104-Pin D-type Accessories

- Standard Voltage 300 VAC r.m.s, 2 A
- Cable Assemblies
- Cable Connectors
- PCB Connectors
- Guaranteed Compatibility



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 3 termination options for the unterminated cables - ferrules, tinned copper or simple cut end.





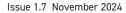
Custom Design Needs

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



Example of a Pickering PXI and BRIC Product using 104-Pin D-type Connectors





High Specification Cable Assemblies

		End 1	End 2		Cable	Product Order Code	Data
Description		Gender & Cable Exit	Gender & Cable Exit	Options	Length	and Part Number	Sheet Page
Cable Assy,	Male, Rear	Female, Rear	-	0.5 m 1 m 2 m	40-970-104-0.5m-MF 40-970-104-1m-MF 40-970-104-2m-MF	4	
	104-Pin D-Type, 2 A	Female, Rear	Female, Rear	-	0.5 m 1 m 2 m	40-970-104-0.5m-FF 40-970-104-1m-FF 40-970-104-2m-FF	5
	Cable Assy, 104-Pin D-Type to 45° Away from Unterminated, 2 A			Ferrules	0.5 m 1 m 2 m	40-972-104-0.5m-FU 40-972-104-1m-FU 40-972-104-2m-FU	
		45° Away from	NA	Tinned End	0.5 m 1 m 2 m	A104HFR-T-0A050 A104HFR-T-0A100 A104HFR-T-0A200	6
				Cut End	0.5 m 1 m 2 m	A104HFR-C-0A050 A104HFR-C-0A100 A104HFR-C-0A200	
Note: Custom le	ngths by quotation.	Max length 5 m.					•

High Specification Connectors

Description		Gender & Cable Exit	Туре	Product Order Code and Part Number	Page
	Cable Connector 104-Pin D-Type,	Female,	With Backshell	C104DFR-2SB-1A	7
Salahan	5 A, Solder Bucket	Rear	Without Backshell	C104DFX-2SB-1A	
	PCB Connector 104-Pin D-Type, 5 A	Female	Right Angle PCB Mount	40-963-104-RF	8
	PCB Connector 104-Pin D-Type, 5 A	Male	Right Angle PCB Mount	40-963-104-RM	9

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

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Additional Accessories

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

High Specification Cable Assemblies

Description		End 1	End 2		Cable	Product Order Code	Data
		Gender & Cable Exit	Gender & Cable Exit	Options	Length	and Part Number	Sheet Page
	Cable Assy, 104-Pin D-Type, 2 A	Male, Rear	Male, Rear	-	0.5 m 1 m 2 m	40-970-104-0.5m-MM 40-970-104-1m-MM 40-970-104-2m-MM	11
Cable	Cable Assy,	to Male,	NA	Ferrules	0.5 m 1 m 2 m	40-972-104-0.5m-MU 40-972-104-1m-MU 40-972-104-2m-MU	
	104-Pin D-Type to Unterminated,			Tinned End	0.5 m 1 m 2 m	A104HMR-T-0A050 A104HMR-T-0A100 A104HMR-T-0A200	12
	2 A		Cut End	0.5 m 1 m 2 m	A104HMR-C-0A050 A104HMR-C-0A100 A104HMR-C-0A200		
Note: Custom lengths by quotation							

High Specification Connectors

	Description	Gender & Cable Exit	Туре	Product Order Code and Part Number	Page	
	Cable Connector	Male, Rear	With Backshell	40-960-104-M	10	
A terminal and the second	104-Pin D-Type, 5 A, Solder Bucket		Without Backshell	92-960-104-M	13	

Custom Termination

Cable Assy - Male to Female

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

Technical Specification

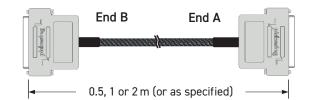
Connector Type (End A):104-Pin D-Subminiature, Density and a halfGenderFemaleSecuring Method4-40 UNC screwlocks, maleConnector Type (End B):50-Pin D-Subminiature Density and a halfGenderMaleSecuring Method4-40 UNC screwlocks, maleMaximum Current Maximum Voltage300 VAC r.m.sInsulation Resistance5000 M0hmConnectors:Contact MaterialGold plated copper alloyContact Resistance30 m0hmCable ExitRearOverall Size (Approx)H71 x W19 x D55 mmCable Type:Individual wires, screened & sleevedConductor:MaterialSilver plated copper wireStrands Resistance Insulation19/0.16 (0.38 mm², 22AWG)Outer SleevePolyesterScreened ConstructionYes (Cable screen connected to backshells)Additional Braided Sleeve Cable O/D18 mmMinimum Bend Radius Door Closure Allowance35 mm115 mm (see diagram)		
Gender Securing MethodFemale 4-40 UNC screwlocks, maleConnector Type (End B):50-Pin D-Subminiature Density and a half MaleGenderMaleSecuring Method4-40 UNC screwlocks, maleMaximum Current Maximum Voltage Insulation Resistance2 A 300 VAC r.m.sInsulation Resistance Connectors:5000 MOhmContact Material Contact ResistanceGold plated copper alloy 30 mOhmCable Exit Overall Size (Approx)H71 x W19 x D55 mm H71 x W19 x D55 mmCable Type:Individual wires, screened & sleevedConductor:Material Silver plated copper wireStrands Resistance InsulationSilver plated copper wireOuter Sleeve Screened Construction0.054 Ω/m PFAOuter Sleeve Screened ConstructionYes (Cable screen connected to backshells)Additional Braided Sleeve Cable O/D Minimum Bend Radius18 mm 35 mm	Connector Type (End A):	•
Securing Method Connector Type (End B): Gender Securing Method Male Securing Method Male Securing Method Maximum Current Maximum Voltage Insulation Resistance Connectors: Contact Material Corrent Cable Exit Overall Size (Approx) Cable Type: Conductor: Material Strands Strands Strands Resistance Insulation Strands Resistance Conductor: Material Strands Strands Resistance Outer Sleeve Screened Construction Material Silver plated copper wire 19/0.16 (0.38 mm², 22AWG) 0.054 Ω/m PFA Outer Sleeve Screened Construction Additional Braided Sleeve Cable O/D Minimum Bend Radius 50-Pin D-Subminiature Density and a half Sol-Pin Desubminiature Density and a half Sol Pin Desubminiature Density and a half Sol Pin Desubminiature Density and a half Sol Pin Desubminiature Solo Pin Desubminiature Solo Pin Desubminiature Density and a half Solo Pin Desubminiature Solo Pin Desubminiatur	Gender	•
Connector Type (End B): Connector Type (End B): Securing Method Male Securing Method Maximum Current Maximum Voltage Insulation Resistance Connectors: Contact Material Overall Size (Approx) Cable Type: Conductor: Material Strands Resistance Strands Resistance Insulation Resistance Outer Sleeve Screened Construction Material Overall Size (Approx) Resistance Insulation PFA Outer Sleeve Screened Construction Male 50-Pin D-Subminiature Male Bensity and a half Male Screwlocks, male 2 A 300 VAC r.m.s 5000 MOhm Gold plated copper alloy Som Ohm Rear Wiff x W19 x D55 mm Individual wires, screened & sleeved Silver plated copper wire 19/0.16 (0.38 mm², 22AWG) 0.054 \(\Omega / \text{m} \) PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Cable O/D Minimum Bend Radius 35 mm		
Density and a half Gender Securing Method Male Securing Method 4-40 UNC screwlocks, male Maximum Current Amaximum Voltage Insulation Resistance Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx) Cable Type: Conductor: Material Strands Strands Strands Nesistance Insulation PFA Outer Sleeve Screened Construction Additional Braided Sleeve Cable 0/D Minimum Bend Radius Density and a half Male Add UNC screwlocks, male 4-40 UNC screwlocks, male Add Insulation Four Subject Screened Copper alloy South Part Subject Subject Screened & sleeved Silver plated copper wire Silver plated copper wire O.054 Ω/m PFA Outer Sleeve Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Cable O/D Note Subject Subject Screened Connected to backshells) Additional Braided Sleeve Cable O/D Note Subject Subje		
Gender Male Securing Method 4-40 UNC screwlocks, male Maximum Current 2 A Maximum Voltage 300 VAC r.m.s Insulation Resistance 5000 MOhm Connectors: Gold plated copper alloy Contact Material Gold plated copper alloy Contact Resistance 30 mOhm Cable Exit Rear Overall Size (Approx) H71 x W19 x D55 mm Cable Type: Individual wires, screened & sleeved Conductor: Material Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω/m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm	Connector Type (End B):	
Securing Method 4-40 UNC screwlocks, male Maximum Current 2 A Maximum Voltage 300 VAC r.m.s Insulation Resistance 5000 M0hm Connectors: Gold plated copper alloy Contact Material Gold plated copper alloy Contact Resistance 30 m0hm Cable Exit Rear Overall Size (Approx) H71 x W19 x D55 mm Cable Type: Individual wires, screened & sleeved Conductor: Material Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω/m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm		,
Maximum Current 2 A Maximum Voltage 300 VAC r.m.s Insulation Resistance 5000 MOhm Connectors: Gold plated copper alloy Contact Material Gold plated copper alloy Contact Resistance 30 mOhm Cable Exit Rear Overall Size (Approx) H71 x W19 x D55 mm Cable Type: Individual wires, screened & sleeved Conductor: Material Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω/m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm	00	1 1010
Maximum Voltage 300 VAC r.m.s Insulation Resistance 5000 M0hm Connectors: Gold plated copper alloy Contact Material Gold plated copper alloy Contact Resistance 30 m0hm Cable Exit Rear Overall Size (Approx) H71 x W19 x D55 mm Cable Type: Individual wires, screened & sleeved Conductor: Material Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω/m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm	Securing Method	4-40 UNC screwlocks, male
Insulation Resistance Connectors: Contact Material Contact Resistance Cable Exit Overall Size (Approx) Cable Type: Conductor: Material Strands Resistance Outer Sleeve Insulation Cable Sleeve Codditional Braided Sleeve Cable O/D Minimum Bend Radius 5000 MOhm 5000 MOhm 6001 Mohm 6001 Pate Copper alloy 601 Pate Copper alloy 602 Pate Copper alloy 603 MOhm 600 MOhm 600 MOhm 600 Pate Copper alloy 601 Pate Copper alloy 601 Pate Copper alloy 602 Pate Copper alloy 603 Pate Copper alloy 603 Pate Copper alloy 603 Pate Copper alloy 604 Pate Copper alloy 605 Pate Copper alloy 605 Pate Copper alloy 605 Pate Copper alloy 605 Pate Copper alloy 606 Pate Copper alloy 607 Pate Copper alloy 607 Pate Copper alloy 607 Pate Copper alloy 608 Pate Copper alloy 608 Pate Copper alloy 608 Pate Copper alloy 609 Pat	Maximum Current	2 A
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Maximum Voltage	300 VAC r.m.s
Contact Material Gold plated copper alloy Contact Resistance 30 mOhm Cable Exit Rear Overall Size (Approx) H71 x W19 x D55 mm Cable Type: Individual wires, screened & sleeved Conductor: Material Silver plated copper wire Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω/m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Cable O/D 18 mm Minimum Bend Radius 35 mm	Insulation Resistance	5000 M0hm
Contact Resistance 30 mOhm Cable Exit Rear Overall Size (Approx) H71 x W19 x D55 mm Cable Type: Individual wires, screened & sleeved Conductor: Material Silver plated copper wire Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω/m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Cable O/D 18 mm Minimum Bend Radius 35 mm	Connectors:	
Cable Exit Rear Overall Size (Approx) H71 x W19 x D55 mm Cable Type: Individual wires, screened & sleeved Conductor: Material Silver plated copper wire Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω /m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Cable O/D 18 mm Minimum Bend Radius 35 mm	Contact Material	Gold plated copper alloy
Overall Size (Approx) H71 x W19 x D55 mm Cable Type: Individual wires, screened & sleeved Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω /m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Cable O/D 18 mm Minimum Bend Radius 35 mm	Contact Resistance	30 m0hm
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Cable Exit	Rear
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Overall Size (Approx)	H71 x W19 x D55 mm
Strands 19/0.16 (0.38 mm², 22AWG) Resistance 0.054 Ω/m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Cable 0/D 18 mm Minimum Bend Radius 35 mm	Cable Type:	Individual wires, screened & sleeved
Resistance 0.054 Ω/m Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm	Conductor: Material	Silver plated copper wire
Insulation PFA Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm	Strands	19/0.16 (0.38 mm², 22AWG)
Outer Sleeve Polyester Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm	Resistance	0.054 Ω/m
Screened Construction Yes (Cable screen connected to backshells) Additional Braided Sleeve Cable O/D Minimum Bend Radius Yes (Cable screen connected to backshells) Yes 18 mm 35 mm	Insulation	PFA
backshells) Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm	Outer Sleeve	Polyester
Additional Braided Sleeve Yes Cable O/D 18 mm Minimum Bend Radius 35 mm	Screened Construction	Yes (Cable screen connected to
Cable O/D 18 mm Minimum Bend Radius 35 mm		backshells)
Minimum Bend Radius 35 mm	Additional Braided Sleeve	Yes
	Cable O/D	18 mm
Door Closure Allowance 115 mm (see diagram)	Minimum Bend Radius	35 mm
	Door Closure Allowance	115 mm (see diagram)

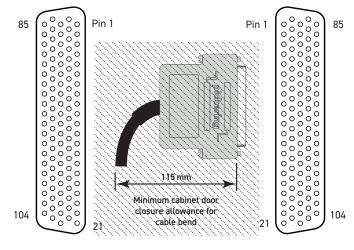


104-Pin D-Type Cable Assembly

Product Compatibility







End B - Male Mating Face

End A - Female Mating Face

Product Order Codes

 104-Pin D-Type Cable Assy, 2 A, Male to Female,

 0.5 m Long
 40-970-104-0.5m-MF

 1.0 m Long
 40-970-104-1m-MF

 2.0 m Long
 40-970-104-2m-MF

Note: Other cable lengths can be supplied. Max length 5 m.

Cable Assy - Female to Female

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

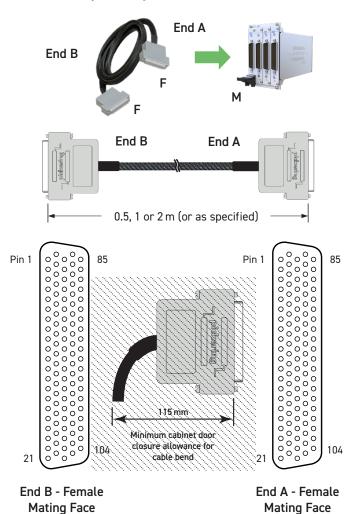
Technical Specification

Connector Type (End A):	104-Pin D-Subminiature,
Gender	Density and a half Female
00.100.	
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	104-Pin D-Subminiature
	Density and a half
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Maximum Current	2 A
Maximum Voltage	300 VAC r.m.s
Insulation Resistance	5000 M0hm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	30 m0hm
Cable Exit	Rear
Overall Size (Approx)	H71 x W19 x D55 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	19/0.16 (0.38 mm², 22AWG)
Resistance	0.054 Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to
	backshells)
Additional Braided Sleeve	Yes
Cable O/D	18 mm
Minimum Bend Radius	35 mm
Door Closure Allowance	115 mm (see diagram)



104-Pin D-Type Cable Assembly

Product Compatibility



Product Order Codes

104-Pin D-Type Cable Assy, 2 A, Female to Female,		
0.5 m Long	40-970-104-0.5m-FF	
1.0 m Long	40-970-104-1m-FF	
2.0 m Long	40-970-104-2m-FF	

Note: Other cable lengths can be supplied. Max length 5 m.

Cable Assy - Female to Unterminated

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

104-Pin D-Type Unterminated Cable Assembly

Technical Specification

Additional Braided Sleeve

Minimum Bend Radius

Door Closure Allowance

Cable O/D

Connector Type (End A):	104-Pin D-Subminiature,
	Density and a half
Gender	Female
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130 mm nominal
Individual Wire Labelling	To connector pins. A white/black
	screen pigtail is also included
Wire End Options	Ferrules, Tinned, Cut End
Maximum Current	2 A
Maximum Voltage	300 VAC r.m.s
Insulation Resistance	5000 MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	30 m0hm
Cable Exit	Rear
Overall Size (Approx)	H71 x W19 x D55 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	19/0.16 (0.38 mm², 22AWG)
Resistance	0.054 Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to backshell)

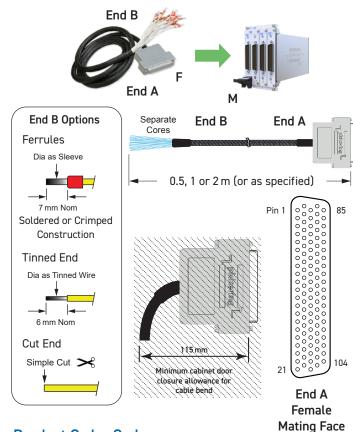
Note: When using this product please ensure appropriate electrical safety.

18 mm

35 mm

115 mm (see diagram)

Product Compatibility



Product Order Codes

104-Pin D-Type Cable Assy, 2 A, Female to Unterminated,		
Ferrules, 0.5 m Long	40-972-104-0.5m-FU	
Ferrules, 1.0 m Long	40-972-104-1m-FU	
Ferrules, 2.0 m Long	40-972-104-2m-FU	
Tinned End, 0.5 m Long	A104HFR-T-0A050	
Tinned End, 1.0 m Long	A104HFR-T-0A100	
Tinned End, 2.0 m Long	A104HFR-T-0A200	
Cut End, 0.5 m Long	A104HFR-C-0A050	
Cut End, 1.0 m Long	A104HFR-C-0A100	
Cut End, 2.0 m Long	A104HFR-C-0A200	
Note: Other cable lengths can be supplied. Max length 5 m.		

C

Cable Connector - Female

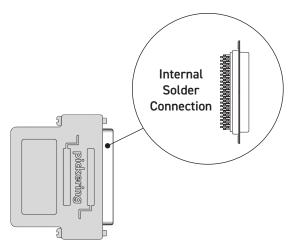
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

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

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

- постанова оргонизации	
Connector Type:	104-Pin D-Subminiature,
	Density and a half
Gender	Female
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket. A backshell fixing is
	also provided for a cable screen
Connector Ratings:	
Maximum Current	5 A
Maximum Voltage	300 V r.m.s
Cable Exit:	Rear
Cable Exit Size	41 x 15.5 mm
Overall Size (Approx)	H71 x W19 x D 55 mm
104-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	30 mOhm
Wire Connection:	
Maximum Wire Size	22AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)

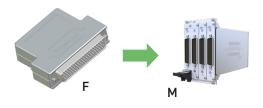


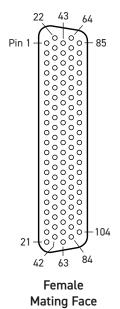
Solder Buckets



104-Pin D-Type Cable Connector with Backshell

Product Compatibility





Product Order Codes

104-Pin D-Type Connector, 5 A, Solder Bucket,

With Backshell, Female C104DFR-2SB-1A Without Backshell, Female C104DFX-2SB-1A

PCB Connector, Right Angle - Female

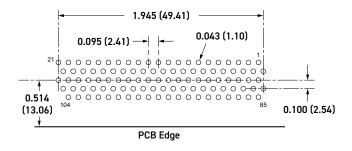
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

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 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:	104-Pin D-Subminiature, Density and a half
Gender	Female
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	5 A
Maximum Voltage	300 VAC
50-Pin D-Sub:	
Contact Material	Gold flash on brass
Contact Resistance	30 m0hm max
PCB Legs:	
Effective Leg Length	4 mm nom (See diagram)

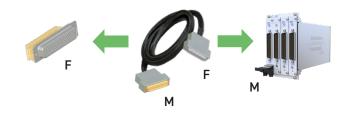


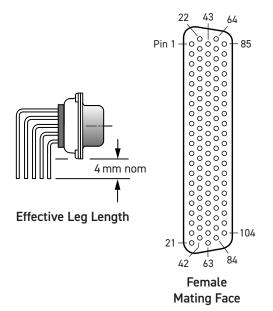
PCB Footprint of 104-Pin Right Angle Female Connector (Connector Side - Not to Scale)



104-Pin D-Type PCB Connector

Product Compatibility





Product Order Codes

104-Pin D-Type Connector, 5 A, Right Angle PCB Mount, Female 40-963-104-RF

PCB Connector, Right Angle - Male

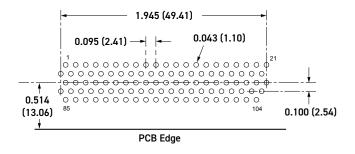
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

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 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: Gender	104-Pin D-Subminiature, Density and a half Male
Securing Method	4-40 UNC screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	5 A
Maximum Voltage 104-Pin D-Sub:	300 VAC
Contact Material	Gold flash on brass
Contact Resistance PCB Legs:	30 m0hm max
Effective Leg Length	4 mm nom (See diagram)

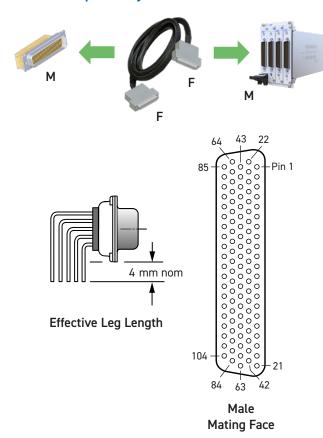


PCB Footprint of 104-Pin Right Angle Male Connector (Connector Side - Not to Scale)



104-Pin D-Type PCB Connector

Product Compatibility



Product Order Codes

104-Pin D-Type Connector, 5 A, Right Angle PCB Mount, Male 40-963-104-RM

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.

Cable Assy - Male to Male

- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 45° Cable Exit

Technical Specification

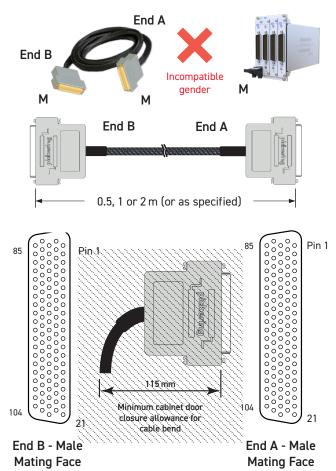
Connector Type (End A):	104-Pin D-Subminiature,
	Density and a half
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Connector Type (End B):	104-Pin D-Subminiature
	Density and a half
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Maximum Current	2 A
Maximum Voltage	300 VAC r.m.s
Insulation Resistance	5000 M0hm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	30 m0hm
Cable Exit	Rear
Overall Size (Approx)	H71 x W19 x D55 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	19/0.16 (0.38 mm², 22AWG)
Resistance	0.054 Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to
	backshells)
Additional Braided Sleeve	Yes
Cable O/D	18 mm
Minimum Bend Radius	35 mm
Door Closure Allowance	115 mm (see diagram)

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



104-Pin D-Type Cable Assembly

Product Compatibility



Product Order Codes

 104-Pin D-Type Cable Assy, 2 A, Male to Female,

 0.5 m Long
 40-970-104-0.5m-MM

 1.0 m Long
 40-970-104-1m-MM

 2.0 m Long
 40-970-104-2m-MM

Note: 1. The Male gender Will Not Mate with a Pickering Module.
2. Other cable lengths can be supplied. Max length 5 m.

Cable Assy - Male to Unterminated

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

Technical Specification

Connector Type (End A):	104-Pin D-Subminiature,
O. a. da .	Density and a half
Gender	Male
Securing Method	4-40 UNC screwlocks, male
Unterminated End (End B):	
Free Wire Length	130 mm nominal
Individual Wire Labelling	To connector pins. A white/black
	screen pigtail is included
Wire End Options	Ferrules, Tinned, Cut End
Maximum Current	2 A
Maximum Voltage	300 VAC r.m.s
Insulation Resistance	5000 MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	30 m0hm
Cable Exit	Rear
Overall Size (Approx)	H71 x W19 x D55 mm
Cable Type:	Individual wires, screened & sleeved
Conductor: Material	Silver plated copper wire
Strands	19/0.16 (0.38 mm², 22AWG)
Resistance	0.054 Ω/m
Insulation	PFA
Outer Sleeve	Polyester
Screened Construction	Yes (Cable screen connected to
	backshell)
Additional Braided Sleeve	Yes
Cable O/D	18 mm
Minimum Bend Radius	35 mm
Door Closure Allowance	115 mm (see diagram)

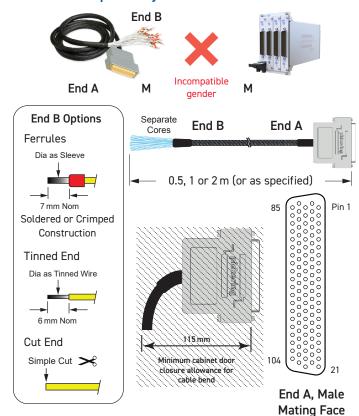
Note: When using this product please ensure appropriate electrical safety.

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



104-Pin D-Type Unterminated Cable Assembly

Product Compatibility



Product Order Codes

104-Pin D-Type Cable Assy, 2 A, Male to Unterminated,		
Ferrules, 0.5 m Long	40-972-104-0.5m-MU	
Ferrules, 1.0 m Long	40-972-104-1m-MU	
Ferrules, 2.0 m Long	40-972-104-2m-MU	
Tinned End, 0.5 m Long	A104HMR-T-0A050	
Tinned End, 1.0 m Long	A104HMR-T-0A100	
Tinned End, 2.0 m Long	A104HMR-T-0A200	
Cut End, 0.5 m Long	A104HMR-C-0A050	
Cut End, 1.0 m Long	A104HMR-C-0A100	
Cut End, 2.0 m Long	A104HMR-C-0A200	

Note: 1. The Male gender Will Not Mate with a Pickering Module.

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2. Other cable lengths can be supplied. Max length 5 m.

Cable Connector - Male

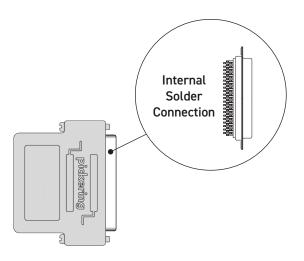
- Connector only or Connector and Backshell
- Cable Clamp in Backshell
- Soldered Cable Termination

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

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.

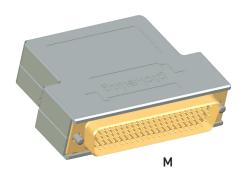
Technical Specification

Connector Type:	104-Pin D-Subminiature,
	Density and a half
Gender	Male
Securing Method:	
Product with Backshell	4-40 UNC screwlocks, male
Product without Backshell	4-40 UNC screwlocks, male
Wire Connection	Solder bucket. A backshell fixing is also provided for a cable screen
Connector Ratings:	
Maximum Current	5 A
Maximum Voltage	300 V r.m.s
Cable Exit:	Rear
Cable Exit Size	41 x 15.5 mm
Overall Size (Approx)	H71 x W19 x D55 mm
104-Pin D-Sub:	
Contact Material	Gold plated copper alloy
Contact Resistance	30 m0hm
Wire Connection:	
Maximum Wire Size	22 AWG
Recommended Insulation	PFA
Additional Cable Clamp	Yes (in backshell)



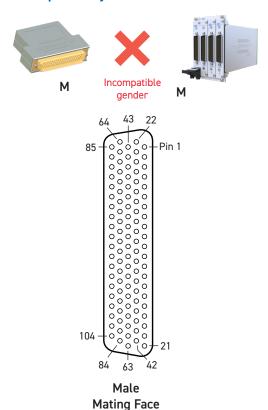
Solder Buckets

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



104-Pin D-Type Cable Connector with Backshell

Product Compatibility



Product Order Codes

104-Pin D-Type Connector, 5 A, Solder Bucket,

With Backshell, Male 40-960-104-M Without Backshell, Male 92-960-104-M

Note: The Male gender Will Not Mate with a Pickering Module.

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.

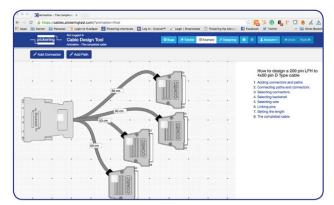
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.

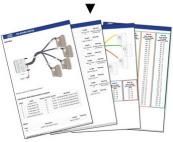


Pickering's Cable Design Tool

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