

- Cable Assemblies
- Cable Connectors and Connector Blocks
- PCB Connectors
- Robust Construction
- 3 Year Warranty



Simple Connection

Pickering connection solutions provide a simple way of connecting to a user's device under test or remote connection. The products include cable assemblies, cable connectors and pcb connectors.

Cable Assemblies

Cable assemblies are offered in connector to connector, and connector to unterminated versions. There are 2 termination options for the unterminated cables - tinned copper or simple cut end.

Custom Design Needs




Pickering Interfaces can manufacture custom connector accessories to suit any application. If you do not see what you need in this data sheet contact your Pickering Interfaces sales office with information on your requirements or consider using our free online Cable Design Tool.

Using our Cable Design Tool, you can graphically design your own custom cable assembly. Once completed and submitted, our engineers will generate a quote for your cable requirements. See pickeringtest.com/cdt






An example of a Pickering LXI Product using a 25-Pin Micro-D Connector for DIO/Trigger

Cable Assemblies

Description		End 1	End 2		Cable Length	Product Order Code and Part Number	Data Sheet Page
		Gender & Cable Exit	Gender & Cable Exit	Options			
	Cable Assy, 25-Pin 1.27 mm Pitch Micro-D	Female, Rear Cable Exit, 2-56 UNC Screwlocks (Male)	Female, Rear Cable Exit, 2-56 UNC Screwlocks (Male)	-	0.5 m 1 m 2 m	A025CFR-025CFR-5A050 A025CFR-025CFR-5A100 A025CFR-025CFR-5A200	3
	Cable Assy, 25-Pin 1.27 mm Pitch Micro-D to 25-Pin D-Type, 1 A	Female, Rear Cable Exit, 2-56 UNC Screwlocks (Male)	Male, Rear Cable Exit, 4-40 UNC Screwlocks (Male)	-	1.8 m	A025CFR-025DMR-5A180	4
	Cable Assy, 25-Pin 1.27 mm Pitch Micro-D to Unterminated	Female, Rear Cable Exit, 2-56 UNC Screwlocks (Male)	NA	Tinned End	0.5 m 1 m 2 m	A025CFR-T-5A050 A025CFR-T-5A100 A025CFR-T-5A200	5
				Cut End	0.5 m 1 m 2 m	A025CFR-C-5A050 A025CFR-C-5A100 A025CFR-C-5A200	
Note: Custom lengths by quotation							

Connectors

Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	Cable Connector 25-Pin 1.27 mm Pitch Micro-D, Crimp	Female, Rear Cable Exit, 2-56 UNC Screwlocks (Male)	With Backshell	C025CFR-1CP-0A	6
	PCB Connector 25-Pin 1.27 mm Pitch Micro-D	Male 2-56 UNC Screwlocks (Female)	Right Angle PCB Mount	C025CMX-1PR-0A	7
			Straight PCB Mount	C025CMX-1PS-0A	8

Custom Termination

Customization Possibilities [9](#)

Please click on the page number to navigate to the data sheet page required. Return to this page via the  button.

- Suitable for Use with the LXI DIO/Trigger
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Fully Tested

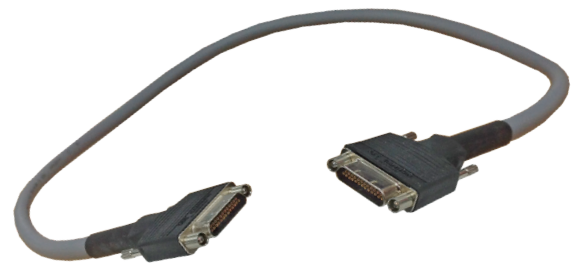
This series of cables are suitable for use with the LXI DIO/Trigger. They terminate in a 25-pin female Micro D connector at each end, yet do not include shielded twisted pair wiring. As the cable does not consist of shielded twisted pair wiring it is unsuitable for use with the LXI Wired Trigger Bus.

Technical Specification

Connector Type (End A):	25-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Connector Type (End B):	25-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Maximum Current	1A
Maximum Voltage	100 VAC r.m.s
Insulation Resistance	5000 MOhm
Connectors:	
Contact Material	Copper alloy
Contact Resistance	20 mOhm
Cable Exit:	Rear
Overall Size (Approx)	H30 x W10 x D43 mm
Cable Type:	25 core shielded
Conductor: Material	Copper
Strands	18/0.1 (26AWG)
Resistance	0.25 Ω /m
Insulation	Special PVC T12
Differential Impedance	78 Ω
Outer Sleeve	Special PVC TM2
Screened Construction	Cable screen connected to inner metal housing of connectors
Additional Braided Sleeve	No
Cable O/D	8.5 mm
Minimum Bend Radius	42.5 mm
Door Closure Allowance	83 mm (see diagram)

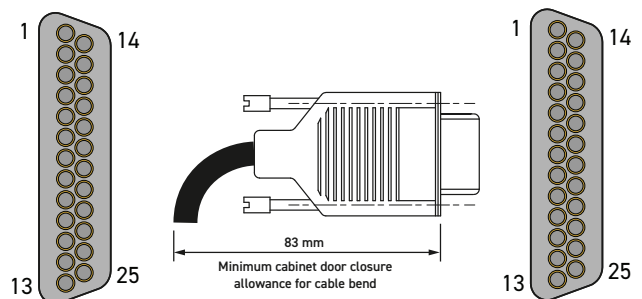
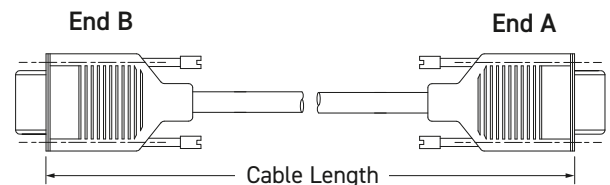
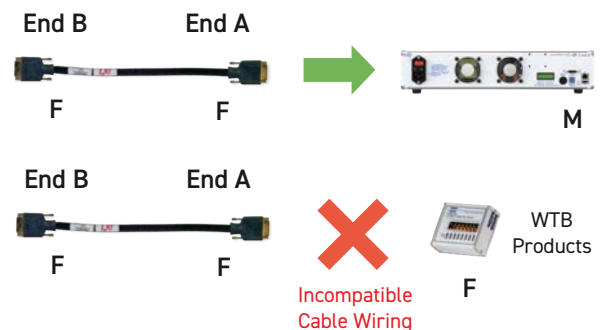


Female Connector
Mating Face



25-Pin Micro-D Cable Assembly

Product Compatibility



End B - Female
Mating Face

End A - Female
Mating Face

Product Order Codes

25-Pin 1.27 mm Pitch Micro-D Cable Assy, 2.5 A,
 Female to Female, 0.5 m Long [A025CFR-025CFR-5A050](#)
 Female to Female, 1.0 m Long [A025CFR-025CFR-5A100](#)
 Female to Female, 2.0 m Long [A025CFR-025CFR-5A200](#)

Note: Other cable lengths can be supplied.

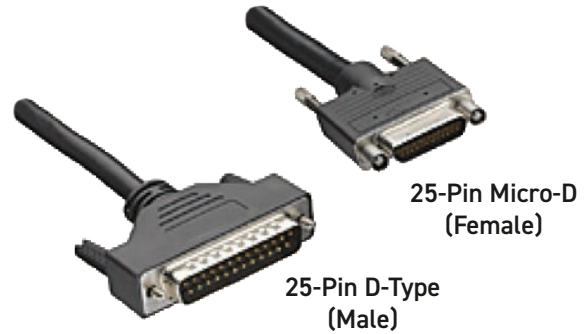
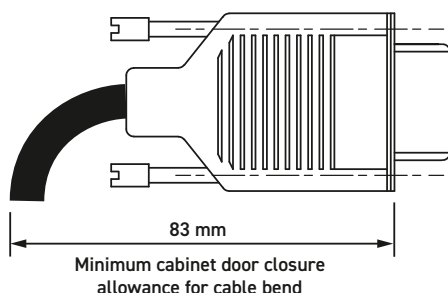
- Suitable for Use with the LXI DIO/Trigger
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief

This cable terminates with a 25-pin female Micro D connector at one end and a 25-pin D-Type male connector at the other. This cable will mate with the 25-Pin D-Type range detailed in data sheet 90-008D.

As the cable does not consist of shielded twisted pair wiring it is unsuitable for use with the LXI Wired Trigger Bus.

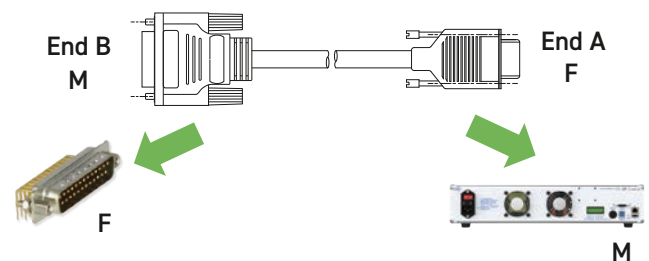
Technical Specification

Connector Type (End A):	25-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Contact Material	Gold plated copper alloy
Cable Exit:	Rear
Overall Size (Approx)	H30 x W10 x D43 mm
Connector Type (End B):	25-Pin D-Subminiature
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Contact Material	Gold plated copper alloy
Cable Exit:	Rear
Overall Size (Approx)	H37 x W9 x D40 mm
Maximum Current	1A at 25 °C, 0.7 A at 70 °C
Maximum Voltage	30 V r.m.s
Cable Type:	25 core shielded
Conductor: Material	Copper
Strands	18/0.1 (26AWG)
Resistance	0.25 Ω/m
Insulation	Special PVC T12
Differential Impedance	78 Ω
Outer Sleeve	Special PVC TM2
Screened Construction	Yes. Cable screen connected to inner metal housing of connectors
Additional Braided Sleeve	No
Cable O/D	8.5 mm
Minimum Bend Radius	42.5 mm
Door Closure Allowance (Micro-D)	83 mm (see diagram)

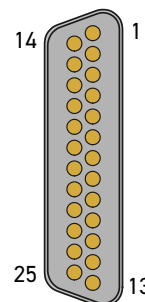
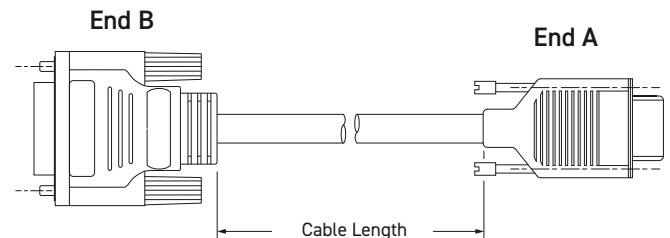


25-Pin Micro-D to 25-Pin D-Type Cable Assembly

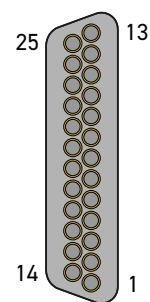
Product Compatibility



Note: For 25-Pin D-Type Products. See Data Sheet 90-008D.



End B
25-Pin D-Type (Male)
Mating Face



End A
25-Pin Micro-D (Female)
Mating Face

Product Order Codes

25-Pin 1.27 mm Pitch Micro-D Cable Assy (Female) to 25-Pin D-Type (Male), 1A, 1.83 m Lg

A025CFR-025DMR-5A180

Note: Other cable lengths can be supplied.

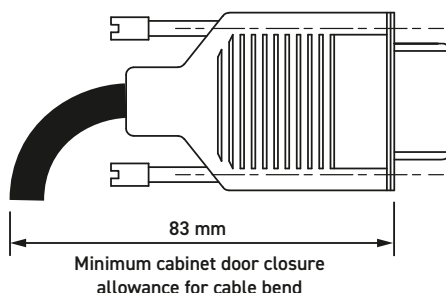
- Suitable for Use with the LXI DIO/Trigger
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Fully Tested

This cable is suitable for use with the LXI DIO/Trigger offering unterminated connections at End B to suit the customers connection requirements. As the cable does not consist of shielded twisted pair wiring it is unsuitable for use with the LXI Wired Trigger Bus.

Technical Specification

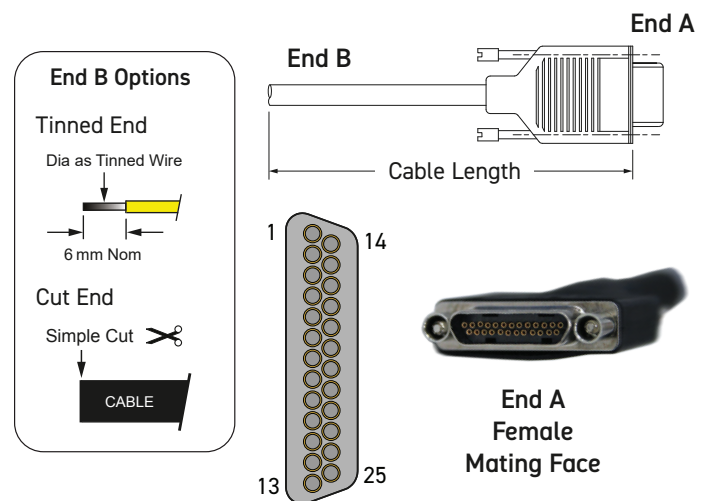
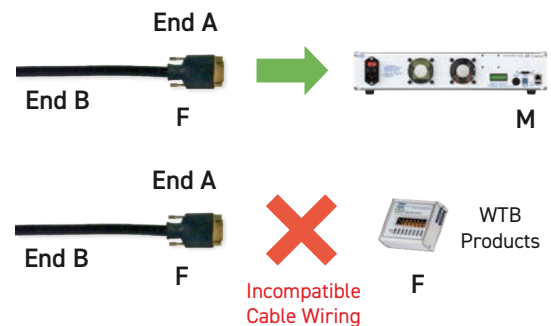
Connector Type (End A):	25-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Unterminated End (End B):	
Wire End Options	Tinned and Cut End
Free Wire Length	130 mm nominal
Individual Wire Labelling	To connector pins. A white/black screen pigtail is included for the Tinned version
Maximum Current	1A
Maximum Voltage	100 VAC r.m.s
Insulation Resistance	5000 MOhm
Connectors:	
Contact Material	Copper alloy
Contact Resistance	20 mOhm
Cable Exit:	Rear
Overall Size (Approx)	H30 x W10 x D43 mm
Cable Type:	25 core shielded
Conductor: Material	Copper
Strands	18/0.1 (26AWG)
Resistance	0.25 Ω /m
Insulation	Special PVC T12
Differential Impedance	78 Ω
Outer Sleeve	Special PVC TM2
Screened Construction	Yes. Cable screen connected to inner metal housing of connector
Additional Braided Sleeve	No
Cable O/D	8.5 mm
Minimum Bend Radius	42.5 mm
Door Closure Allowance	83 mm (see diagram)

Note: When using this product please ensure appropriate electrical safety.



25-Pin Micro-D Unterminated Cable Assembly

Product Compatibility



Product Order Codes

25-Pin 1.27 mm Pitch Micro-D Cable Assy, 2.5 A, Female to Unterminated,
Tinned Ends, 0.5 m Long [A025CFR-T-5A050](#)
Tinned Ends, 1.0 m Long [A025CFR-T-5A100](#)
Tinned Ends, 2.0 m Long [A025CFR-T-5A200](#)

Cut End, 0.5 m Long [A025CFR-C-5A050](#)
Cut End, 1.0 m Long [A025CFR-C-5A100](#)
Cut End, 2.0 m Long [A025CFR-C-5A200](#)

Note: Other cable lengths can be supplied.

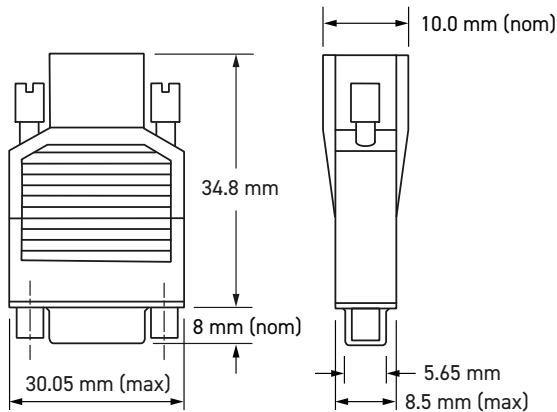
- Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

This accessory is designed to allow users to directly terminate with crimped connections to the connector.

If 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:	25-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method:	2-56 UNC screwlocks, male
Wire Connection	Crimp
Cable Screen Connection	Cable clamp of inner metal housing
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	100 VAC r.m.s
Cable Exit:	Rear
Cable Exit Size	10 mm dia
Overall Size (Approx)	H30 x W10 x D43 mm
25-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	20 mOhm max
Wire Connection:	
Maximum Wire Size	26AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

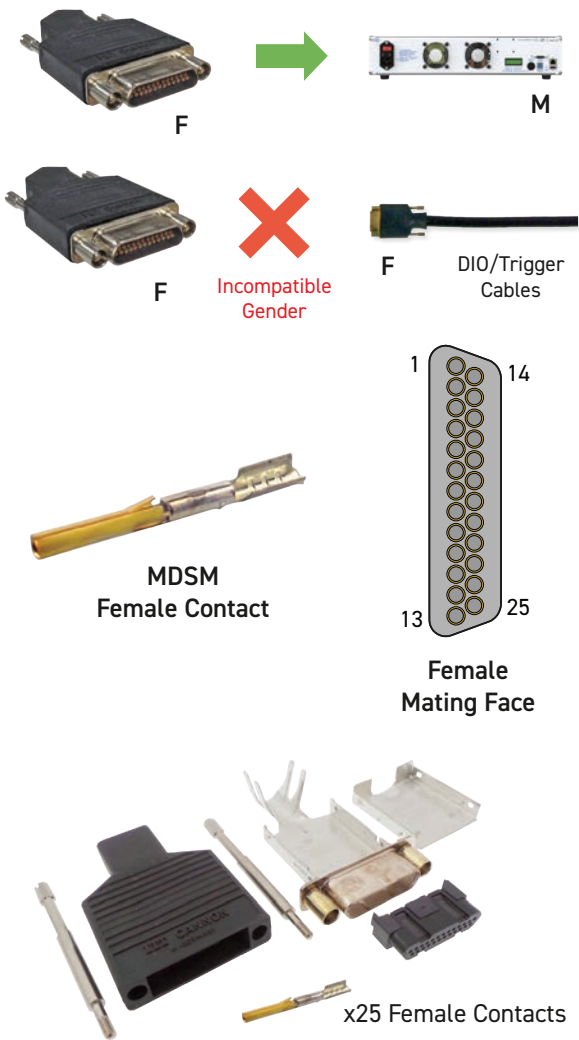


Connector Dimensions



25-Pin Micro-D Cable Connector with Backshell

Product Compatibility



Product Order Codes

25-Pin 1.27 mm Pitch Micro-D Connector Kit, 1A, With Backshell, Female [C025CFR-1CP-0A](#)

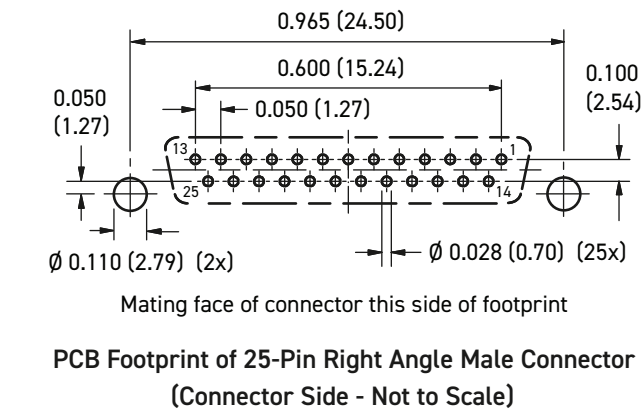
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

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 data sheet. 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.

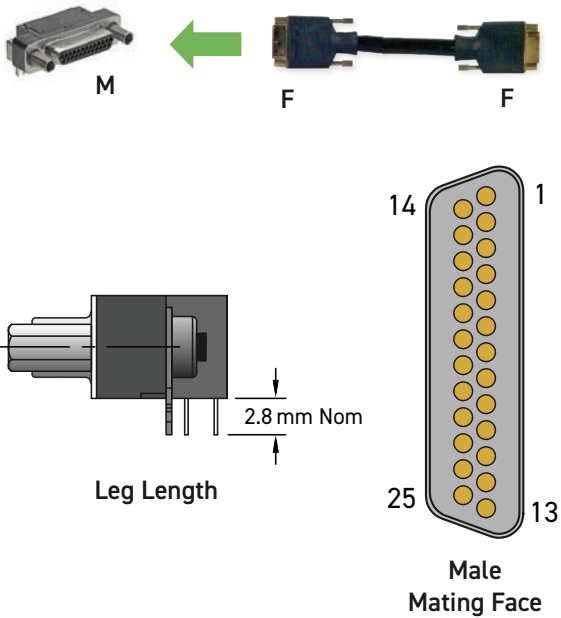
Technical Specification

Connector Type:	25-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	350 V AC
25-Pin Micro-D:	
Contact Material	Gold plated copper alloy
PCB Legs:	
Leg Length	2.8 mm nom (See diagram)



25-Pin Micro-D PCB Connector

Product Compatibility



Product Order Codes

25-Pin 1.27 mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount, Male	C025CMX-1PR-0A
Note: Please ensure the correct cable is used for the application.	

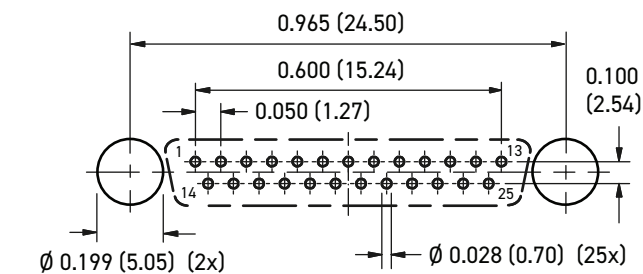
- Straight PCB Mount
- Ideal for User Created Termination Solutions

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 data sheet. 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:	25-Pin 1.27 mm Pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks, female
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	350 V AC
25-Pin Micro-D:	
Contact Material	Gold plated copper alloy
PCB Legs:	
Leg Length	2.8 mm nom (See diagram)

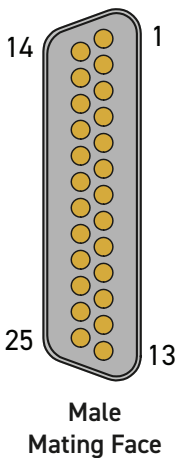
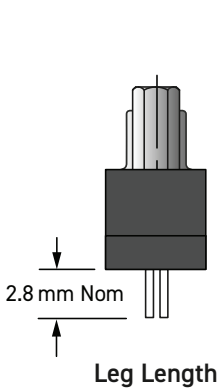
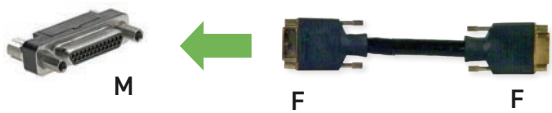


PCB Footprint of 25-Pin Straight Male Connector
(Connector Side - Not to Scale)



25-Pin Micro-D PCB Connector

Product Compatibility



Product Order Codes

25-Pin 1.27 mm Pitch Micro-D Connector, 1A,
Straight PCB Mount, Male [C025CMX-1PS-0A](#)

Note: Please ensure the correct cable is used for the application.

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.

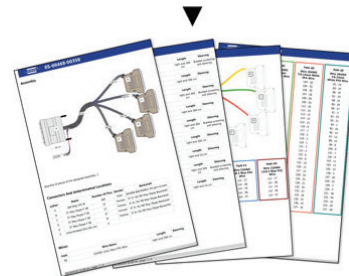
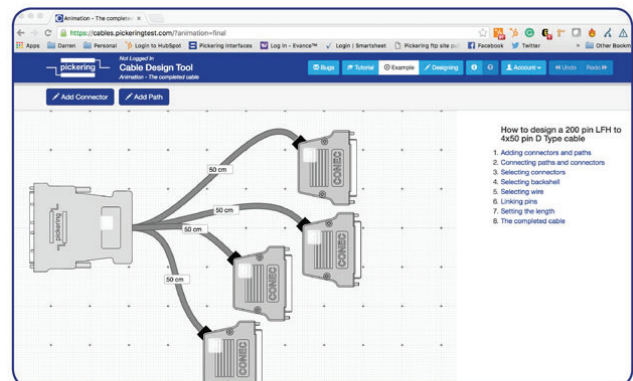
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.



Pickering's Cable Design Tool

Our Cable Design Tool is an online tool that allows you to define a cable assembly to exactly meet your requirements.

- Graphical design of customized cable assemblies
- Built-in library of standard cable sets can be used as the basis for customization, or cables can be defined from scratch
- The ability to store cable assemblies in the Cloud and develop them over time
- Each cable design has a PDF documentation file detailing all the specifications
- Allows detailed design including; connector types, wire type, pin definitions, pin & cable labelling, cable bundling, length selection, sleeving, comments, etc.
- Add your own connectors and wires
- Fully supported on major tablet operating systems



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.

For more information visit: pickeringtest.com/cdt