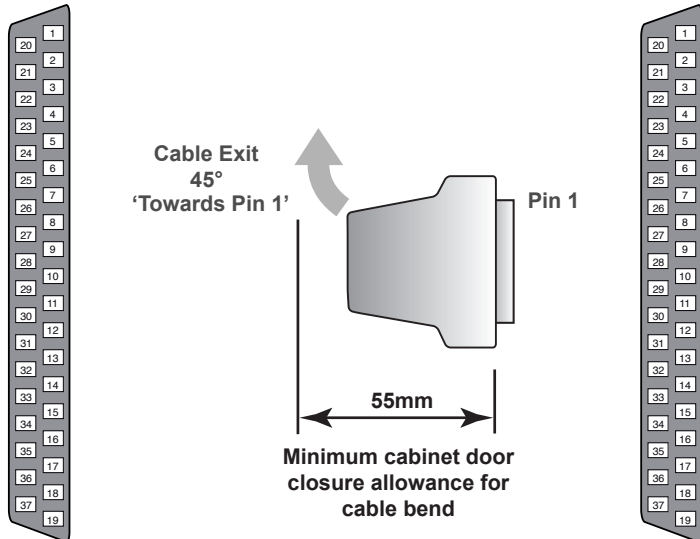
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



**End B
Male**

**End A
Male**



Technical Specification

Connector Type (End A):	37-Pin D-Subminiature, HV Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	37-Pin D-Subminiature, HV Male
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	750V working/1000V DC AC peak typical
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H70 x W15.5 x D55mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	7/0.2 (0.22 mm ² , 24AWG)
	1.62mm O/D
Resistance	0.089Ω/m (max) at 20°C
Insulation	PTFE Type C (BS3G210)
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

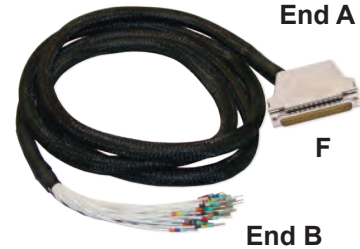
37-Pin D-Type Cable Assy, 5A, HV, Male to Male

- 0.5m Long 40-970-037-0.5m-MM-HV
- 1.0m Long 40-970-037-1m-MM-HV
- 2.0m Long 40-970-037-2m-MM-HV

High Voltage 37-Pin D-Type Cable Assy - Male to Unterminated

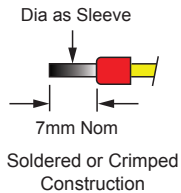
- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

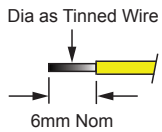


End B Options

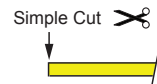
Ferrules



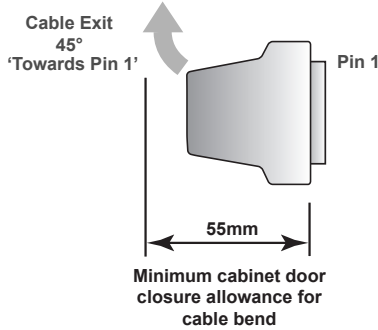
Tinned End



Cut End



End A Male



Technical Specification

Connector Type (End A): Gender Securing Method	37-Pin D-Subminiature, HV Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000V DC AC peak typical
Insulation Resistance	1000MΩ
Connector: Contact Material Contact Resistance	Gold plated copper alloy <20mΩ
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H70 x W15.5 x D55mm
Cable Type: Conductor: Material Strands	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.22 mm ² , 24AWG) 1.62mm O/D
Resistance Insulation	0.089Ω/m (max) at 20°C PTFE Type C (BS3G210)
Outer Sleeve Screened Construction Additional Braided Sleeve	Polyester Yes Yes
Cable O/D	12mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

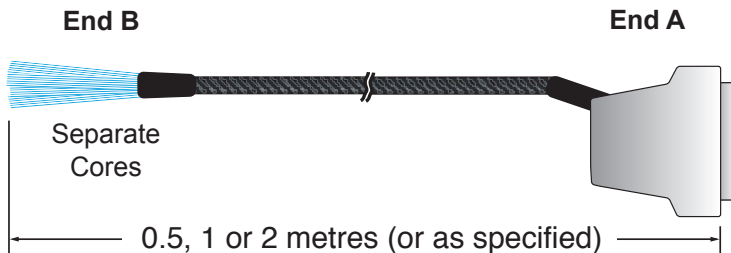
37-Pin D-Type Cable Assy, 5A, HV, Boot Lace Ferrules, Male to Unterminated, 0.5m Lg 40-972-037-0.5m-MU-HV
Male to Unterminated, 1.0m Lg 40-972-037-1m-MU-HV
Male to Unterminated, 2.0m Lg 40-972-037-2m-MU-HV

Part numbers for other versions:

End B:
T = Tinned End
C = Cut End

A037DM5-*-HA***

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m



High Voltage 37-Pin D-Type Connector - Male

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product

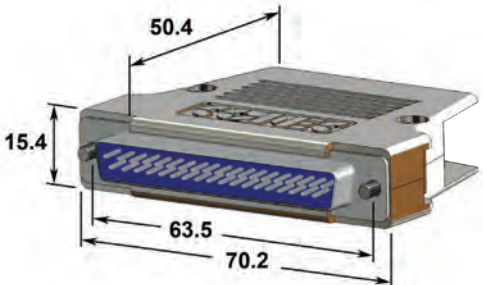
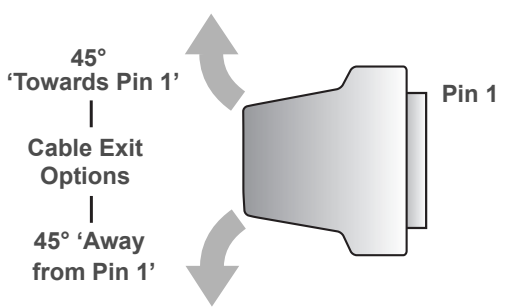
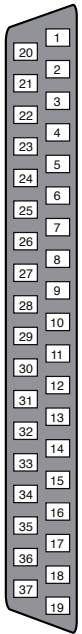


With Backshell M



Internal Solder Connection

Male



Technical Specification

Connector Type: Gender	37-Pin D-Subminiature, HV Male
Securing Method: Product with Backshell Product without Backshell	4-40 UNC screwlocks, male 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	5A 1000V DC or AC 45° 12mm dia H70 x W15.5 x D55mm
37-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
Wire Connection: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PTFE Type C Yes (in backshell)

Product Order Codes

- 37-Pin D-Type Connector, 5A, HV, Solder Bucket
 With Backshell, Male 40-960-037-M-HV
 Without Backshell, Male 92-960-037-M-HV

26-Pin D-type Connector Accessories

- **Standard Voltage to 250V AC/400V, 3A**
- **Mating Connectors**
- **Cable Assemblies**
- **Guaranteed Compatibility**



The Standard Voltage 26-Pin D-Type connector is used on PXI products to provide a medium density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions,

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Appendix - Part Number Listing



Cables: 26-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-026-0.5m-MF	40-970-026-1m-MF	40-970-026-2m-MF	Yes (Female end)	15.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-026-0.5m-FF	40-970-026-1m-FF	40-970-026-2m-FF	Yes	15.6
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-026-0.5m-MM	40-970-026-1m-MM	40-970-026-2m-MM	No	15.14




Cables: 26-Pin D-Type Connector to Untermated								
End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-026-0.5m-FU	40-972-026-1m-FU	40-972-026-2m-FU	Yes	15.7	
		Tinned Ends	A026HF4-T-0A050	A026HF4-T-0A100	A026HF4-T-0A200	Yes		
		Cut End	A026HF4-C-0A050	A026HF4-C-0A100	A026HF4-C-0A200	Yes		
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-026-0.5m-MU	40-972-026-1m-MU	40-972-026-2m-MU	No	15.15	
		Tinned Ends	A026HM5-T-0A050	A026HM5-T-0A100	A026HM5-T-0A200	No		
		Cut End	A026HM5-C-0A050	A026HM5-C-0A100	A026HM5-C-0A200	No		



Cable Connectors: 26-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Female	45° Options	40-960-026-F	92-960-026-F	Yes	15.8
	Male	45° Options	40-960-026-M	92-960-026-M	No	15.16

PCB Connectors: 26-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-026-RF	Via a Cable	15.9
		Male	N/A	40-963-026-RM	Via a Cable	15.11
	Straight PCB Mount	Female	N/A	40-963-026-SF	Via a Cable	15.10
		Male	N/A	40-963-026-SM	Via a Cable	15.12

Contents - Mating Accessories for Pickering Products



Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 26-Pin D-Type, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 15.5
		Female	Female	Page 15.6
	Cable Assy, 26-Pin D-Type to Unterminated, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 15.7


Female Connectors				
View	Description	Type	Gender	Page
	Cable Connector 26-Pin D-Type, 3A, Solder Bucket	With or Without Backshell	Female	Page 15.8
	PCB Connector 26-Pin D-Type, 5A	Right Angle PCB Mount		Page 15.9
	PCB Connector 26-Pin D-Type, 3A	Straight PCB Mount		Page 15.10

Male PCB Connectors				
View	Description	Type	Gender	Page
	PCB Connector 26-Pin D-Type, 5A	Right Angle PCB Mount	Male	Page 15.11
	PCB Connector 26-Pin D-Type, 3A	Straight PCB Mount		Page 15.12

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 26-Pin D-Type, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 15.14
	Cable Assy, 26-Pin D-Type to Unterminated, 3A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 15.15

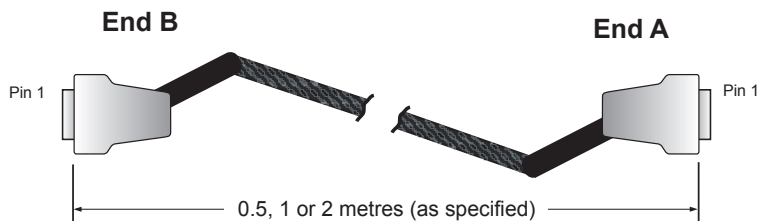
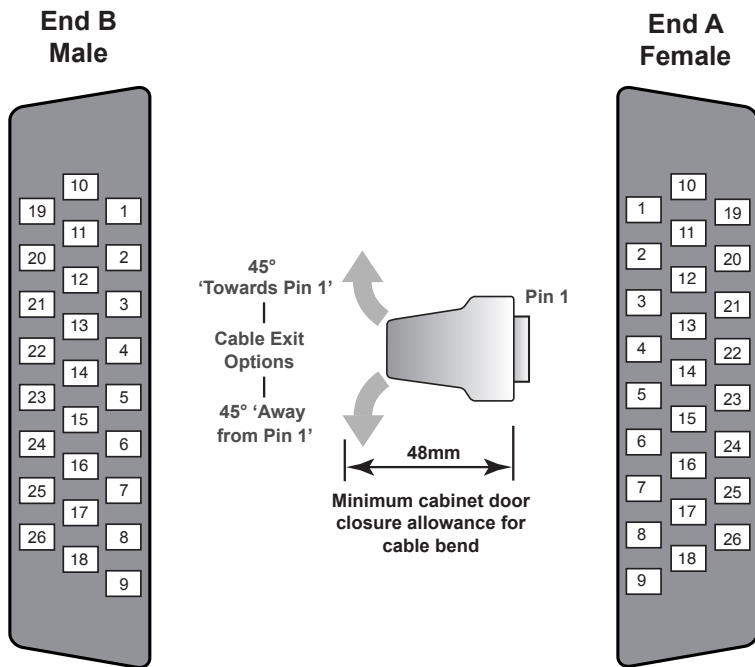
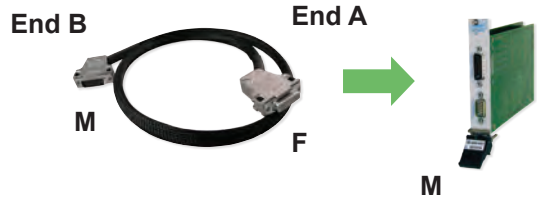
Male Connectors				
View	Description	Type	Gender	Page
	Cable Connector 26-Pin D-Type, 3A, Solder Bucket	With or Without Backshell	Male	Page 15.16

Custom Termination

Section 25

26-Pin D-Type Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A):	26-Pin D-Subminiature, High density
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	26-Pin D-Subminiature, High density
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Overall Size (Approx)	H40 x W15 x D48mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	48mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

26-Pin D-Type Cable Assy, 3A, Male to Female,

0.5m Long

[40-970-026-0.5m-MF](#)

1.0m Long

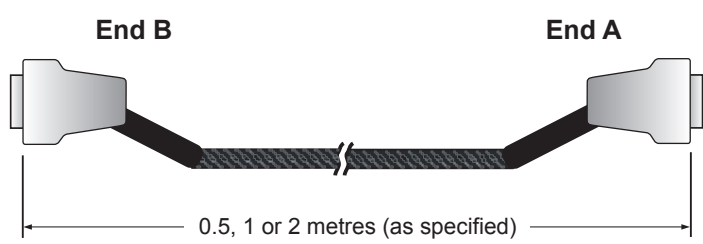
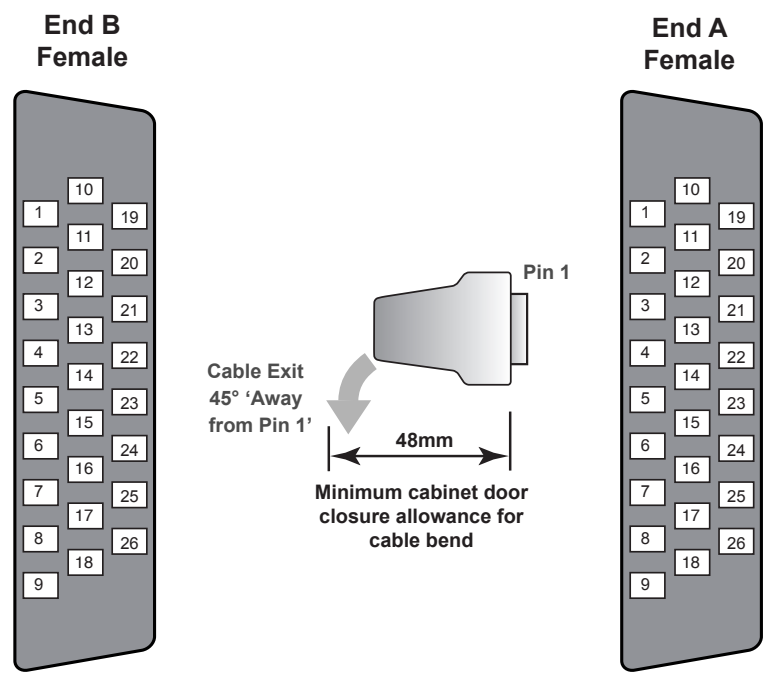
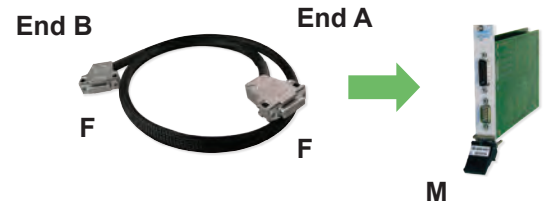
[40-970-026-1m-MF](#)

2.0m Long

[40-970-026-2m-MF](#)

26-Pin D-Type Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Braided Slewing
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

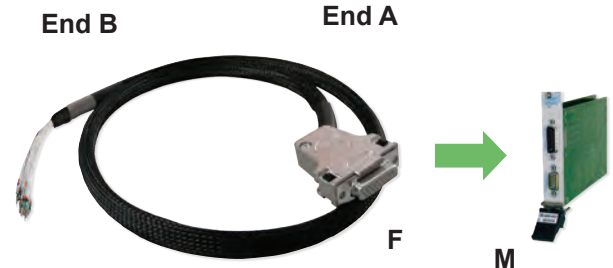
Connector Type (End A):	26-Pin D-Subminiature, High density
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	26-Pin D-Subminiature, High density
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mΩ
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H40 x W15 x D48mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	48mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

26-Pin D-Type Cable Assy, 3A, Female to Female,	
0.5m Long	40-970-026-0.5m-FF
1.0m Long	40-970-026-1m-FF
2.0m Long	40-970-026-2m-FF

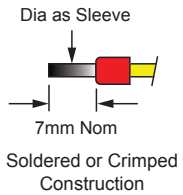
26-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

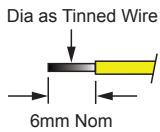


End B Options

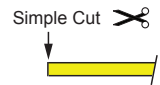
Ferrules



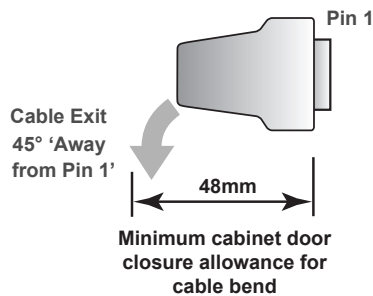
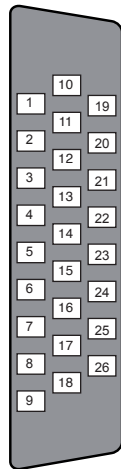
Tinned End



Cut End

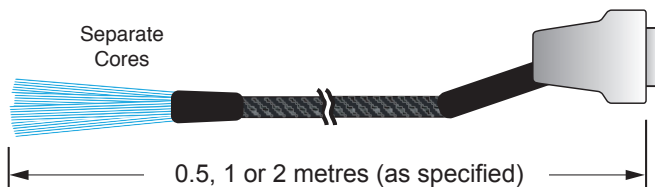


End A Female



End B

End A



Technical Specification

Connector Type (End A):	26-Pin D-Subminiature, High density Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	130mm nominal To connector pins Ferrules, Tinned, Cut End
Free Wire Length	
Individual Wire Labelling	
Wire End Options	
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H40 x W15 x D48mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	48mm (see diagram)
Notes:	
	• Please ensure appropriate electrical safety precautions are observed when using this product.
	• Other cable lengths can be supplied.

Product Order Codes

- 26-Pin D-Type Cable Assy, 3A, Boot Lace Ferrules, Female to Unterminated, 0.5m Long [40-972-026-0.5m-FU](#)
 Female to Unterminated, 1.0m Long [40-972-026-1m-FU](#)
 Female to Unterminated, 2.0m Long [40-972-026-2m-FU](#)

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A026HF4-*0A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
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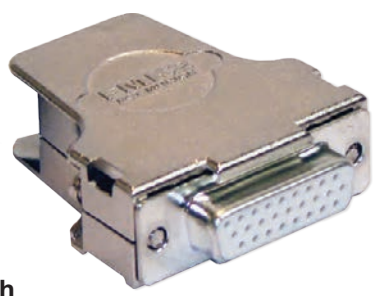
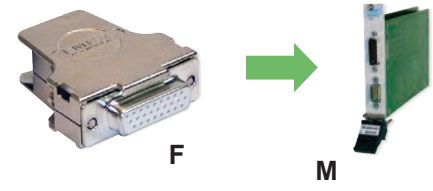
26-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

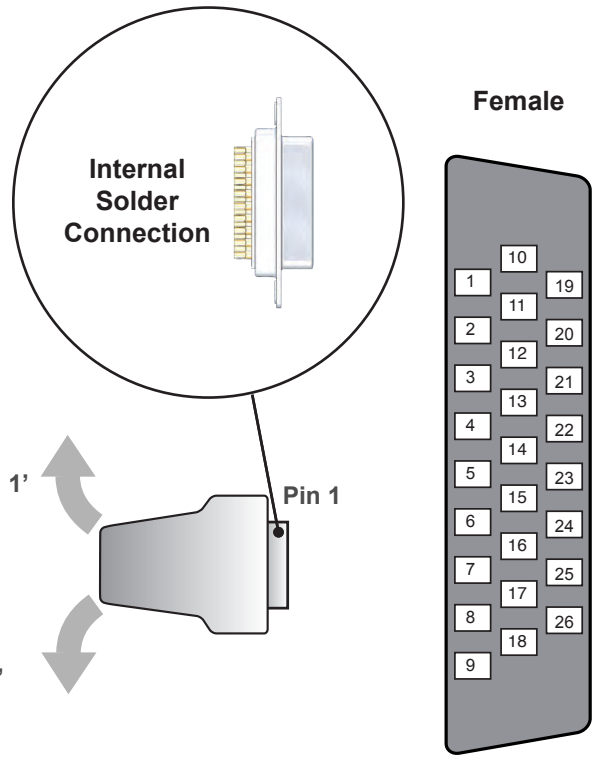
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell



Technical Specification

Connector Type:	26-Pin D-Subminiature, High density Female
Gender	Female
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	3A
Maximum Voltage	250V AC
Cable Exit:	45°
Cable Exit Size	10mm dia
Overall Size (Approx)	H40 x W15 x D48mm
26-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	26AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

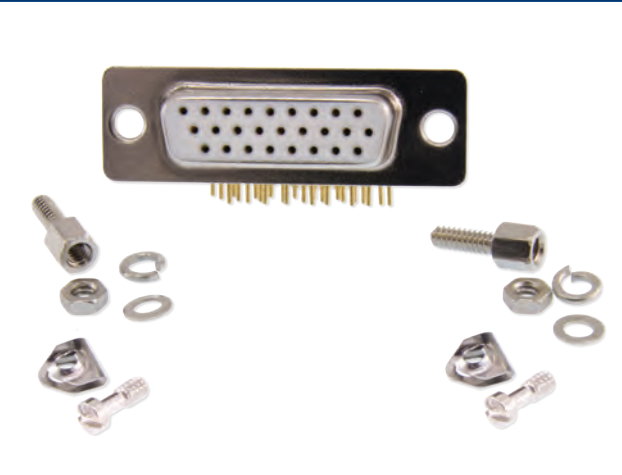
26-Pin D-Type Connector, 3A, Solder Bucket,
 With Backshell, Female **40-960-026-F**
 Without Backshell, Female **92-960-026-F**

26-Pin D-Type Connector, Right Angle PCB Mount - Female

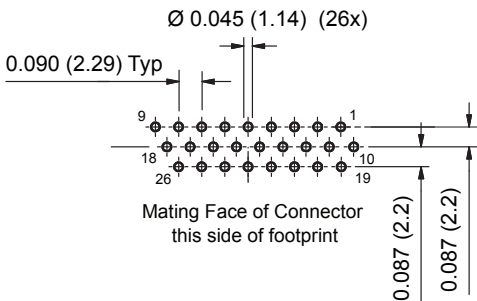
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

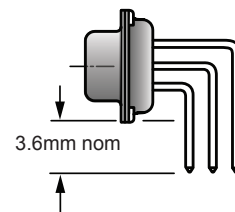


PCB Footprint of 26-Pin Right Angle Female Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	26-Pin D-Subminiature, High density
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	5A each pin
Maximum Voltage	500V max
26-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	3.6mm nom (See diagram)

Effective Leg Length



Product Order Codes

26-Pin D-Type Connector, 5A, Right Angle PCB Mount
Female

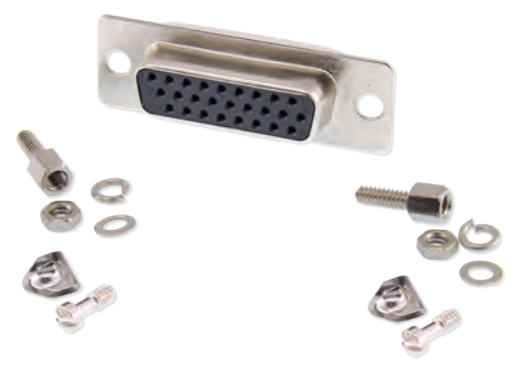
40-963-026-RF

26-Pin D-Type Connector, Straight PCB Mount - Female

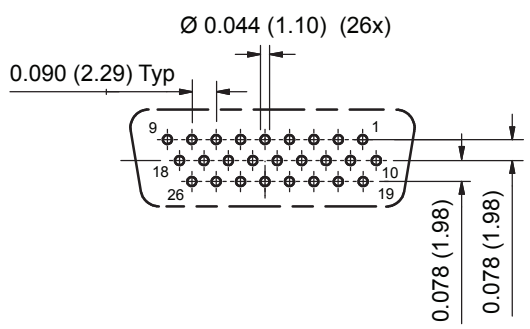
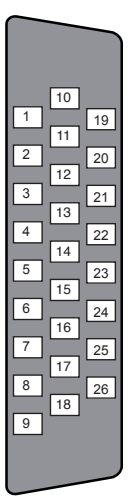
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



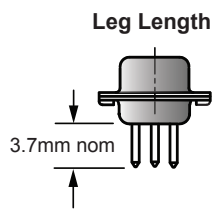
Female



**PCB Footprint of 26-Pin Straight Female Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type:	26-Pin D-Subminiature, High density
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	500V max
26-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	3.7mm nom (See diagram)



Product Order Codes

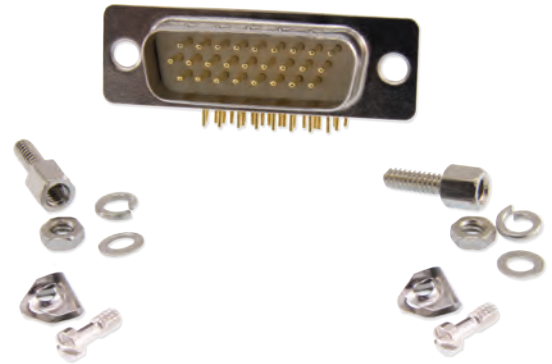
26-Pin D-Type Connector, 3A, Straight PCB Mount
Female **40-963-026-SF**

26-Pin D-Type Connector, Right Angle PCB Mount - Male

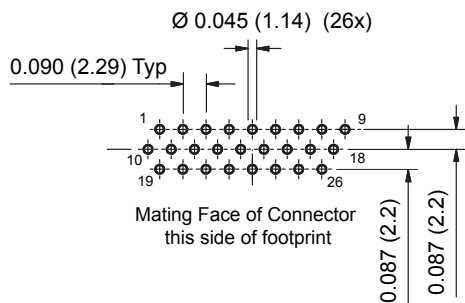
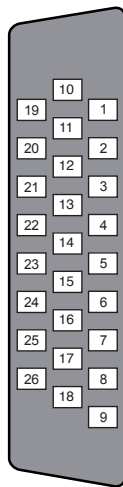
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male

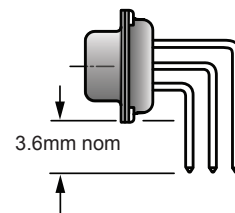


PCB Footprint of 26-Pin Right Angle Male Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	26-Pin D-Subminiature, High density
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	5A each pin
Maximum Voltage	500V max
26-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	3.6mm nom (See diagram)

Effective Leg Length



Product Order Codes

26-Pin D-Type Connector, 5A, Right Angle PCB Mount
Male

40-963-026-RM

26-Pin D-Type Connector, Straight PCB Mount - Male

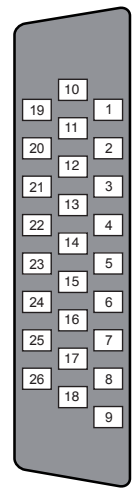
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

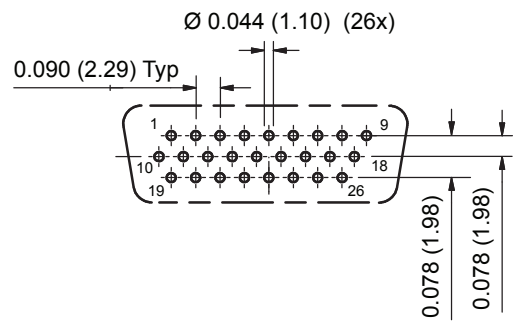


Male

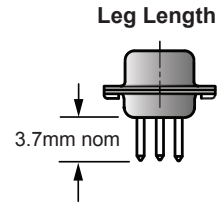


Technical Specification

Connector Type:	26-Pin D-Subminiature, High density
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	3A each pin
Maximum Voltage	500V Max
26-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	3.7mm nom (See diagram)



PCB Footprint of 26-Pin Straight Male Connector (Connector Side - Not to Scale)



Product Order Codes

26-Pin D-Type Connector, 3A, Straight PCB Mount
Male 40-963-026-SM

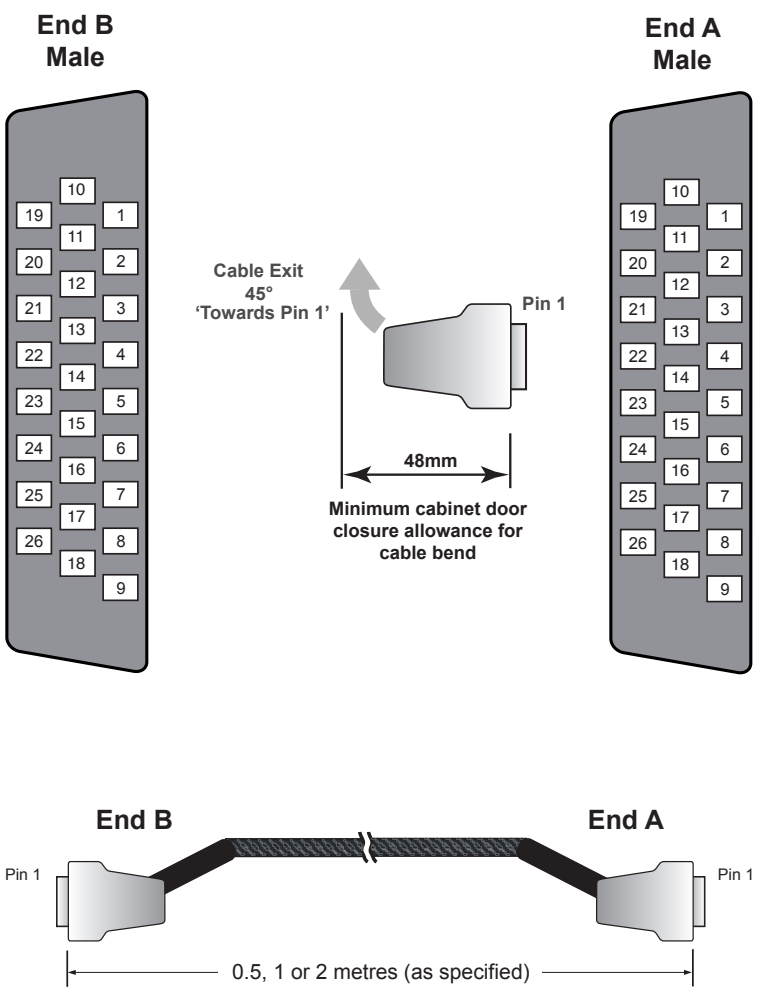
26-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

26-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	26-Pin D-Subminiature, High density
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	26-Pin D-Subminiature, High density
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H40 x W15 x D48mm
Cable Type:	
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	48mm (see diagram)
Notes:	
	Other cable lengths can be supplied.

Product Order Codes

- 26-Pin D-Type Cable Assy, 3A, Male to Male,**
- 0.5m Long [40-970-026-0.5m-MM](#)
 - 1.0m Long [40-970-026-1m-MM](#)
 - 2.0m Long [40-970-026-2m-MM](#)

26-Pin D-Type Cable Assy - Male to Unterminated

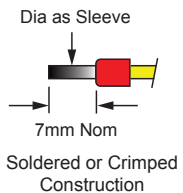
- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

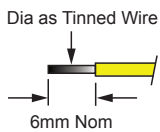


End B Options

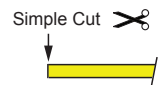
Ferrules



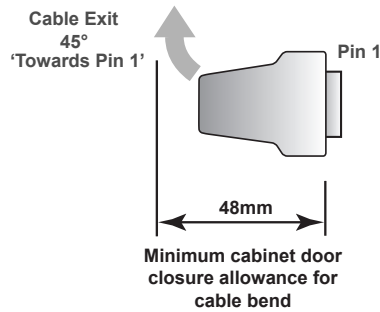
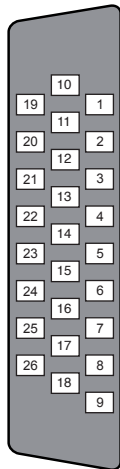
Tinned End



Cut End



End A Male



Technical Specification

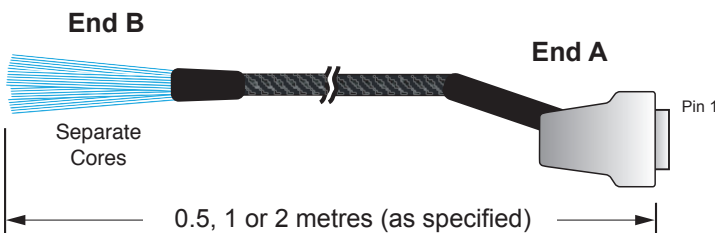
Connector Type (End A):	26-Pin D-Subminiature, High density
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	130mm nominal
Free Wire Length	To connector pins
Individual Wire Labelling	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	3A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H40 x W15 x D48mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	7/0.15 (0.124mm ² , 26AWG)
Resistance	0.137Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	48mm (see diagram)
Notes:	
	• Please ensure appropriate electrical safety precautions are observed when using this product.
	• Other cable lengths can be supplied.

Product Order Codes

- 26-Pin D-Type Cable Assy, 3A, Boot Lace Ferrules, Male to Unterminated, 0.5m Long **40-972-026-0.5m-MU**
 Male to Unterminated, 1.0m Long **40-972-026-1m-MU**
 Male to Unterminated, 2.0m Long **40-972-026-2m-MU**

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A026HM5-*-0A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
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26-Pin D-Type Connector - Male

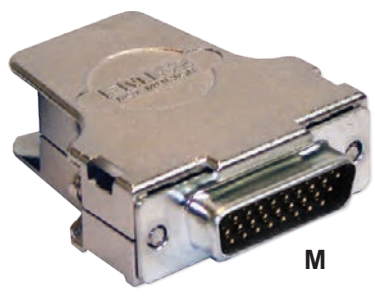
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

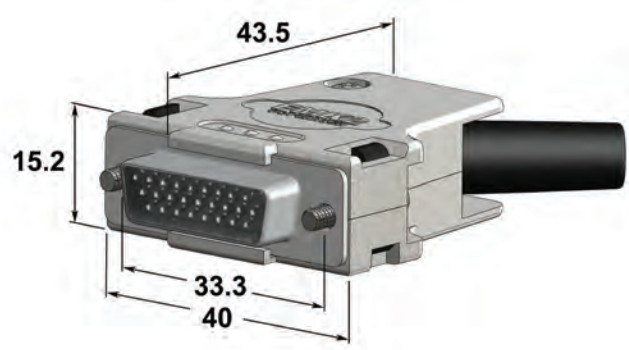
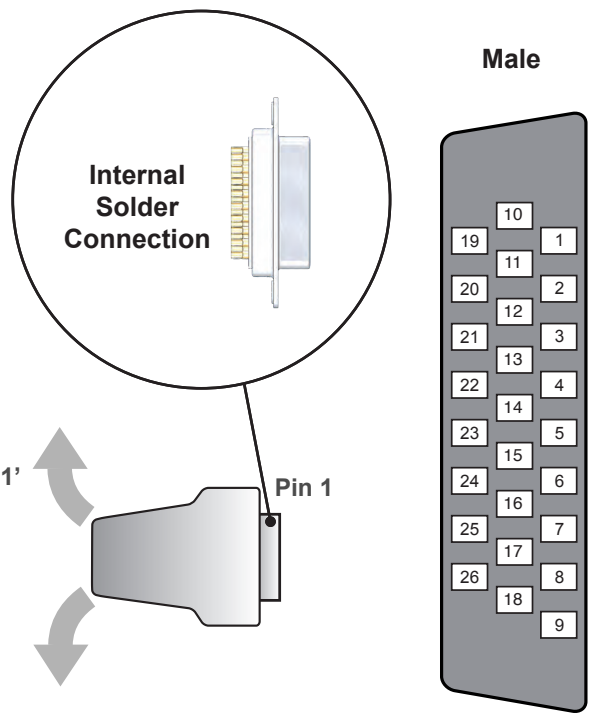
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



With Backshell



Technical Specification

Connector Type:	26-Pin D-Subminiature, High density Male
Gender	Male
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	Maximum Current: 3A Maximum Voltage: 250V AC
Cable Exit:	45° (Towards Pin 1)
Cable Exit Size	10mm dia
Overall Size (Approx)	H40 x W15 x D48mm
26-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	26AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

26-Pin D-Type Connector, 3A, Solder Bucket,
 With Backshell, Male 40-960-026-M
 Without Backshell, Male 92-960-026-M

25-Pin D-type Connector Accessories

- **Standard Voltage to 250V AC/400V, 5A**
- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**



The Standard Voltage 25-Pin D-Type connector is used on PXI and LXI switching products to provide a medium density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 25-Pin D-Type Connection Accessories



Cables: 25-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-025-0.5m-MF	40-970-025-1m-MF	40-970-025-2m-MF	Yes (Female end)	16.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-025-0.5m-FF	40-970-025-1m-FF	40-970-025-2m-FF	Yes	16.6
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-025-0.5m-MM	40-970-025-1m-MM	40-970-025-2m-MM	No	16.15




Cables: 25-Pin D-Type Connector to Underterminated								
End 1		End 2 Underterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-025-0.5m-FU	40-972-025-1m-FU	40-972-025-2m-FU	Yes	16.7	
		Tinned Ends	A025DF4-T-0A050	A025DF4-T-0A100	A025DF4-T-0A200	Yes		
		Cut End	A025DF4-C-0A050	A025DF4-C-0A100	A025DF4-C-0A200	Yes		
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-025-0.5m-MU	40-972-025-1m-MU	40-972-025-2m-MU	No	16.16	
		Tinned Ends	A025DM5-T-0A050	A025DM5-T-0A100	A025DM5-T-0A200	No		
		Cut End	A025DM5-C-0A050	A025DM5-C-0A100	A025DM5-C-0A200	No		


Connector Blocks and Cable Connectors: 25-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Connector Block	Female	Rear	40-965-025-F	92-965-025-F	Yes	16.8
	Male		40-965-025-M	92-965-025-M	No	16.17
Cable Connector	Female	45° Options	40-960-025-F	92-960-025-F	Yes	16.9
	Male	45° Options	40-960-025-M	92-960-025-M	No	16.18

Breakouts and PCB Connectors: 25-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-025-RF	No	16.10
		Male	N/A	40-963-025-RM	No	16.12
	Straight PCB Mount	Female	N/A	40-963-025-SF	No	16.11
		Male	N/A	40-963-025-SM	No	16.13

Contents - Mating Accessories For Pickering Products



Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 25-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 16.5
		Female	Female	Page 16.6
	Cable Assy, 25-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 16.7



Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Shielded Connector Block, 25-Pin D-Type, 5A, Screw Terminal.	With or Without Backshell	Female	Page 16.8
	Cable Connector 25-Pin D-Type, 5A, Solder Bucket	With or Without Backshell		Page 16.9
	PCB Connector 25-Pin D-Type, 5A	Right Angle PCB Mount		Page 16.10
		Straight PCB Mount		Page 16.11

Male Breakouts/PCB Connectors				
View	Description	Type	Gender	Page
	PCB Connector 25-Pin D-Type, 5A	Right Angle PCB Mount	Male	Page 16.12
		Straight PCB Mount		Page 16.13

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

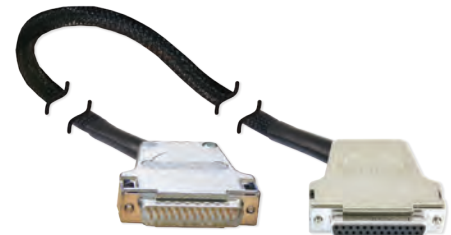
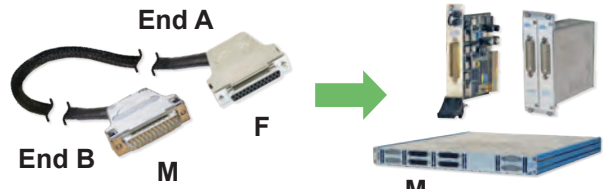
Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 25-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 16.15
	Cable Assy, 25-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 16.16

Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Connector Block, 25-Pin D-Type, 5A, Screw Terminal.	With or Without Backshell	Male	Page 16.17
	Cable Connector 25-Pin D-Type, 5A, Solder Bucket	With or Without Backshell		Page 16.18

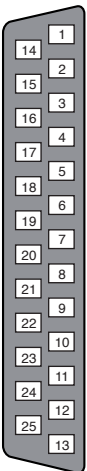
Custom Termination Section 25

25-Pin D-Type Cable Assy - Male to Female

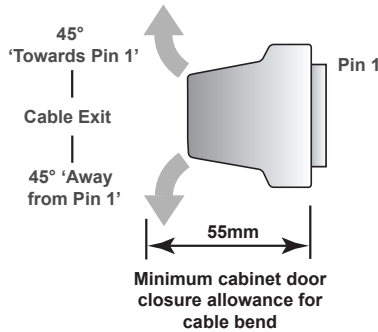
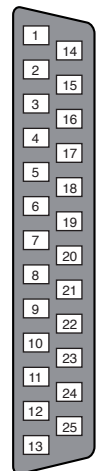
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



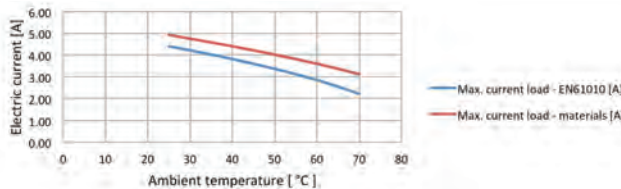
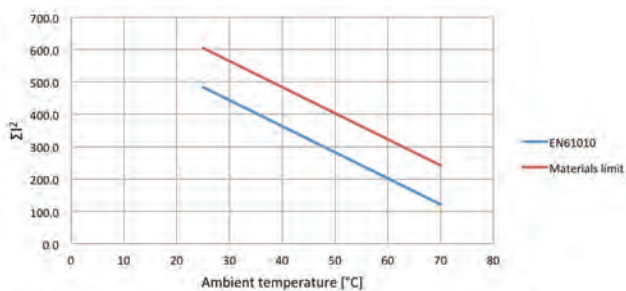
End B
Male



End A
Female



Characteristic Plots for 40-970-025-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	25-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	25-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000M Ω m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20m Ω m
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H54 x W15.5 x D52mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.410mm ² , 21AWG)
Resistance	0.041 Ω /m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

25-Pin D-Type Cable Assy, 5A, Male to Female,

0.5m Long

40-970-025-0.5m-MF

1.0m Long

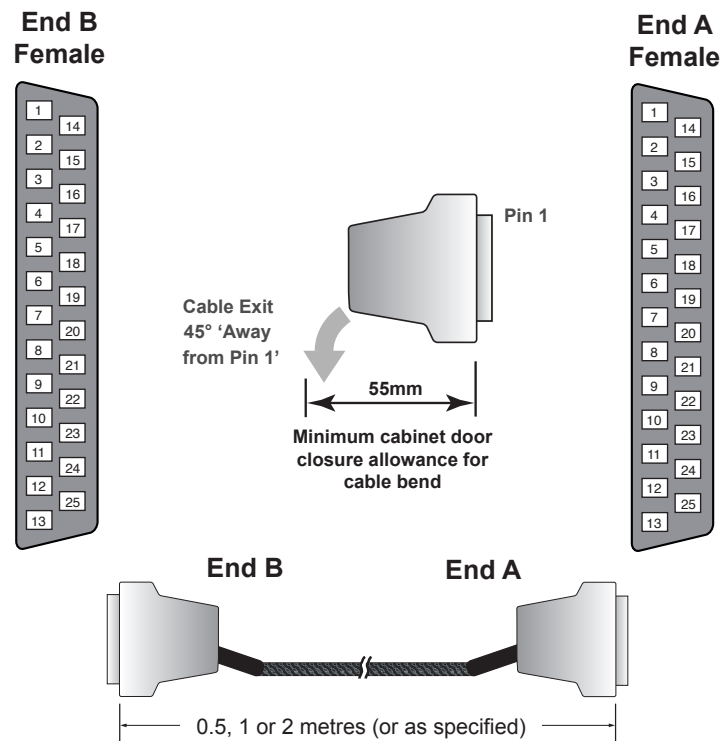
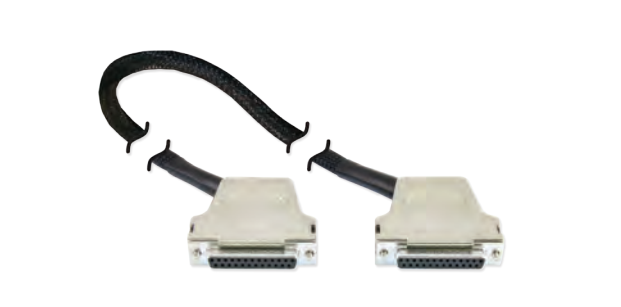
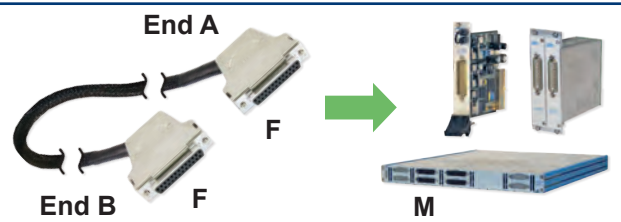
40-970-025-1m-MF

2.0m Long

40-970-025-2m-MF

25-Pin D-Type Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Braided Slewing
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

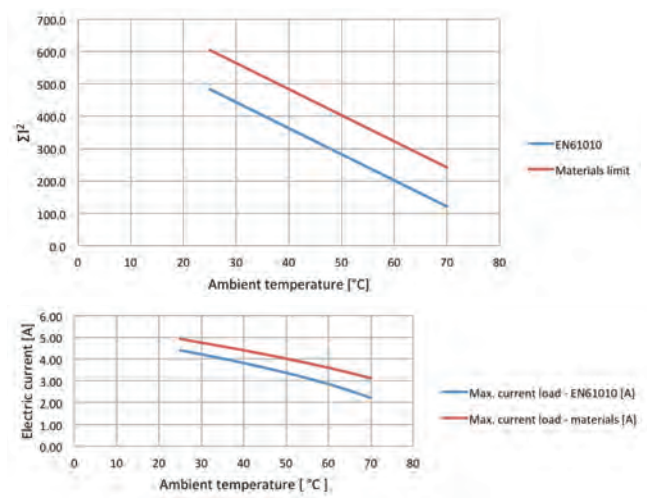


Technical Specification

Connector Type (End A): Gender Securing Method	25-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	25-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (Away from Pin 1) H54 x W15.5 x D52mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 19/0.18 (0.410mm ² , 21AWG) 0.041Ω/m PFA Polyester Yes Yes 10mm 25mm 55mm (see diagram)

Notes:
Other cable lengths can be supplied.

Characteristic Plots for 40-970-025-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

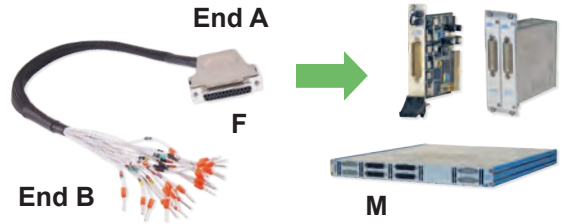
The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 25-Pin D-Type Cable Assy, 5A, Female to Female,**
- 0.5m Long 40-970-025-0.5m-FF
 - 1.0m Long 40-970-025-1m-FF
 - 2.0m Long 40-970-025-2m-FF

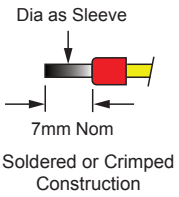
25-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

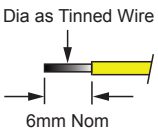


End B Options

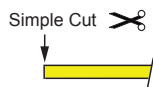
Ferrules



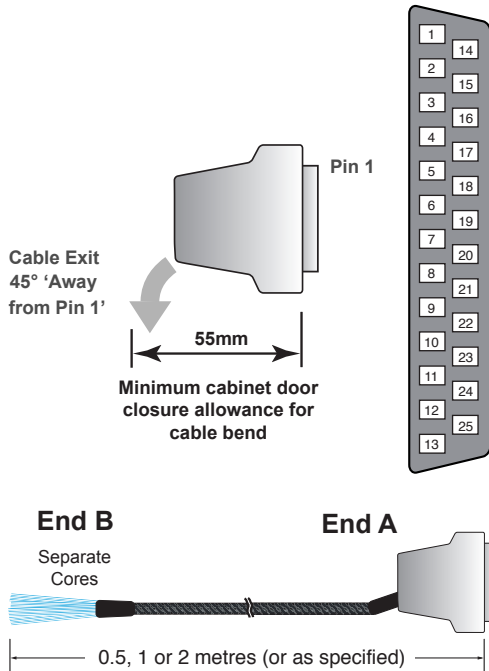
Tinned End



Cut End



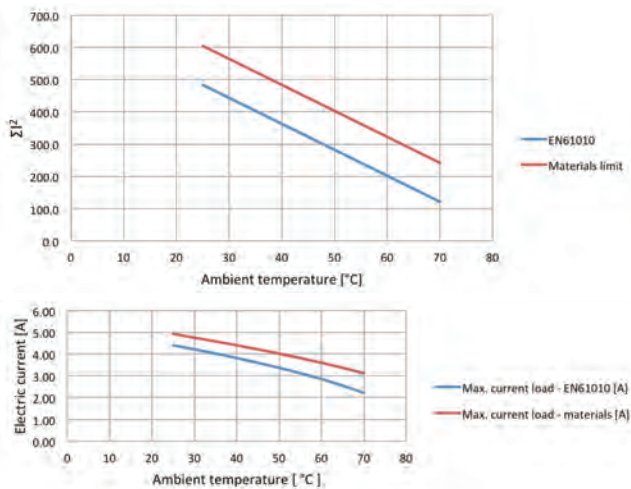
End A - Female



Technical Specification

Connector Type (End A): Gender Securing Method	25-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MΩ
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩ 45° (Away from Pin 1) H54 x W15.5 x D52mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 19/0.18 (0.410mm ² , 21AWG) 0.041Ω/m PFA Polyester Yes Yes 10mm 25mm 55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-972-025-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 25-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules,
Female to Unterminated, 0.5m Long 40-972-025-0.5m-FU
Female to Unterminated, 1.0m Long 40-972-025-1m-FU
Female to Unterminated, 2.0m Long 40-972-025-2m-FU

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A025DF4-**-0A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
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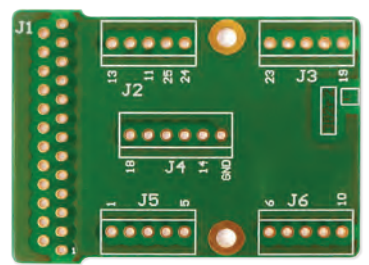
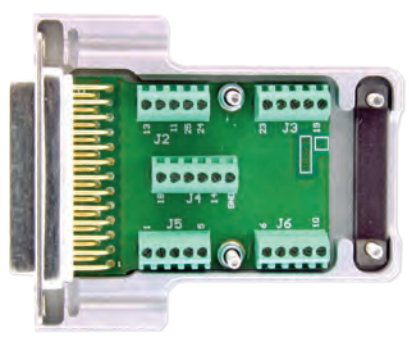
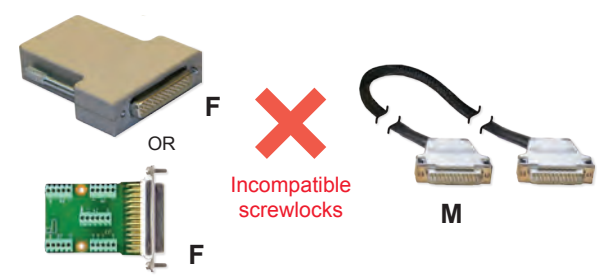
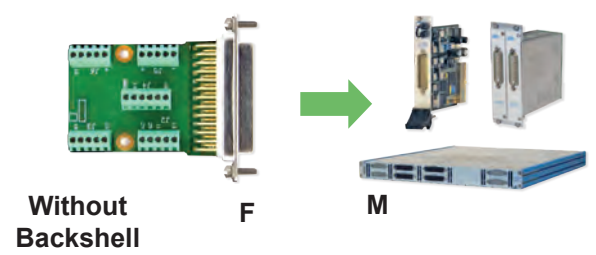
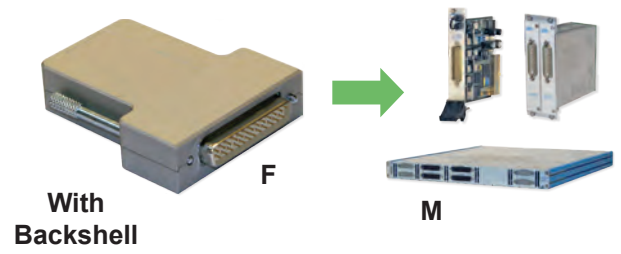
25-Pin D-Type Connector Block - Female

- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

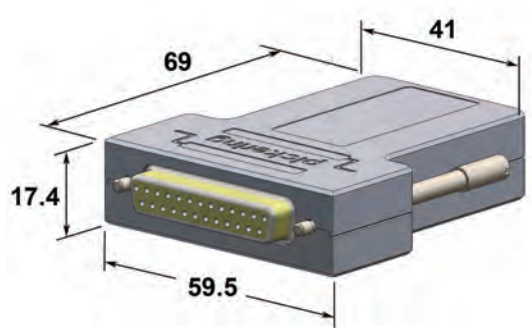
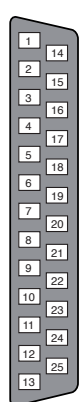
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.



Female



Technical Specification

Connector Type:	25-Pin D-Subminiature Female
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	5A
Maximum Voltage	200V DC
Cable Exit	Rear - 11 x 24mm
Overall Size (Approx)	H59.5 x W17.5 x D74.5mm
25-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)
Notes:	When using this product please ensure appropriate electrical safety precautions are observed.

Product Order Codes

- 25-Pin D-Type Connector Block, 5A, Screw Terminal, With Backshell, Female 40-965-025-F
- 25-Pin D-Type Connector Block, 5A, Screw Terminal, Without Backshell, Female 92-965-025-F

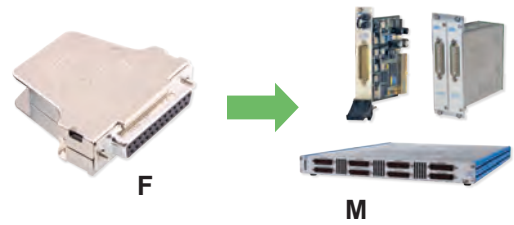
25-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

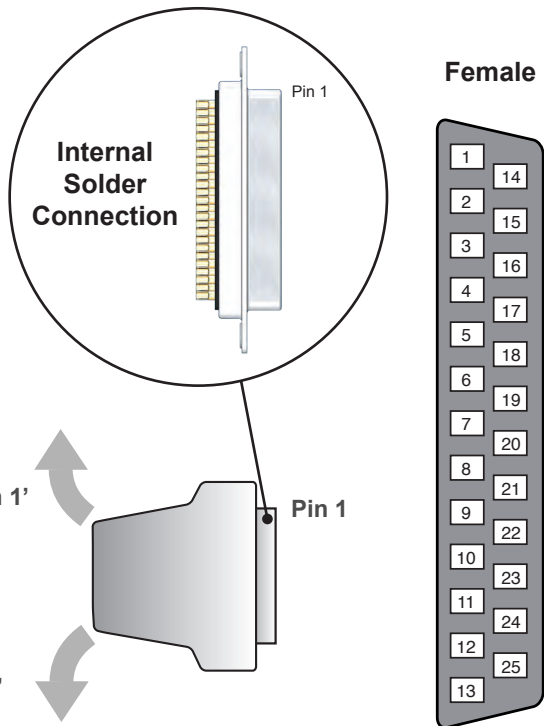
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

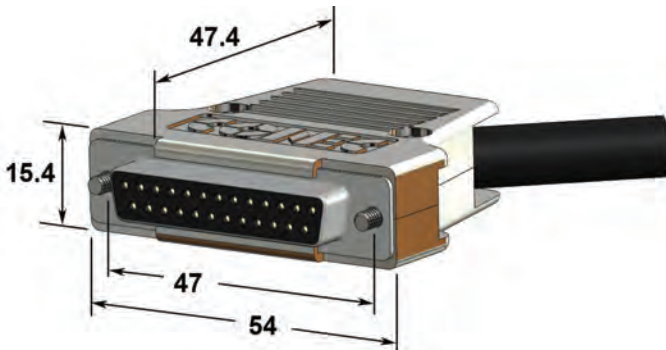
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell



45° 'Towards Pin 1'
Cable Exit Options
45° 'Away from Pin 1'



Technical Specification

Connector Type:	25-Pin D-Subminiature
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	250V AC
Cable Exit:	45°
Cable Exit Size	10mm dia
Overall Size (Approx)	H54 x W15.5 x D52mm
25-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

25-Pin D-Type Connector, 5A, Solder Bucket,
With Backshell, Female
Without Backshell, Female

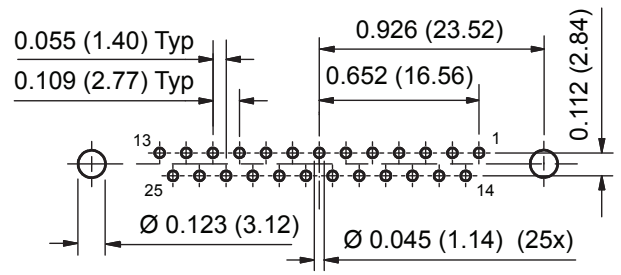
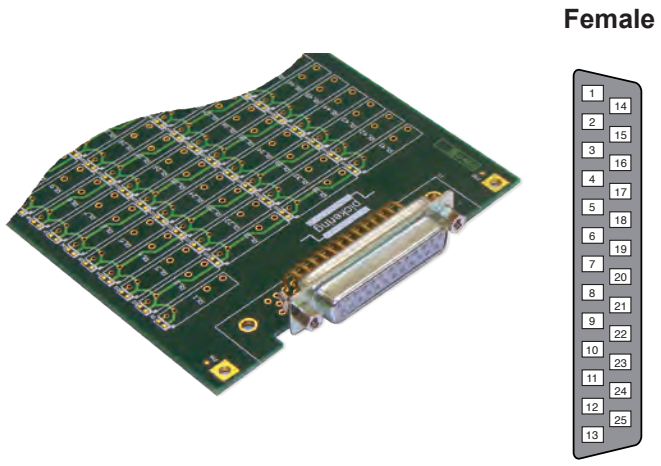
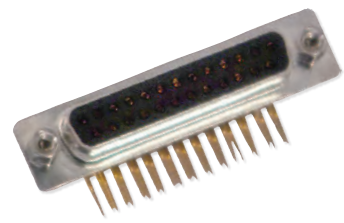
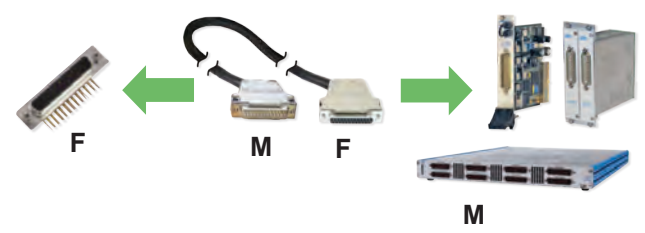
40-960-025-F
92-960-025-F

25-Pin D-Type Connector, Right Angle PCB Mount - Female

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

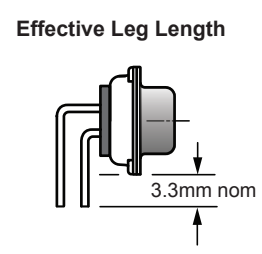


Mating Face of Connector this side of footprint

PCB Footprint of 25-Pin Right Angle Female Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	25-Pin D-Subminiature Female 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 250V AC
25-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	3.3mm nom (See diagram)



Product Order Codes

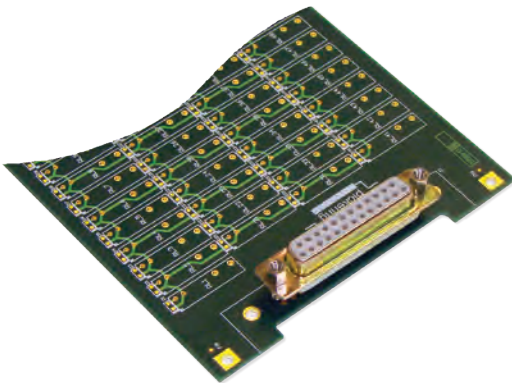
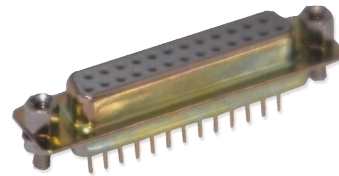
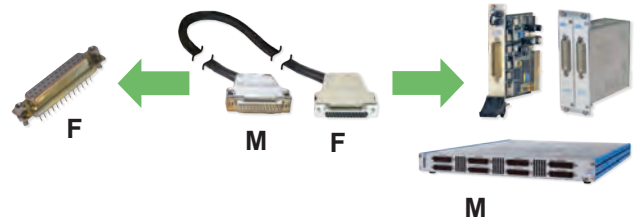
25-Pin D-Type Connector, 5A, Right Angle PCB Mount, Female **40-963-025-RF**

25-Pin D-Type Connector, Straight PCB Mount - Female

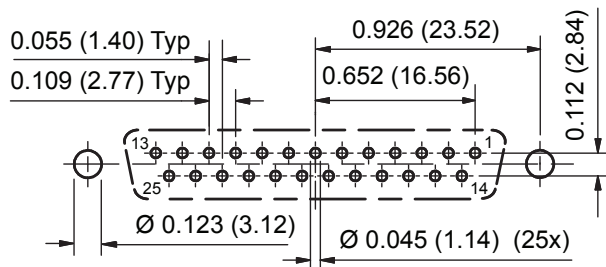
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



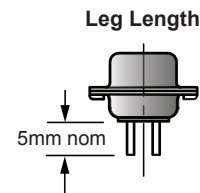
Female



PCB Footprint of 25-Pin Straight Female Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	25-Pin D-Subminiature Female 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 25-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250V AC Gold plated copper alloy <20mOhm 5mm nom (See diagram)



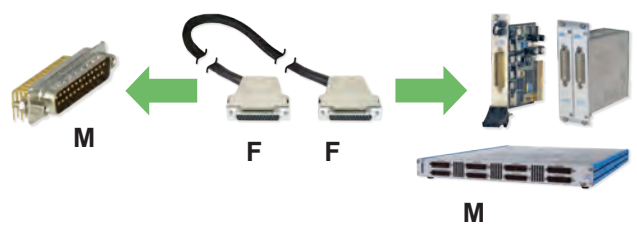
Product Order Codes

25-Pin D-Type Connector, 5A, Straight PCB Mount,
Female

40-963-025-SF

25-Pin D-Type Connector, Right Angle PCB Mount - Male

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

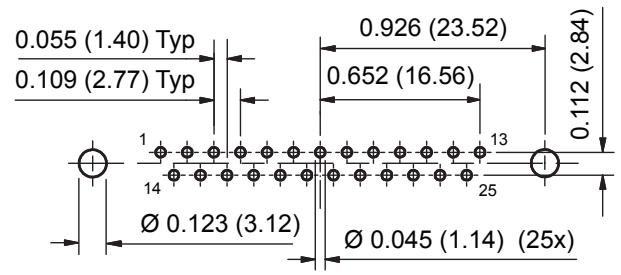
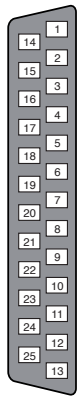


This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male



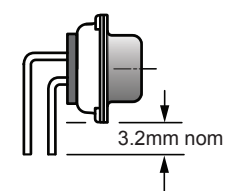
Mating Face of Connector this side of footprint

PCB Footprint of 25-Pin Right Angle Male Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	25-Pin D-Subminiature Male 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 250V AC
25-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	3.2mm nom (See diagram)

Effective Leg Length



Product Order Codes

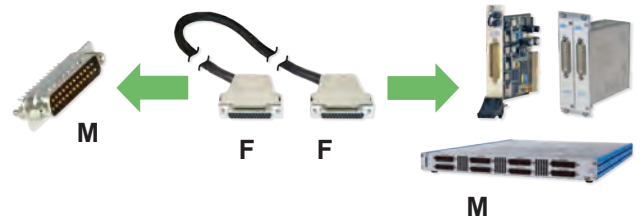
25-Pin D-Type Connector, 5A, Right Angle PCB Mount, Male
40-963-025-RM

25-Pin D-Type Connector, Straight PCB Mount - Male

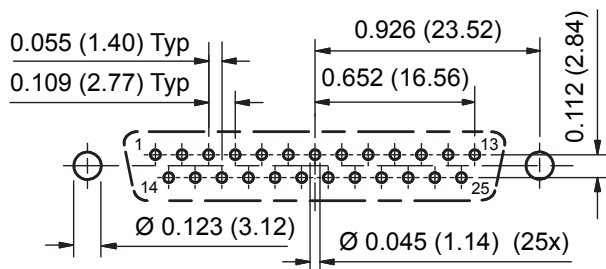
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



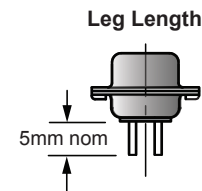
Male



**PCB Footprint of 25-Pin Straight Male Connector
(Connector Side - Not to Scale)**

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	25-Pin D-Subminiature Male 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 25-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250V AC Gold plated copper alloy <20mOhm 5mm nom (See diagram)



Product Order Codes

25-Pin D-Type Connector, 5A, Straight PCB Mount,
Male

40-963-025-SM

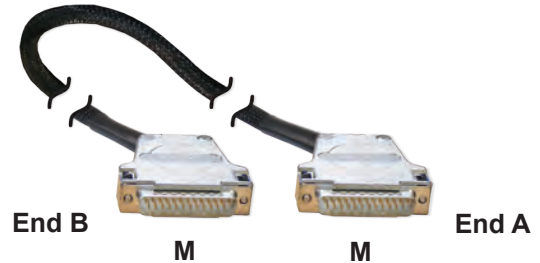
25-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

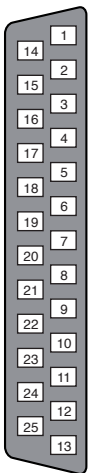
25-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit with Strain Relief
- Fully Screened Cable Construction

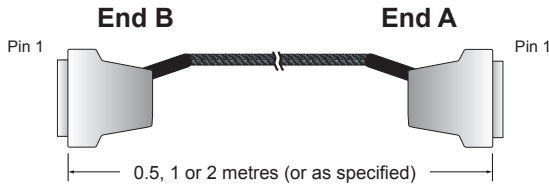
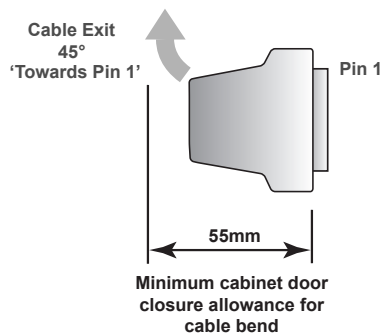
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



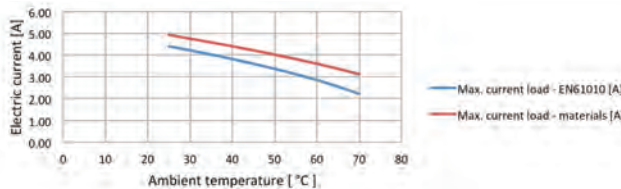
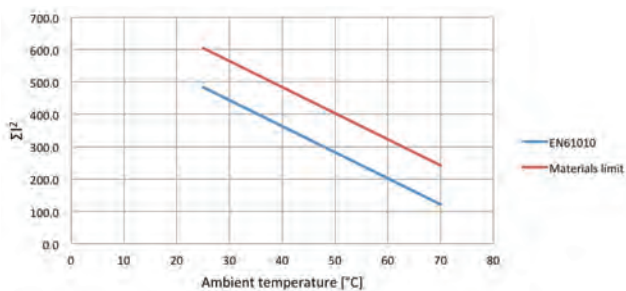
End B Male



End A Male



Characteristic Plots for 40-970-025-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	25-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	25-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H54 x W15.5 x D52mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.410mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

25-Pin D-Type Cable Assy, 5A, Male to Male,

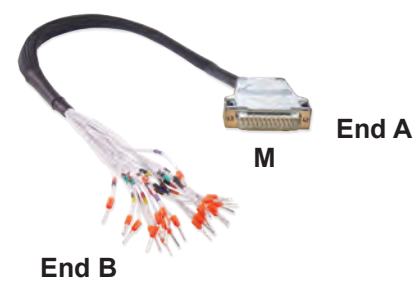
- 0.5m Long
- 1.0m Long
- 2.0m Long

- 40-970-025-0.5m-MM
- 40-970-025-1m-MM
- 40-970-025-2m-MM

25-Pin D-Type Cable Assy - Male to Unterminated

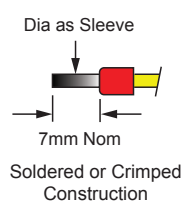
- High Specification and Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

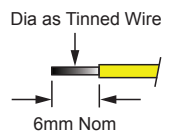


End B Options

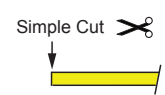
Ferrules



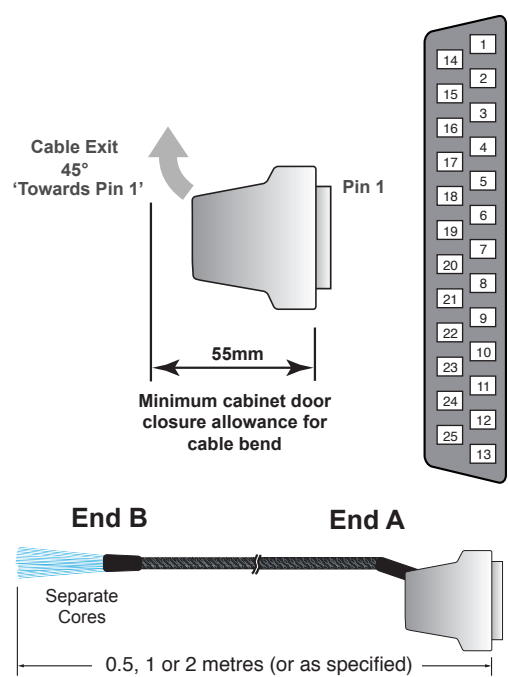
Tinned End



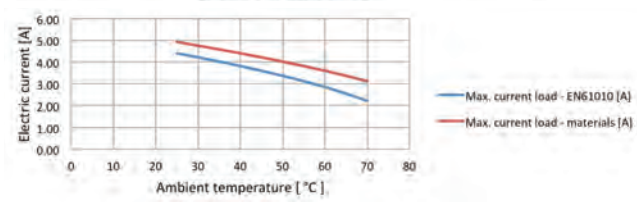
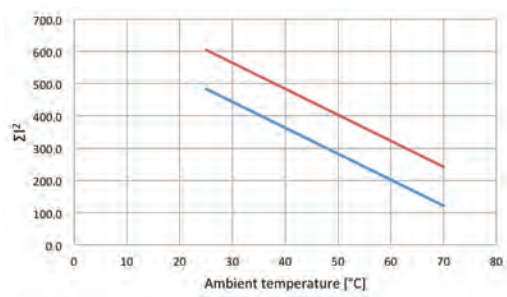
Cut End



End A - Male



Characteristic Plots for 40-972-025-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A): Gender Securing Method	25-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (Towards Pin 1) H54 x W15.5 x D52mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 19/0.18 (0.410mm ² , 21AWG) 0.041Ω/m PFA Polyester Yes Yes 10mm 25mm 55mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

- 25-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules,**
- Male to Unterminated, 0.5m Long **40-972-025-0.5m-MU**
 - Male to Unterminated, 1.0m Long **40-972-025-1m-MU**
 - Male to Unterminated, 2.0m Long **40-972-025-2m-MU**

Part numbers for other versions:

End B:
T = Tinned End
C = Cut End

A025DM5*-0A****

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

25-Pin D-Type Connector Block - Male

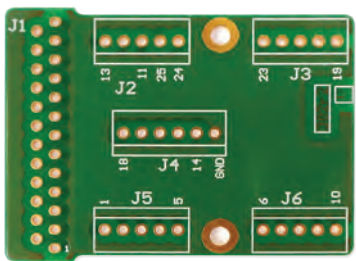
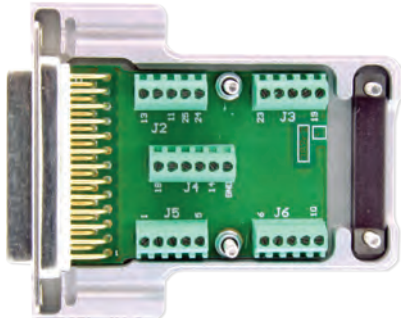
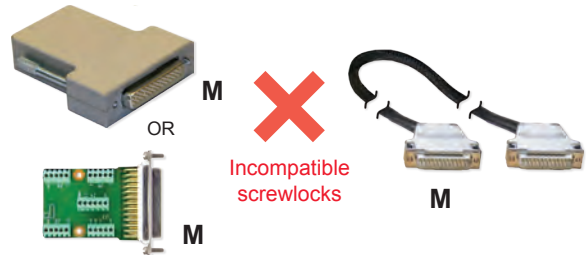
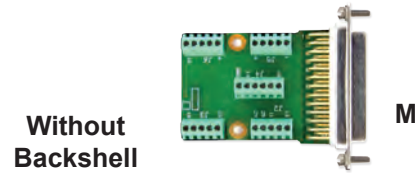
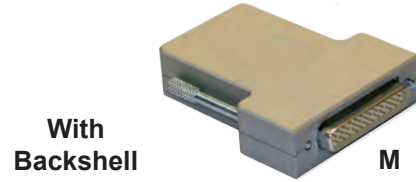
- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

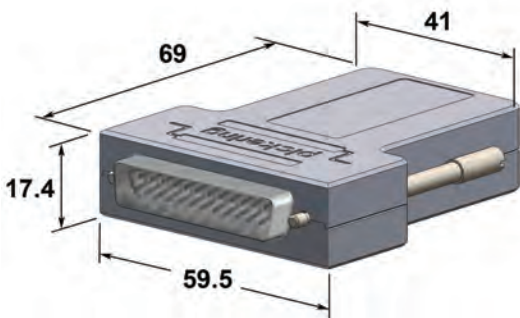
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. The breakdown voltage of the connector block is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

This connector block uses male screwlocks and will not mate to Pickering cables. Connector blocks supplied without a backshell do not include cable strain relief.

This Connector Block is Not Suitable for Connection to a Pickering Switching Product



Male



Technical Specification

Connector Type:	25-Pin D-Subminiature
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals

Connector Block Ratings:	
Maximum Current	5A
Maximum Voltage	200V DC
Cable Exit	Rear - 11 x 24mm
Overall Size (Approx)	H59.5 x W17.5 x D74.5mm
25-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

Notes:
When using this product please ensure appropriate electrical safety precautions are observed.

Product Order Codes

25-Pin D-Type Connector Block, 5A, Screw Terminal,
With Backshell, Male 40-965-025-M
Without Backshell, Male 92-965-025-M

25-Pin D-Type Connector - Male

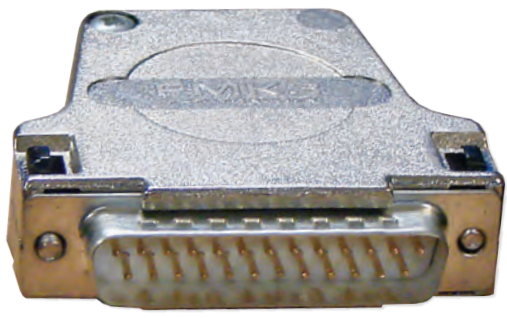
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

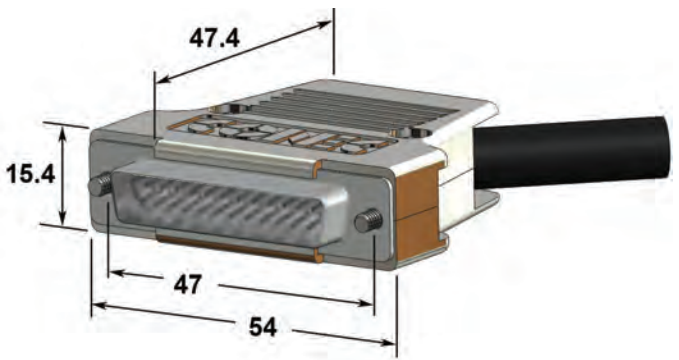
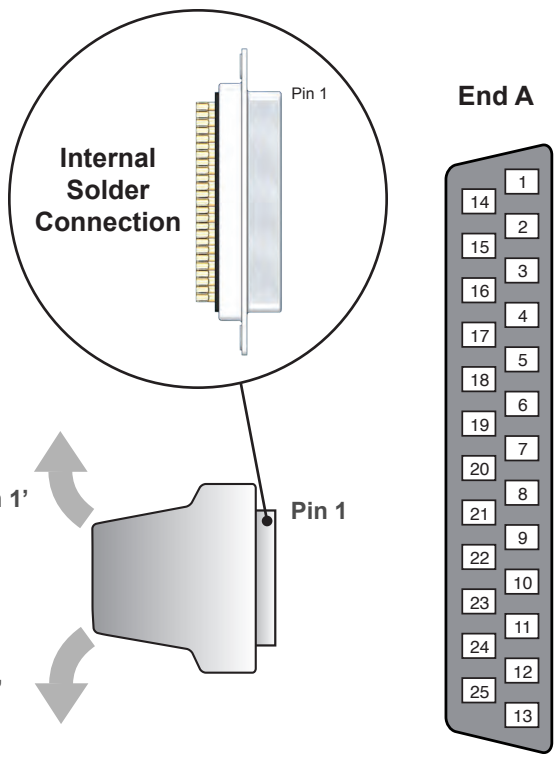
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



M
With Backshell



Technical Specification

Connector Type:	25-Pin D-Subminiature Male
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	250V AC
Cable Exit:	45°
Cable Exit Size	10mm dia
Overall Size (Approx)	H54 x W15.5 x D52mm
25-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

25-Pin D-Type Connector, 5A, Solder Bucket,
 With Backshell, Male **40-960-025-M**
 Without Backshell, Male **92-960-025-M**

20-Pin GMCT Connector Accessories

- Voltage to 500VAC, 16A
- Mating Connectors
- Connector Hoods
- Cable Assemblies
- Guaranteed Compatibility

The 20-Pin GMCT connector is used on PXI switching products to provide a low density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.









Part Number Listing for all 20-Pin GMCT Connection Accessories



Cables: 20-Pin GMCT Connector to Connector									
Type	End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
	Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
16 Amp	Male	Rear	Female	Rear	40-970B-020-0.5m-MF	40-970B-020-1m-MF	40-970B-020-2m-MF	Yes (Female end)	17.5
	Female		Female		40-970B-020-0.5m-FF	40-970B-020-1m-FF	40-970B-020-2m-FF	Yes	17.7
	Male		Male		40-970B-020-0.5m-MM	40-970B-020-1m-MM	40-970B-020-2m-MM	No	17.14
10 Amp	Male	Rear	Female	Rear	A020GMR-020GFR-0B050	A020GMR-020GFR-0B100	A020GMR-020GFR-0B200	Yes (Female end)	17.6
	Female		Female		A020GFR-020GFR-0B050	A020GFR-020GFR-0B100	A020GFR-020GFR-0B200	Yes	17.8
	Male		Male		A020GMR-020GMR-0B050	A020GMR-020GMR-0B100	A020GMR-020GMR-0B200	No	17.15

Cables: 20-Pin GMCT Connector to Untermated									
Type	End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
	Gender	Cable Exit		0.5m Long	1m Long	2m Long			
16 Amp	Female	Rear	Boot Lace Ferrules	40-972B-020-0.5m-FU	40-972B-020-1m-FU	40-972B-020-2m-FU	Yes	17.9	
			Tinned Ends	A020GFR-T-1A050	A020GFR-T-1A100	A020GFR-T-1A200	Yes		
			Cut End	A020GFR-C-1A050	A020GFR-C-1A100	A020GFR-C-1A200	Yes		
	Male	Rear	Boot Lace Ferrules	40-972B-020-0.5m-MU	40-972B-020-1m-MU	40-972B-020-2m-MU	No	17.16	
			Tinned Ends	A020GMR-T-1A050	A020GMR-T-1A100	A020GMR-T-1A200	No		
			Cut End	A020GMR-C-1A050	A020GMR-C-1A100	A020GMR-C-1A200	No		
10 Amp	Female	Rear	Boot Lace Ferrules	A020GFR-F-0B050	A020GFR-F-0B100	A020GFR-F-0B200	Yes	17.10	
			Tinned Ends	A020GFR-T-0B050	A020GFR-T-0B100	A020GFR-T-0B200	Yes		
			Cut End	A020GFR-C-0B050	A020GFR-C-0B100	A020GFR-C-0B200	Yes		
	Male	Rear	Boot Lace Ferrules	A020GMR-F-0B050	A020GMR-F-0B100	A020GMR-F-0B200	No	17.17	
			Tinned Ends	A020GMR-T-0B050	A020GMR-T-0B100	A020GMR-T-0B200	No		
			Cut End	A020GMR-C-0B050	A020GMR-C-0B100	A020GMR-C-0B200	No		

Cable Connectors: 20-Pin GMCT						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
16 Amp	Female	Rear	40-960-020-16A-F	92-960-020-16A-F	Yes	17.11
	Male		40-960-020-16A-M	92-960-020-16A-M	No	17.18
10 Amp	Female	Rear	40-960-020-10A-F	92-960-020-10A-F	Yes	17.12
	Male		40-960-020-10A-M	92-960-020-10A-M	No	17.19





Contents - Mating Accessories For Pickering Products



Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 20-Pin GMCT, 16A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 17.5
	Cable Assy, 20-Pin GMCT, 10A, 0.5m, 1m and 2m Custom lengths by quotation			Page 17.6
	Cable Assy, 20-Pin GMCT, 16A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Female	Page 17.7
	Cable Assy, 20-Pin GMCT, 10A, 0.5m, 1m and 2m Custom lengths by quotation			Page 17.8
	Cable Assy, 20-Pin GMCT to Unterminated, 16A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 17.9
	Cable Assy, 20-Pin GMCT to Unterminated, 10A, 0.5m, 1m and 2m Custom lengths by quotation			Page 17.10

Female Connectors				
View	Description	Type	Gender	Page
	Cable Connector 20-Pin GMCT, 16A, Solder Bucket	With or Without Backshell	Female	Page 17.11
	Cable Connector 20-Pin GMCT, 10A Solder Bucket	With or Without Backshell		Page 17.12

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

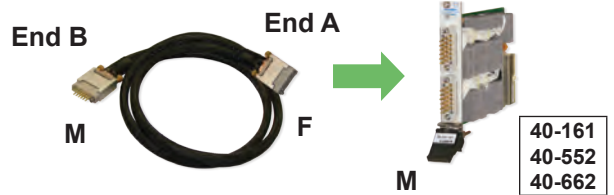
Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 20-Pin GMCT, 16A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 17.14
	Cable Assy, 20-Pin GMCT, 10A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 17.15
	Cable Assy, 20-Pin GMCT to Unterminated, 16A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 17.16
	Cable Assy, 20-Pin GMCT to Unterminated, 10A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 17.17

Male Connectors				
View	Description	Type	Gender	Page
	Cable Connector 20-Pin GMCT, 16A Solder Bucket	With or Without Backshell	Male	Page 17.18
	Cable Connector 20-Pin GMCT, 10A Solder Bucket	With or Without Backshell		Page 17.19

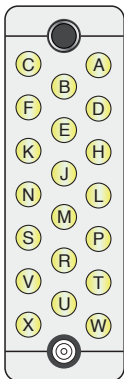
Custom Termination Section 25

20-Pin GMCT Cable Assy, 16 Amp - Male to Female

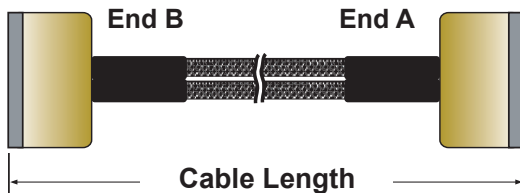
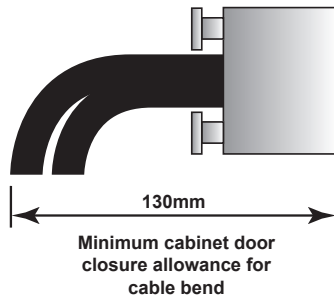
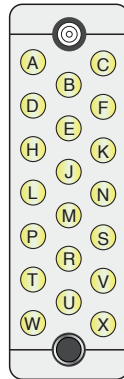
- High Specification 16A Cable
- Highly Flexible Cable with Braided Sleeving
- Rear Cable Exit
- Strain Relief
- Fully Screened Cable Construction



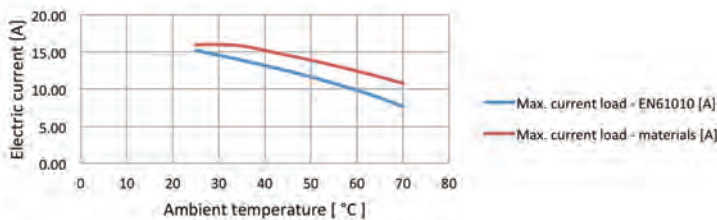
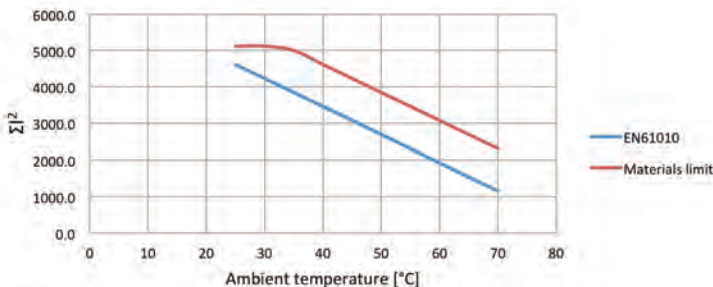
**End B
Male**



**End A
Female**



Characteristic Plots for 40-970B-020-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

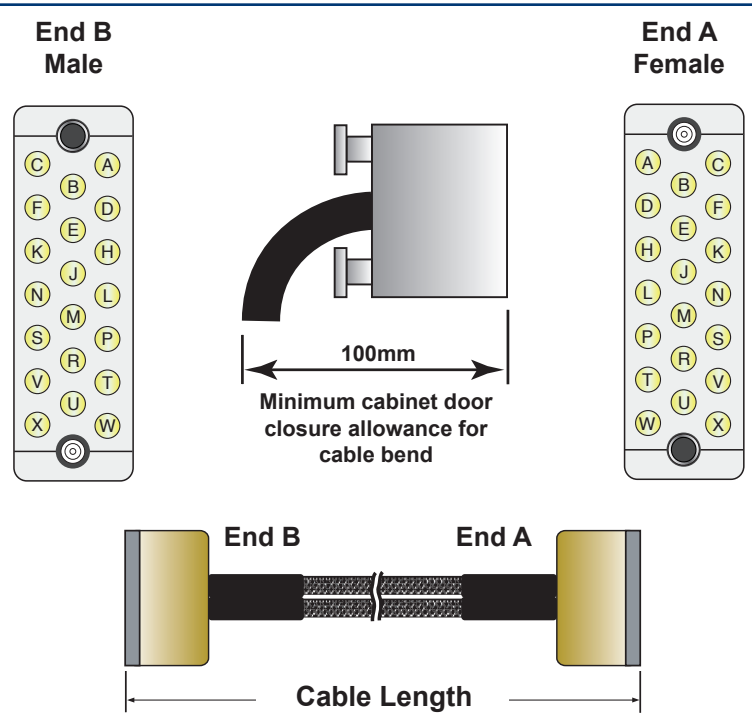
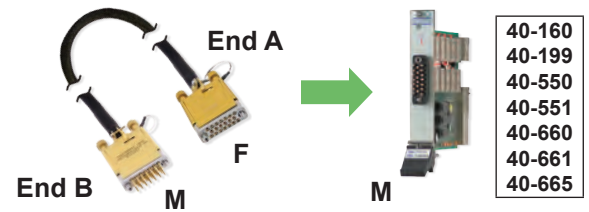
Connector Type (End A): Gender Securing Method	20-Pin GMCT Female 6-32 UNC screwlocks
Connector Type (End B): Gender Securing Method	20-Pin GMCT Male 6-32 UNC screwlocks
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	16A 500VDC/500VAC 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 3mOhm Rear H40 x W20 x D62mm
Cable Type: Conductor: Material Strands Resistance Capacitance Insulation	Individual wires, screened & sleeved Copper wire 19/0.41 (2.5mm ² , 14AWG) 0.013Ω/m 120pF/m typical PFA 500V
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester, Max temp 130°C Yes Yes 10mm 25mm 130mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

20-Pin GMCT Cable Assy, 16A, Male to Female,	
0.5m Long	40-970B-020-0.5m-MF
1.0m Long	40-970B-020-1m-MF
2.0m Long	40-970B-020-2m-MF

20-Pin GMCT Cable Assy, 10 Amp - Male to Female

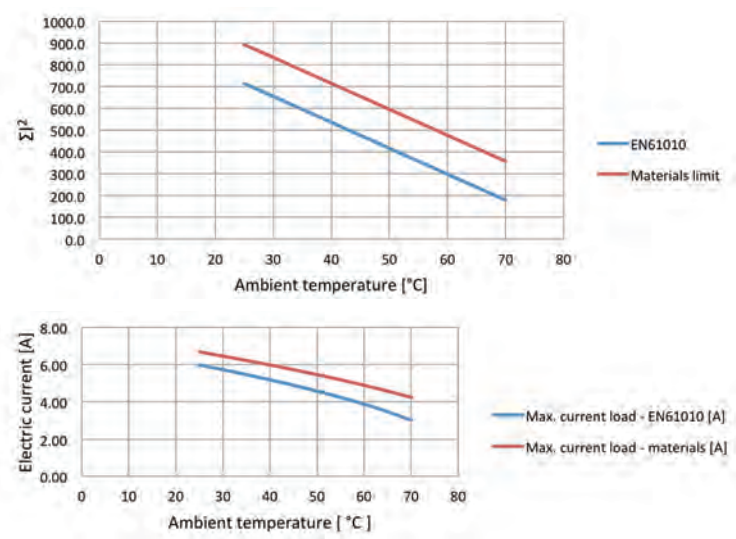
- High Specification 10A Cable
- Highly Flexible Cable with Braided Sleaving
- Rear Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A):	20-Pin GMCT
Gender	Female
Securing Method	6-32 UNC screwlocks
Connector Type (End B):	20-Pin GMCT
Gender	Male
Securing Method	6-32 UNC screwlocks
Cable Assembly Rating:	
Maximum Current	10A
Maximum Voltage	500VDC/500VAC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mOhm
Cable Exit	Rear
Overall Size (Approx)	H40 x W20 x D62mm
Cable Type:	
Conductor: Material	Tinned copper wire
Strands	19/0.254 (1mm ² , 18AWG)
Resistance	0.021Ω/m
Insulation	PFA, temp: -100 to +260 °C
Outer Sleeve	Polyester, Max temp 130°C
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	100mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-020-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

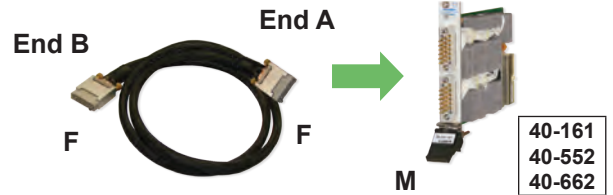
The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

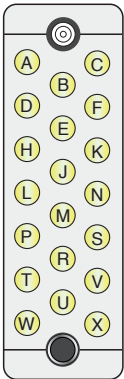
20-Pin GMCT Cable Assy, 10A, Male to Female,	
0.5m Long	A020GMR-020GFR-0B050
1.0m Long	A020GMR-020GFR-0B100
2.0m Long	A020GMR-020GFR-0B200

20-Pin GMCT Cable Assy, 16 Amp - Female to Female

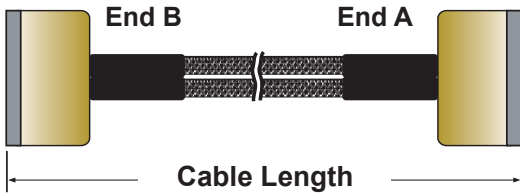
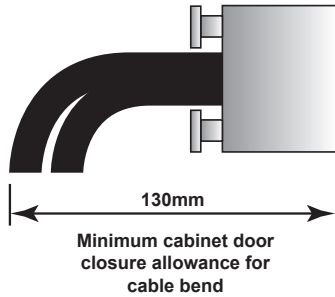
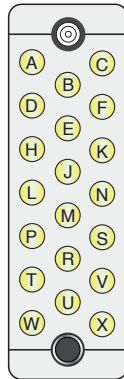
- High Specification 16A Cable
- Highly Flexible Cable with Braided Sleeving
- Rear Cable Exit
- Strain Relief
- Fully Screened Cable Construction



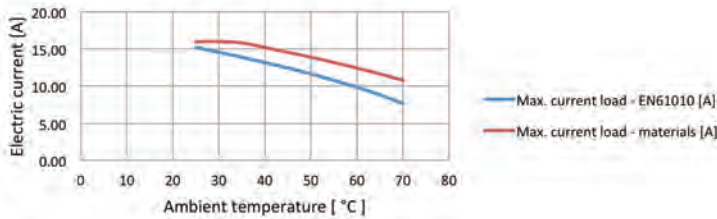
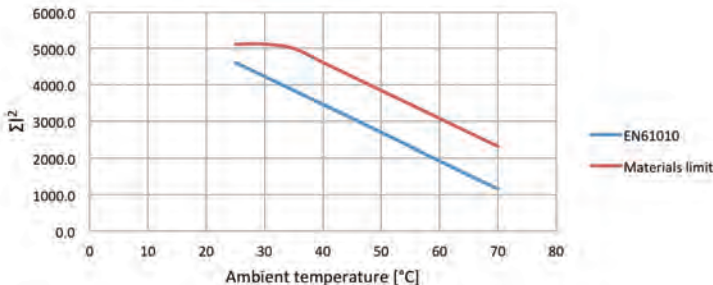
End B Female



End A Female



Characteristic Plots for 40-970B-020-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	20-Pin GMCT
Gender	Female
Securing Method	6-32 UNC screwlocks
Connector Type (End B):	20-Pin GMCT
Gender	Female
Securing Method	6-32 UNC screwlocks
Cable Assembly Rating:	
Maximum Current	16A
Maximum Voltage	500VDC/500VAC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mOhm
Cable Exit	Rear
Overall Size (Approx)	H40 x W20 x D62mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Copper wire
Strands	19/0.41 (2.5mm ² , 14AWG)
Resistance	0.013Ω/m
Capacitance	120pF/m typical
Insulation	PFA 500V
Outer Sleeve	Polyester, Max temp 130°C
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	130mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

20-Pin GMCT Cable Assy, 16A, Female to Female,

0.5m Long

40-970B-020-0.5m-FF

1.0m Long

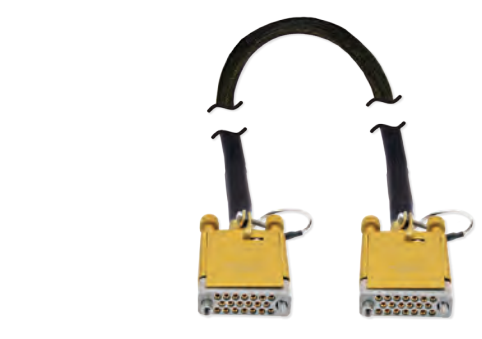
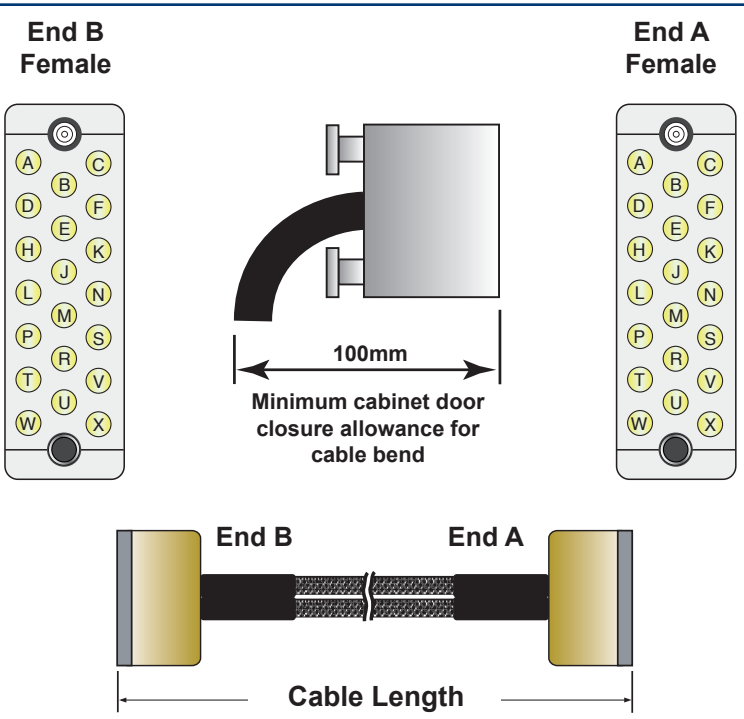
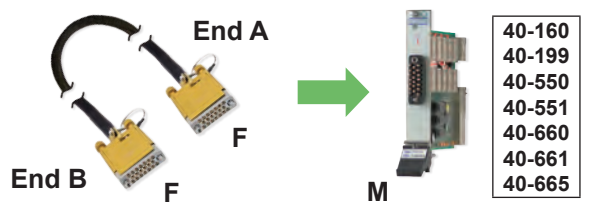
40-970B-020-1m-FF

2.0m Long

40-970B-020-2m-FF

20-Pin GMCT Cable Assy, 10 Amp - Female to Female

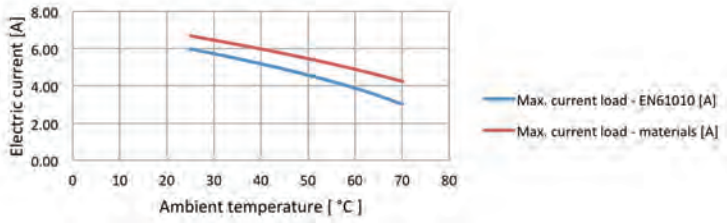
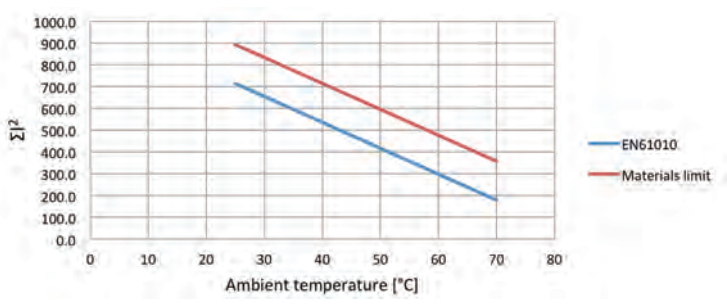
- High Specification 10A Cable
- Highly Flexible Cable with Braided Slewing
- Rear Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A): Gender Securing Method	20-Pin GMCT Female 6-32 UNC screwlocks
Connector Type (End B): Gender Securing Method	20-Pin GMCT Female 6-32 UNC screwlocks
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	10A 500VDC/500VAC 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 3mOhm Rear H40 x W20 x D62mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 19/0.254 (1mm ² , 18AWG) 0.021Ω/m PFA, temp: -100 to +260 °C Polyester, Max temp 130°C Yes Yes 12mm nom 25mm 100mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-020-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

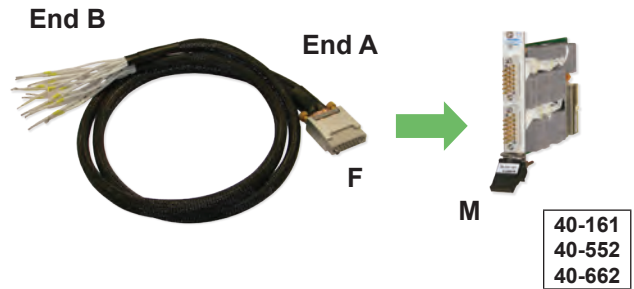
The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

20-Pin GMCT Cable Assy, 10A, Female to Female,	
0.5m Long	A020GFR-020GFR-0B050
1.0m Long	A020GFR-020GFR-0B100
2.0m Long	A020GFR-020GFR-0B200

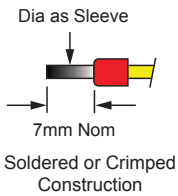
20-Pin GMCT Cable Assy, 16A - Female to Unterminated

- High Specification 16A Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Rear Cable Exit
- Fully Coded Markers to Ensure Easy Connection

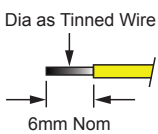


End B Options

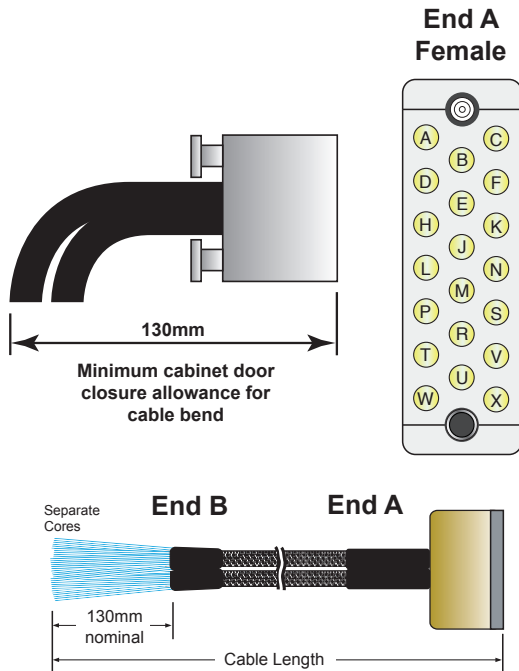
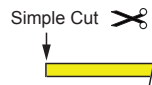
Ferrules



Tinned End



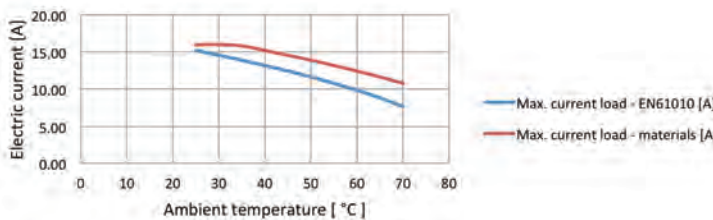
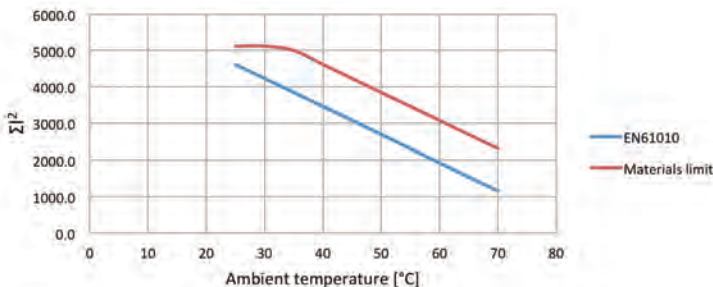
Cut End



Technical Specification

Connector Type (End A): Gender Securing Method	20-Pin GMCT Female 6-32 UNC screwlocks
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	16A 500VDC/500VAC 1000MΩ
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 3mΩ Rear H40 x W20 x D62mm
Cable Type: Conductor: Material Strands Resistance Capacitance Insulation	Individual wires, screened & sleeved Copper wire 19/0.41 (2.5mm ² , 14AWG) 0.013Ω/m 120pF/m typical PFA 500V
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester, Max temp 130°C Yes Yes 10mm 25mm 130mm (see diagram)
Notes:	<ul style="list-style-type: none"> • Please ensure appropriate electrical safety precautions are observed when using this product. • Other cable lengths can be supplied.

Characteristic Plots for 40-972B-020-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 20-Pin GMCT Cable Assy, 16A, Boot Lace Ferrules,
 Female to Unterminated, 0.5m Long **40-972B-020-0.5m-FU**
 Female to Unterminated, 1.0m Long **40-972B-020-1m-FU**
 Female to Unterminated, 2.0m Long **40-972B-020-2m-FU**

Part numbers for other versions:

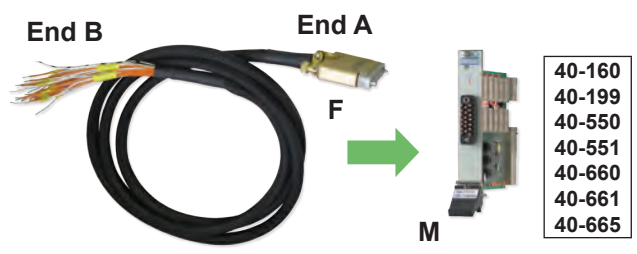
End B:
 T = Tinned End
 C = Cut End

A020GFR-*-1A***

Cable Length:
 050 = 0.5m
 100 = 1.0m
 200 = 2.0m

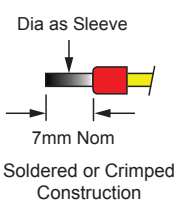
20-Pin GMCT Cable Assy, 10A - Female to Unterminated

- High Specification 10A Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Rear Cable Exit
- Fully Coded Markers to Ensure Easy Connection

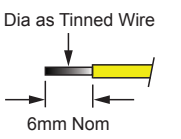


End B Options

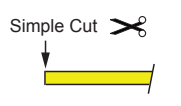
Ferrules



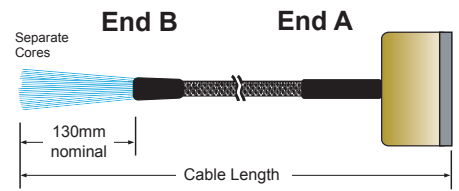
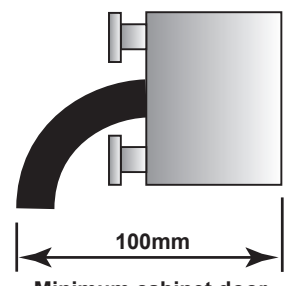
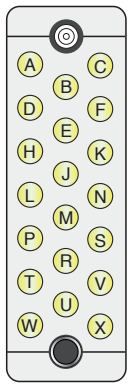
Tinned End



Cut End



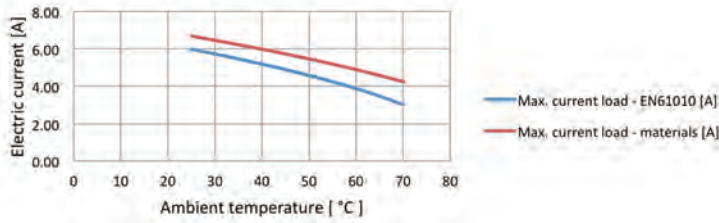
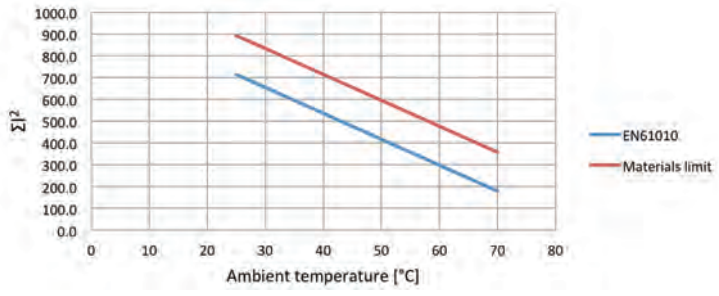
End A Female



Technical Specification

Connector Type (End A): Gender Securing Method	20-Pin GMCT Female 6-32 UNC screwlocks
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	10A 500VDC/500VAC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 3mOhm Rear H40 x W20 x D62mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Tinned copper wire 19/0.254 (1mm ² , 18AWG) 0.021Ω/m PFA, temp: -100 to +260 °C
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester, Max temp 130°C Yes Yes 12mm nom 25mm 100mm (see diagram)
Notes:	<ul style="list-style-type: none"> • Please ensure appropriate electrical safety precautions are observed when using this product. • Other cable lengths can be supplied.

Characteristic Plots for 40-972A-020-1m



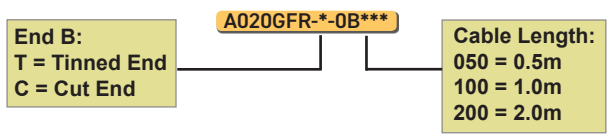
The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

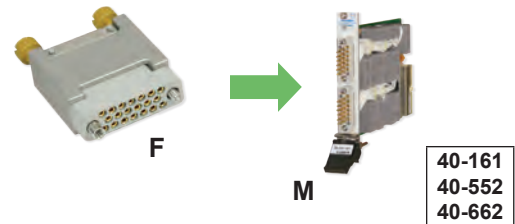
- 20-Pin GMCT Cable Assy, 10A, Boot Lace Ferrules,
 Female to Unterminated, 0.5m Long **A020GFR-F-0B050**
 Female to Unterminated, 1.0m Long **A020GFR-F-0B100**
 Female to Unterminated, 2.0m Long **A020GFR-F-0B200**

Part numbers for other versions:



20-Pin GMCT Connector, 16 Amp - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination



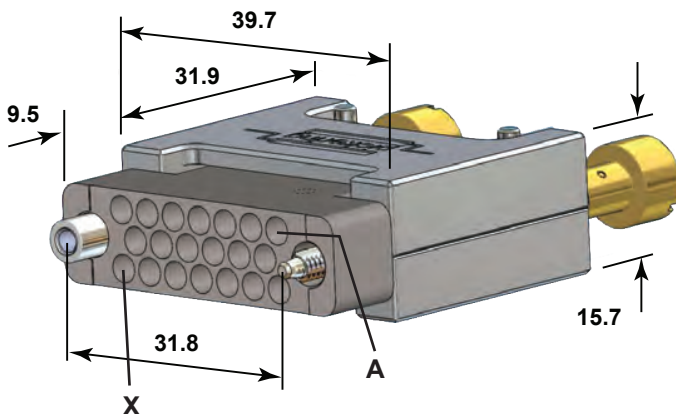
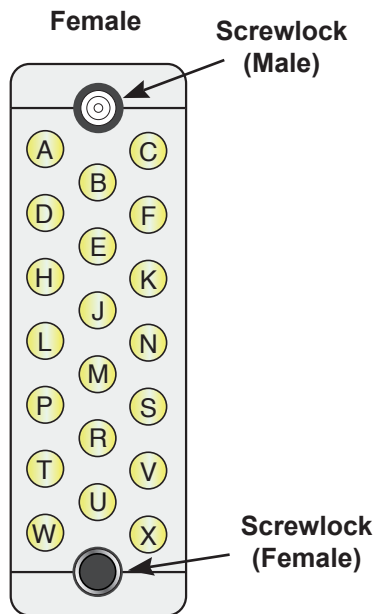
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell



Technical Specification

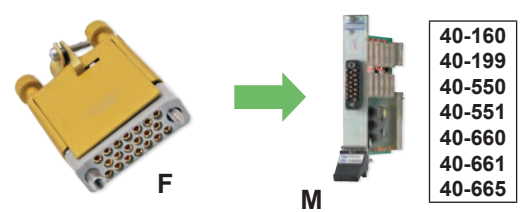
Connector Type:	20-Pin GMCT
Gender	Female
Securing Method:	
Product with Backshell	6-32 UNC screwlocks
Product without Backshell	6-32 UNC screwlocks
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	16A
Maximum Voltage	500V AC
Cable Exit:	Rear
Cable Exit Size	20.4 x 12mm
Overall Size (Approx)	H40 x W16 x D56mm
20-Pin GMCT:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mOhm
Wire Connection:	
Maximum Wire Size	14AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)
Notes:	The supplied connector includes 20 off 16A contacts of the appropriate gender.

Product Order Codes

20-Pin GMCT Connector, 16A, Solder Bucket,	
With Backshell, Female	40-960-020-16A-F
Without Backshell, Female	92-960-020-16A-F

20-Pin GMCT Connector, 10 Amp - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination



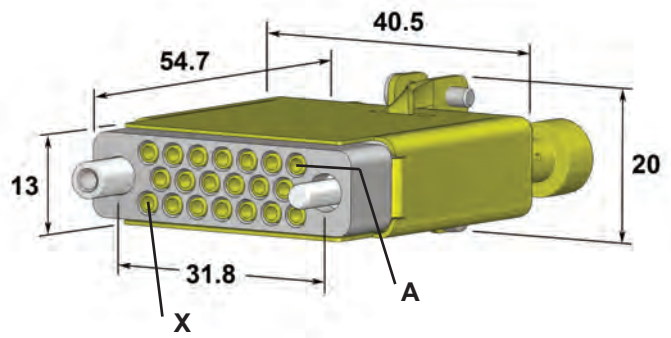
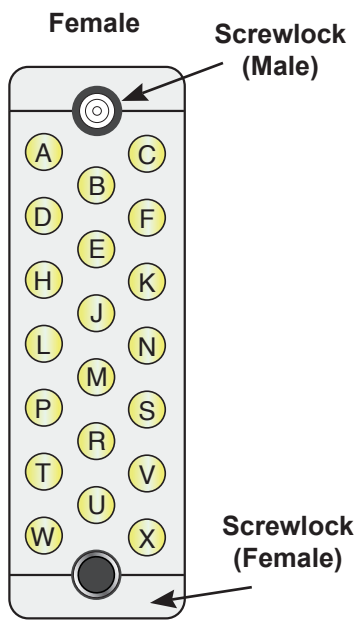
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell



Female depicted

Technical Specification

Connector Type:	20-Pin GMCT
Gender	Female
Securing Method:	
Product with Backshell	6-32 UNC screwlocks
Product without Backshell	6-32 UNC screwlocks
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	10A
Maximum Voltage	500V AC
Cable Exit:	Rear
Cable Exit Size	11mm dia
Overall Size (Approx)	H40 x W20 x D62mm
20-Pin GMCT:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mOhm
Wire Connection:	
Maximum Wire Size	16AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)
Notes:	
The supplied connector includes 20 off 10A contacts of the appropriate gender.	

Product Order Codes

- 20-Pin GMCT Connector, 10A, Solder Bucket, With Backshell, Female **40-960-020-10A-F**
- Without Backshell, Female **92-960-020-10A-F**

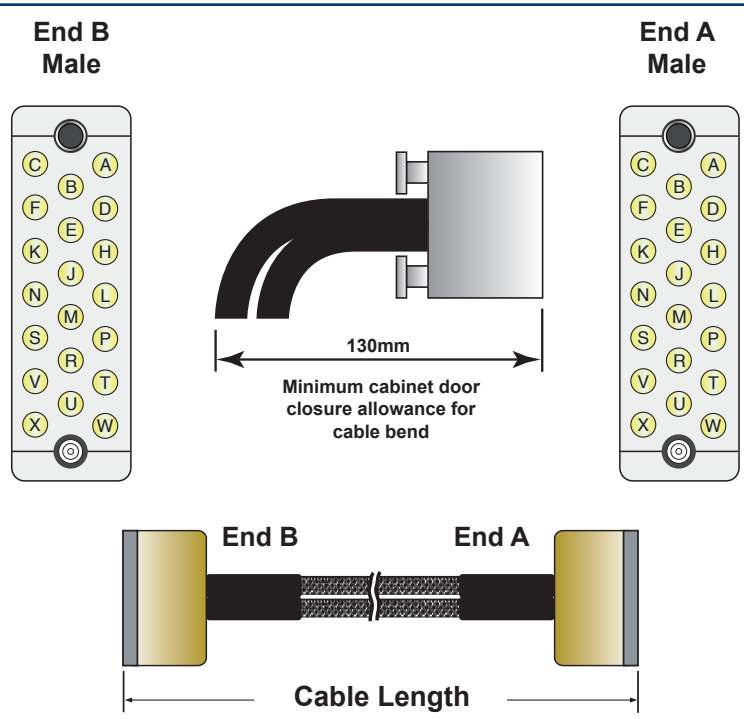
20-Pin GMCT Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

20-Pin GMCT Cable Assy, 16 Amp - Male to Male

- High Specification 16A Cable
- Highly Flexible Cable with Braided Slewing
- Rear Cable Exit with Strain Relief
- Fully Screened Cable Construction

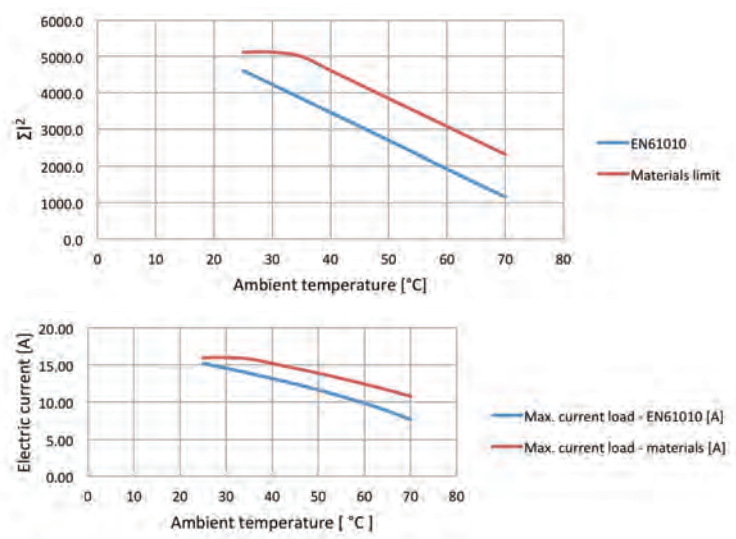
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	20-Pin GMCT
Gender	Male
Securing Method	6-32 UNC screwlocks
Connector Type (End B):	20-Pin GMCT
Gender	Male
Securing Method	6-32 UNC screwlocks
Cable Assembly Rating:	
Maximum Current	16A
Maximum Voltage	500VDC/500VAC
Insulation Resistance	1000MΩm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mΩm
Cable Exit	Rear
Overall Size (Approx)	H40 x W20 x D62mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Copper wire
Strands	19/0.41 (2.5mm ² , 14AWG)
Resistance	0.013Ω/m
Capacitance	120pF/m typical
Insulation	PFA 500V
Outer Sleeve	Polyester, Max temp 130°C
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	130mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970B-020-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

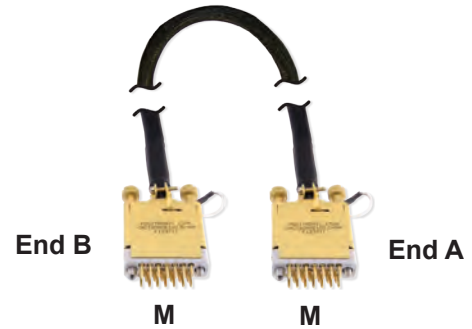
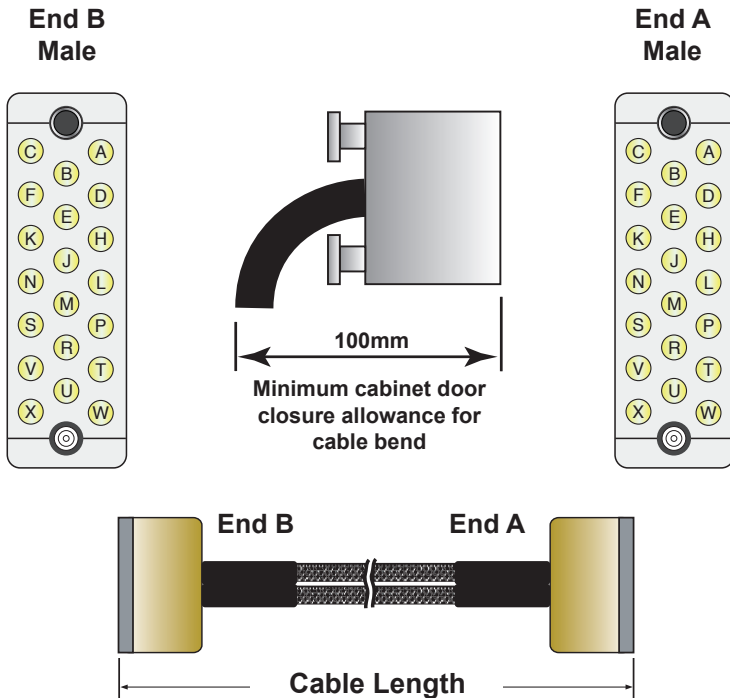
Product Order Codes

- 20-Pin GMCT Cable Assy, 16A, Male to Male,**
- 0.5m Long** **40-970B-020-0.5m-MM**
 - 1.0m Long** **40-970B-020-1m-MM**
 - 2.0m Long** **40-970B-020-2m-MM**

20-Pin GMCT Cable Assy, 10 Amp - Male to Male

- High Specification 10A Cable
- Highly Flexible Cable with Braided Sleeving
- Rear Cable Exit with Strain Relief
- Fully Screened Cable Construction

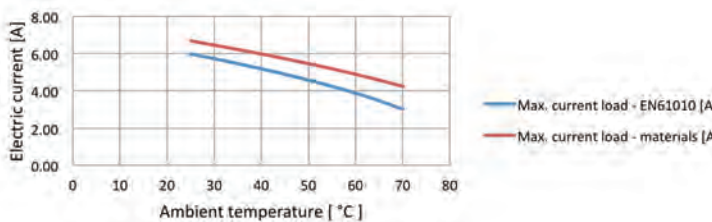
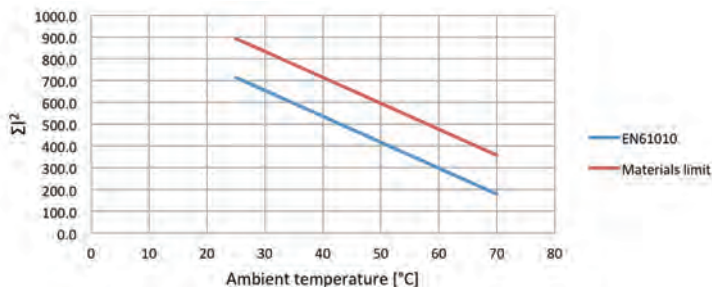
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	20-Pin GMCT
Gender	Male
Securing Method	6-32 UNC screwlocks
Connector Type (End B):	20-Pin GMCT
Gender	Male
Securing Method	6-32 UNC screwlocks
Cable Assembly Rating:	
Maximum Current	10A
Maximum Voltage	500VDC/500VAC
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mΩ
Cable Exit	Rear
Overall Size (Approx)	H40 x W20 x D62mm
Cable Type:	
Conductor: Material	Tinned copper wire
Strands	19/0.254 (1mm ² , 18AWG)
Resistance	0.021Ω/m
Insulation	PFA, temp: -100 to +260 °C
Outer Sleeve	Polyester, Max temp 130°C
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	12mm nom
Minimum Bend Radius	25mm
Door Closure Allowance	100mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-020-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

20-Pin GMCT Cable Assy, 10A, Male to Male,

0.5m Long

A020GMR-020GMR-0B050

1.0m Long

A020GMR-020GMR-0B100

2.0m Long

A020GMR-020GMR-0B200

20-Pin GMCT Cable Assy, 16A - Male to Unterminated

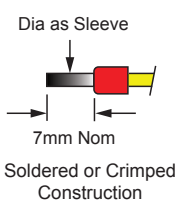
- High Specification and Highly Flexible 16A Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Rear Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

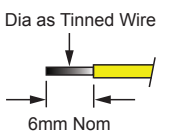


End B Options

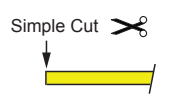
Ferrules



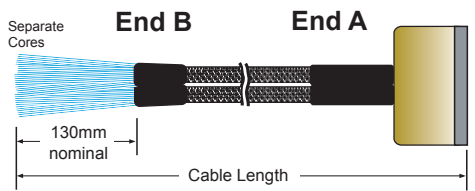
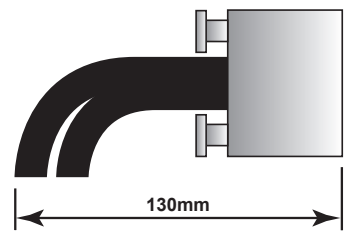
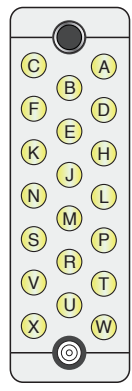
Tinned End



Cut End



End A Male



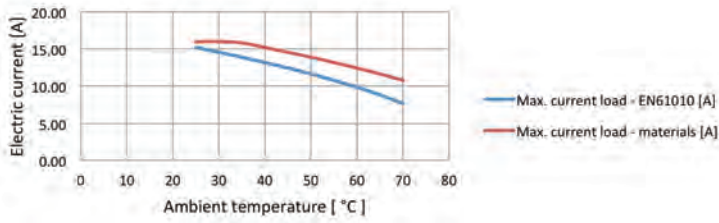
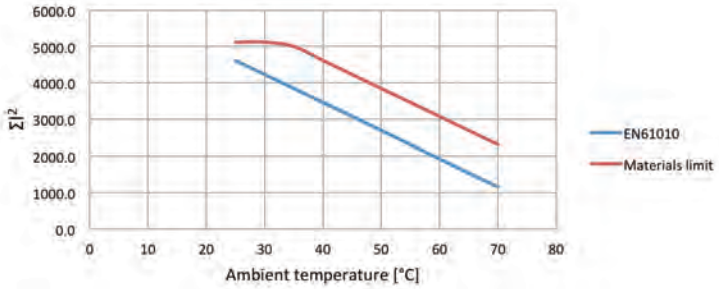
Technical Specification

Connector Type (End A): Gender Securing Method	20-Pin GMCT Male 6-32 UNC screwlocks
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	16A 500VDC/500VAC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 3mOhm Rear H40 x W20 x D62mm
Cable Type: Conductor: Material Strands Resistance Capacitance Insulation	Individual wires, screened & sleeved Copper wire 19/0.41 (2.5mm ² , 14AWG) 0.013Q/m 120pF/m typical PFA 500V
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester, Max temp 130°C Yes Yes 10mm 25mm 130mm (see diagram)

Notes:

- Please ensure appropriate electrical safety precautions are observed when using this product.
- Other cable lengths can be supplied.

Characteristic Plots for 40-972B-020-1m



The top graph shows the permitted ΣI² versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI² is complied with.

Product Order Codes

- 20-Pin GMCT Cable Assy, 16A, Boot Lace Ferrules,**
- Male to Unterminated, 0.5m Long **40-972B-020-0.5m-MU**
 - Male to Unterminated, 1.0m Long **40-972B-020-1m-MU**
 - Male to Unterminated, 2.0m Long **40-972B-020-2m-MU**

Part numbers for other versions:

End B:
T = Tinned End
C = Cut End

A020GMR-*-1A***

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

20-Pin GMCT Cable Assy, 10A - Male to Unterminated

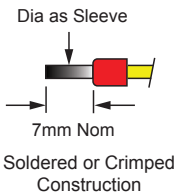
- High Specification & Highly Flexible 10A Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Rear Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

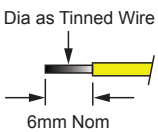


End B Options

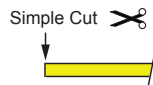
Ferrules



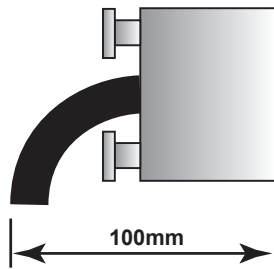
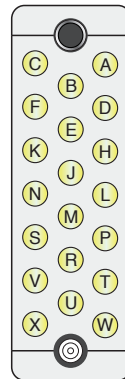
Tinned End



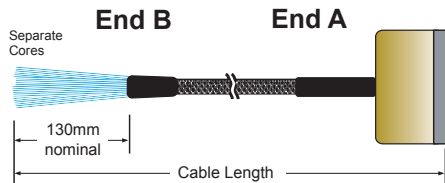
Cut End



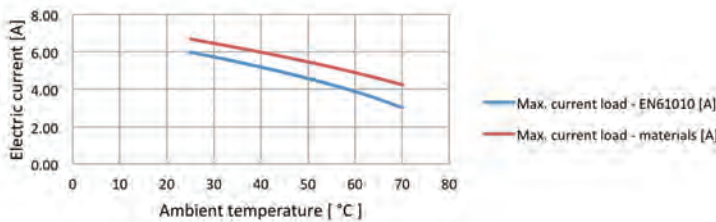
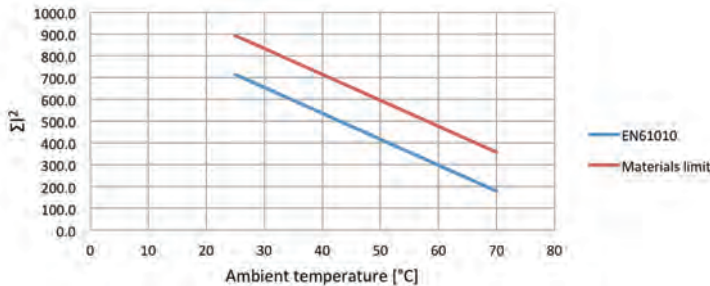
End A Male



Minimum cabinet door closure allowance for cable bend



Characteristic Plots for 40-972A-020-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	20-Pin GMCT
Gender	Male
Securing Method	6-32 UNC screwlocks
Unterminated End (End B):	
Free Wire Length	130mm nominal
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	10A
Maximum Voltage	500VDC/500VAC
Insulation Resistance	1000MΩ
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mΩ
Cable Exit	Rear
Overall Size (Approx)	H40 x W20 x D62mm
Cable Type:	
Conductor: Material	Tinned copper wire
Strands	19/0.254 (1mm ² , 18AWG)
Resistance	0.021Ω/m
Insulation	PFA, temp: -100 to +260 °C
Outer Sleeve	Polyester, Max temp 130°C
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	100mm (see diagram)

Notes:

- Please ensure appropriate electrical safety precautions are observed when using this product.
- Other cable lengths can be supplied.

Product Order Codes

20-Pin GMCT Cable Assy, 10A, Boot Lace Ferrules,

Male to Unterminated, 0.5m Long

A020GMR-F-0B050

Male to Unterminated, 1.0m Long

A020GMR-F-0B100

Male to Unterminated, 2.0m Long

A020GMR-F-0B200

Part numbers for other versions:

End B:
T = Tinned End
C = Cut End

A020GMR*-0B***

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

20-Pin GMCT Connector, 16 Amp - Male

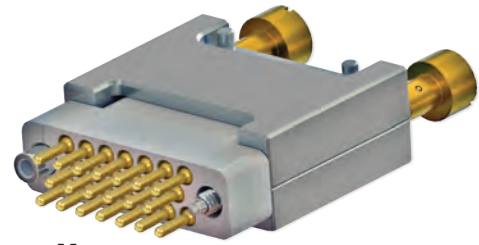
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

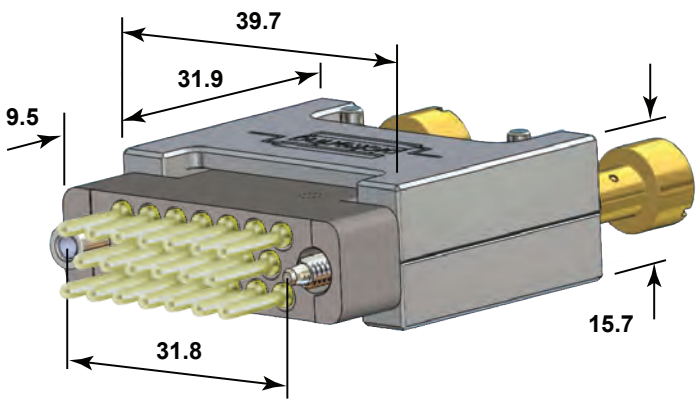
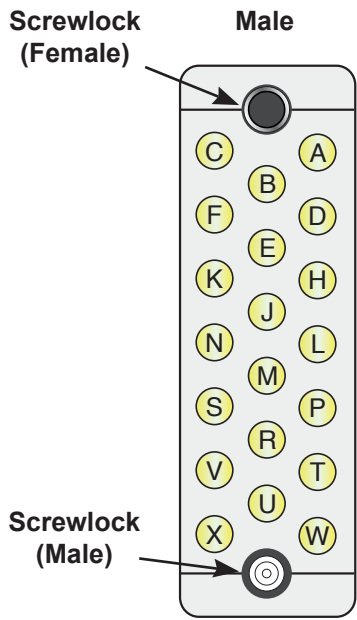
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



M

With Backshell



Technical Specification

Connector Type:	20-Pin GMCT
Gender	Male
Securing Method:	
Product with Backshell	6-32 UNC screwlocks
Product without Backshell	6-32 UNC screwlocks
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	16A
Maximum Voltage	500V AC
Cable Exit:	Rear
Cable Exit Size	20.4 x 12mm
Overall Size (Approx)	H40 x W16 x D56mm
20-Pin GMCT:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mOhm
Wire Connection:	
Maximum Wire Size	14AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)
Notes:	The supplied connector includes 20 off 16A contacts of the appropriate gender.

Product Order Codes

- 20-Pin GMCT Connector, 16A, Solder Bucket, With Backshell, Male **40-960-020-16A-M**
- Without Backshell, Male **92-960-020-16A-M**

20-Pin GMCT Connector, 10 Amp - Male

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

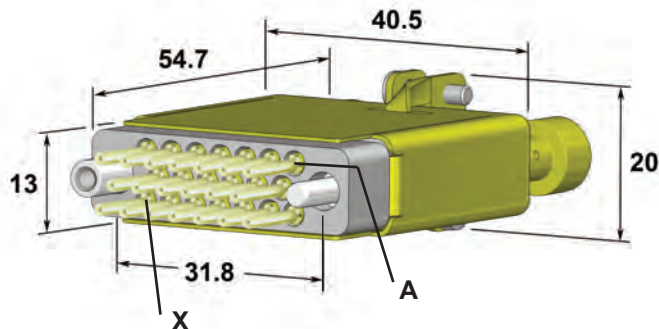
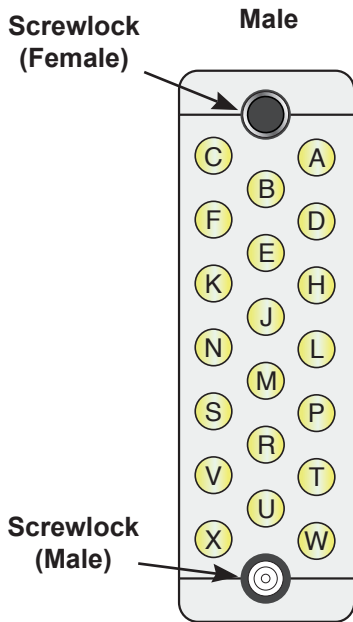
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



With Backshell M



Technical Specification

Connector Type:	20-Pin GMCT
Gender	Male
Securing Method:	
Product with Backshell	6-32 UNC screwlocks
Product without Backshell	6-32 UNC screwlocks
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	10A
Maximum Voltage	500V AC
Cable Exit:	Rear
Cable Exit Size	11mm dia
Overall Size (Approx)	H40 x W20 x D62mm
20-Pin GMCT:	
Contact Material	Gold plated copper alloy
Contact Resistance	3mOhm
Wire Connection:	
Maximum Wire Size	16AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)
Notes:	The supplied connector includes 20 off 10A contacts of the appropriate gender.

Product Order Codes

20-Pin GMCT Connector, 10A, Solder Bucket,
 With Backshell, Male **40-960-020-10A-M**
 Without Backshell, Male **92-960-020-10A-M**

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15-Pin D-type Connector Accessories

- **Standard Voltage to 250V AC/400V, 5A**
- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**



The 15-Pin D-Type connector is used on PXI switching products to provide a medium density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 15-Pin D-Type Connection Accessories



Cables: 15-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-015-0.5m-MF	40-970-015-1m-MF	40-970-015-2m-MF	Yes (Female end)	18.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-015-0.5m-FF	40-970-015-1m-FF	40-970-015-2m-FF	Yes	18.6
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-015-0.5m-MM	40-970-015-1m-MM	40-970-015-2m-MM	No	18.14




Cables: 15-Pin D-Type Connector to Untermated								
End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-015-0.5m-FU	40-972-015-1m-FU	40-972-015-2m-FU	Yes	18.7	
		Tinned Ends	A015DF4-T-0A050	A015DF4-T-0A100	A015DF4-T-0A200	Yes		
		Cut End	A015DF4-C-0A050	A015DF4-C-0A100	A015DF4-C-0A200	Yes		
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-015-0.5m-MU	40-972-015-1m-MU	40-972-015-2m-MU	No	18.15	
		Tinned Ends	A015DM5-T-0A050	A015DM5-T-0A100	A015DM5-T-0A200	No		
		Cut End	A015DM5-C-0A050	A015DM5-C-0A100	A015DM5-C-0A200	No		


Cable Connectors: 15-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Female	45° Options	40-960-015-F	92-960-015-F	Yes	18.8
	Male	45° Options	40-960-015-M	92-960-015-M	No	18.16

Breakouts and PCB Connectors: 15-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-015-RF	No	18.9
		Male	N/A	40-963-015-RM	No	18.11
	Straight PCB Mount	Female	N/A	40-963-015-SF	No	18.10
		Male	N/A	40-963-015-SM	No	18.12

Contents - Mating Accessories For Pickering Products



Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 15-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 18.5
		Female	Female	Page 18.6
	Cable Assy, 15-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 18.7


Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Cable Connector 15-Pin D-Type, 5A, Solder Bucket	With or Without Backshell	Female	Page 18.8
	PCB Connector 15-Pin D-Type, 5A	Right Angle PCB Mount		Page 18.9
		Straight PCB Mount		Page 18.10

Male Breakouts/PCB Connectors				
View	Description	Type	Gender	Page
	PCB Connector 25-Pin D-Type, 5A	Right Angle PCB Mount	Male	Page 18.11
		Straight PCB Mount		Page 18.12

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 15-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 18.14
	Cable Assy, 15-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 18.15

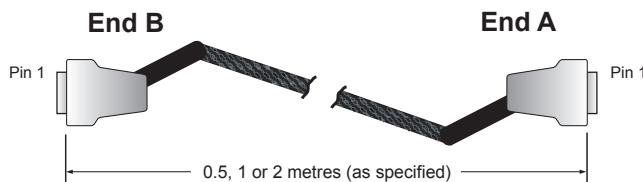
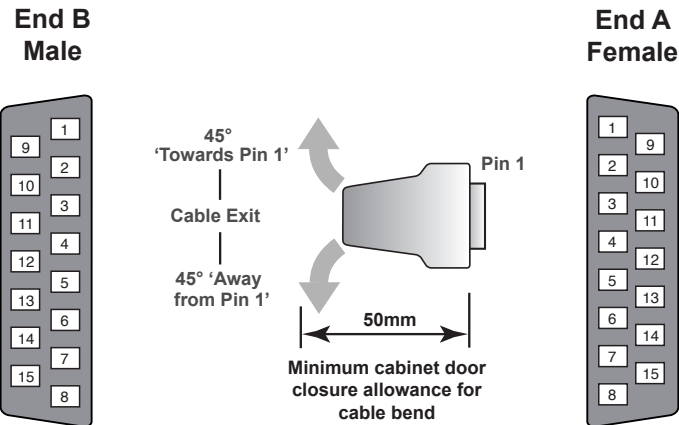
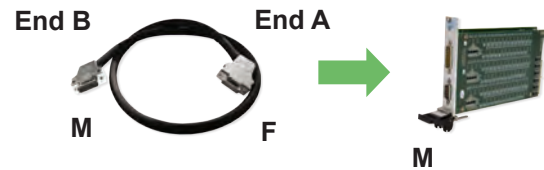
Male Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Cable Connector 15-Pin D-Type, 5A, Solder Bucket	With or Without Backshell	Male	Page 18.16

Custom Termination

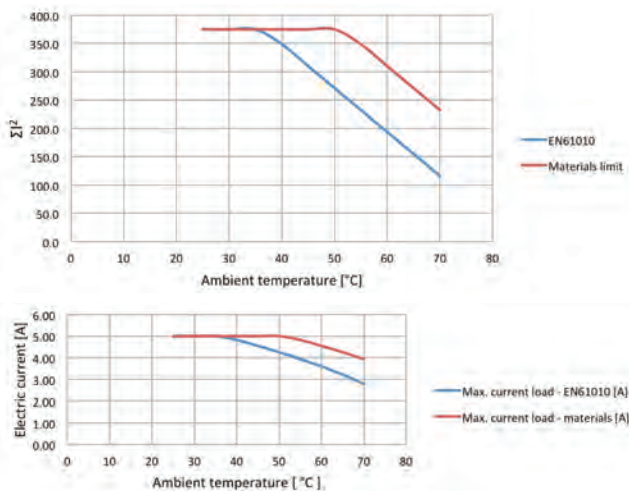
Section 25

15-Pin D-Type Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Characteristic Plots for 40-970-015-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A): Gender Securing Method	15-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	15-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MOhm
Connectors: Contact Material Contact Resistance Cable Exit:	Gold plated copper alloy 20mOhm Female Connectors 45° (Away from Pin 1) Male Connectors 45° (Towards Pin 1)
Overall Size (Approx) Cable Type:	H40 x W15 x D48mm Individual wires, screened & sleeved
Conductor: Material Strands Resistance Insulation	Tinned copper wire 19/0.18 (0.410mm ² , 21AWG) 0.041Ω/m PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 8mm 25mm 50mm (see diagram)

Notes:
Other cable lengths can be supplied.

Product Order Codes

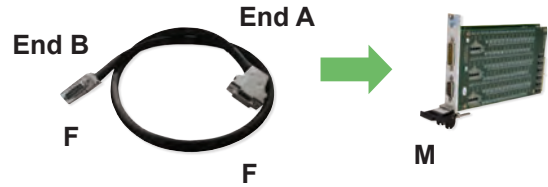
15-Pin D-Type Cable Assy, 5A, Male to Female,

- 0.5m Long
- 1.0m Long
- 2.0m Long

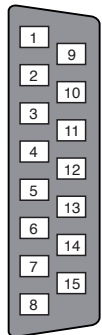
- 40-970-015-0.5m-MF
- 40-970-015-1m-MF
- 40-970-015-2m-MF

15-Pin D-Type Cable Assy - Female to Female

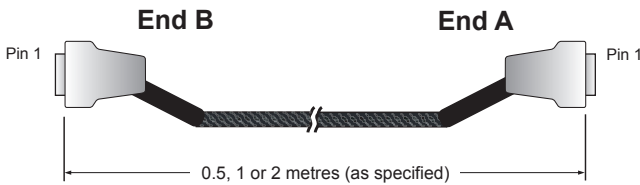
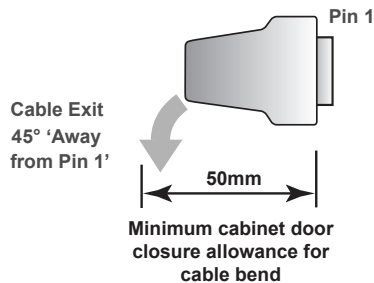
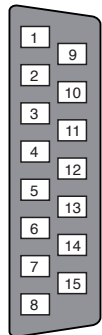
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



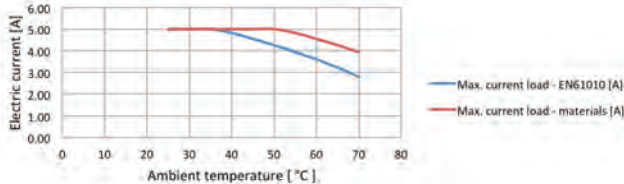
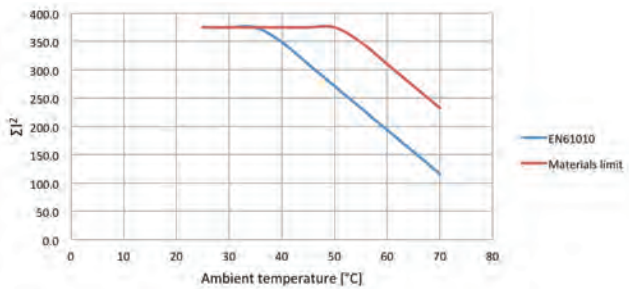
End B Female



End A Female



Characteristic Plots for 40-970-015-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

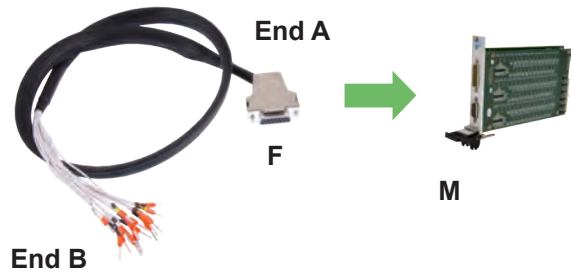
Connector Type (End A):	15-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	15-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mΩ
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H40 x W15 x D48mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.410mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	8mm
Minimum Bend Radius	25mm
Door Closure Allowance	50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

- 15-Pin D-Type Cable Assy, 5A, Female to Female,**
- 0.5m Long** [40-970-015-0.5m-FF](#)
 - 1.0m Long** [40-970-015-1m-FF](#)
 - 2.0m Long** [40-970-015-2m-FF](#)

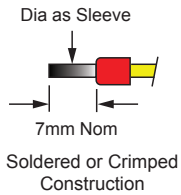
15-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

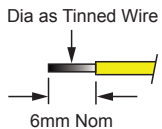


End B Options

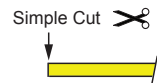
Ferrules



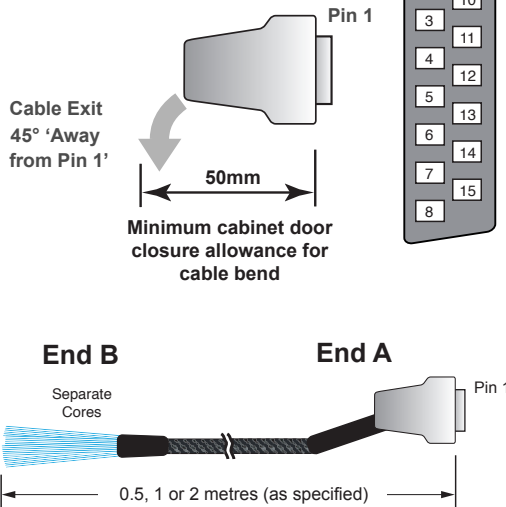
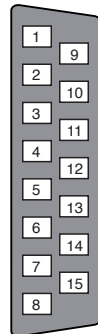
Tinned End



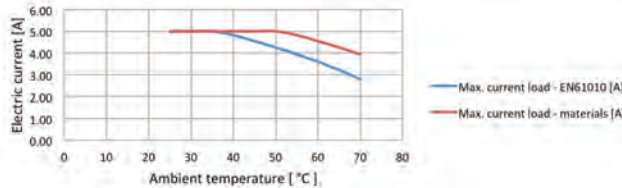
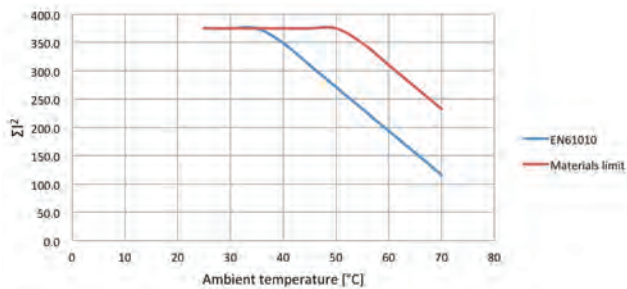
Cut End



End A Female



Characteristic Plots for 40-972-015-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A): Gender Securing Method	15-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MΩm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 20mΩm 45° (Away from Pin 1) H40 x W15 x D48mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 19/0.18 (0.410mm ² , 21AWG) 0.041Ω/m PFA Polyester Yes Yes 8mm 25mm 50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

- 15-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules,
 Female to Unterminated, 0.5m Long **40-972-015-0.5m-FU**
 Female to Unterminated, 1.0m Long **40-972-015-1m-FU**
 Female to Unterminated, 2.0m Long **40-972-015-2m-FU**

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A015DF4-*-0A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
--	------------------------	--

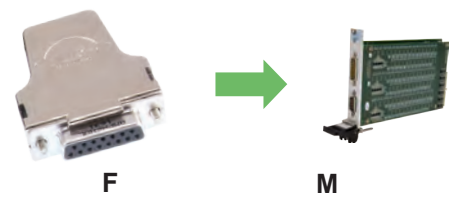
15-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

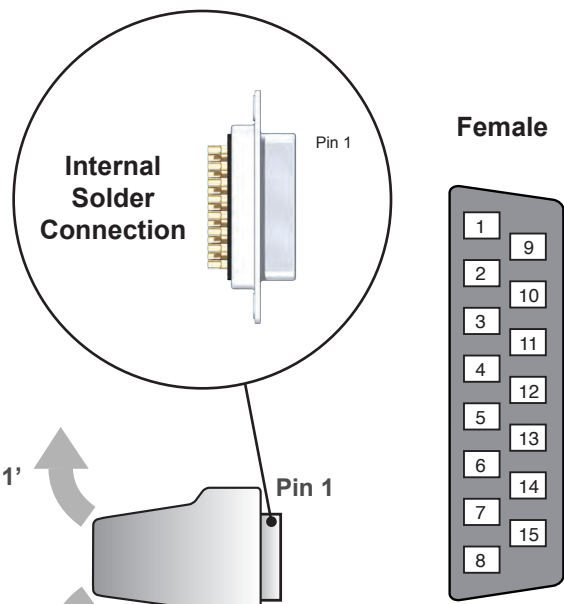
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

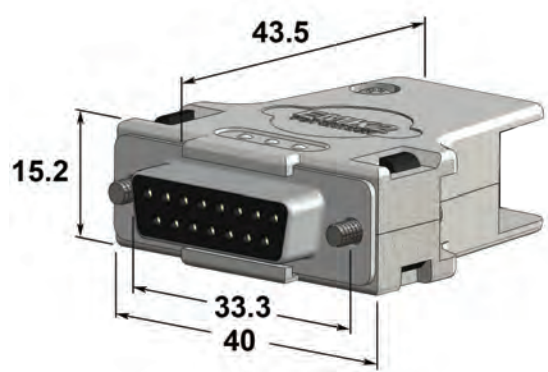
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell



45°
'Towards Pin 1'
|
Cable Exit Options
|
45° 'Away from Pin 1'



Technical Specification

Connector Type: Gender	15-Pin D-Subminiature Female
Securing Method: Product with Backshell Product without Backshell	4-40 UNC screwlocks, male 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings: Maximum Current Maximum Voltage Cable Exit: Cable Exit Size Overall Size (Approx)	5A 250V AC 45° 10mm dia H40 x W15 x D48mm
15-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy 20mOhm
Wire Connection: Maximum Wire Size Recommended Insulation Additional Cable Clamp	20AWG PFA Yes (in backshell)

Product Order Codes

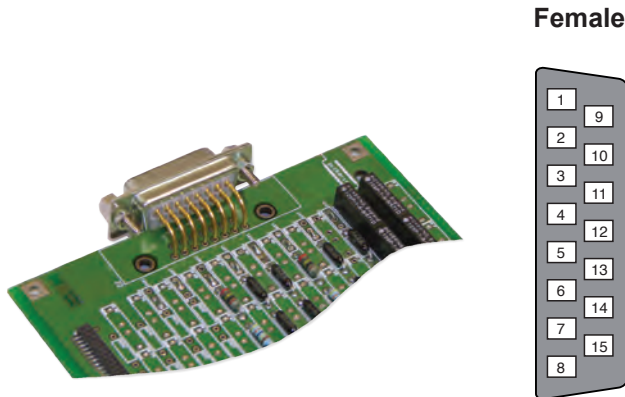
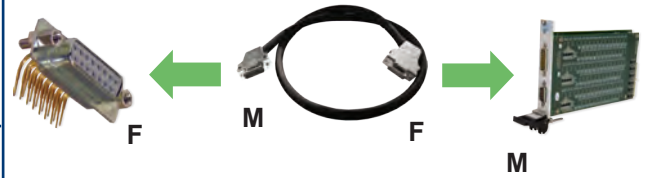
15-Pin D-Type Connector, 5A, Solder Bucket,
 With Backshell, Female 40-960-015-F
 Without Backshell, Female 92-960-015-F

15-Pin D-Type Connector, Right Angle PCB Mount - Female

- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

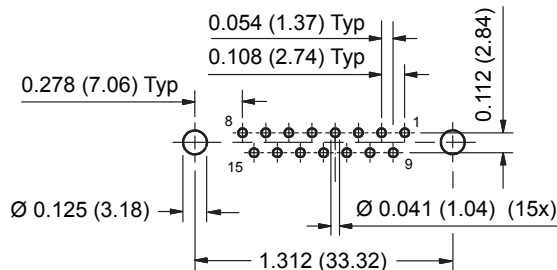
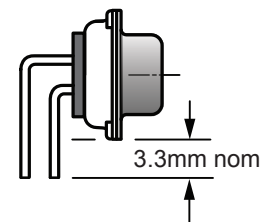
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Technical Specification

Connector Type: Gender Securing Method PCB Mounting	15-Pin D-Subminiature Female 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 250V AC
15-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	3.3mm nom (See diagram)

Effective Leg Length



Mating Face of Connector this side of footprint

**PCB Footprint of 15-Pin Right Angle Female Connector
(Connector Side - Not to Scale)**

Product Order Codes

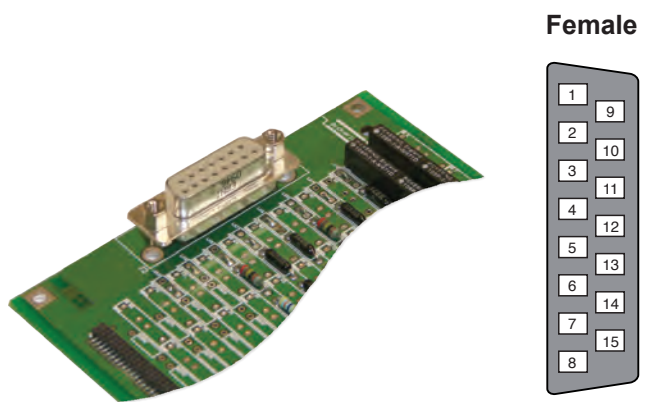
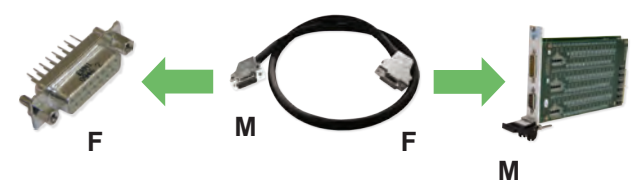
15-Pin D-Type Connector, 5A, Right Angle PCB Mount,
Female **40-963-015-RF**

15-Pin D-Type Connector, Straight PCB Mount - Female

- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

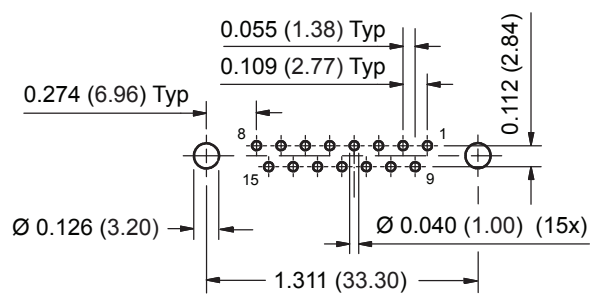
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

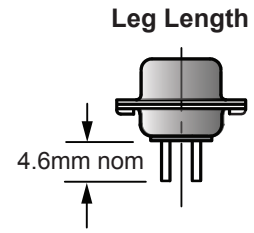


Technical Specification

Connector Type: Gender Securing Method PCB Mounting	15-Pin D-Subminiature Female 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 15-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250V AC Gold plated copper alloy <20mOhm 4.6mm nom (See diagram)



PCB Footprint of 15-Pin Straight Female Connector
(Connector Side - Not to Scale)



Product Order Codes

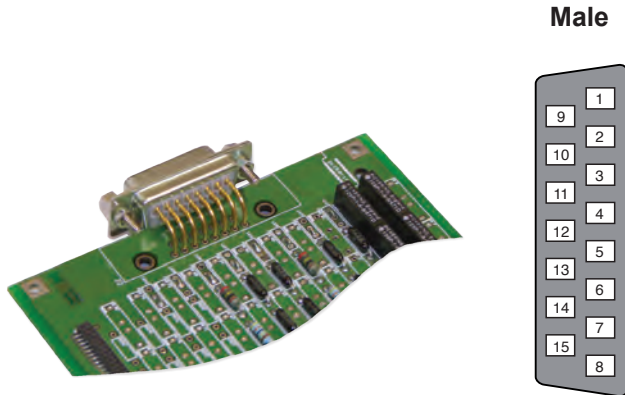
15-Pin D-Type Connector, 5A, Straight PCB Mount, Female **40-963-015-SF**

15-Pin D-Type Connector, Right Angle PCB Mount - Male

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

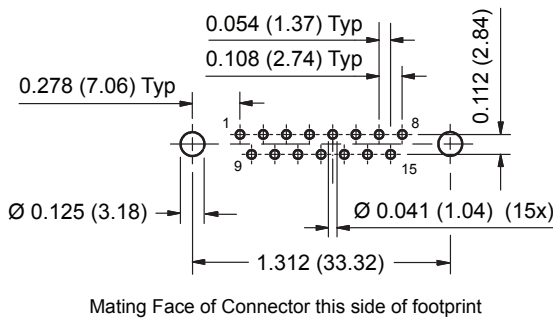
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



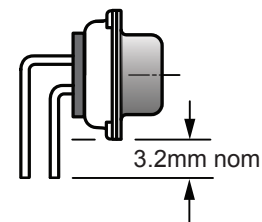
Technical Specification

Connector Type: Gender Securing Method PCB Mounting	15-Pin D-Subminiature Male 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 250V AC
15-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	3.2mm nom (See diagram)



**PCB Footprint of 15-Pin Right Angle Male Connector
(Connector Side - Not to Scale)**

Effective Leg Length



Product Order Codes

15-Pin D-Type Connector, 5A, Right Angle PCB Mount,
Male

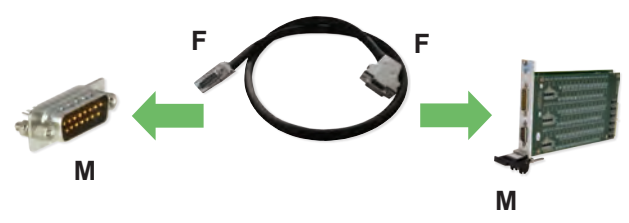
40-963-015-RM

15-Pin D-Type Connector, Straight PCB Mount - Male

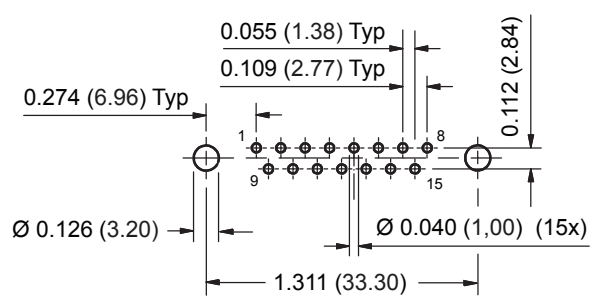
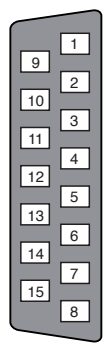
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



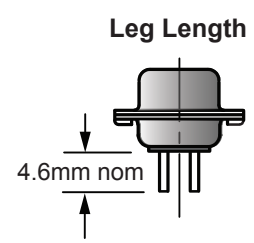
Male



PCB Footprint of 15-Pin Straight Male Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	15-Pin D-Subminiature Male 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 15-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250V AC Gold plated copper alloy <20mOhm 4.6mm nom (See diagram)



Product Order Codes

15-Pin D-Type Connector, 5A, Straight PCB Mount, Male **40-963-015-SM**

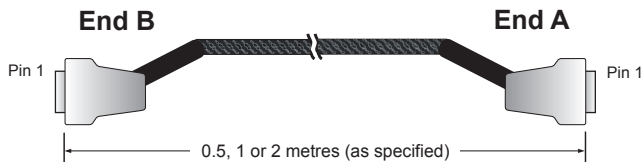
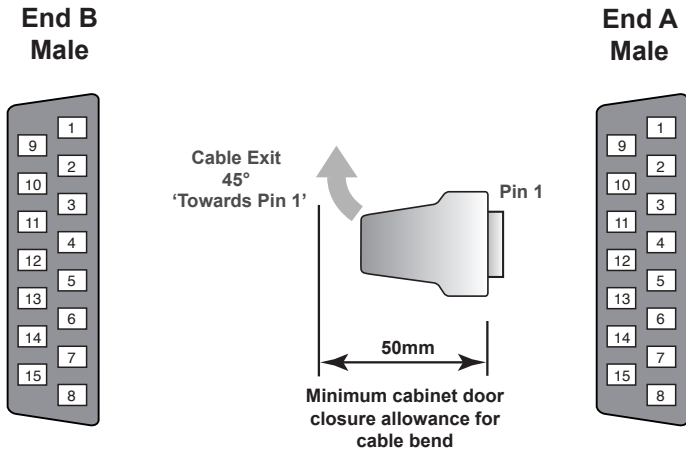
15-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

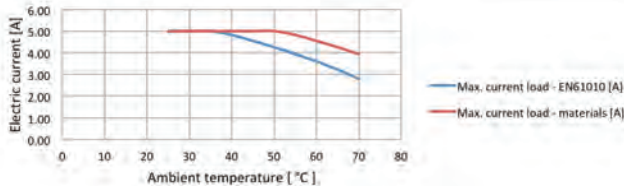
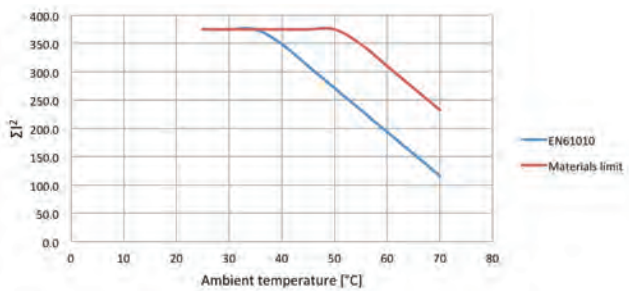
15-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Characteristic Plots for 40-970-015-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A):	15-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	15-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MΩm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	20mΩm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H40 x W15 x D48mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.410mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	8mm
Minimum Bend Radius	25mm
Door Closure Allowance	50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

15-Pin D-Type Cable Assy, 5A, Male to Male,

0.5m Long

40-970-015-0.5m-MM

1.0m Long

40-970-015-1m-MM

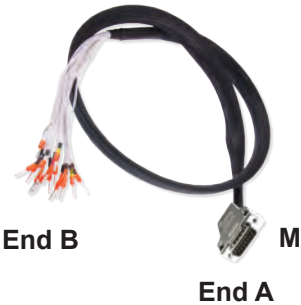
2.0m Long

40-970-015-2m-MM

15-Pin D-Type Cable Assy - Male to Unterminated

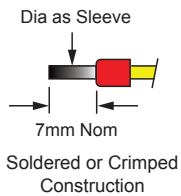
- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

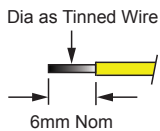


End B Options

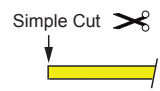
Ferrules



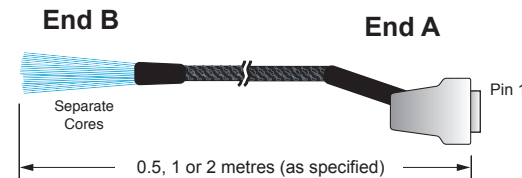
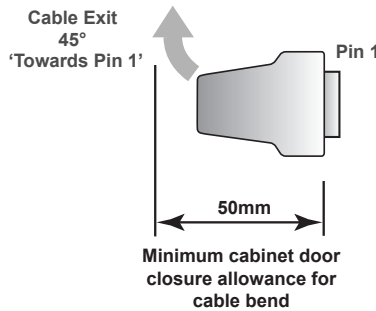
Tinned End



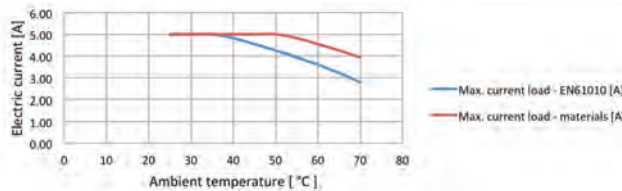
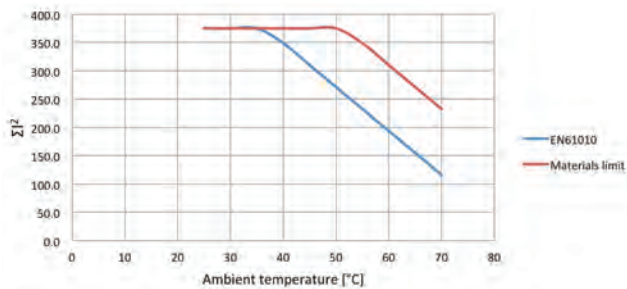
Cut End



End A Male



Characteristic Plots for 40-972-015-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Technical Specification

Connector Type (End A): Gender Securing Method	15-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated ^{Pin 1} copper alloy 20mOhm 45° (Towards Pin 1) H40 x W15 x D48mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 19/0.18 (0.410mm ² , 21AWG) 0.041Ω/m PFA Polyester Yes Yes 8mm 25mm 50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

15-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules,

- Male to Unterminated, 0.5m Long **40-972-015-0.5m-MU**
- Male to Unterminated, 1.0m Long **40-972-015-1m-MU**
- Male to Unterminated, 2.0m Long **40-972-015-2m-MU**

Part numbers for other versions:

End B:
T = Tinned End
C = Cut End

A015DM5-*-0A***

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

15-Pin D-Type Connector - Male

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

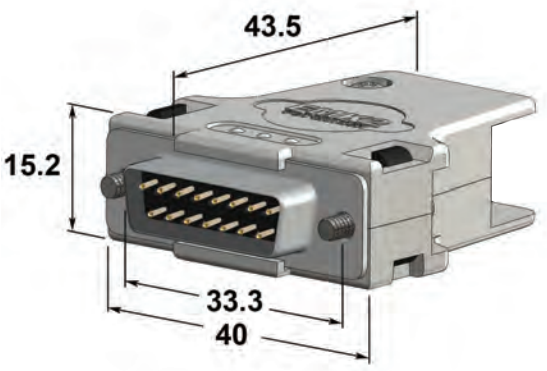
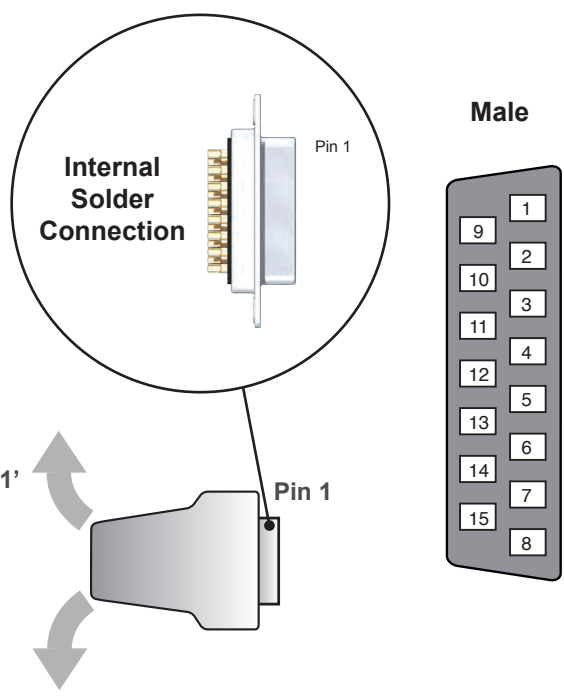
Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



M With Backshell



Technical Specification

Connector Type:	15-Pin D-Subminiature Male
Gender	Male
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	Maximum Current: 5A Maximum Voltage: 250V AC
Cable Exit:	45°
Cable Exit Size	10mm dia
Overall Size (Approx)	H40 x W15 x D48mm
15-Pin D-Sub:	Contact Material: Gold plated copper alloy Contact Resistance: 20mOhm
Wire Connection:	Maximum Wire Size: 20AWG Recommended Insulation: PFA Additional Cable Clamp: Yes (in backshell)

Product Order Codes

15-Pin D-Type Connector, 5A, Solder Bucket,
 With Backshell, Male **40-960-015-M**
 Without Backshell, Male **92-960-015-M**

9-Pin D-type Connection Accessories

- **Standard Voltage and Calibration Port Solutions**
- **Standard Voltage to 250V AC/400V, 5A**
- **Mating Connectors**
- **Connector Hoods**
- **Connector Blocks**
- **Cable Assemblies**
- **Guaranteed Compatibility**
- **9-Pin High Voltage Solutions are also Available**
See Section 20



The Standard Voltage 9-Pin D-Type connector is used on PXI and LXI switching products to provide a standard density, low pin count, 5A connector solution. It is also used as the Calibration Port connector for Precision resistor modules.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all Standard Voltage 9-Pin D-Type Connection Accessories

Cables: Standard Voltage 9-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates With a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-009-0.5m-MF	40-970-009-1m-MF	40-970-009-2m-MF	Yes (Female end)	19.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-009-0.5m-FF	40-970-009-1m-FF	40-970-009-2m-FF	Yes	19.6
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-009-0.5m-MM	40-970-009-1m-MM	40-970-009-2m-MM	No	19.16



Calibration Port Cable For Precision Resistor Modules: 9-Pin D-Type to 4 X 4Mm Bayonet Plug								
End 1		End 2		Product Order Code/Part Number			Mates With a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	1m Long (Max)	1.3m Long (Max)	1.6m Long (Max)		
1 x Female	45° Away from Pin 1	4 x Male	Rear	40-975-009-SL1	-	-	Yes (Female end)	19.14
2 x Female				-	40-975-009-SL2	-		
3 x Female				-	-	40-970-009-SL3		




Cables: Standard Voltage 9-Pin D-Type Connector to Untermated								
End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-009-0.5m-FU	40-972-009-1m-FU	40-972-009-2m-FU	Yes	19.7	
		Cut End	A009DF4-C-0A050	A009DF4-C-0A100	A009DF4-C-0A200	Yes		
		Tinned Ends	A009DF4-T-0A050	A009DF4-T-0A100	A009DF4-T-0A200	Yes		
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-009-0.5m-MU	40-972-009-1m-MU	40-972-009-2m-MU	No	19.17	
		Cut End	A009DM5-C-0A050	A009DM5-C-0A100	A009DM5-C-0A200	No		
		Tinned Ends	A009DM5-T-0A050	A009DM5-T-0A100	A009DM5-T-0A200	No		


Connector Blocks and Connectors: Standard Voltage 9-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Connector Block	Female	Rear	40-965-009-F	92-965-009-F	Yes	19.8
	Male		40-965-009-M	92-965-009-M	No	19.18
Cable Connector	Female	45° Options	40-960-009-F	92-960-009-F	Yes	19.9
	Male	45° Options	40-960-009-M	92-960-009-M	No	19.19


Breakouts and PCB Connectors: Standard Voltage 9-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-009-RF	No	19.10
		Male	N/A	40-963-009-RM	No	19.12
	Straight PCB Mount	Female	N/A	40-963-009-SF	No	19.11
		Male	N/A	40-963-009-SM	No	19.13

Contents - Mating Accessories for Pickering Products

Standard Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 9-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 19.5
		Female	Female	Page 19.6
	Cable Assy, 9-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 19.7



Standard Voltage - Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Connector Block, 9-Pin D-Type, 5A, Screw Terminal.	With or Without Backshell	Female	Page 19.8
	Cable Connector 9-Pin D-Type, 5A, Solder Bucket	With or Without Backshell		Page 19.9
	PCB Connector 9-Pin D-Type, 5A	Right Angle PCB Mount		Page 19.10
		Straight PCB Mount	Page 19.11	



Standard Voltage - Male Pcb Connectors				
View	Description	Type	Gender	Page
	PCB Connector 9-Pin D-Type, 5A	Right Angle PCB Mount	Male	Page 19.12
		Straight PCB Mount		Page 19.13

Standard Voltage - Calibration Cables				
View And Description	End 1	End 2	Page	
	1 x 9-Pin D-Type	4 x 4mm DMM Bayonet Plug	Page 19.14	
	2 x 9-Pin D-Type			
	3 x 9-Pin D-Type			
Cable Assy, 9-Pin D-Type Connector(s), Female to 4 x 4mm DMM Bayonet Plug.				

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Standard Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 9-Pin D-Type, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 19.16
	Cable Assy, 9-Pin D-Type to Unterminated, 5A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 19.17

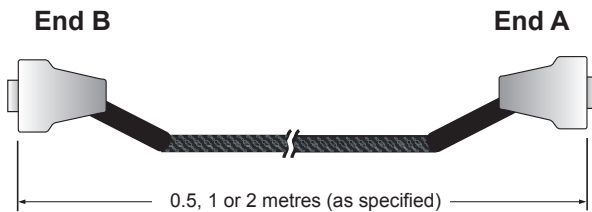
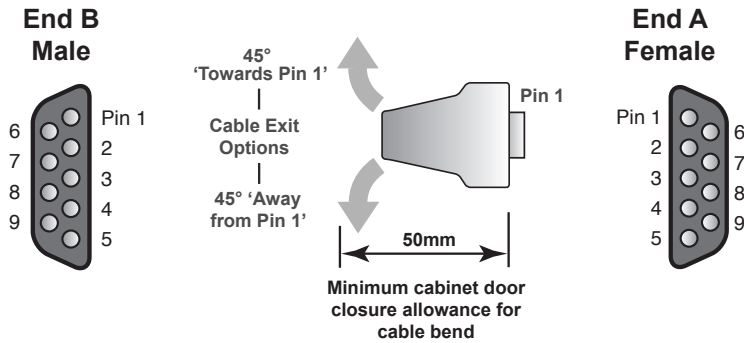
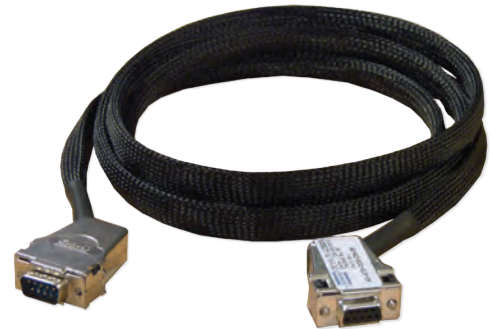
Standard Voltage - Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Connector Block, 9-Pin D-Type , 5A, Screw Terminal.	With or Without Backshell	Male	Page 19.18
	Cable Connector 9-Pin D-Type, 5A, Solder Bucket	With or Without Backshell		Page 19.19

Custom Termination

Section 25

Standard Voltage 9-Pin D-Type Cable Assy - Male to Female

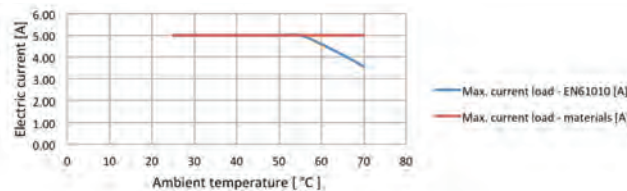
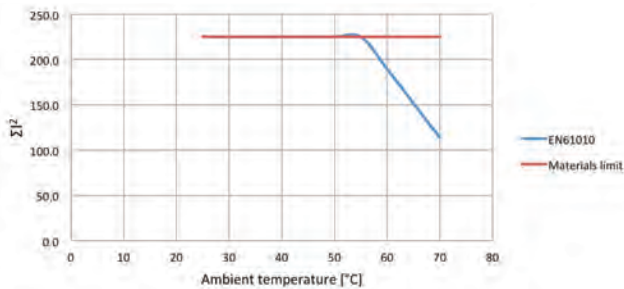
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A):	9-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H32 x W15 x D46mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.4mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	8mm
Minimum Bend Radius	25mm
Door Closure Allowance	50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-009-1m-MF



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

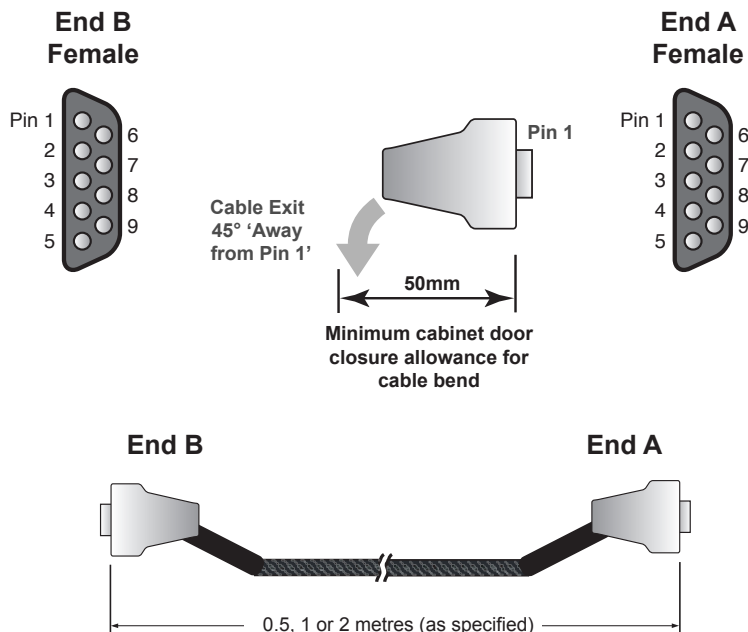
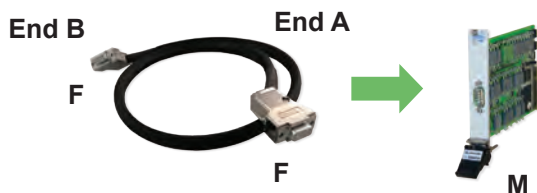
Product Order Codes

9-Pin D-Type Cable Assy, 5A, Male to Female

- 0.5m Long [40-970-009-0.5m-MF](#)
- 1.0m Long [40-970-009-1m-MF](#)
- 2.0m Long [40-970-009-2m-MF](#)

Standard Voltage 9-Pin D-Type Cable Assy - Female to Female

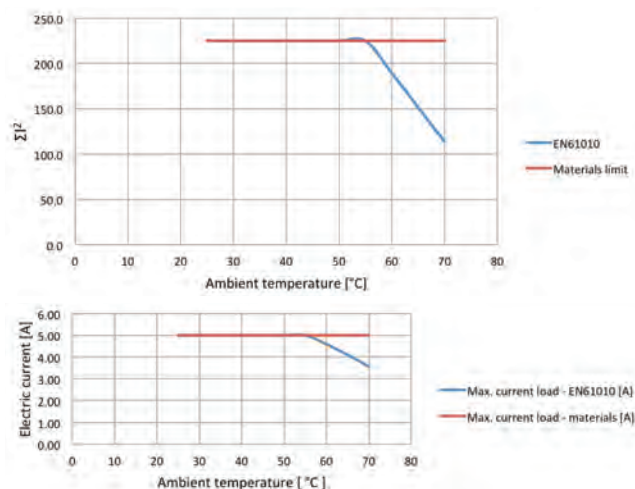
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A):	9-Pin D-Subminiature Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	9-Pin D-Subminiature Female
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H32 x W15 x D46mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.4mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	8mm
Minimum Bend Radius	25mm
Door Closure Allowance	50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-009-1m-FF



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

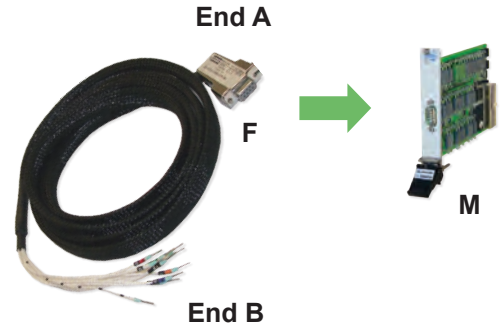
Product Order Codes

9-Pin D-Type Cable Assy, 5A, Female to Female

- 0.5m Long [40-970-009-0.5m-FF](#)
- 1.0m Long [40-970-009-1m-FF](#)
- 2.0m Long [40-970-009-2m-FF](#)

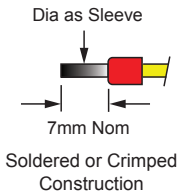
Standard Voltage 9-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Fully Coded Markers to Ensure Easy Connection
- Boot Lace Ferrule Option to Prevent Wire Strand Breakage

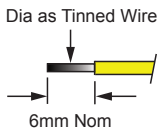


End B Options

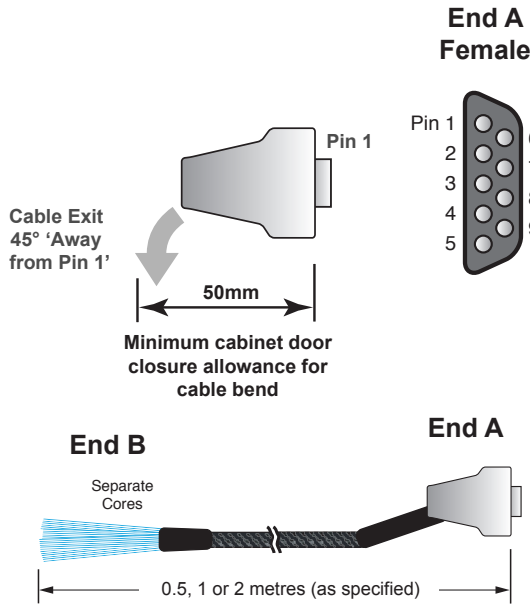
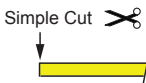
Ferrules



Tinned End



Cut End



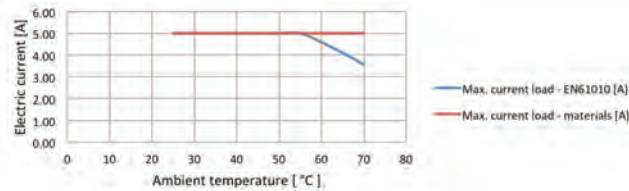
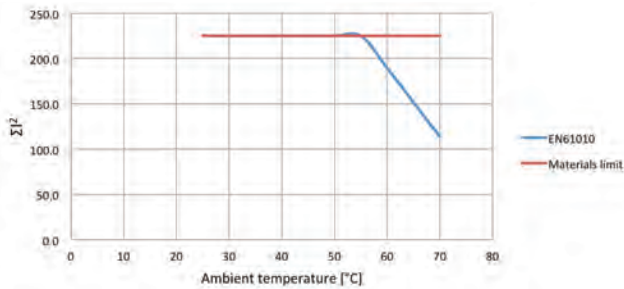
Technical Specification

Connector Type (End A): Gender Securing Method	9-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MΩm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩm 45° (Away from Pin 1) H32 x W15 x D46mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Tinned copper wire 19/0.18 (0.4mm ² , 21AWG) 0.041Ω/m PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 8mm 25mm 50mm (see diagram)

Notes:

- Other cable lengths can be supplied.
- Cable strain relief arrangements may be necessary and appropriate electrical safety precautions should be observed.

Characteristic Plots for 40-972-009-1m-FU



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

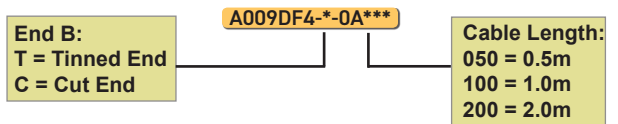
The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

9-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules,

- Female to Unterminated, 0.5m Lg **40-972-009-0.5m-FU**
- Female to Unterminated, 1.0m Lg **40-972-009-1m-FU**
- Female to Unterminated, 2.0m Lg **40-972-009-2m-FU**

Part numbers for other versions:



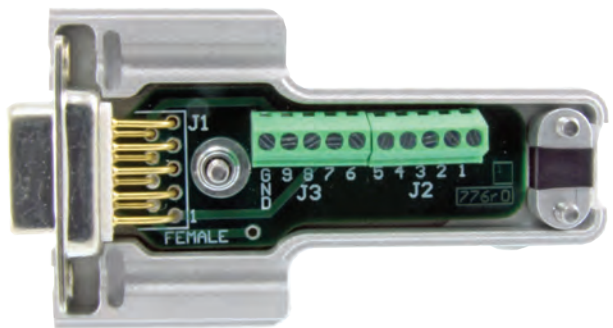
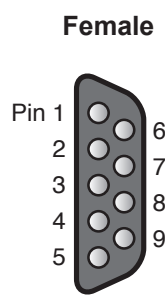
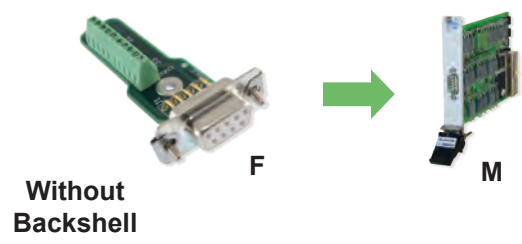
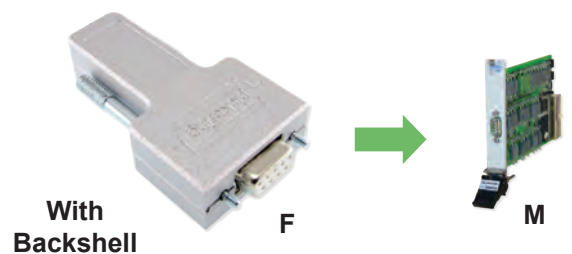
Standard Voltage 9-Pin D-Type Connector Block - Female

- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

Suitable for use on the front of modules this connector block provides a simple method of connecting to 9-Pin D-Type connectors. The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. Connector blocks have higher losses than a cable connection and the breakdown voltage is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	5A
Maximum Voltage	200VDC
Cable Exit	Rear - 10 x 8.8mm
Overall Size (Approx)	H37.5 x W16.5 x D71mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

- 9-Pin D-Type Shielded Connector Block, 5A, Screw Terminal, With Backshell, Female **40-965-009-F**
- 9-Pin D-Type Shielded Connector Block, 5A, Screw Terminal, Without Backshell, Female **92-965-009-F**

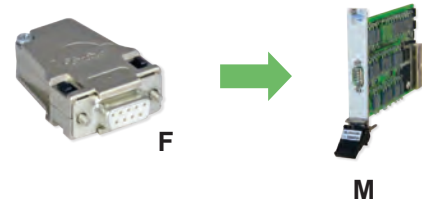
Standard Voltage 9-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

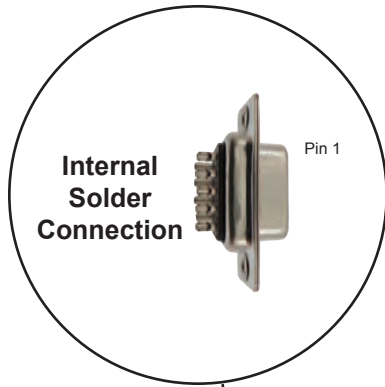
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

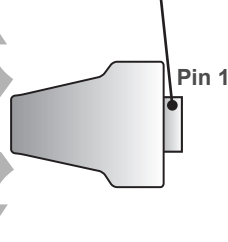
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



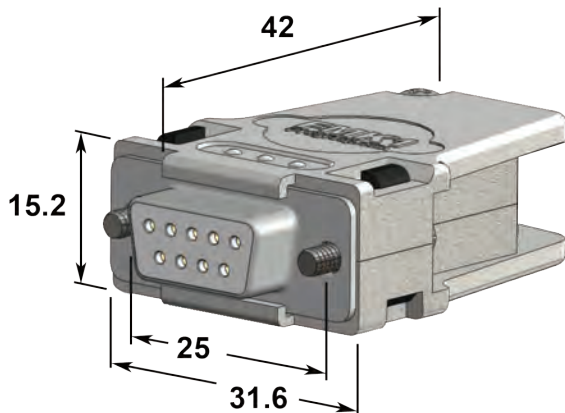
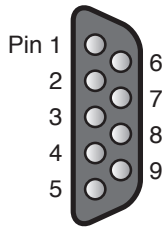
With Backshell



45°
'Towards Pin 1'
Cable Exit Options
45° 'Away from Pin 1'



Female



Technical Specification

Connector Type:	9-Pin D-Subminiature
Gender	Female
Securing Method:	4-40 UNC screwlocks, male
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	250VAC
Cable Exit:	45°
Cable Exit Size	15mm dia
Overall Size (Approx)	H32 x W15 x D46mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

9-Pin D-Type Connector, 5A, Solder Bucket,
With Backshell, Female
Without Backshell, Female

40-960-009-F

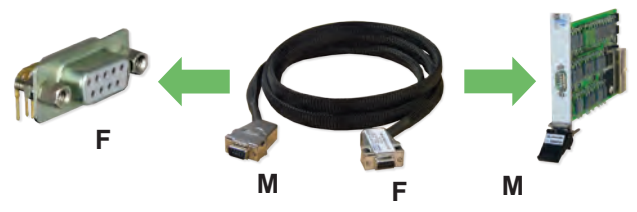
92-960-009-F

Standard Voltage 9-Pin D-Type Connector, Right Angle PCB Mount - Female

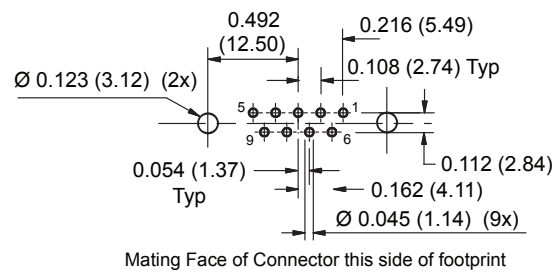
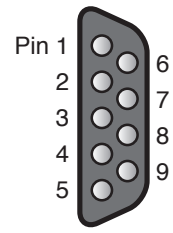
- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

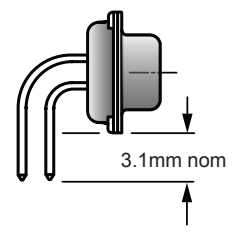


PCB Footprint of 9-Pin Right Angle Female Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	9-Pin D-Subminiature Female 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 9-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Effective Leg Length	5A each pin 250VAC Gold plated copper alloy <20mOhm 3.1mm nom (See diagram)

Effective Leg Length



Product Order Codes

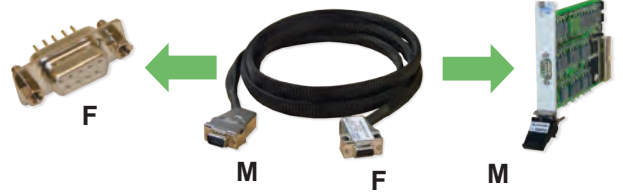
9-Pin D-Type Connector, 5A, Right Angle PCB Mount
 Female 40-963-009-RF

Standard Voltage 9-Pin D-Type Connector, Straight PCB Mount - Female

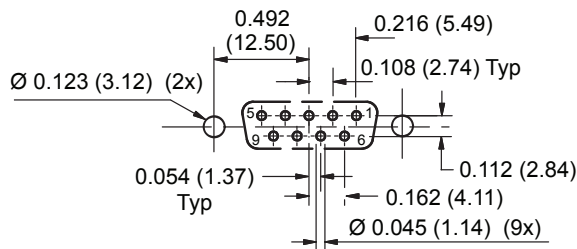
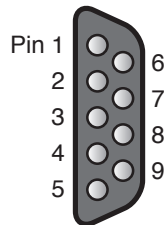
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



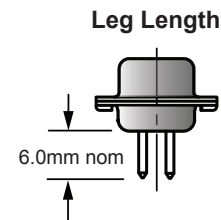
Female



PCB Footprint of 9-Pin Straight Female Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	9-Pin D-Subminiature Female 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 9-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250VAC Gold plated copper alloy <20mOhm 6.0mm nom (See diagram)



Product Order Codes

**9-Pin D-Type Connector, 5A, Straight PCB Mount
Female**

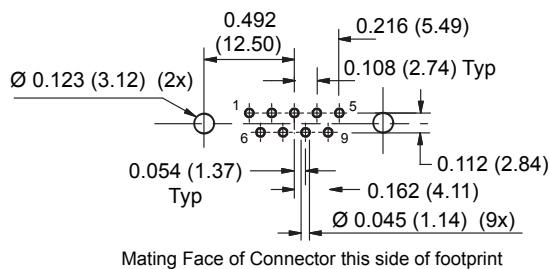
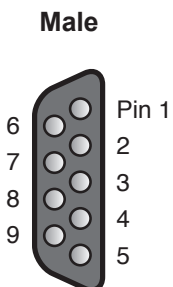
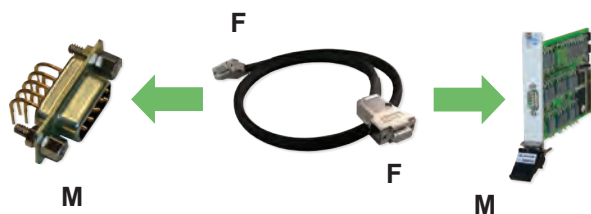
40-963-009-SF

Standard Voltage 9-Pin D-Type Connector, Right Angle PCB Mount - Male

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

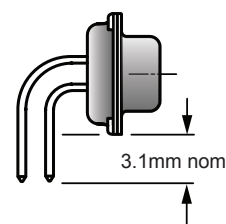


PCB Footprint of 9-Pin Right Angle Male Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	9-Pin D-Subminiature Male 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 9-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Effective Leg Length	5A each pin 250VAC Gold plated copper alloy <20mOhm 3.1mm nom (See diagram)

Effective Leg Length



Product Order Codes

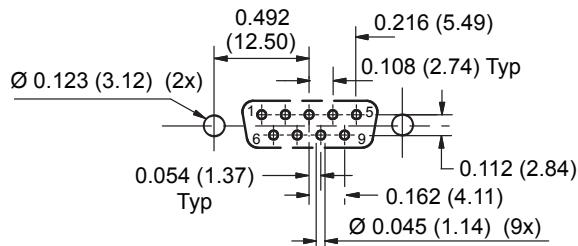
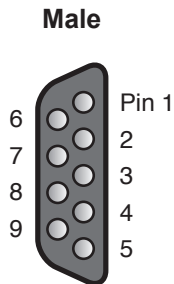
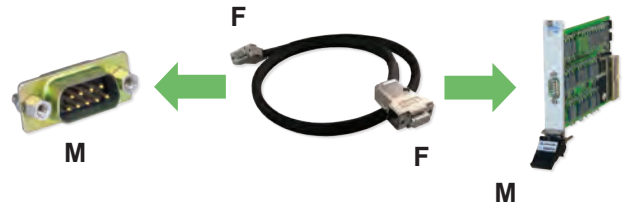
9-Pin D-Type Connector, 5A, Right Angle PCB Mount Male 40-963-009-RM

Standard Voltage 9-Pin D-Type Connector, Straight PCB Mount - Male

- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

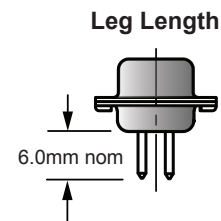
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



PCB Footprint of 9-Pin Straight Male Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	9-Pin D-Subminiature Male 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 9-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Leg Length	5A each pin 250VAC Gold plated copper alloy <20mOhm 6.0mm nom (See diagram)



Product Order Codes

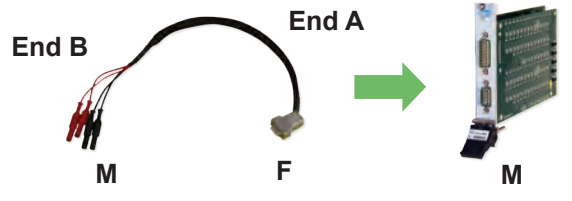
9-Pin D-Type Connector, 5A, Straight PCB Mount Male

40-963-009-SM

Module Specific Calibration Port Cable - Precision Resistor Modules

- High Specification Cable
- Stranded Hi-Flex PVC Cable
- Strain Relief
- Braided Sleeving
- Fully Screened Cable Construction

The cable assembly is specifically designed to connect to the 9-Pin D-Type calibration port located on the front panel of Pickering Interfaces Module Part Numbers 40-260, 40-261, 40-262 and 40-265. Three product types are available.



40-975-009-SL1

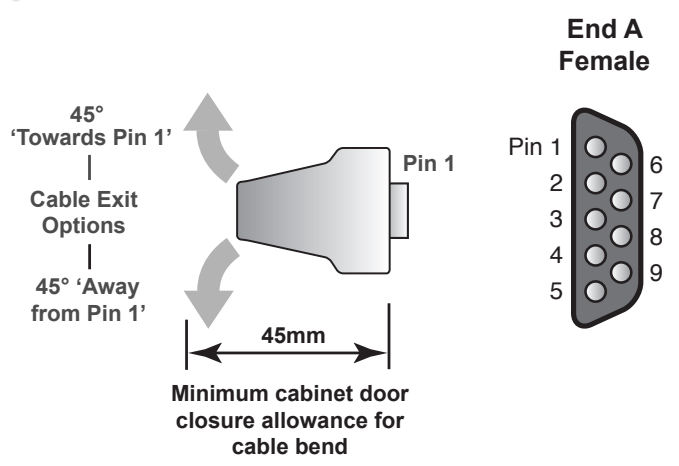
Other versions adjacent.



40-975-009-SL2

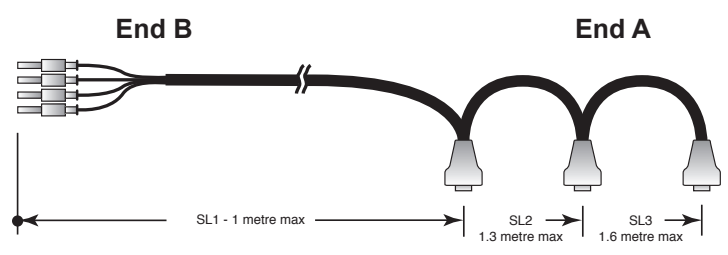


40-975-009-SL3



Technical Specification

Connector Type (End A): Gender Securing Method Contact Material Contact Resistance Cable Exit Overall Size (Approx)	9-Pin D-Subminiature Female 4-40 UNC screwlocks, male Gold plated copper alloy <20mOhm 45° (Away from Pin 1) H36 x W15 x D46mm
Connector Type (End B): Gender Securing Method Contact Material Contact Resistance Cable Exit Overall Size (Approx)	4 x 4mm DMM Bayonet Plug Male Push fit Gold plated copper alloy <20mOhm Rear 50 x 8.5mm dia
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 750V 1000MOhm
Cable Type: Conductor: Material Strands Resistance Insulation	Stranded Hi-Flex PVC Tinned copper wire 259/0.07 (1.0mm ² , 17AWG) - PVC
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester No Yes 8mm 10mm 45mm (see diagram)
Notes:	Other cable lengths can be supplied.



Product Order Codes

- 1 x 9-Pin D-Type connector, Female to 4 x 4mm DMM Bayonet Plug **40-975-009-SL1**
- 2 x 9-Pin D-Type connector, Female to 4 x 4mm DMM Bayonet Plug **40-975-009-SL2**
- 3 x 9-Pin D-Type connector, Female to 4 x 4mm DMM Bayonet Plug **40-975-009-SL3**

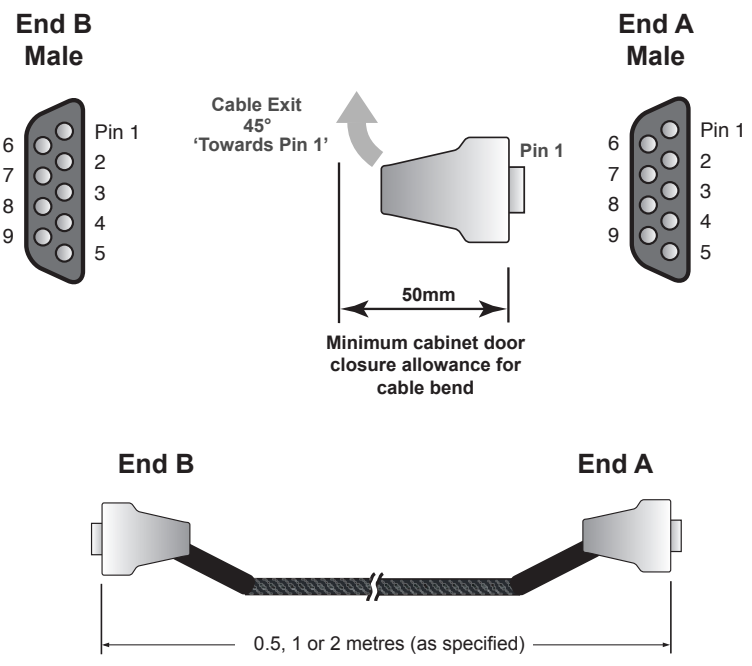
Standard Voltage 9-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Standard Voltage 9-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

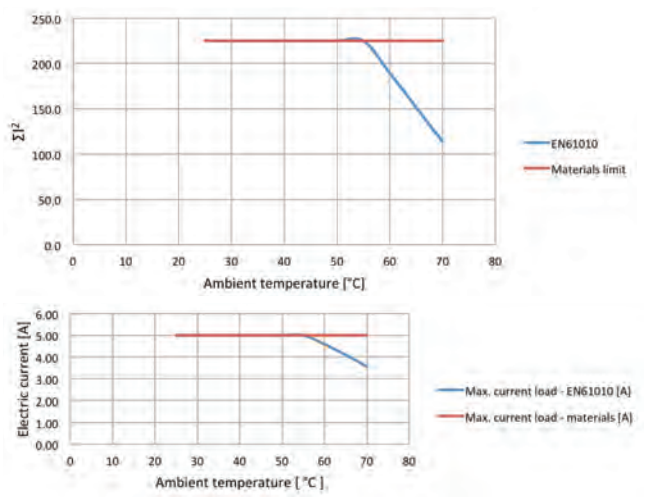
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	9-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	250VAC/400VDC
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H32 x W15 x D46mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	19/0.18 (0.4mm ² , 21AWG)
Resistance	0.041Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	8mm
Minimum Bend Radius	25mm
Door Closure Allowance	50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-009-1m-MM



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

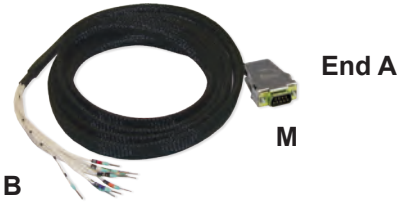
Product Order Codes

- 9-Pin D-Type Cable Assy, 5A, Male to Male**
- 0.5m Long 40-970-009-0.5m-MM
 - 1.0m Long 40-970-009-1m-MM
 - 2.0m Long 40-970-009-2m-MM

Standard Voltage 9-Pin D-Type Cable Assy - Male to Unterminated

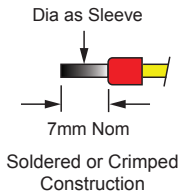
- High Specification and Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Fully Coded Markers to Ensure Easy Connection
- Boot Lace Ferrule Option to Prevent Wire Strand Breakage

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

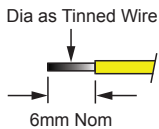


End B Options

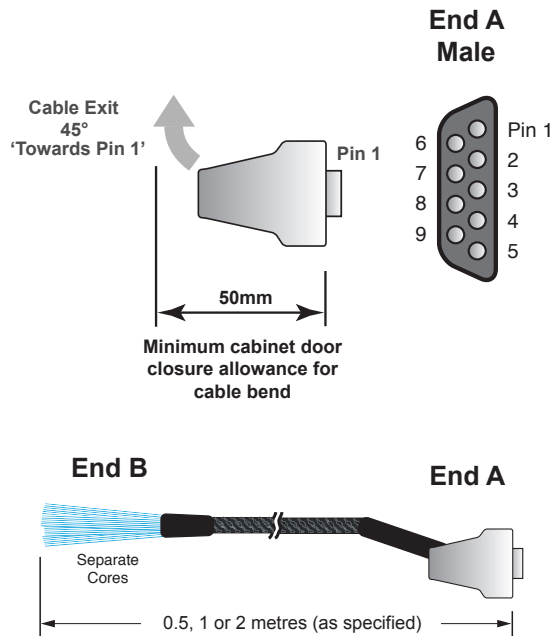
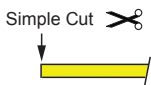
Ferrules



Tinned End



Cut End



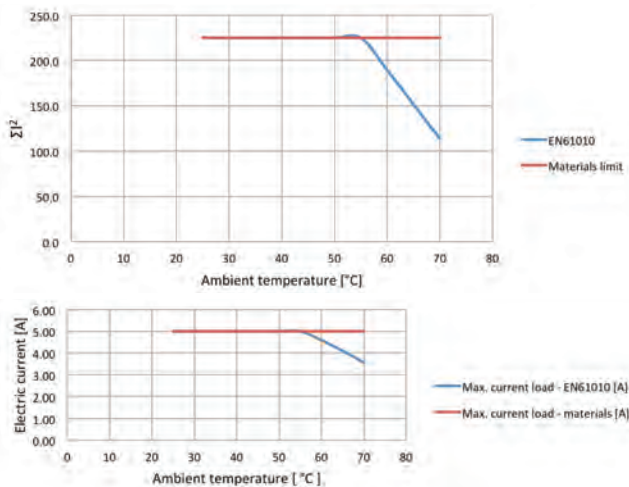
Technical Specification

Connector Type (End A): Gender Securing Method	9-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	5A 250VAC/400VDC 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (Towards Pin 1) H32 x W15 x D46mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Tinned copper wire 19/0.18 (0.4mm ² , 21AWG) 0.041Ω/m PFA
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 8mm 25mm 50mm (see diagram)

Notes:

- Other cable lengths can be supplied.
- Cable strain relief arrangements may be necessary and appropriate electrical safety precautions should be observed.

Characteristic Plots for 40-972-009-1m



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 9-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules,
Male to Unterminated, 0.5m Long 40-972-009-0.5m-MU
Male to Unterminated, 1.0m Long 40-972-009-1m-MU
Male to Unterminated, 2.0m Long 40-972-009-2m-MU

Part numbers for other versions:

End B:
T = Tinned End
C = Cut End

A009DM5-* -0A***

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

Standard Voltage 9-Pin D-Type Connector Block - Male

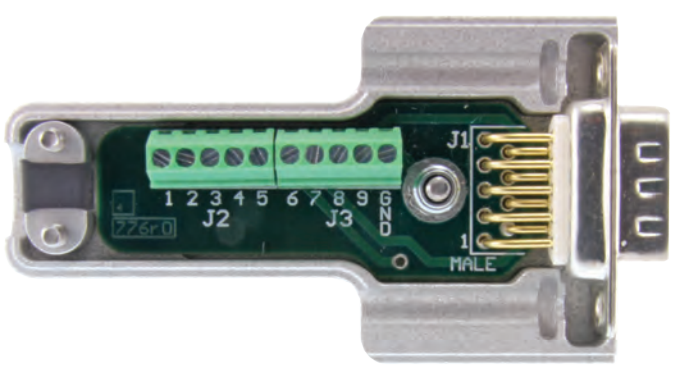
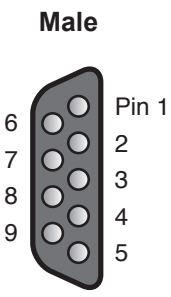
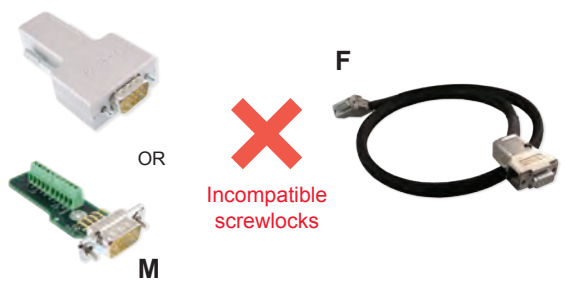
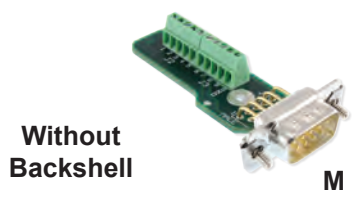
- Connector and PCB Only or Connector, PCB and Backshell
- Male Screwlocks
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. PTFE cables are recommended for use with this connector block to maximise copper cross-sectional area and insulation properties. Connector blocks have higher losses than a cable connection and the breakdown voltage is controlled by clearances to the metal shell. The metal shell includes an internal insulation barrier under the carrier board.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector Block is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type:	9-Pin D-Subminiature Male
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	5A
Maximum Voltage	200VDC
Cable Exit	Rear - 10 x 8.8mm
Overall Size (Approx)	H37.5 x W16.5 x D71mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

9-Pin D-Type Shielded Connector Block, 5A, Screw Terminal, With Backshell, Male 40-965-009-M
Without Backshell, Male 92-965-009-M

Standard Voltage 9-Pin D-Type Connector - Male

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

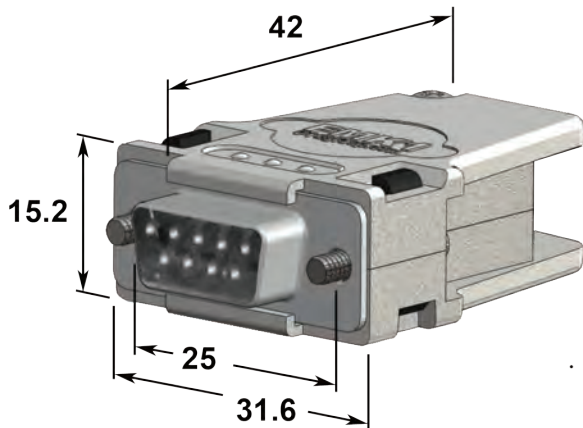
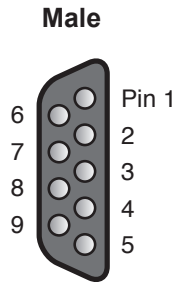
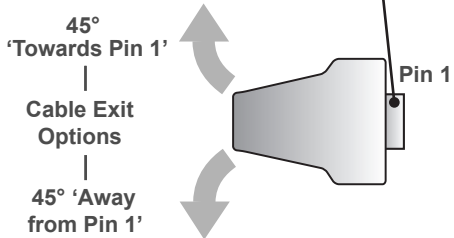
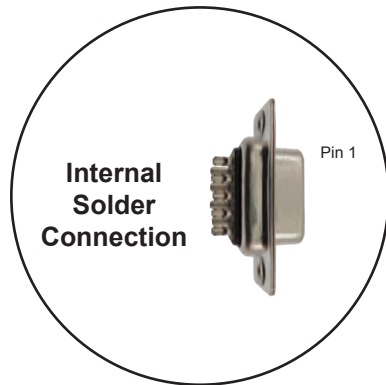
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



With Backshell

M



Technical Specification

Connector Type:	9-Pin D-Subminiature Male
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	250VAC
Cable Exit:	45°
Cable Exit Size	15mm dia
Overall Size (Approx)	H32 x W15 x D46mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

9-Pin D-Type Connector, 5A, Solder Bucket,
With Backshell, Male
Without Backshell, Male

40-960-009-M
92-960-009-M

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High Voltage 9-Pin D-type Connection Accessories

- **High Voltage to 750V Working/1000VDC AC Peak Typical, 5A**
- **Mating Connectors**
- **Connector Hoods**
- **Cable Assemblies**
- **Guaranteed Compatibility**
- **9-Pin Standard Voltage Solutions are also Available. See Section 19**



The High Voltage 9-Pin D-Type connector is used on LXI switching products to provide a high voltage connector solution. Pickering Interfaces has developed a full range of standard connection solutions to simplify the task of integrating products into a test system.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all High Voltage 9-Pin D-Type Connection Accessories



Cables: High Voltage 9-Pin D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-009-0.5m-MF-HV	40-970-009-1m-MF-HV	40-970-009-2m-MF-HV	Yes (Female end)	20.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-009-0.5m-FF-HV	40-970-009-1m-FF-HV	40-970-009-2m-FF-HV	Yes	20.6
Male	45° Towards Pin 1	Male	45° Towards Pin 1	40-970-009-0.5m-MM-HV	40-970-009-1m-MM-HV	40-970-009-2m-MM-HV	No	20.14




Cables: High Voltage 9-Pin D-Type Connector to Underterminated								
End 1		End 2 Underterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	40-972-009-0.5m-FU-HV	40-972-009-1m-FU-HV	40-972-009-2m-FU-HV	Yes	20.7	
		Tinned Ends	A009DF4-T-HA050	A009DF4-T-HA100	A009DF4-T-HA200	Yes		
		Cut End	A009DF4-C-HA050	A009DF4-C-HA100	A009DF4-C-HA200	Yes		
Male	45° Towards Pin 1	Boot Lace Ferrules	40-972-009-0.5m-MU-HV	40-972-009-1m-MU-HV	40-972-009-2m-MU-HV	No	20.15	
		Tinned Ends	A009DM5-T-HA050	A009DM5-T-HA100	A009DM5-T-HA200	No		
		Cut End	A009DM5-C-HA050	A009DM5-C-HA100	A009DM5-C-HA200	No		


Cable Connectors: High Voltage 9-Pin D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Female	45° Options	40-960-009-F-HV	92-960-009-F-HV	Yes	20.8
	Male	45° Options	40-960-009-M-HV	92-960-009-M-HV	No	20.16

PCB Connectors: High Voltage 9-Pin D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-009-RF-HV	No	20.9
		Male	N/A	40-963-009-RM-HV	No	20.11
	Straight PCB Mount	Female	N/A	40-963-009-SF-HV	No	20.10
		Male	N/A	40-963-009-SM-HV	No	20.12

Contents - Mating Accessories for Pickering Products



High Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 9-Pin D-Type, 5A, High Voltage, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 20.5
		Female	Female	Page 20.6
	Cable Assy, 9-Pin D-Type to Unterminated, 5A, High Voltage, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 20.7


High Voltage - Female Connector Blocks/Connectors				
View	Description	Type	Gender	Page
	Cable Connector 9-Pin D-Type, 5A, High Voltage, Solder Bucket	With or Without Backshell	Female	Page 20.8
		Right Angle PCB Mount		Page 20.9
		Straight PCB Mount		Page 20.10

High Voltage - Male PCB Connectors				
View	Description	Type	Gender	Page
	PCB Connector 9-Pin D-Type, 5A, High Voltage	Right Angle PCB Mount	Male	Page 20.11
		Straight PCB Mount		Page 20.12

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

High Voltage - Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 9-Pin D-Type, 5A, High Voltage, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 20.14
	Cable Assy, 9-Pin D-Type to Unterminated, 5A, High Voltage, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 20.15

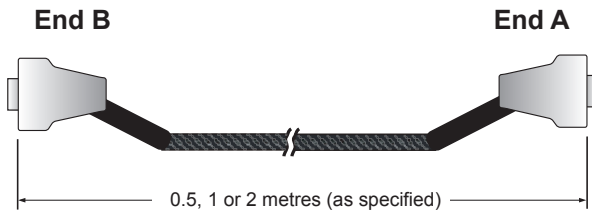
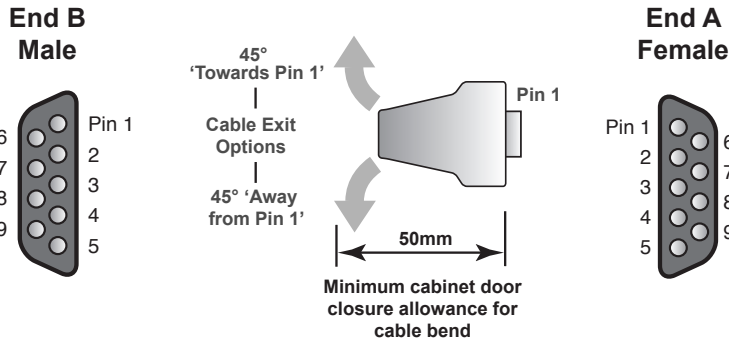
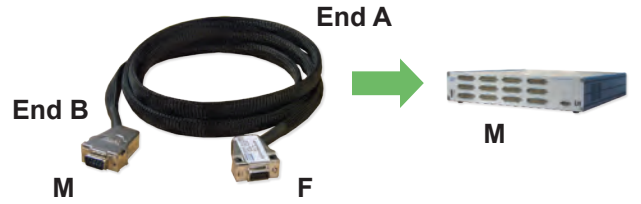
High Voltage - Male Connectors				
View	Description	Type	Gender	Page
	Cable Connector 9-Pin D-Type, 5A, High Voltage, Solder Bucket	With or Without Backshell	Male	Page 20.16

Custom Termination

Section 25

High Voltage 9-Pin D-Type Cable Assy - Male to Female

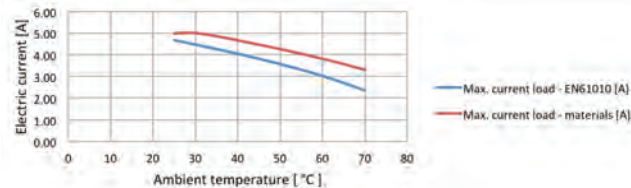
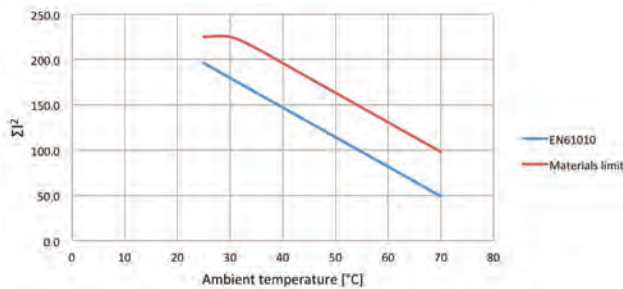
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A): Gender Securing Method	9-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	9-Pin D-Subminiature, HV Male 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000VDC peak typical
Insulation Resistance	1000MOhm
Connectors: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
Cable Exit: Female Connectors Male Connectors	45° (Away from Pin 1) 45° (Towards Pin 1)
Overall Size (Approx)	H36 x W15 x D46mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.2mm ² , 24AWG) 0.089Ω/m (max) at 20°C PTFE Type C (BS3G210)
Outer Sleeve Screened Construction Additional Braided Sleeve	Polyester Yes Yes
Cable O/D Minimum Bend Radius Door Closure Allowance	8mm 25mm 50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-009-1m-MF-HV



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

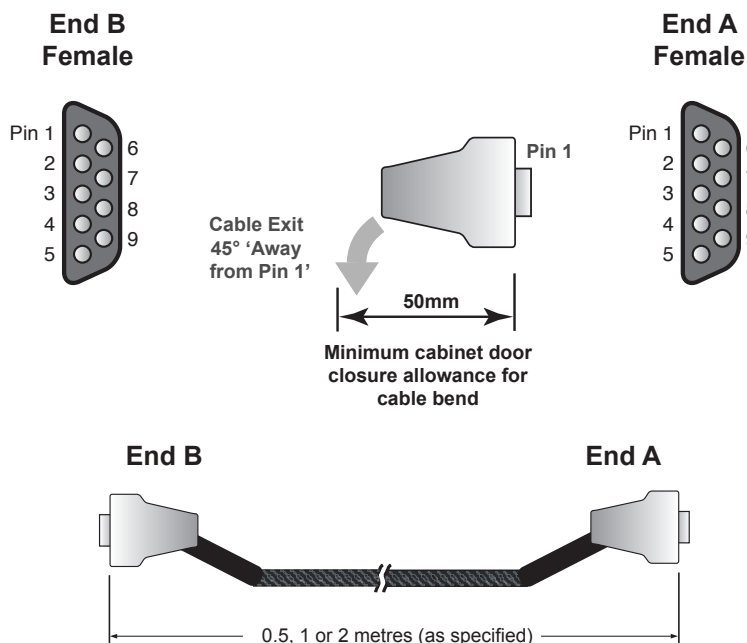
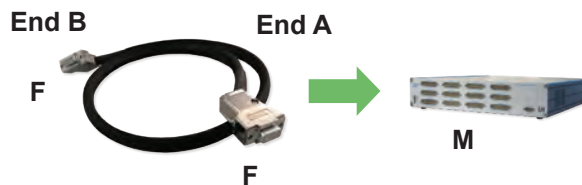
9-Pin D-Type Cable Assy, 5A, Male to Female, HV

- 0.5m Long
- 1.0m Long
- 2.0m Long

- 40-970-009-0.5m-MF-HV**
- 40-970-009-1m-MF-HV**
- 40-970-009-2m-MF-HV**

High Voltage 9-Pin D-Type Cable Assy - Female to Female

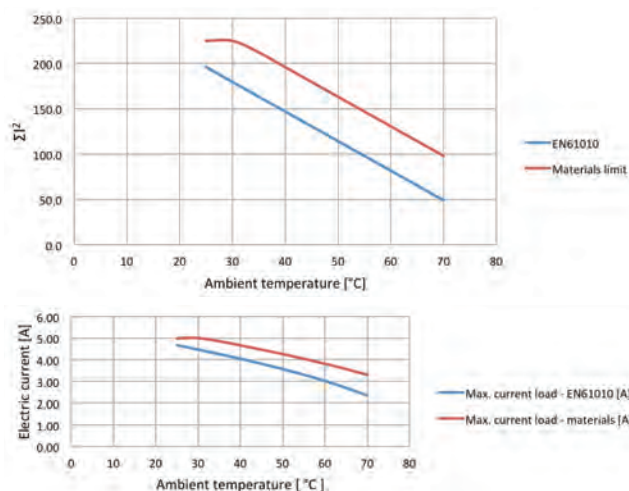
- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A): Gender Securing Method	9-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	9-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000VDC peak typical
Insulation Resistance	1000MΩm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩm 45° (Away from Pin 1) H36 x W15 x D46mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.2mm ² , 24AWG) 0.089Ω/m (max) at 20°C PTFE Type C (BS3G210) Polyester Yes Yes 8mm 25mm 50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-009-1m-FF-HV



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

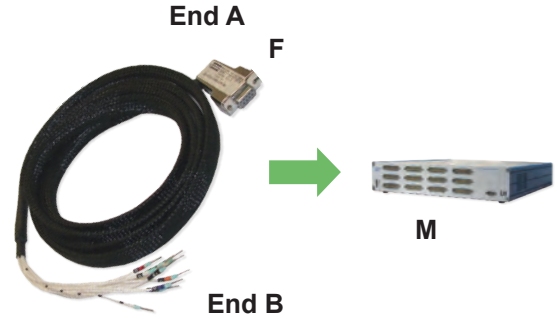
The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 9-Pin D-Type Cable Assy, 5A, Female to Female, HV**
- 0.5m Long 40-970-009-0.5m-FF-HV
 - 1.0m Long 40-970-009-1m-FF-HV
 - 2.0m Long 40-970-009-2m-FF-HV

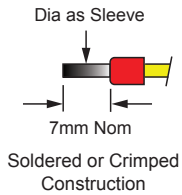
High Voltage 9-Pin D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Fully Coded Markers to Ensure Easy Connection
- Boot Lace Ferrule Option to Prevent Wire Strand Breakage

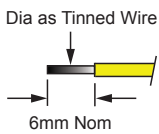


End B Options

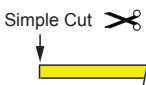
Ferrules



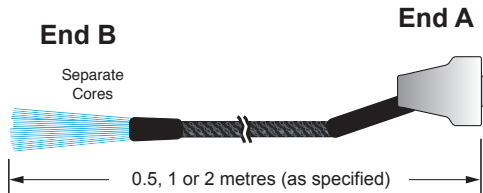
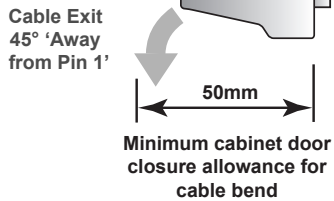
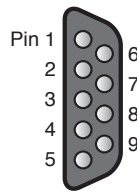
Tinned End



Cut End



End A Female



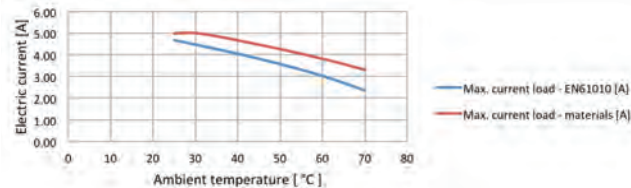
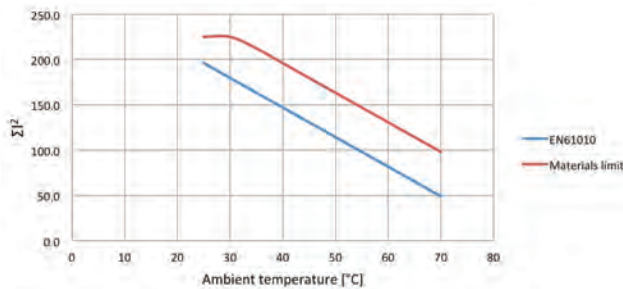
Technical Specification

Connector Type (End A): Gender Securing Method	9-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000VDC peak typical 1000MΩ
Insulation Resistance	
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mΩ 45° (Away from Pin 1) H36 x W15 x D46mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.2mm ² , 24AWG) 0.089Ω/m (max) at 20°C PTFE Type C (BS3G210)
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 8mm 25mm 50mm (see diagram)

Notes:

- Other cable lengths can be supplied.
- Cable strain relief arrangements may be necessary and appropriate electrical safety precautions should be observed.

Characteristic Plots for 40-972-009-1m-FU-HV



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 9-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules, HV
- Female to Unterminated, 0.5m Lg **40-972-009-0.5m-FU-HV**
 - Female to Unterminated, 1.0m Lg **40-972-009-1m-FU-HV**
 - Female to Unterminated, 2.0m Lg **40-972-009-2m-FU-HV**

Part numbers for other versions:

End B: T = Tinned End C = Cut End	A009DF4-*-HA***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
---	------------------------	---

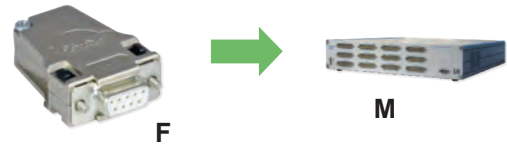
High Voltage 9-Pin D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

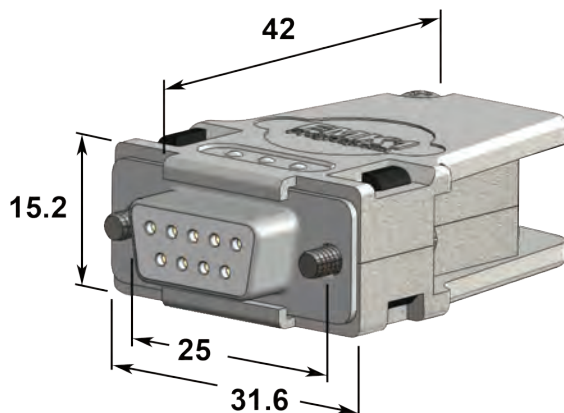
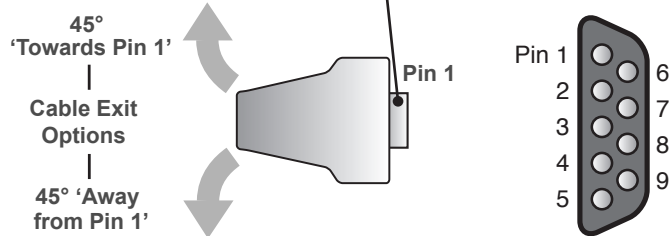
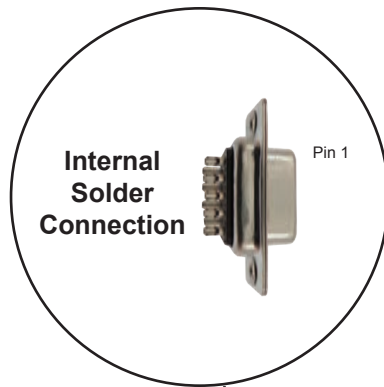
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell



Technical Specification

Connector Type:	9-Pin D-Subminiature, HV
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	750V working/1000VDC peak typical
Cable Exit:	45°
Cable Exit Size	15mm dia
Overall Size (Approx)	H36.1 x W15.2 x D46mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE Type C
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

9-Pin D-Type Connector, 5A, Solder Bucket, HV

With Backshell, Female

[40-960-009-F-HV](#)

Without Backshell, Female

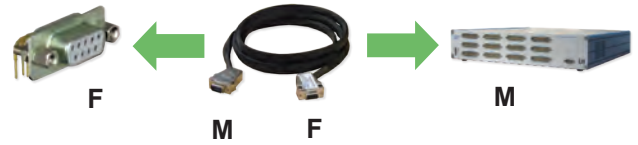
[92-960-009-F-HV](#)

High Voltage 9-Pin D-Type Connector, Right Angle PCB Mount - Female

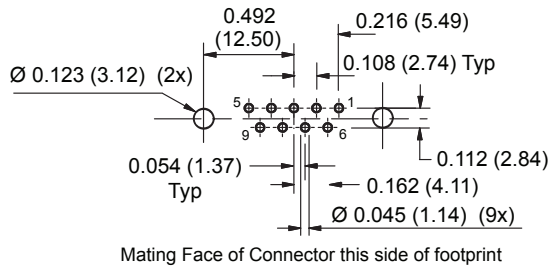
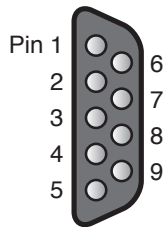
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

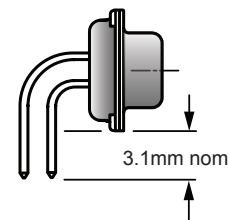


PCB Footprint of 9-Pin Right Angle Female HV Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	9-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 750VDC/AC peak
9-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Effective Leg Length	3.1mm nom (See diagram)

Effective Leg Length



Product Order Codes

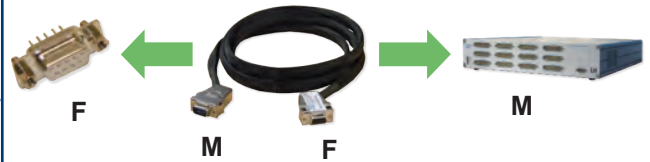
9-Pin D-Type Connector, 5A, Right Angle PCB Mount, HV Female **40-963-009-RF-HV**

High Voltage 9-Pin D-Type Connector, Straight PCB Mount - Female

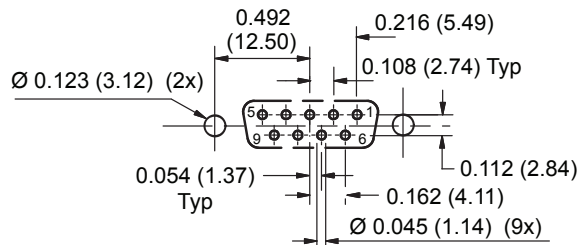
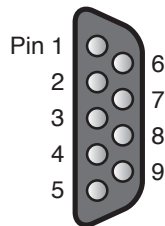
- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Female

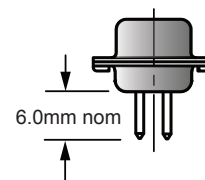


PCB Footprint of 9-Pin Straight Female HV Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	9-Pin D-Subminiature, HV Female 4-40 UNC screwlocks, female Straight PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage	5A each pin 750VDC/AC peak
9-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy <20mOhm
PCB Legs: Leg Length	6.0mm nom (See diagram)

Leg Length



Product Order Codes

9-Pin D-Type Connector, 5A, Straight PCB Mount, HV
Female

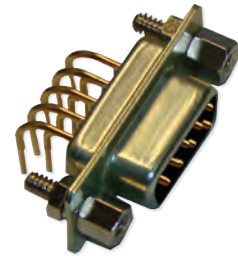
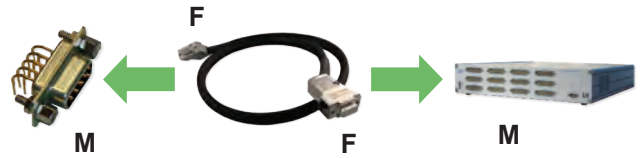
40-963-009-SF-HV

High Voltage 9-Pin D-Type Connector, Right Angle PCB Mount - Male

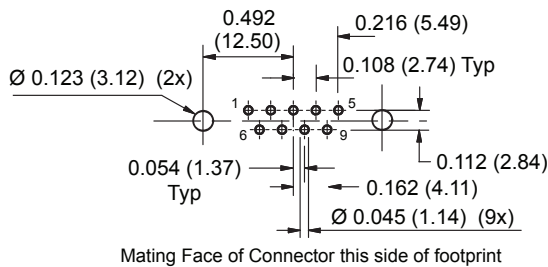
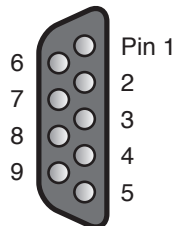
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male

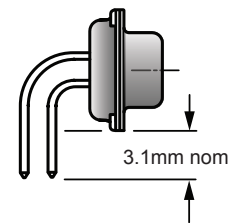


PCB Footprint of 9-Pin Right Angle Male HV Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type:	9-Pin D-Subminiature, HV
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	5A each pin
Maximum Voltage	750VDC/AC peak
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Effective Leg Length	3.1mm nom (See diagram)

Effective Leg Length



Product Order Codes

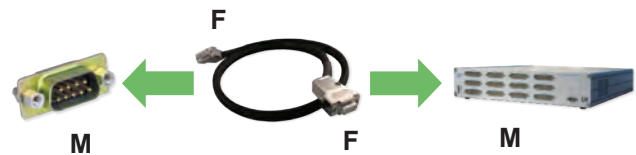
9-Pin D-Type Connector, 5A, Right Angle PCB Mount, HV Male
40-963-009-RM-HV

High Voltage 9-Pin D-Type Connector, Straight PCB Mount - Male

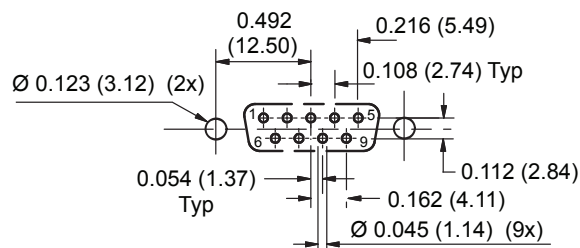
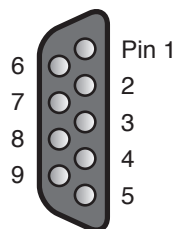
- Straight PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



Male

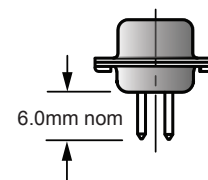


PCB Footprint of 9-Pin Straight Male HV Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	9-Pin D-Subminiature, HV
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	5A each pin
Maximum Voltage	750VDC/AC peak
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
PCB Legs:	
Leg Length	6.0mm nom (See diagram)

Leg Length



Product Order Codes

9-Pin D-Type Connector, 5A, Straight PCB Mount, HV
Male

40-963-009-SM-HV

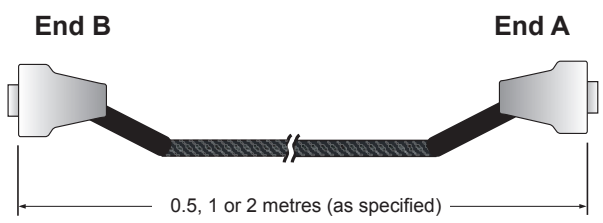
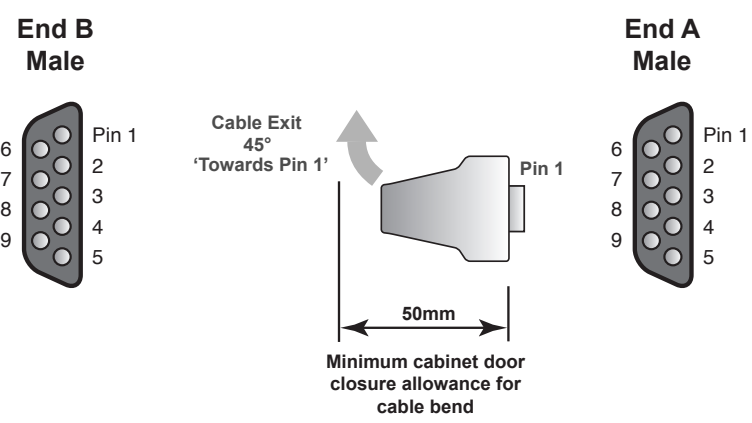
High Voltage 9-Pin D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

High Voltage 9-Pin D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Slewing
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

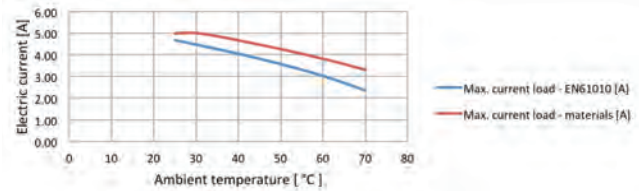
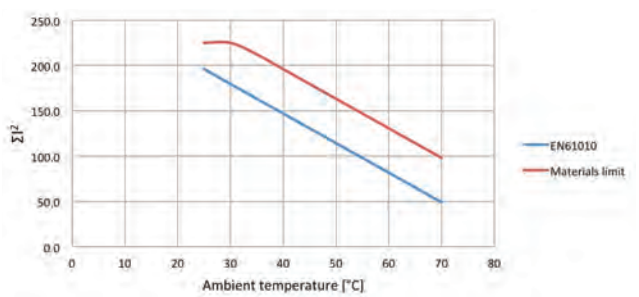
This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	9-Pin D-Subminiature, HV
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	9-Pin D-Subminiature, HV
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	5A
Maximum Voltage	750V working/1000VDC peak typical
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H36 x W15 x D46mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Tinned copper wire
Strands	7/0.2 (0.2mm ² , 24AWG)
Resistance	0.089Ω/m (max) at 20°C
Insulation	PTFE Type C (BS3G210)
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	8mm
Minimum Bend Radius	25mm
Door Closure Allowance	50mm (see diagram)
Notes:	Other cable lengths can be supplied.

Characteristic Plots for 40-970-009-1m-MM-HV



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

- 9-Pin D-Type Cable Assy, 5A, Male to Male, HV**
- 0.5m Long 40-970-009-0.5m-MM-HV
 - 1.0m Long 40-970-009-1m-MM-HV
 - 2.0m Long 40-970-009-2m-MM-HV

High Voltage 50-Pin D-Type Cable Assy - Male to Unterminated

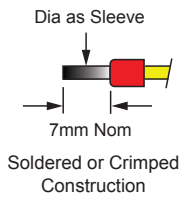
- High Specification and Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Fully Coded Markers to Ensure Easy Connection
- Boot Lace Ferrule Option to Prevent Wire Strand Breakage

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

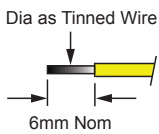


End B Options

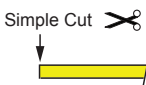
Ferrules



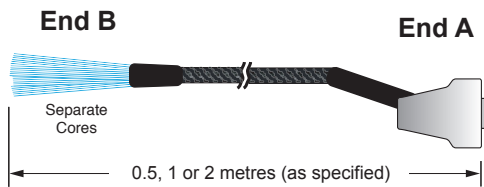
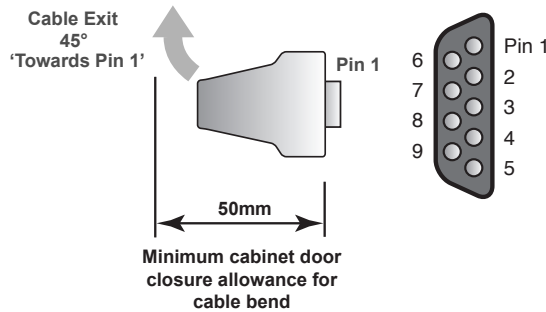
Tinned End



Cut End



End A Male



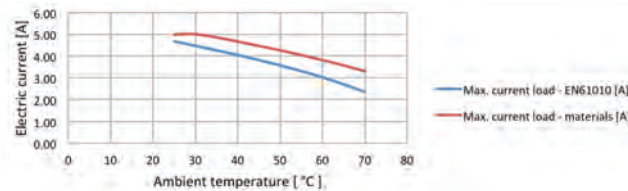
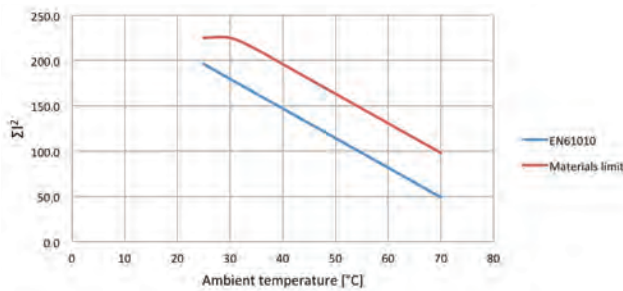
Technical Specification

Connector Type (End A): Gender Securing Method	9-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage	5A 750V working/1000VDC peak typical 1000MOhm
Insulation Resistance	0.089Ω/m (max) at 20°C
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy <20mOhm 45° (Towards Pin 1) H36 x W15 x D46mm
Cable Type: Conductor: Material Strands	Individual wires, screened & sleeved Tinned copper wire 7/0.2 (0.2 mm ² , 24AWG) 1.62mm O/D
Resistance Insulation	PTFE Type C (BS3G210)
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 8mm 25mm 50mm (see diagram)

Notes:

- Other cable lengths can be supplied.
- Cable strain relief arrangements may be necessary and appropriate electrical safety precautions should be observed.

Characteristic Plots for 40-972-009-1m-MU-HV



The top graph shows the permitted ΣI^2 versus ambient temperature in accordance with EN61010 for user exposure to surface temperature and a higher limit imposed by the materials used where the cable is not directly user accessible.

The bottom graph shows the allowed current versus temperature assuming ALL wires carry the same current. Higher currents to the cable rating are permitted on individual wires provided the ΣI^2 is complied with.

Product Order Codes

9-Pin D-Type Cable Assy, 5A, Boot Lace Ferrules, HV

- Male to Unterminated, 0.5m Long **40-972-009-0.5m-MU-HV**
- Male to Unterminated, 1.0m Long **40-972-009-1m-MU-HV**
- Male to Unterminated, 2.0m Long **40-972-009-2m-MU-HV**

Part numbers for other versions:

End B:
T = Tinned End
C = Cut End

A009DM5-*-HA***

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

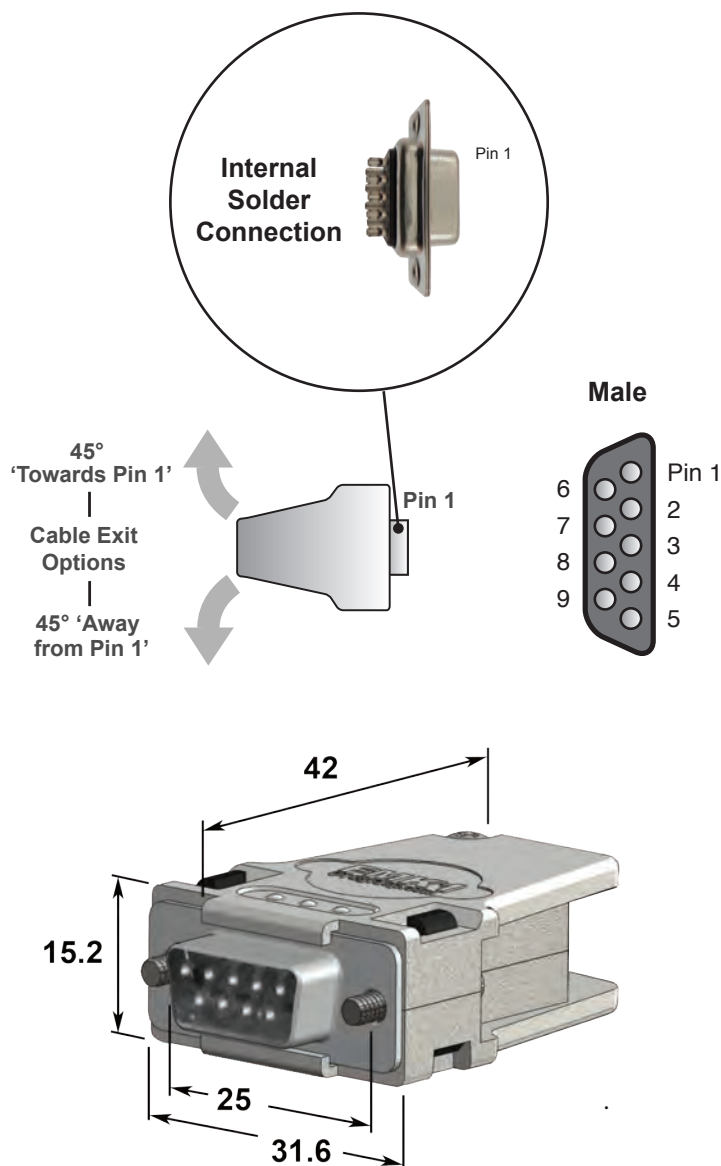
High Voltage 9-Pin D-Type Connector - Male

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



With Backshell

M

Technical Specification

Connector Type:	9-Pin D-Subminiature, HV
Gender	Male
Securing Method:	Product with Backshell
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	4-40 UNC screwlocks, male Solder bucket
Connector Ratings:	
Maximum Current	5A
Maximum Voltage	750V working/1000VDC peak typical
Cable Exit:	45°
Cable Exit Size	15mm dia
Overall Size (Approx)	H36.1 x W15.2 x D46mm
9-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	<20mOhm
Wire Connection:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE Type C
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

9-Pin D-Type Connector, 5A, Solder Bucket, HV,
With Backshell, Male
Without Backshell, Male

40-960-009-M-HV

92-960-009-M-HV

8-Pin Power D-type Connector Accessories

- Voltage to 350VDC or 350VAC Peak, 40A
- Mating Connectors
- Connector Hoods
- Cable Assemblies
- Guaranteed Compatibility

The 8-Pin D-Type connector is used on PXI and LXI switching products to provide a low density user connector solution. A 4-Pin partially populated version of the 8-Pin D-Type connector is also provided to match the connector pin assignment of the Pickering Interfaces 40-170 High Power Relay Module.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.



Part Number Listing for all 8-Pin Power D-Type Connection Accessories







Cables: 8-Pin Power D-Type Connector to Connector									
Type	End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
	Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
8-Pin Version	Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-408-0.5m-MF	40-970-408-1m-MF	40-970-408-2m-MF	Yes (Female end)	21.5
	Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-408-0.5m-FF	40-970-408-1m-FF	40-970-408-2m-FF	Yes	21.7
	Male	45° Towards Pin 1	Male	45° Away from Pin 1	40-970-408-0.5m-MM	40-970-408-1m-MM	40-970-408-2m-MM	No	21.18
4-Pin Version	Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-404-0.5m-MF	40-970-404-1m-MF	40-970-404-2m-MF	40-170 (Female end)	21.6
	Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-404-0.5m-FF	40-970-404-1m-FF	40-970-404-2m-FF	40-170	21.8


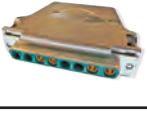


Cables: 8-Pin Power D-Type Connector to Untermated									
Type	End 1		End 2 Untermated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
	Gender	Cable Exit		0.5m Long	1m Long	2m Long			
8-Pin Version	Female	45° Away from Pin 1	Boot Lace Ferrules	A008PF4-F-5A050	A008PF4-F-5A100	A008PF4-F-5A200	Yes	21.9	
			Tinned Ends	A008PF4-T-5A050	A008PF4-T-5A100	A008PF4-T-5A200	Yes		
			Cut End	40-972-408-0.5m-FU	40-972-408-1m-FU	40-972-408-2m-FU	Yes		
	Male	45° Towards Pin 1	Boot Lace Ferrules	A008PM5-F-5A050	A008PM5-F-5A100	A008PM5-F-5A200	No	21.19	
			Tinned Ends	A008PM5-T-5A050	A008PM5-T-5A100	A008PM5-T-5A200	No		
			Cut End	40-972-408-0.5m-MU	40-972-408-1m-MU	40-972-408-2m-MU	No		
4-Pin Version	Female	45° Away from Pin 1	Boot Lace Ferrules	A008PF4-F-6A050	A008PF4-F-6A100	A008PF4-F-6A200	40-170	21.10	
			Tinned Ends	A008PF4-T-6A050	A008PF4-T-6A100	A008PF4-T-6A200	40-170		
			Cut End	40-972-404-0.5m-FU	40-972-404-1m-FU	40-972-404-2m-FU	40-170		



Cable Connectors: 8-Pin Power D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
8-Pin Version	Female	45° Options	40-960-008-F	92-960-008-F	Yes	21.11
	Male	45° Options	40-960-008-M	92-960-008-M	No	21.20
4-Pin Version	Female	45° Options	40-960-004-F	92-960-004-F	40-170	21.12

PCB Connectors: 8-Pin Power D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
8-Pin Version	Right Angle PCB Mount	Female	N/A	40-963-008-RF	No	21.13
		Male	N/A	40-963-008-RM	No	21.15
4-Pin Version		Female	N/A	40-963-004-RF	No	21.14
		Male	N/A	40-963-004-RM	No	21.16

Contents - Mating Accessories for Pickering Products



Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 8-Pin Power D-Type, 40A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 21.5
	Cable Assy, 8-Pin Power D-Type, 40A, 4-Pin Partially Populated Version for 40-170, 0.5m, 1m and 2m Custom lengths by quotation			Page 21.6
	Cable Assy, 8-Pin Power D-Type, 40A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Female	Page 21.7
	Cable Assy, 8-Pin Power D-Type, 40A, 4-Pin Partially Populated Version for 40-170, 0.5m, 1m and 2m Custom lengths by quotation			Page 21.8
	Cable Assy, 8-Pin Power D-Type to Unterminated, 40A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 21.9
	Cable Assy, 8-Pin Power D-Type to Unterminated, 40A, 4-Pin Partially Populated Version for 40-170, 0.5m, 1m and 2m Custom lengths by quotation			Page 21.10

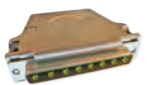
Female Connectors				
View	Description	Type	Gender	Page
	Cable Connector 8-Pin Power D-Type, 40A, Solder Bucket	With or Without Backshell	Female	Page 21.11
	Cable Connector 8-Pin Power D-Type, 4-Pin Partially Populated Version for 40-170, 40A, Solder Bucket.			Page 21.12
	PCB Connector 8-Pin Power D-Type, 20A	Right Angle PCB Mount		Page 21.13
	PCB Connector 8-Pin Power D-Type, 4-Pin Partially Populated Version for 40-170, 20A.			Page 21.14

Male Connectors				
View	Description	Type	Gender	Page
	PCB Connector 8-Pin Power D-Type, 20A	Right Angle PCB Mount	Male	Page 21.15
	PCB Connector 8-Pin Power D-Type, 4-Pin Partially Populated Version for 40-170, 20A.			Page 21.16

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 8-Pin Power D-Type, 40A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 21.18
	Cable Assy, 8-Pin Power D-Type to Unterminated, 40A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 21.19

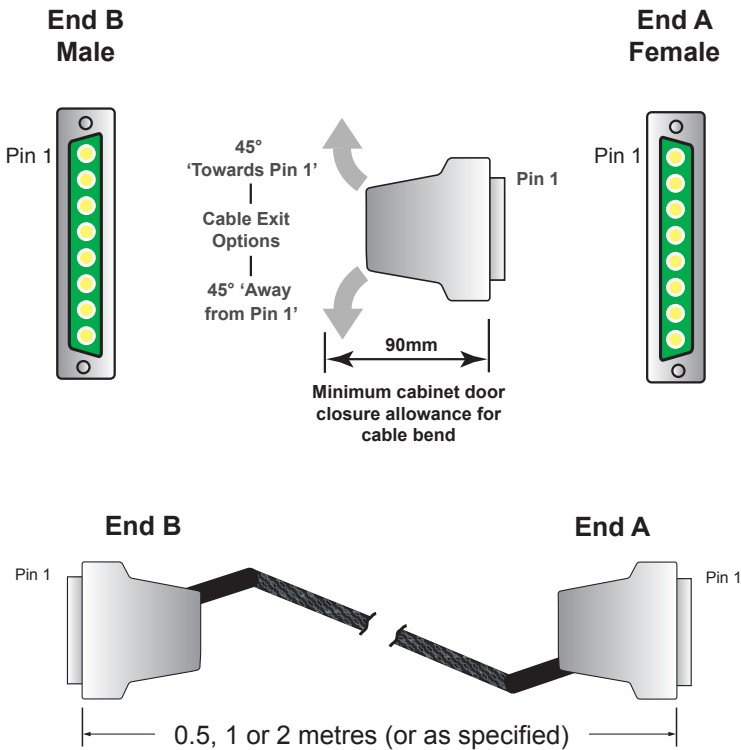
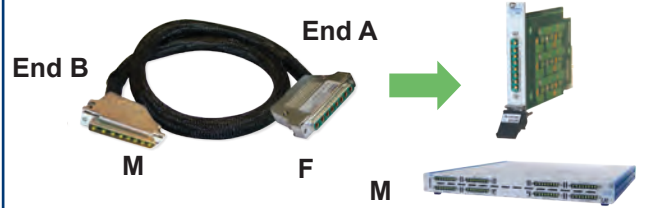
Male Connectors				
View	Description	Type	Gender	Page
	Cable Connector 8-Pin Power D-Type, 40A, Solder Bucket	With or Without Backshell	Male	Page 21.20

Custom Termination

Section 25

8-Pin Power D-Type Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

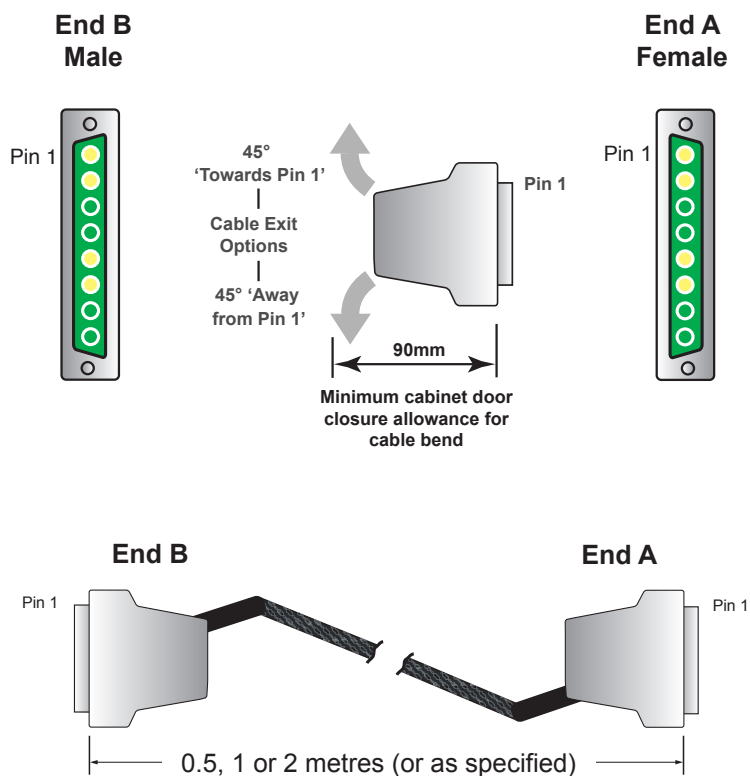
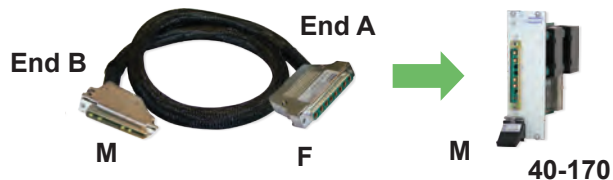
Connector Type (End A): Gender Securing Method	8-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	8-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	40A 350VDC/350VAC peak 1000MΩm
Connectors: Contact Material Contact Resistance Cable Exit:	Gold plated copper alloy 1.0MΩm Female Connectors 45° (Away from Pin 1) Male Connectors 45° (Towards Pin 1)
Overall Size (Approx) Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	H71 x W16 x D55mm Individual wires, screened & sleeved. Tri-rated Copper 56/0.3 (4mm ² csa, 12AWG) 4mm O/D 4.95mΩ/m nominal PVC Polyester Yes Yes 13mm 25mm 90mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Male to Female,	
0.5m Long	40-970-408-0.5m-MF
1.0m Long	40-970-408-1m-MF
2.0m Long	40-970-408-2m-MF

8-Pin Power D-Type Cable Assy - Male to Female

- 4-Pin Version for High Power Relay Module 40-170
- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

Connector Type (End A):	8-Pin D-Subminiature (4-Pin version)
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	8-Pin D-Subminiature, (4-Pin version)
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm ² csa, 12AWG)
	4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

4-Pin Version of 8-Pin Power D-Type Cable Assy, 40A, Male to Female,

0.5m Long

40-970-404-0.5m-MF

1.0m Long

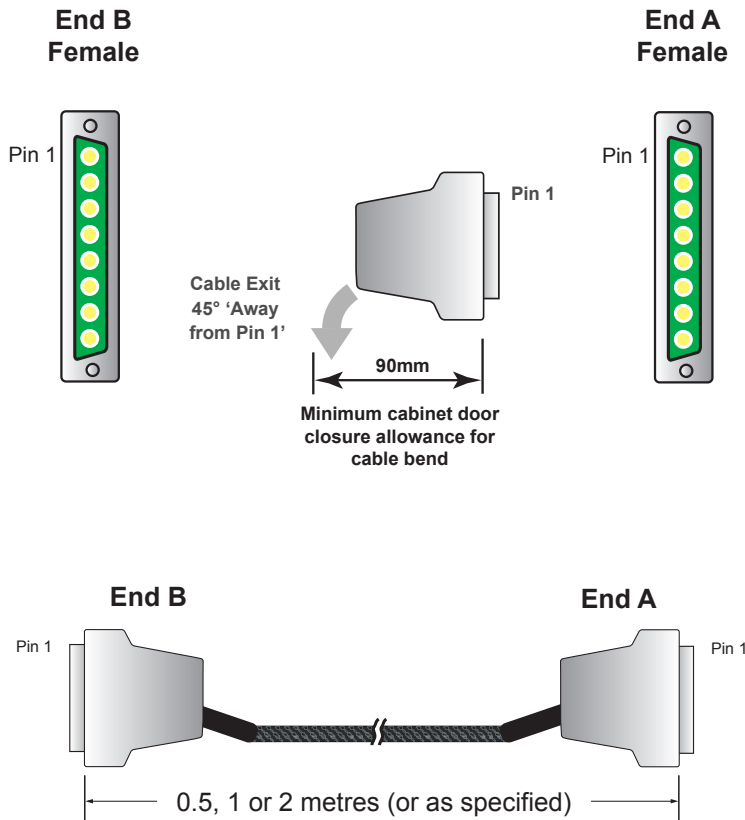
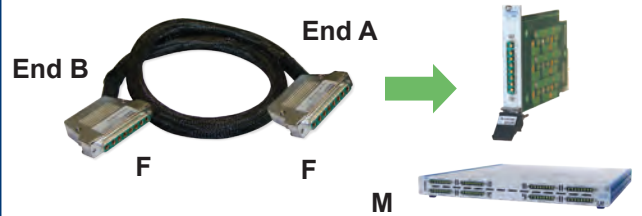
40-970-404-1m-MF

2.0m Long

40-970-404-2m-MF

8-Pin Power D-Type Cable Assy - Female to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

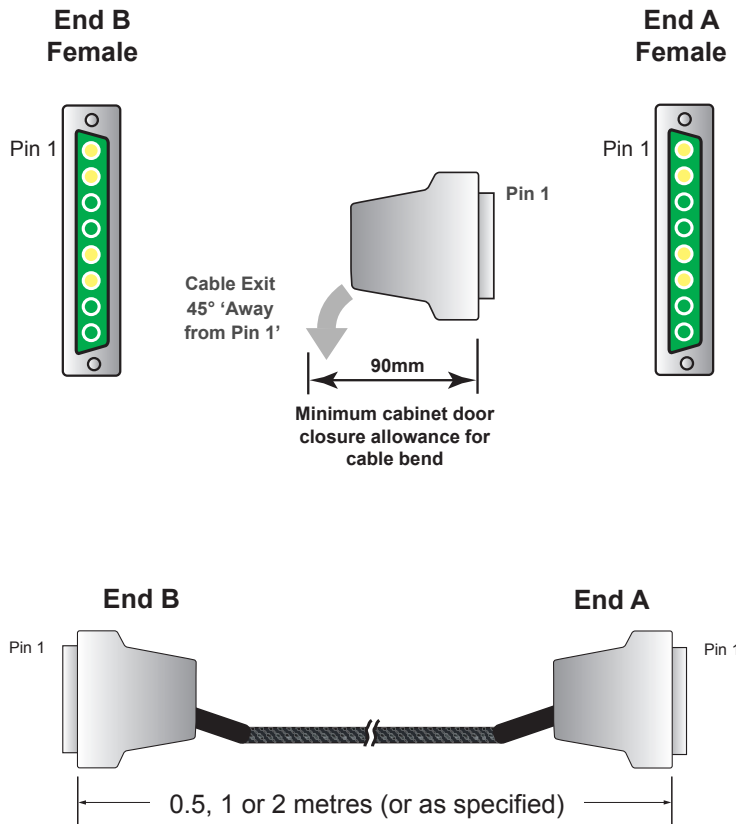
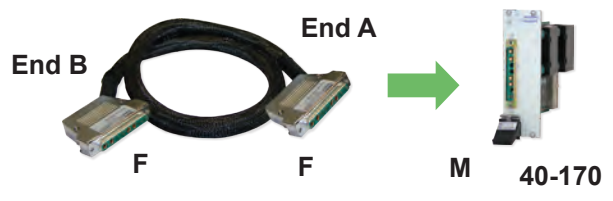
Connector Type (End A): Gender Securing Method	8-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Connector Type (End B): Gender Securing Method	8-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	40A 350VDC/350VAC peak 1000MΩm
Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 1.0MΩm 45° (Away from Pin 1) H71 x W16 x D55mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved. Tri-rated Copper 56/0.3 (4mm ² csa, 12AWG) 4mm O/D 4.95mΩ/m nominal PVC Polyester Yes Yes 13mm 25mm 90mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Female to Female,	
0.5m Long	40-970-408-0.5m-FF
1.0m Long	40-970-408-1m-FF
2.0m Long	40-970-408-2m-FF

8-Pin Power D-Type Cable Assy - Female to Female

- 4-Pin Version for High Power Relay Module 40-170
- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

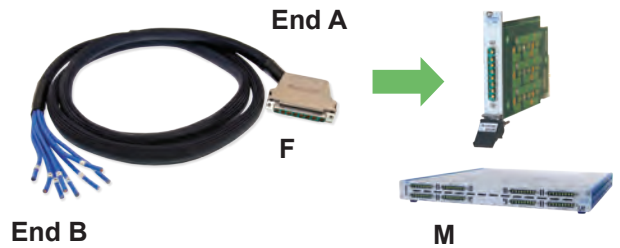
Connector Type (End A):	8-Pin D-Subminiature (4-Pin version)
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	8-Pin D-Subminiature, (4-Pin version)
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Copper
Strands	56/0.3 (4mm ² csa, 12AWG)
	4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

- 4-Pin Version of 8-Pin Power D-Type Cable Assy, 40A, Female to Female,**
- 0.5m Long 40-970-404-0.5m-FF
 - 1.0m Long 40-970-404-1m-FF
 - 2.0m Long 40-970-404-2m-FF

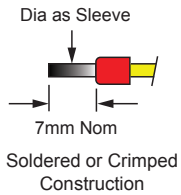
8-Pin Power D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

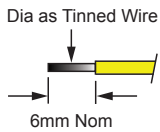


End B Options

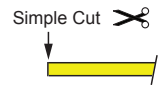
Ferrules



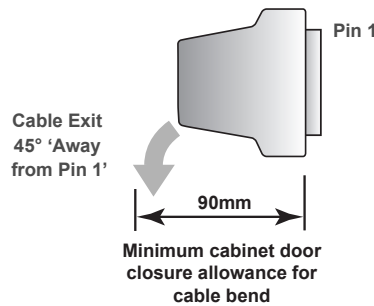
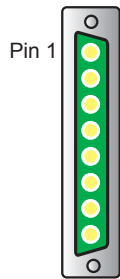
Tinned End



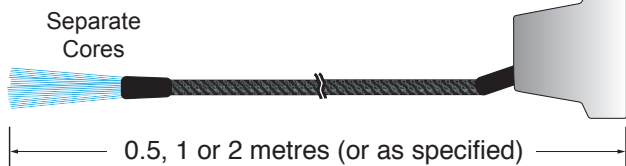
Cut End



End A Female



End B



End A

Pin 1

Technical Specification

Connector Type (End A): Gender Securing Method	8-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx) Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	40A 350VDC/350VAC peak 1000MΩ Gold plated copper alloy 1.0mΩ 45° (Away from Pin 1) H71 x W16 x D55mm Individual wires, screened & sleeved. Tri-rated Copper 56/0.3 (4mm ² csa, 12AWG) 4mm O/D 4.95mΩ/m nominal PVC Polyester Yes Yes 13mm 25mm 90mm (see diagram)

Notes:

- Please ensure appropriate electrical safety precautions are observed when using this product.
- Other cable lengths can be supplied.

Product Order Codes

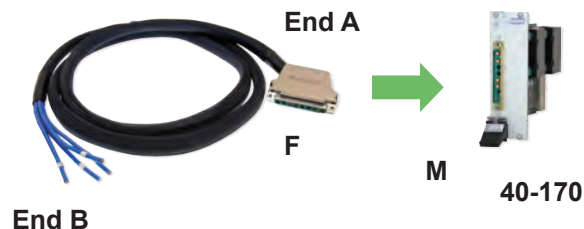
8-Pin Power D-Type Cable Assy, 40A, Cut Wires,
 Female to Unterminated, 0.5m Long **40-972-408-0.5m-FU**
 Female to Unterminated, 1.0m Long **40-972-408-1m-FU**
 Female to Unterminated, 2.0m Long **40-972-408-2m-FU**

Part numbers for other versions:

End B: F = Ferrules T = Tinned End	A008PF4-*-5A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
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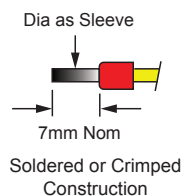
8-Pin Power D-Type Cable Assy - Female to Unterminated

- 4-Pin Version for High Power Relay Module 40-170
- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

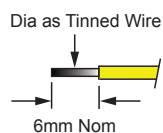


End B Options

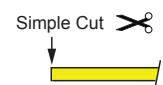
Ferrules



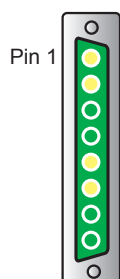
Tinned End



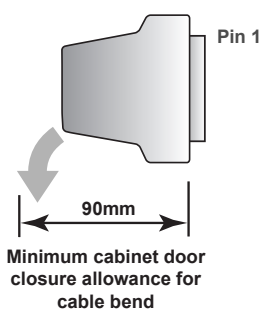
Cut End



End A Female

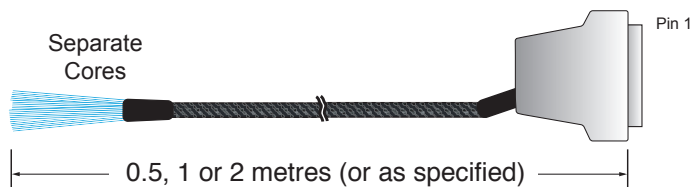


Cable Exit
45° 'Away
from Pin 1'



End B

End A



Technical Specification

Connector Type (End A): Gender Securing Method	8-Pin D-Subminiature (4-Pin version) Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	40A 350VDC/350VAC peak- 1000MOhm
Connector Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 1.0mOhm 45° (Away from Pin 1) H71 x W16 x D55mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved. Tri-rated Copper 56/0.3 (4mm ² cса, 12AWG) 4mm O/D 4.95mΩ/m nominal PVC Polyester Yes Yes 13mm 25mm 90mm (see diagram)

Notes:

- Please ensure appropriate electrical safety precautions are observed when using this product.
- Other cable lengths can be supplied.

Product Order Codes

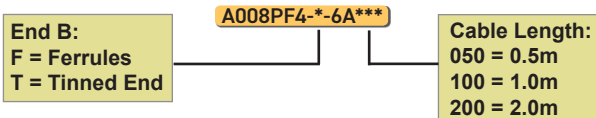
4-Pin Version of 8-Pin Power D-Type Cable Assy, 40A, Cut Wires,

Female to Unterminated, 0.5m Long 40-972-404-0.5m-FU

Female to Unterminated, 1.0m Long 40-972-404-1m-FU

Female to Unterminated, 2.0m Long 40-972-404-2m-FU

Part numbers for other versions:



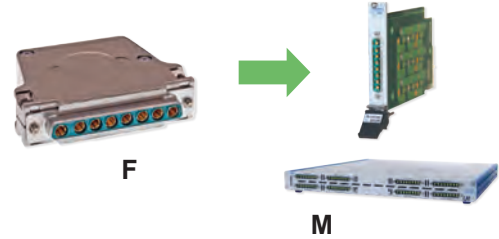
8-Pin Power D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

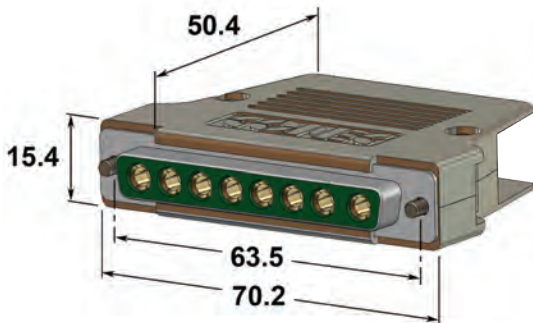
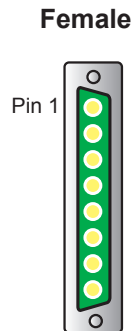
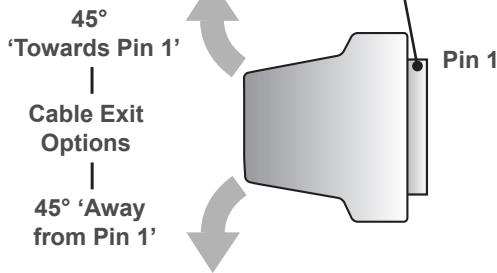
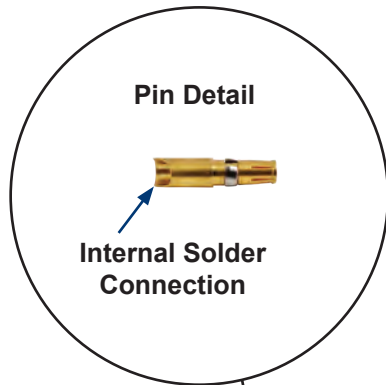
This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



With Backshell



Technical Specification

Connector Type:	8-Pin D-Subminiature Female
Gender	Female
Securing Method:	Product with Backshell: 4-40 UNC screwlocks, male Product without Backshell: 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	40A
Maximum Voltage	350VDC or 350VAC peak
Cable Exit:	45°
Cable Exit Size	13mm dia
Overall Size (Approx)	H71 x W16 x D55mm
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Wire Connection:	
Maximum Wire Size	12AWG
Recommended Insulation	Tri-rated PVC
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

8-Pin Power D-Type Connector, 40A, Solder Bucket,
 With Backshell, Female **40-960-008-F**
 Without Backshell, Female **92-960-008-F**

8-Pin Power D-Type Connector - Female

- 4-Pin Version for High Power Relay Module 40-170
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



F

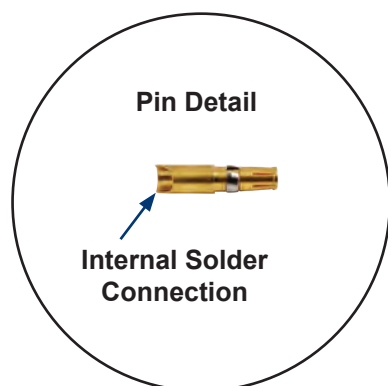


M

40-170

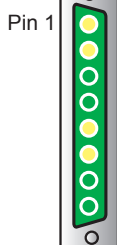


With
Backshell



Internal Solder
Connection

Female

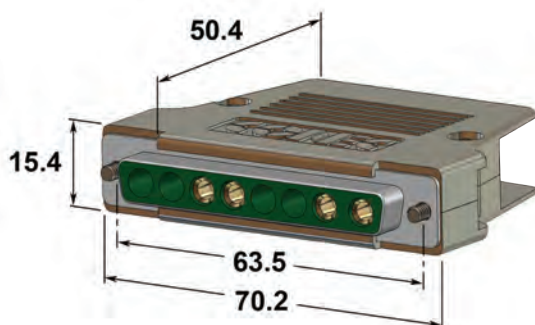


Pin 1

45°
'Towards Pin 1'

Cable Exit
Options

45° 'Away
from Pin 1'



Technical Specification

Connector Type:	8-Pin D-Subminiature, (4-Pin version) Female
Gender	Female
Securing Method:	Product with Backshell 4-40 UNC screwlocks, male Product without Backshell 4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	40A
Maximum Voltage	350VDC or 350VAC peak
Cable Exit:	45°
Cable Exit Size	13mm dia
Overall Size (Approx)	H71 x W16 x D55mm
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Wire Connection:	
Maximum Wire Size	12AWG
Recommended Insulation	Tri-rated PVC
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

4-Pin Version of 8-Pin Power D-Type Connector, 40A,
Solder Bucket,

With Backshell, Female

40-960-004-F

Without Backshell, Female

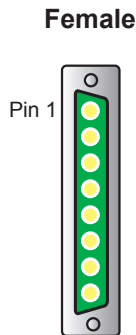
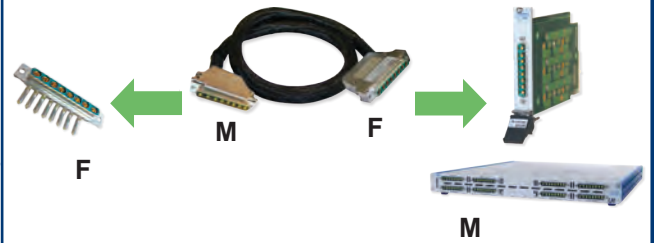
92-960-004-F

8-Pin Power D-Type Connector, Right Angle PCB Mount - Female

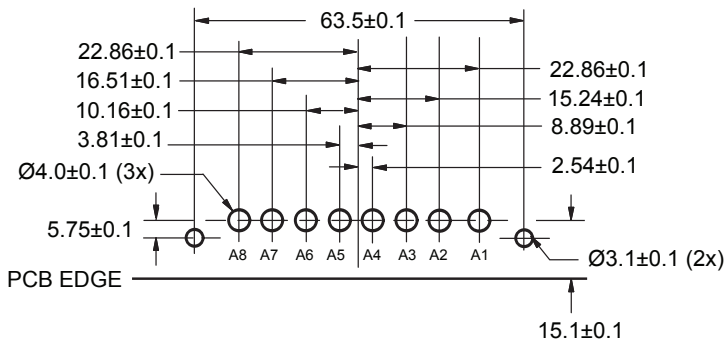
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



An Individual 40A Female Contact

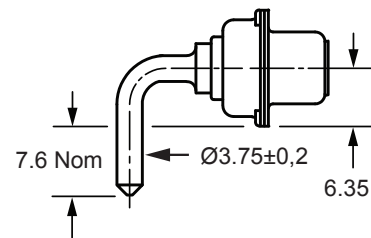


PCB Footprint of the 8-Pin Right Angle Female Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	8-Pin D-Subminiature Female 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 8-Pin D-Sub: Contact Material Contact Resistance PCB Legs: Effective Leg Length	20A each pin 250V working Gold plated copper alloy 1mOhm (IEC60807-2) 7.6mm nom (See diagram)
Note:	8 off Female socket contacts are supplied with the connector kit.

Effective Leg Length



Product Order Codes

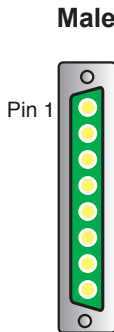
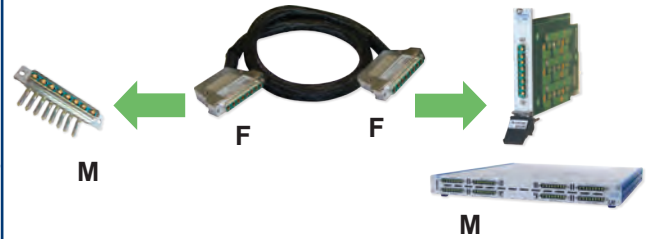
8-Pin Power D-Type Connector, 20A, Right Angle PCB Mount, Female **40-963-008-RF**

8-Pin Power D-Type Connector, Right Angle PCB Mount - Male

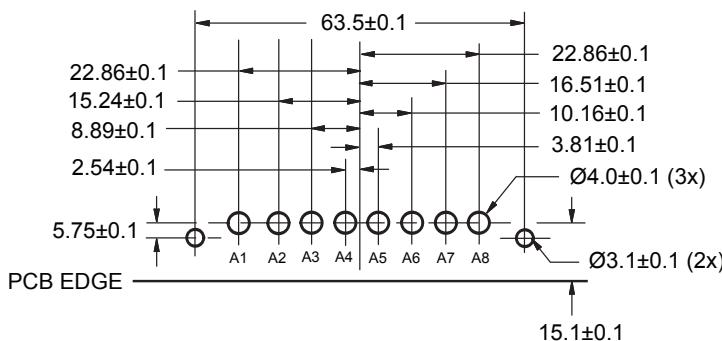
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



An Individual 40A Male Contact

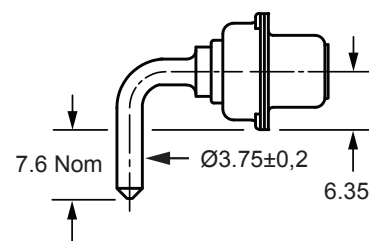


PCB Footprint of the 8-Pin Right Angle Male Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	8-Pin D-Subminiature Male 4-40 UNC screwlocks, female Right angle PCB mount, solder
Connector Ratings: Maximum Current Maximum Voltage 8-Pin D-Sub: Contact Material Contact Resistance	20A each pin 250V working Gold plated copper alloy 1mOhm (IEC60807-2)
PCB Legs: Effective Leg Length	7.6mm nom (See diagram)
Note: 8 off Male contacts are supplied with the connector kit.	

Effective Leg Length



Product Order Codes

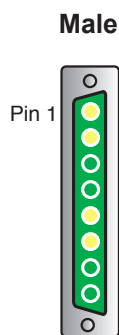
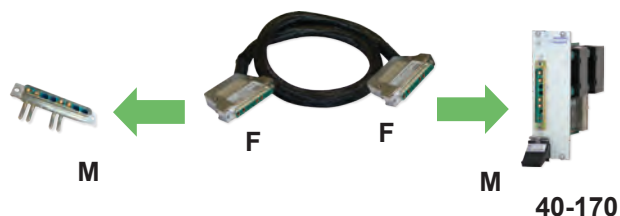
8-Pin Power D-Type Connector, 20A, Right Angle PCB Mount, Male
40-963-008-RM

8-Pin Power D-Type Connector, Right Angle PCB Mount - Male

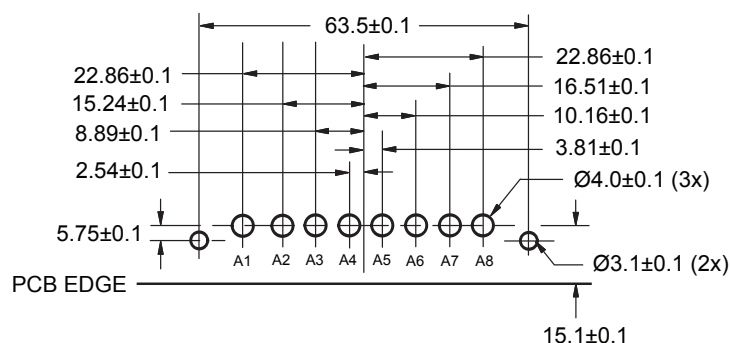
- 4-Pin Version for High Power Relay Module 40-170
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



An Individual 40A Male Contact

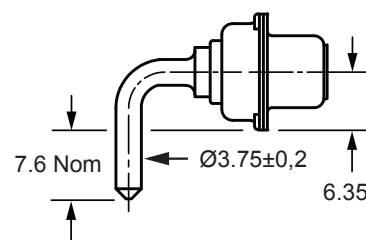


PCB Footprint of the 8-Pin Right Angle Male Connector
(Connector Side - Not to Scale)

Technical Specification

Connector Type:	8-Pin D-Subminiature, (4-Pin version)
Gender	Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	20A each pin
Maximum Voltage	250V working
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1mOhm (IEC60807-2)
PCB Legs:	
Effective Leg Length	7.6mm nom (See diagram)
Note:	4 off Male contacts are supplied with the connector kit.

Effective Leg Length



Product Order Codes

4-Pin Version of 8-Pin Power D-Type Connector, 20A,
Right Angle PCB Mount,
Male

40-963-004-RM

8-Pin Power D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

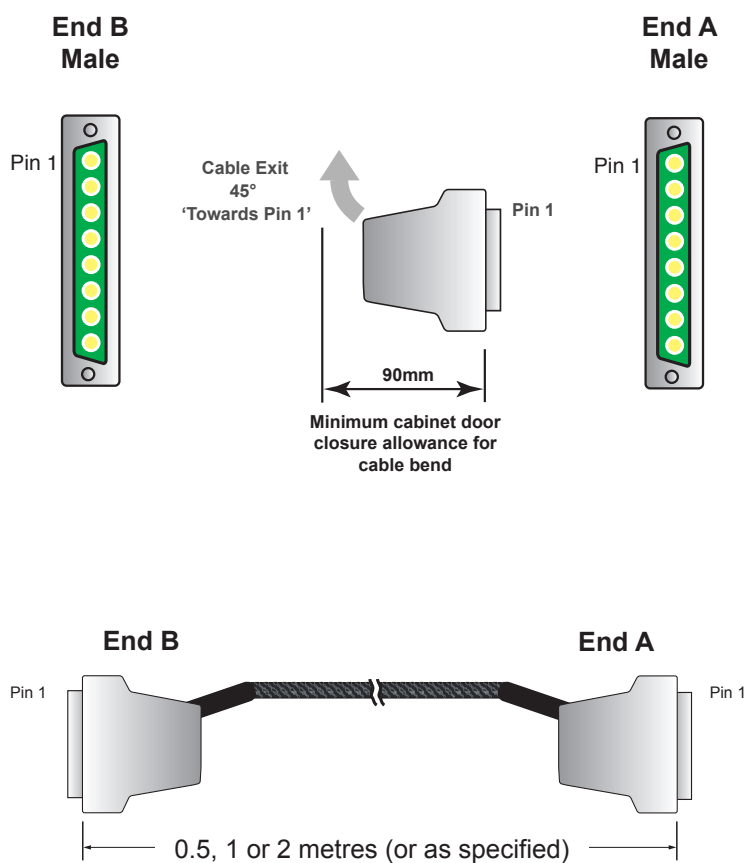
8-Pin Power D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



End B



Technical Specification

Connector Type (End A):	8-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	8-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	40A
Maximum Voltage	350VDC/350VAC peak
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mΩ
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H71 x W16 x D55mm
Cable Type:	
Conductor: Material	Copper
Strands	56/0.3 (4mm ² csa, 12AWG)
	4mm O/D
Resistance	4.95mΩ/m nominal
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	25mm
Door Closure Allowance	90mm (see diagram)
Notes:	
	Other cable lengths can be supplied.

Product Order Codes

8-Pin Power D-Type Cable Assy, 40A, Male to Male,

0.5m Long

40-970-408-0.5m-MM

1.0m Long

40-970-408-1m-MM

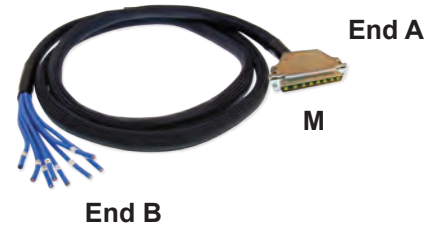
2.0m Long

40-970-408-2m-MM

8-Pin Power D-Type Cable Assy - Male to Unterminated

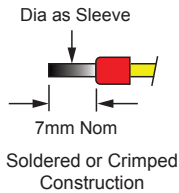
- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

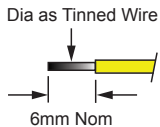


End B Options

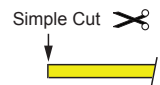
Ferrules



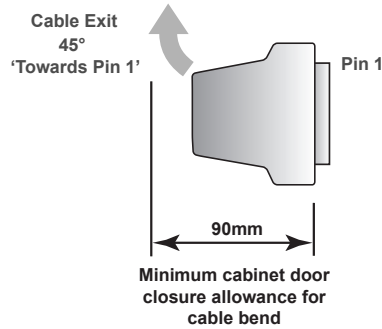
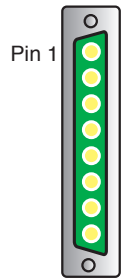
Tinned End



Cut End



End A Male



Technical Specification

Connector Type (End A): Gender Securing Method	8-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	40A 350VDC/350VAC peak 1000MΩ
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 1.0mΩ 45° (Towards Pin 1) H71 x W16 x D55mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved. Tri-rated Copper 56/0.3 (4mm ² csa, 12AWG) 4mm O/D 4.95mΩ/m nominal PVC Polyester Yes Yes 13mm 25mm 90mm (see diagram)

Notes:

- Please ensure appropriate electrical safety precautions are observed when using this product.
- Other cable lengths can be supplied.

Product Order Codes

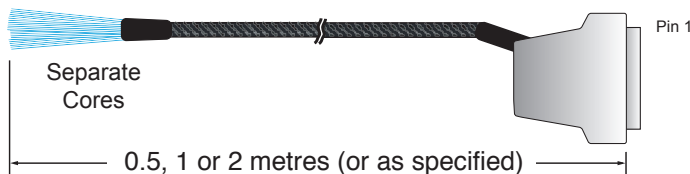
8-Pin Power D-Type Cable Assy, 40A, Cut Wires,
 Male to Unterminated, 0.5m Long [40-972-408-0.5m-MU](#)
 Male to Unterminated, 1.0m Long [40-972-408-1m-MU](#)
 Male to Unterminated, 2.0m Long [40-972-408-2m-MU](#)

Part numbers for other versions:

End B: F = Ferrules T = Tinned End	A008PM5-* -5A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
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End B

End A



8-Pin Power D-Type Connector - Male

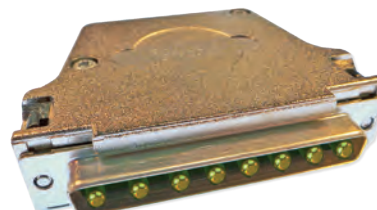
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

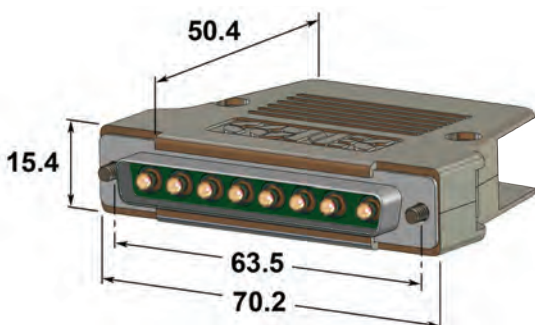
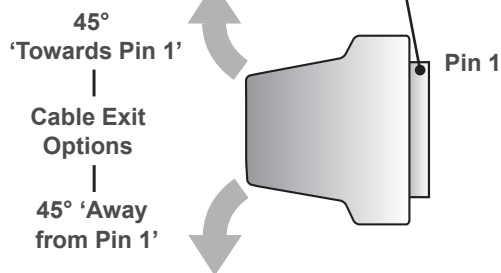
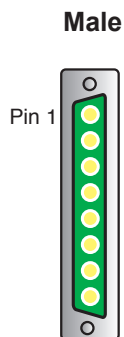
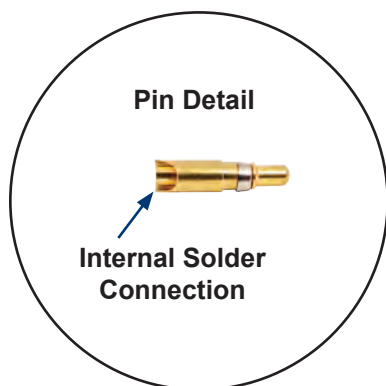
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



M

With Backshell



Technical Specification

Connector Type:	8-Pin D-Subminiature
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	40A
Maximum Voltage	350VDC or 350VAC peak
Cable Exit:	45°
Cable Exit Size	13mm dia
Overall Size (Approx)	H71 x W16 x D55mm
8-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Wire Connection:	
Maximum Wire Size	12AWG
Recommended Insulation	Tri-rated PVC
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

8-Pin Power D-Type Connector, 40A, Solder Bucket,
With Backshell, Male

40-960-008-M

Without Backshell, Male

92-960-008-M

3-Pin Power D-type Connector Accessories

- Voltage to 350VDC or 350VAC Peak, 40A
- Mating Connectors
- Connector Hoods
- Cable Assemblies
- Guaranteed Compatibility



The 3-Pin D-Type connector is used on PXI switching products to provide a low density user connector solution.

Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote mating connection. Connectors to unterminated solutions allow the user to connect directly to the product connector and wire directly into a remote UUT. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information with your requirements and let us solve your connection problems.



Part Number Listing for all 3-Pin Power D-Type Connection Accessories



Cables: 3-Pin Power D-Type Connector to Connector								
End 1		End 2		Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Gender	Cable Exit	Gender	Cable Exit	0.5m Long	1m Long	2m Long		
Male	45° Towards Pin 1	Female	45° Away from Pin 1	40-970-403-0.5m-MF	40-970-403-1m-MF	40-970-403-2m-MF	Yes (Female end)	22.5
Female	45° Away from Pin 1	Female	45° Away from Pin 1	40-970-403-0.5m-FF	40-970-403-1m-FF	40-970-403-2m-FF	Yes	22.6
Male	45° Towards Pin 1	Male	45° Away from Pin 1	40-970-403-0.5m-MM	40-970-403-1m-MM	40-970-403-2m-MM	No	22.12



Cables: 3-Pin Power D-Type Connector to Underterminated								
End 1		End 2 Underterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page	
Gender	Cable Exit		0.5m Long	1m Long	2m Long			
Female	45° Away from Pin 1	Boot Lace Ferrules	A003PF4-F-5A050	A003PF4-F-5A100	A003PF4-F-5A200	Yes	22.7	
		Tinned Ends	A003PF4-T-5A050	A003PF4-T-5A100	A003PF4-T-5A200	Yes		
		Cut End	40-972-403-0.5m-FU	40-972-403-1m-FU	40-972-403-2m-FU	Yes		
Male	45° Towards Pin 1	Boot Lace Ferrules	A003PM5-F-5A050	A003PM5-F-5A100	A003PM5-F-5A200	No	22.13	
		Tinned Ends	A003PM5-T-5A050	A003PM5-T-5A100	A003PM5-T-5A200	No		
		Cut End	40-972-403-0.5m-MU	40-972-403-1m-MU	40-972-403-2m-MU	No		

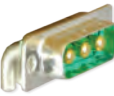
Cable Connectors: 3-Pin Power D-Type						
Type	Gender	Cable Exit	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
			With Backshell	Without Backshell		
Cable Connector	Female	45° Options	40-960-003-F	92-960-003-F	Yes	22.8
	Male	45° Options	40-960-003-M	92-960-003-M	No	22.14

PCB Connectors: 3-Pin Power D-Type						
Type	Mount	Gender	Cable Exit	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	N/A	40-963-003-RF	No	22.9
		Male	N/A	40-963-003-RM	No	22.10

Contents - Mating Accessories For Pickering Products



Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 3-Pin Power D-Type, 20A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Female	Page 22.5
		Female	Female	Page 22.6
	Cable Assy, 3-Pin Power D-Type to Unterminated, 20A, 0.5m, 1m and 2m Custom lengths by quotation	Female	Unterminated with Options	Page 22.7


Female Connectors				
View	Description	Type	Gender	Page
	Cable Connector 3-Pin Power D-Type, 40A, Solder Bucket	With or Without Backshell	Female	Page 22.8
	PCB Connector 3-Pin Power D-Type, 20A	Right Angle PCB Mount		Page 22.9

Male PCB Connectors				
View	Description	Type	Gender	Page
	PCB Connector 3-Pin Power D-Type, 20A	Right Angle PCB Mount	Male	Page 22.10

Contents - Additional Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, 3-Pin Power D-Type, 20A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Male	Page 22.12
	Cable Assy, 3-Pin Power D-Type to Unterminated, 20A, 0.5m, 1m and 2m Custom lengths by quotation	Male	Unterminated with Options	Page 22.13

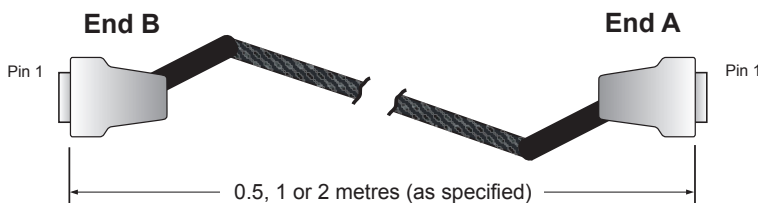
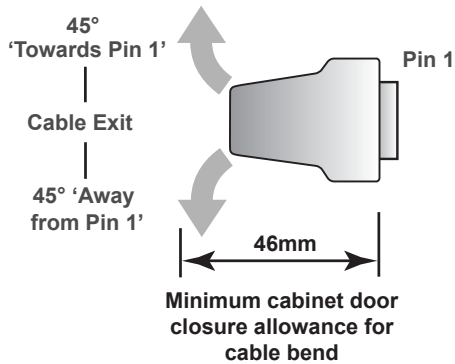
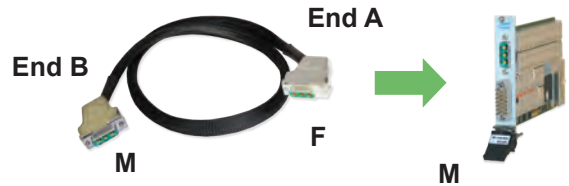
Male Connectors				
View	Description	Type	Gender	Page
	Cable Connector 3-Pin Power D-Type, 40A, Solder Bucket	With or Without Backshell	Male	Page 22.14

Custom Termination

Section 25

3-Pin Power D-Type Cable Assy - Male to Female

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



Technical Specification

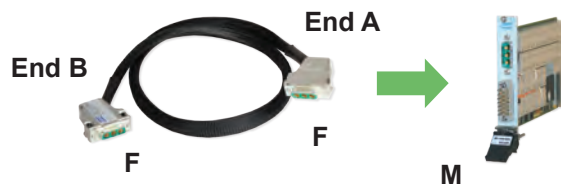
Connector Type (End A):	3-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	3-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	20A
Maximum Voltage	350V DC or AC peak
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Cable Exit:	
Female Connectors	45° (Away from Pin 1)
Male Connectors	45° (Towards Pin 1)
Overall Size (Approx)	H32 x W15 x D46mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Plain copper
Strands	50/0.24mm (2.5mm ² csa, 14AWG)
Resistance	Max as BS6360
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	46mm (see diagram)
Notes:	Other cable lengths can be supplied.

Product Order Codes

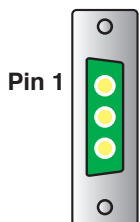
- 3-Pin Power D-Type Cable Assy, 20A, Male to Female,
- 0.5m Long [40-970-403-0.5m-MF](#)
 - 1.0m Long [40-970-403-1m-MF](#)
 - 2.0m Long [40-970-403-2m-MF](#)

3-Pin Power D-Type Cable Assy - Female to Female

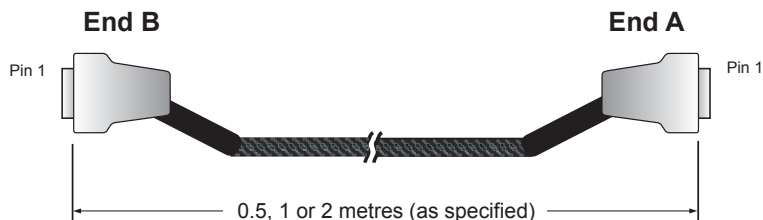
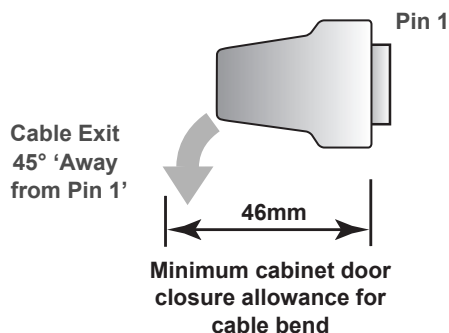
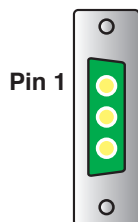
- High Specification Cable
- Highly Flexible Cable with Braided Sleeving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction



End B
Female



End A
Female



Technical Specification

Connector Type (End A):	3-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	3-Pin D-Subminiature
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	20A
Maximum Voltage	350V DC or AC peak
Insulation Resistance	1000MΩ
Connectors:	45° (Away from Pin 1)
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mΩ
Cable Exit	45° (Away from Pin 1)
Overall Size (Approx)	H32 x W15 x D46mm
Cable Type:	Individual wires, screened & sleeved. Tri-rated
Conductor: Material	Plain copper
Strands	50/0.24mm (2.5mm ² csa, 14AWG)
Resistance	Max as BS6360
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	46mm (see diagram)

Notes:

Other cable lengths can be supplied.

Product Order Codes

3-Pin Power D-Type Cable Assy, 20A, Female to Female,

0.5m Long

[40-970-403-0.5m-FF](#)

1.0m Long

[40-970-403-1m-FF](#)

2.0m Long

[40-970-403-2m-FF](#)

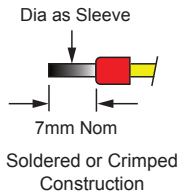
3-Pin Power D-Type Cable Assy - Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

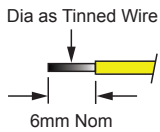


End B Options

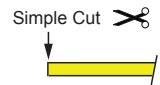
Ferrules



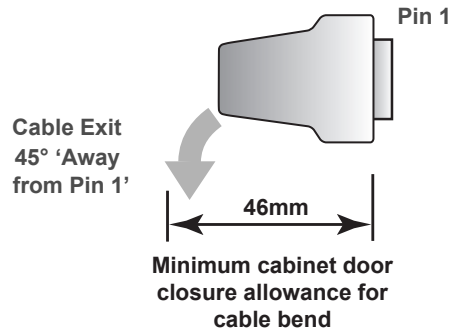
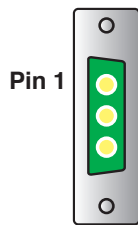
Tinned End



Cut End



End A Female

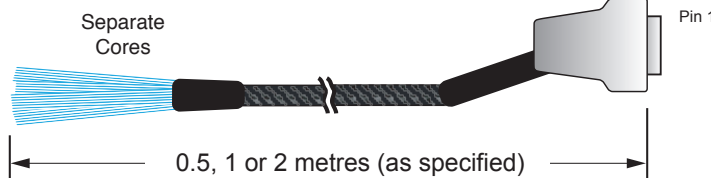


Technical Specification

Connector Type (End A): Gender Securing Method	3-Pin D-Subminiature Female 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	20A 350V DC or AC peak 1000MΩ
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 1.0mΩ 45° (Away from Pin 1) H32 x W15 x D46mm
Cable Type: Conductor: Material Strands Resistance Insulation	Individual wires, screened & sleeved. Tri-rated Plain copper 50/0.24mm (2.5mm ² csa, 14AWG) Max as BS6360 PVC
Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Polyester Yes Yes 10mm 25mm 46mm (see diagram)
Notes:	<ul style="list-style-type: none"> • Please ensure appropriate electrical safety precautions are observed when using this product. • Other cable lengths can be supplied.

End B

End A



Product Order Codes

3-Pin Power D-Type Cable Assy, 20A, Cut Wires,

- Female to Unterminated, 0.5m Long [40-972-403-0.5m-FU](#)
- Female to Unterminated, 1.0m Long [40-972-403-1m-FU](#)
- Female to Unterminated, 2.0m Long [40-972-403-2m-FU](#)

Part numbers for other versions:

End B: F = Ferrules T = Tinned End	A003PF4-*-5A***	Cable Length: 050 = 0.5m 100 = 1.0m 200 = 2.0m
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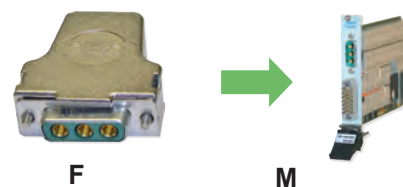
3-Pin Power D-Type Connector - Female

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



F

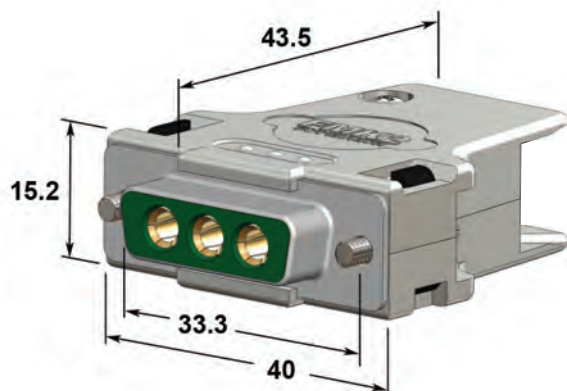
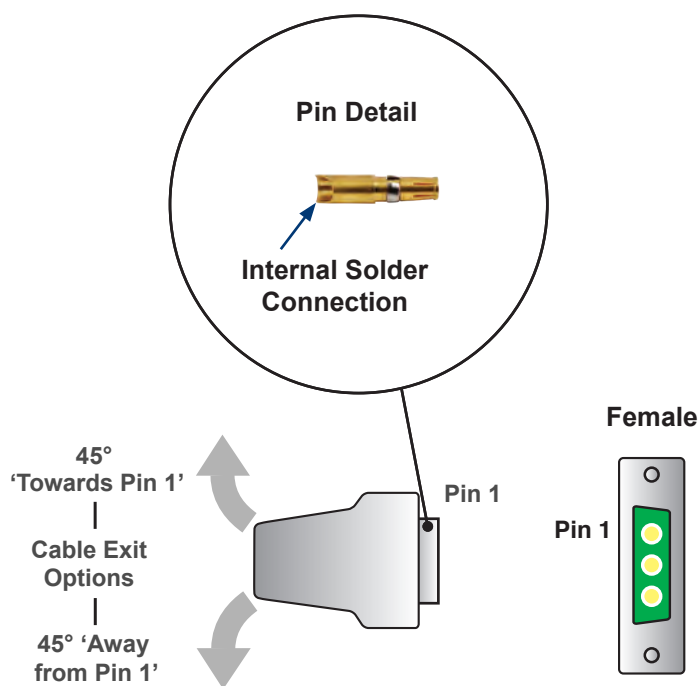
M



With Backshell

Technical Specification

Connector Type:	3-Pin D-Subminiature Female
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	40A
Maximum Voltage	350V DC or AC peak
Cable Exit:	45°
Cable Exit Size	15mm dia
Overall Size (Approx)	H32 x W15 x D46mm
3-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Wire Connection:	
Maximum Wire Size	12AWG
Recommended Insulation	Tri-rated PVC
Additional Cable Clamp	Yes (in backshell)



Product Order Codes

3-Pin Power D-Type Connector, 40A, Solder Bucket,
With Backshell, Female

40-960-003-F

Without Backshell, Female

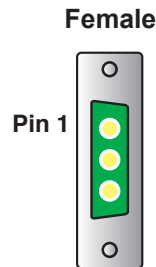
92-960-003-F

3-Pin Power D-Type Connector, Right Angle PCB Mount - Female

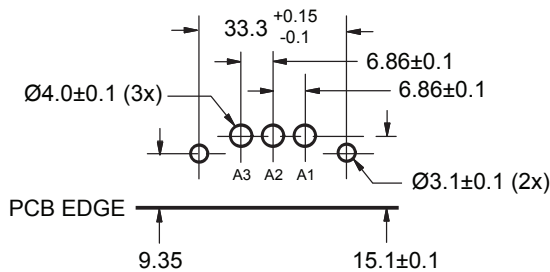
- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



An Individual 40A Female Contact



PCB Footprint of 3-Pin Right Angle Female Connector (Connector Side - Not to Scale)

Technical Specification

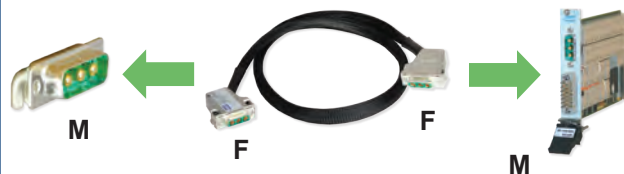
Connector Type: Gender Securing Method PCB Mounting	3-Pin D-Subminiature Female 4-40 UNC screwlocks, female Right angle PCB mount, solder, 1.6mm thick PCB
Connector Ratings: Maximum Current Maximum Voltage	20A 250V working
3-Pin D-Sub: Contact Material Contact Resistance	Gold plated copper alloy 1mOhm (IEC60807-2)
Note: 3 off Female contacts are supplied with the connector kit.	

Product Order Codes

3-Pin Power D-Type Connector, 20A, Right Angle PCB Mount, Female **40-963-003-RF**

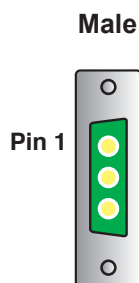
3-Pin Power D-Type Connector, Right Angle PCB Mount - Male

- **Right Angle PCB Mount**
- **Ideal for User Created Termination Solutions**

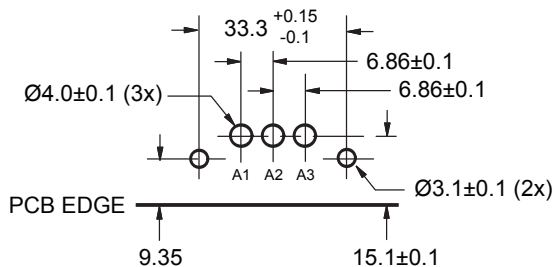


This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this section. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.



An Individual 40A Male Contact



PCB Footprint of 3-Pin Right Angle Male Connector (Connector Side - Not to Scale)

Technical Specification

Connector Type: Gender Securing Method PCB Mounting	3-Pin D-Subminiature Male 4-40 UNC screwlocks, female Right angle PCB mount, solder, 1.6mm thick PCB
Connector Ratings: Maximum Current Maximum Voltage 3-Pin D-Sub: Contact Material Contact Resistance	20A 250V working Gold plated copper alloy 1mOhm (IEC60807-2)

Note:
3 off Male contacts are supplied with the connector kit.

Product Order Codes

3-Pin Power D-Type Connector, 20A, Right Angle PCB Mount, Male **40-963-003-RM**

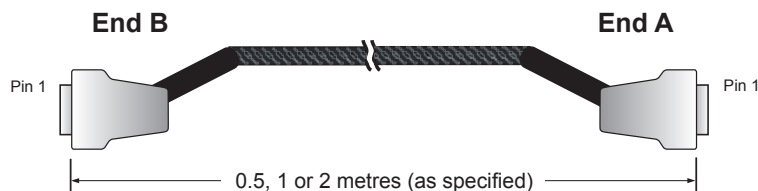
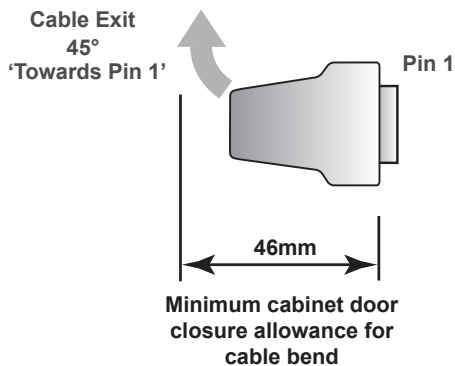
3-Pin Power D-Type Additional Connection Accessories

Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

3-Pin Power D-Type Cable Assy - Male to Male

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- 45 Degree Cable Exit
- Strain Relief
- Fully Screened Cable Construction

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product



Technical Specification

Connector Type (End A):	3-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	3-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Cable Assembly Rating:	
Maximum Current	20A
Maximum Voltage	350V DC or AC peak
Insulation Resistance	1000MΩ
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mΩ
Cable Exit	45° (Towards Pin 1)
Overall Size (Approx)	H32 x W15 x D46mm
Cable Type:	
Conductor: Material	Plain copper
Strands	50/0.24mm (2.5mm ² csa, 14AWG)
Resistance	Max as BS6360
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes
Additional Braided Sleeve	Yes
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	46mm (see diagram)
Notes:	
	Other cable lengths can be supplied.

Product Order Codes

3-Pin Power D-Type Cable Assy, 20A, Male to Male,	
0.5m Long	40-970-403-0.5m-MM
1.0m Long	40-970-403-1m-MM
2.0m Long	40-970-403-2m-MM

3-Pin Power D-Type Cable Assy - Male to Unterminated

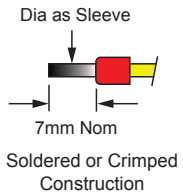
- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- 45 Degree Cable Exit
- Fully Coded Markers to Ensure Easy Connection

This Cable Assembly is Not Suitable for Connection to a Pickering Switching Product

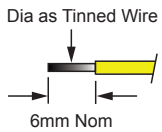


End B Options

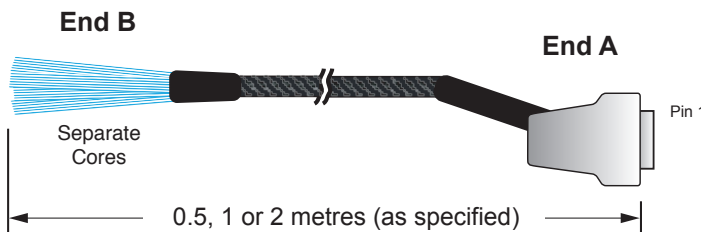
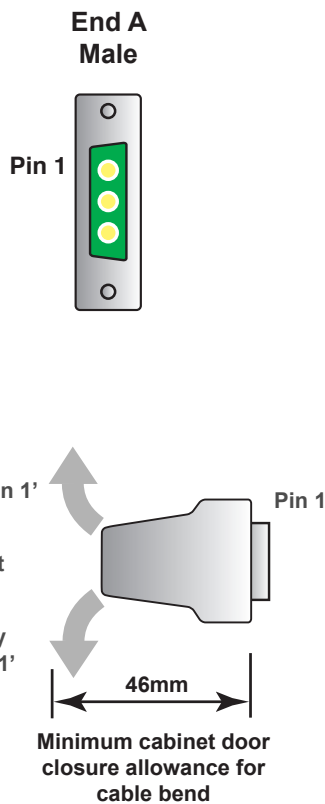
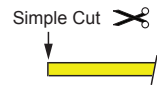
Ferrules



Tinned End



Cut End



Technical Specification

Connector Type (End A): Gender Securing Method	3-Pin D-Subminiature Male 4-40 UNC screwlocks, male
Unterminated End (End B): Free Wire Length Individual Wire Labelling Wire End Options	130mm nominal To connector pins Ferrules, Tinned, Cut End
Cable Assembly Rating: Maximum Current Maximum Voltage Insulation Resistance	20A 350V DC or AC peak 1000MOhm
Connector: Contact Material Contact Resistance Cable Exit Overall Size (Approx)	Gold plated copper alloy 1.0mOhm 45° (Away from Pin 1) H32 x W15 x D46mm
Cable Type: Conductor: Material Strands Resistance Insulation Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius Door Closure Allowance	Individual wires, screened & sleeved. Tri-rated Plain copper 50/0.24mm (2.5mm ² csa, 14AWG) Max as BS6360 PVC Polyester Yes Yes 10mm 25mm 46mm (see diagram)

Notes:

- Please ensure appropriate electrical safety precautions are observed when using this product.
- Other cable lengths can be supplied.

Product Order Codes

- 3-Pin Power D-Type Cable Assy, 20A, Cut Wires,
 Male to Unterminated, 0.5m Long [40-972-403-0.5m-MU](#)
 Male to Unterminated, 1.0m Long [40-972-403-1m-MU](#)
 Male to Unterminated, 2.0m Long [40-972-403-2m-MU](#)

Part numbers for other versions:

End B:
F = Ferrules
T = Tinned End

A003PM5-*-5A***

Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

3-Pin Power D-Type Connector - Male

- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with soldered connections to the connector.

Connector and shell are supplied separately to allow the user to determine the direction of the cable exit.

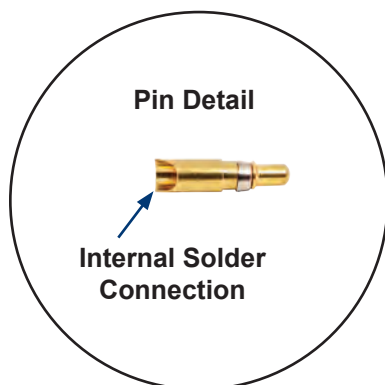
When the product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

This Connector is Not Suitable for Connection to a Pickering Switching Product



With Backshell

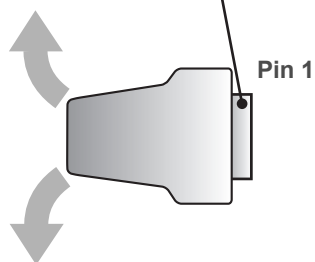
M



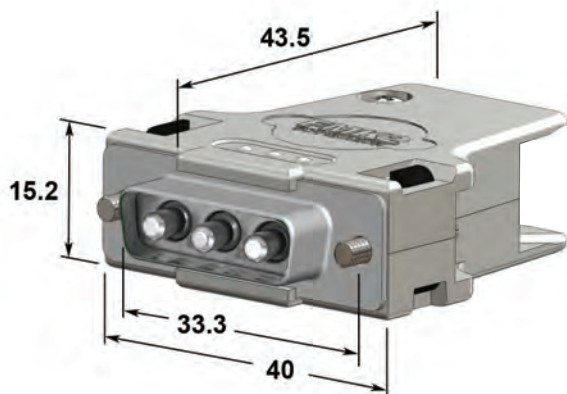
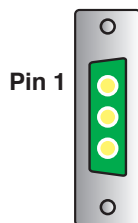
Pin Detail

Internal Solder Connection

45°
'Towards Pin 1'
Cable Exit Options
45° 'Away from Pin 1'



Male



Technical Specification

Connector Type:	3-Pin D-Subminiature Male
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket
Connector Ratings:	
Maximum Current	40A
Maximum Voltage	350V DC or AC peak
Cable Exit:	45°
Cable Exit Size	15mm dia
Overall Size (Approx)	H32 x W15 x D46mm
3-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	1.0mOhm
Wire Connection:	
Maximum Wire Size	12AWG
Recommended Insulation	Tri-rated PVC
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

3-Pin Power D-Type Connector, 40A, Solder Bucket,
With Backshell, Male

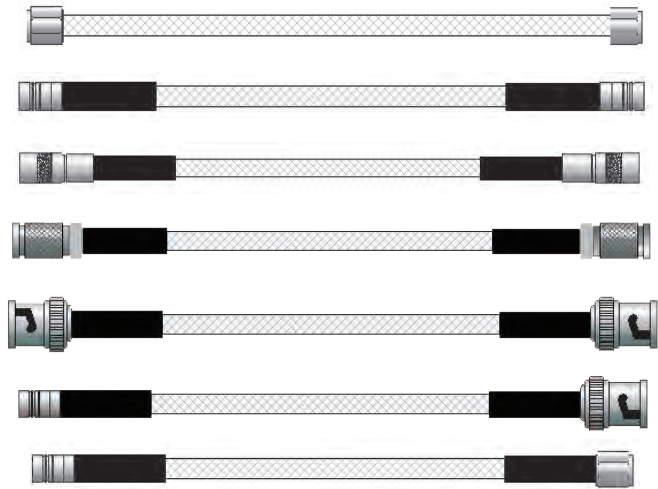
40-960-003-M

Without Backshell, Male

92-960-003-M

RF Cable Assemblies

- Range of 50 and 75 Ohm Cable Assemblies
- Wide Variety of Connector Styles
- Available in Standard and Custom Lengths







To complement our extensive range of PXI, LXI, PCI, VXI and GPIB switching products Pickering Interfaces offers a range of RF cable assemblies that interface with the user connectors provided. We have connection solutions for all our RF switching products. All cable assemblies are made from high quality materials and use best practice assembly methods to ensure the cabling matches the performance of the switching modules they support.

In addition to standard cable assemblies we can also offer inter-series cable assemblies that convert from one connector style to another. This is particularly useful when converting from the high density connector systems used on some switch solutions to the more commonly found larger connectors used on bench and user equipment.



Contents

RF Cable Assemblies					
View	Description	End 1	End 2	Part No.	Page
	50 Ohm Cable Assemblies	BNC, SMB, SMA & MCX Plugs and SMB Plug (Female)	As End 1	40-977-5**-*m	Page 23.3
	75 Ohm Cable Assemblies	BNC, SMZ, 1.0/2.3, MCX, F Type & 1.6/5.6 Plugs and Mini SMB Plug (Female)	As End 1	40-977-7**-*m	Page 23.4



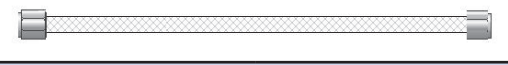





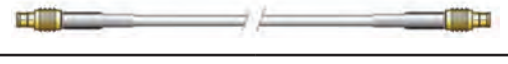
RF Cable Adaptor Assemblies					
View	Description	End 1	End 2	Part No.	Page
	50 Ohm Cable Adaptor Assemblies	BNC & N Type Plugs and SMB Plug (Female)	BNC, SMA & MCX Plugs	40-978-5**-*m	Page 23.5
	75 Ohm Cable Adaptor Assemblies	BNC Plug and Mini SMB Plug (Female)	BNC, SMZ/Type 43, 1.0/2.3 & MCX Plugs	40-978-7**-*m	

Cable Lengths and Ordering

Note: All cable assemblies are offered in the following standard lengths: 0.1m, 0.25m, 0.5m, 1m and 2m. Other lengths are available as requested by customers.

When ordering please specify cables as: 'Part Number-*m' where *m is the length in metres.
ie. 40-977-544-0.5m


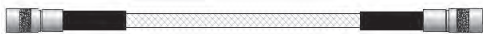





Cable Assemblies

50 Ohm Cable Assemblies						
Part No.	End 1 Connector 1	End 2 Connector 2	Type of Coaxial Cable	Maximum Frequency	Cable Attenuation	Cable O/D
40-977-501-*m	BNC Plug	BNC Plug	RG316	3GHz	1.9dB/m @3GHz	2.59mm
						
40-977-511-*m	SMB Plug (Female)	SMB Plug (Female)	RG316	3GHz	1.9dB/m @3GHz	2.59mm
						
40-977-521-*m	SMA Plug	SMA Plug	RG316	3GHz	1.9dB/m @3GHz	2.59mm
						
40-977-541-*m	uWave SMA Plug	uWave SMA Plug	RG402	18GHz	2.1dB/m @18GHz	3.6mm
						
40-977-542-*m	uWave SMA Plug	uWave SMA Plug	RG402	26.5GHz	2.8dB/m @28GHz	3.6mm
						
40-977-543-*m	uWave SMA 3.5 Plug	uWave SMA 3.5 Plug	RG402	26.5GHz	3.2dB/m @33GHz	3.6mm
						
40-977-544-*m	uWave SMA 2.92 Plug	uWave SMA 2.92 Plug	RG405	40GHz	4.35dB/m @45GHz	2.2mm
						
40-977-546-*m	uWave SMA 1.85 Plug	uWave SMA 1.85 Plug	RG405	67GHz	5.4dB/m @67GHz	2.2mm
						
40-977-561-*m	MCX Plug	MCX Plug	RG316	3GHz	1.9dB/m @3GHz	2.59mm
						

Compatibility:


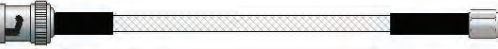



Note: SMA 1.85 connectors are fully compatible with 50GHz rated SMA 2.4 connectors.

Cable Assemblies


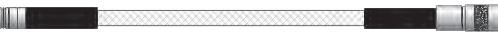


75 Ohm Cable Assemblies						
Part No.	End 1 Connector 1	End 2 Connector 2	Type of Coaxial Cable	Maximum Frequency	Cable Attenuation	Cable O/D
40-977-701-*m	75Ω BNC Plug	75Ω BNC Plug	RG179	1GHz	0.9dB/m @1GHz	2.54mm
						
40-977-711-*m	75Ω SMZ / Type 43 Plug	75Ω SMZ / Type 43 Plug	RG179	3GHz	1.8dB/m @3GHz	2.54mm
						
40-977-731-*m	75Ω 1.0/2.3 Plug	75Ω 1.0/2.3 Plug	RG179	3GHz	1.8dB/m @3GHz	2.54mm
						
40-977-751-*m	75Ω Mini SMB Plug (Female)	75Ω Mini SMB Plug (Female)	RG179	2GHz	1.3dB/m @2GHz	2.54mm
						
40-977-761-*m	75Ω MCX Plug	75Ω MCX Plug	RG179	3GHz	1.8dB/m @3GHz	2.54mm
						
40-977-781-*m	75Ω F Type Plug	75Ω F Type Plug	GTX-100-75Ω	1GHz	0.2dB/m @1GHz	6.7mm
						
40-977-791-*m	75Ω 1.6/5.6 Plug	75Ω 1.6/5.6 Plug	RG179	3GHz	1.8dB/m @3GHz	2.54mm
						

Cable Adaptor Assemblies

50 Ohm RF Cable Adaptor Assemblies

Part No.	End 1 Connector 1	End 2 Connector 2	Type of Coaxial Cable	Maximum Frequency	Cable Attenuation	Cable O/D
40-978-501-*m	50Ω SMB Plug (Female)	50Ω BNC Plug	RG316	3GHz	1.9dB/m @3GHz	2.59mm
						
40-978-511-*m	50Ω BNC Plug	50Ω SMA Plug	RG316	3GHz	1.9dB/m @3GHz	2.59mm
						
40-978-521-*m	50Ω SMB Plug (Female)	50Ω SMA Plug	RG316	3GHz	1.9dB/m @3GHz	2.59mm
						
40-978-571-*m	50Ω N Type Plug	50Ω SMA Plug	RG402	11GHz	1.6dB/m @12GHz	3.6mm
						
40-978-581-*m	50Ω BNC Plug	50Ω MCX Plug	RG316	3GHz	1.9dB/m @3GHz	2.59mm
						

75 Ohm RF Cable Adaptor Assemblies

Part No.	End 1 Connector 1	End 2 Connector 2	Type of Coaxial Cable	Maximum Frequency	Cable Attenuation	Cable O/D
40-978-701-*m	75Ω Mini SMB Plug (Female)	75Ω BNC Plug	RG179	1GHz	0.9dB/m @1GHz	2.54mm
						
40-978-711-*m	75Ω Mini SMB Plug (Female)	75Ω SMZ/Type 43 Plug	RG179	2GHz	1.3dB/m @2GHz	2.54mm
						
40-978-731-*m	75Ω Mini SMB Plug (Female)	75Ω 1.0/2.3 Plug	RG179	2GHz	1.3dB/m @2GHz	2.54mm
						
40-978-781-*m	75Ω BNC Plug	75Ω MCX Plug	RG179	2GHz	1.3dB/m @2GHz	2.54mm
						

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MS-M RF Connector Accessories

- **Mates Directly with Souriau MS-M RF Connectors**
- **Dense RF Connection to 500MHz**
- **50Ω Impedance Connectors**
- **Open Terminations for User Termination**



A range of mating parts and cable assemblies for MS-M RF connectors. Two types of solution are offered, a kit of component parts that users (or their preferred supplier) can use to create their own cable solutions or a set of pre-assembled cable assemblies that are ready to use or adapted to the user connector preferences.

Each of these products includes a mating connector which provides a strain relief designed to protect the cable to connector pin from being damaged by cable flexing or accidental pulling of the cable.

In all cases the recommended interface cable for use with MS-M RF connectors is RG178.

Pickering Interfaces can supply connection solutions terminated in any RF connector suitable for use with RG178. For other cable types contact your Pickering Interfaces sales office.





Part Number Listing for all MS-M RF Connection Accessories


Cables: MS-M RF Connector to Connector							
End 1	End 2	Product Order Code/Part Number				Mates with a Pickering Switching Product	Data Sheet Page
Type	Type	3-Pin (0.5m)	24-Pin (0.5m)	25-Pin (0.5m)	26-Pin (0.5m)		
MS-M RF Female	SMB Plug (female)	40-979-503-0.5m-SMB	40-979-524-0.5m-SMB	40-979-525-0.5m-SMB	40-979-526-0.5m-SMB	Yes	24.4

Cables: MS-M RF Connector to Underterminated							
End 1	End 2	Product Order Code/Part Number				Mates with a Pickering Switching Product	Data Sheet Page
Type	Underterminated Options	3-Pin (0.5m)	24-Pin (0.5m)	25-Pin (0.5m)	26-Pin (0.5m)		
MS-M RF Female	Cut End	40-979-503-0.5m-FU	40-979-524-0.5m-FU	40-979-525-0.5m-FU	40-979-526-0.5m-FU	Yes	24.5

Cable Connectors and Other: MS-M RF				
Product	Gender	Product Order Code/Part Number	Mates with a Pickering Switching Product	Data Sheet Page
26-Pin MS-M RF Housing	Female	40-969-526-F	Yes	24.6
MS-M RF Connector Pins RG178	Male	40-969-501-FC	Yes	
Crimp Tool	N/A	40-969-501-CT	N/A	
Extractor Tool	N/A	40-969-501-ET	N/A	

Contents - Mating Accessories for Pickering Products

Cable Assemblies				
View	Description	End 1	End 2	Page
	Cable Assy, MS-M RF to SMB, 0.5m Long Custom lengths by quotation	3-Pin MS-M RF, Female	SMB Plug (female)	Page 24.4
		24-Pin MS-M RF, Female		
		25-Pin MS-M RF, Female		
		26-Pin MS-M RF, Female		
	Cable Assy, MS-M RF to Unterminated, 0.5m Long Custom lengths by quotation	3-Pin MS-M RF, Female	Unterminated	Page 24.5
		24-Pin MS-M RF, Female		
		25-Pin MS-M RF, Female		
		26-Pin MS-M RF, Female		

Female Connectors			
View	Description	Gender	Page
	26-Pin MS-M RF Connector Housing, and Accessories	Female	Page 24.6

Custom Termination Section 25

MS-M RF Connector to Connector Assembly - Female to SMB

- High Specification Cable
- Highly Flexible Cable with Braided Sleaving
- Rear Cable Exit
- Strain Relief
- Fully Screened Cable Construction

A range of cable assemblies suited to applications using the Souriau MS-M RF connector.

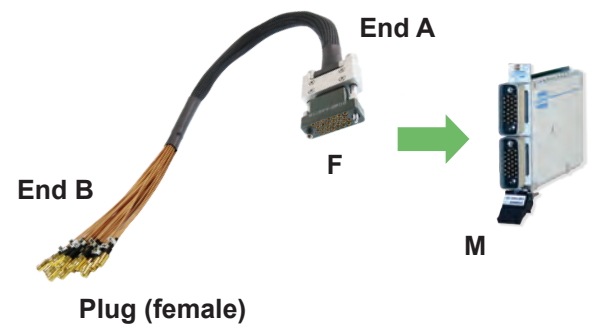
Selection Guidance

40-979-526: For use with any MS-M product, when used on some connectors there may be spare leads which do not connect to the RF product.

40-979-525: For use with 40-755 where 25 connections are required and with the LOWER CONNECTOR BANK B connection of the 40-754 where 25 connections are required.

40-979-524: For use with 40-754 connector that supports 8 off SPDT switches.

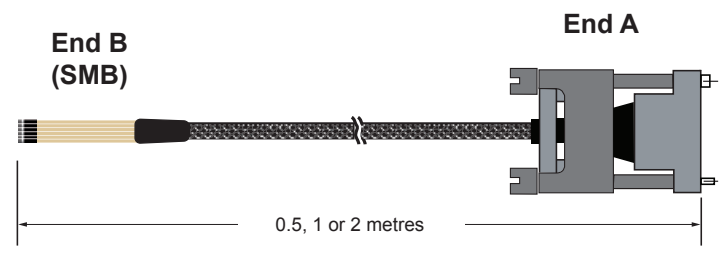
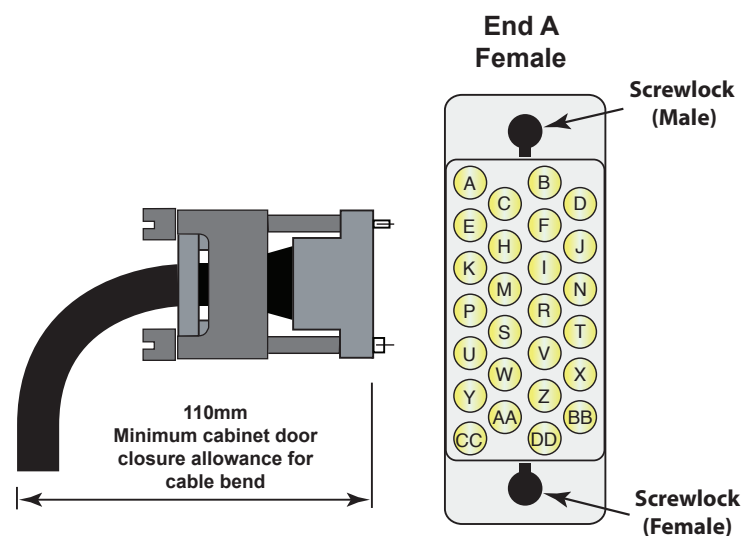
40-979-503: For use with 40-754 connector that supports 1 off SPDT switch.



Plug (female)

Technical Specification

Connector Type (End A):	MS-M RF (3, 24, 25 or 26-Pin)
Gender	Female
Contact Material	Copper alloy
Impedance	50 Ohm
Securing Method:	6-32 UNC screwlocks, Male & female (see diagram)
Cable Exit	Rear
Overall Size (Approx)	H41 x W15 x D66mm
Connector Type (End B):	SMB
Gender	Plug (female)
Contact Material	Gold plated brass
Impedance	50 Ohm
Securing Method	Push fit
Cable Exit	Rear
Overall Size (Approx)	6.5mm dia x 20mm long
Free Wire Length	130mm (approx)
Cable Assembly Rating:	500MHz with good VSWR
Maximum Frequency	RG178
Cable Type:	
Conductor: Material	Ag plated copper clad steel
Attenuation	1.08dB/m at 400MHz
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Copper braid)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	50mm
Door Closure Allowance	110mm (see diagram)
Notes:	
	<ul style="list-style-type: none"> • Cable assemblies can be ordered partially loaded instead of having the full number of connector pins and cables. • Other cable lengths can be supplied.



Product Order Codes

- MS-M RF 3-Pin Cable Assy, Female to SMB, 0.5m Long [40-979-503-0.5m-SMB](#)
- MS-M RF 24-Pin Cable Assy, Female to SMB, 0.5m Long [40-979-524-0.5m-SMB](#)
- MS-M RF 25-Pin Cable Assy, Female to SMB, 0.5m Long [40-979-525-0.5m-SMB](#)
- MS-M RF 26-Pin Cable Assy, Female to SMB, 0.5m Long [40-979-526-0.5m-SMB](#)

MS-M RF Cable Assembly, Female to Unterminated

- High Specification Cable
- Highly Flexible Cable
- Fully Screened Cable Construction with Braided Sleeve and Strain Relief
- Rear Cable Exit
- Wires Coded to Ensure Easy Connection

Range of cable assemblies suited to applications using the Souriau MS-M RF connector. Supported products include 40-754 and 40-755.

Each cable assembly is based on the use of Pickering Interfaces integrated connector and strain relief system that minimizes the risk of cable damage caused by flexing during use.

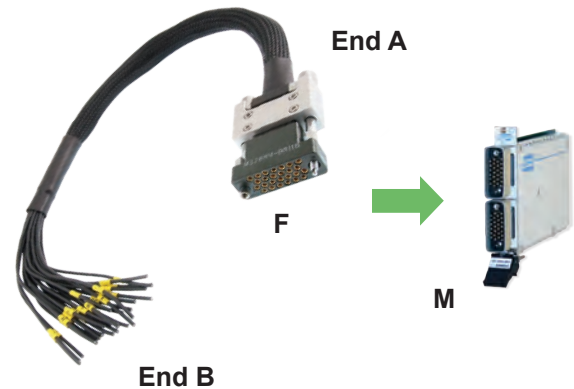
Selection Guidance

40-979-526: For use with any MS-M product, when used on some connectors there may be spare leads which do not connect to the RF product.

40-979-525: For use with 40-755 where 25 connections are required and with the LOWER CONNECTOR BANK B connection of the 40-754 where 25 connections are required.

40-979-524: For use with 40-754 connector that supports 8 off SPDT switches.

40-979-503: For use with 40-754 connector that supports 1 off SPDT switch.

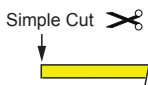


Technical Specification

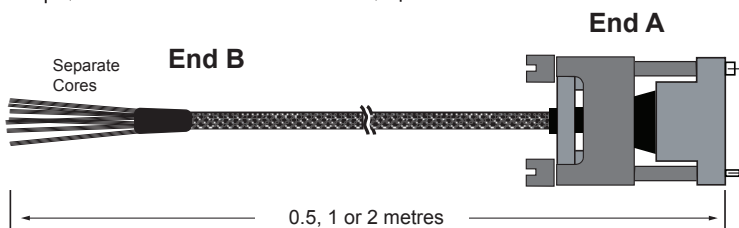
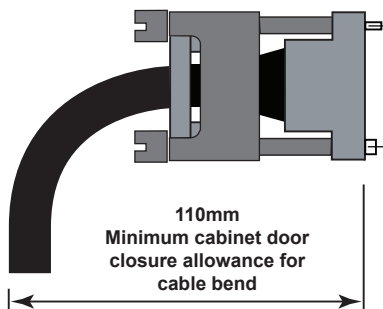
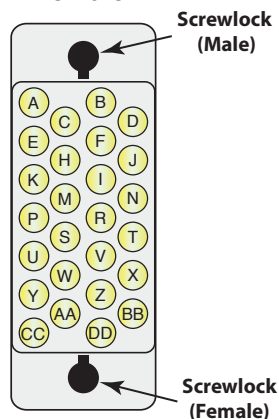
Connector Type (End A):	MS-M RF (3, 24, 25 or 26-Pin)
Gender	Female
Contact Material	Copper alloy
Impedance	50 Ohm
Securing Method:	6-32 UNC screwlocks, male & female (see diagram)
Cable Exit	Rear
Overall Size (Approx)	H41 x W15 x D66mm
Unterminated End (End B):	Separate cores
Free Wire Length	130mm nominal
Individual Wire Labelling	To connector pins
Wire End Options	Cut End
Cable Assembly Rating:	
Maximum Frequency	500MHz with good VSWR
Cable Type:	RG178
Conductor: Material	Ag plated copper clad steel
Attenuation	1.08dB/m at 400MHz
Insulation	PVC
Outer Sleeve	Polyester
Screened Construction	Yes (Copper braid)
Additional Braided Sleeve	Yes
Cable O/D	13mm
Minimum Bend Radius	50mm
Door Closure Allowance	110mm (see diagram)
Notes:	
	<ul style="list-style-type: none"> • Cable assemblies can be ordered partially loaded instead of having the full number of connector pins and cables. • Other cable lengths can be supplied.

End B Options

Cut End



End A Female

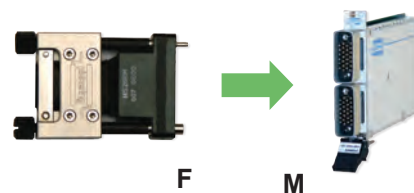


Product Order Codes

- MS-M RF 3-Pin Cable Assy, Female to Unterminated, 0.5m Long [40-979-503-0.5m-FU](#)
- MS-M RF 24-Pin Cable Assy, Female to Unterminated, 0.5m Long [40-979-524-0.5m-FU](#)
- MS-M RF 25-Pin Cable Assy, Female to Unterminated, 0.5m Long [40-979-525-0.5m-FU](#)
- MS-M RF 26-Pin Cable Assy, Female to Unterminated, 0.5m Long [40-979-526-0.5m-FU](#)

MS-M RF Connection Interface Components

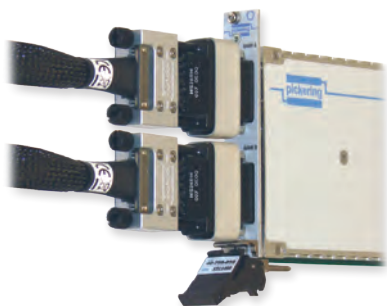
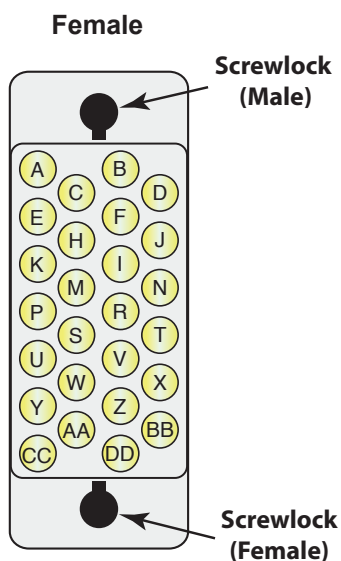
- Connector Housing with Strain Relief
- RF Connector Pins for use with RG178 Cables
- Crimp and Extractor Tools



These components allow users or their designated cable assembly suppliers to create their own cabling solutions for use with the Souriau MS-M RF connection solution.

RF connections should be made using the recommended crimp tool 40-969-501-CT.

For applications requiring a low number of RF connections packing may be required to allow the clamp mechanism to operate correctly.



Technical Specification

Connector Type:	26-Pin MS-M RF connector housing
Gender	Female
Securing Method	6-32 UNC screwlocks, male and female (see diagram)
Cable Exit	Rear - 18 x 8.5mm
Overall Size (Approx)	H41 x W15 x D66mm
Wire Connection	User defined. Pins supplied separately
Wire Connection:	
Recommended Wire	RG178
Connection Method	Crimp
Additional Cable Clamp	Yes

Product Order Codes

26-Pin MS-M RF Connector Housing with Strain Relief, Female	40-969-526-F
MS-M RF Connector Pins RG178 (Souriau)	40-969-501-FC
Crimp Tool for MS-M RF Connector Pins	40-969-501-CT
Extractor Tool for MS-M RF Connector Pins	40-969-501-ET

Custom Termination

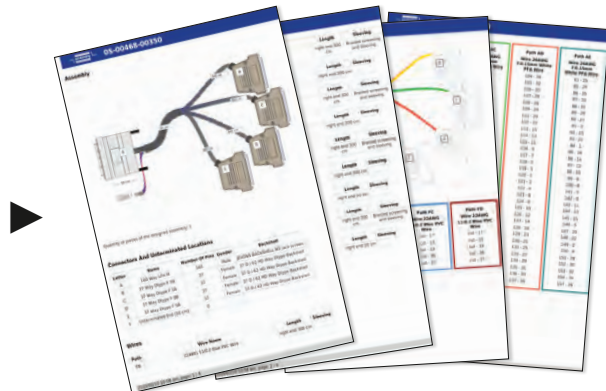
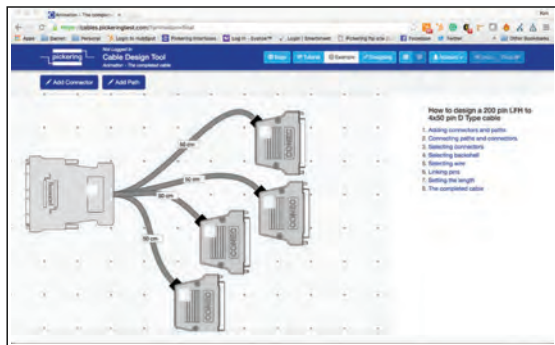
Pickering Interfaces are able to manufacture custom built cable assemblies and backshells that mate with all the connectors we use in our extensive product range and to provide connection solutions for third party products.

We are able to model and manufacture cable assemblies and other termination arrangements to user notes and drawings, and to deal with simple and complex assemblies, and both small and high volume orders.

All products are designed to ensure easy and problem free connection.

We offer a fast turn round of custom items to keep your ordering and integration timescales to a minimum.

NEW - Pickering's Cable Design Tool



Go to pickeringtest.com/cdt to find out more.

Over the years, we have received many requests for customized cabling solutions that are often based on our standard cable assemblies but adjusted to match specific application requirements. To help with this, we have introduced our Cable Design Tool – a new graphically based web tool for cable design. We're excited about the features the software includes:

- Graphical design of customized cable assemblies
- Built-in library of standard cable sets to be used as the basis for customization or cables can just be defined from scratch
- The ability to store cable assemblies in the Cloud and develop over time
- Each cable design has a documentation pdf file detailing all of the specifications
- Very detailed design characteristics including the selection of connector types, wire type, pin definitions, pin and cable labeling, cable bundling, length selection, sleeving, comments, etc.
- Runs on popular browsers, Windows, Mac and Linux
- Fully supported on popular tablets: iPad and Android
- Built-in tutorials allow you to get quickly up to speed

Because the Cable Design Tool is a web-based tool, we will continually update it to better accommodate your requirements and features. Your data is not trapped; complete details of the design are always available to the user at any time via the documentation or spreadsheet file. Once a cable is designed, you can submit it to us for quotation.

Global Operations



Pickering serves many industries including aerospace & defense, automotive, power generation, energy and commercial electronics. Pickering operates globally with direct operations in the US, UK, Germany, Sweden, France, Czech Republic and China—with additional representation in countries throughout the Americas, Europe and Asia.

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