

96-Pin 1.27 mm Pitch Micro-D Accessories (SCSI) 90-016D

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



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, connector blocks 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.

Connector Blocks

Connector Blocks convert the 96-pin 1.27 mm Pitch Micro-D connections to an array of screw terminals. The customer can then interface to other devices using his own wiring.



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



Examples of Pickering PXI and BRIC Products using 96-Pin 1.27 mm Pitch Micro-D Connectors

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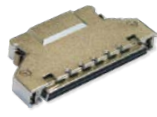
Cable Assemblies

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, 96-Pin 1.27 mm Pitch Micro-D, 1A	Female, Metal Spring Latch, Rear Cable Exit	Female, Metal Spring Latch, Rear Cable Exit	-	0.5 m 1 m 2 m	40-970C-096-0.5m-FF 40-970C-096-1m-FF 40-970C-096-2m-FF	5
	Cable Assy, 96-Pin 1.27 mm Pitch Micro-D to Underterminated, 1A	Female, Metal Spring Latch, Rear Cable Exit	NA	Ferrules	0.5 m 1 m 2 m	A096SFR-F-5B050 A096SFR-F-5B100 A096SFR-F-5B200	7
				Tinned End	0.5 m 1 m 2 m	A096SFR-T-5B050 A096SFR-T-5B100 A096SFR-T-5B200	
				Cut End	0.5 m 1 m 2 m	40-972C-096-0.5m-FU 40-972C-096-1m-FU 40-972C-096-2m-FU	
	Cable Assy, 96-Pin 1.27 mm Pitch Micro-D to 100-Pin 1.27 mm Pitch Micro-D Adaptor Lead, 1A	Female, Metal Spring Latch, Rear Cable Exit	Male, 4-40 UNC Screwlocks (Male), Rear Cable Exit	-	0.5 m 1 m 2 m	40-973C-096-0.5m-FM 40-973C-096-1m-FM 40-973C-096-2m-FM	9
Note: Custom lengths by quotation							





Cable Assemblies 40-971-096-*m-FF, 40-971-096-*m-FM, 40-971A-096-*m-FF & 40-971A-096-*m-FM formerly in this data sheet may be available as custom products. Please contact cables@pickeringconnect.com for more information.

Please click on the page number to navigate to the data sheet page required. Return to this page via the [C](#) button.

Female Connector Blocks/Connectors

Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	Shielded Connector Block, 96-Pin 1.27 mm Pitch Micro-D, 1A, Screw Terminal.	Female, M2.5 Screwlocks (Male), Rear Cable Exit	With Backshell	40-965-096-F	11
			Without Backshell	92-965-096-F	
	Shielded Connector Block for BRIC Modules, 96-Pin 1.27 mm Pitch Micro-D, 1A, Screw Terminal.	Female, M2.5 Screwlocks (Male), Rear Cable Exit	With Backshell	44-965-096-F	12
	Cable Connector, 96-Pin 1.27 mm Pitch Micro-D, 1A, IDC for Ribbon Cable.	Female, Metal Spring Latch, Rear Cable Exit	With Backshell	40-961-096-F	13
	Cable Connector, 96-Pin 1.27 mm Pitch Micro-D, 1A, IDC for Discrete Wire			40-962-096-F	14



Male Connector Blocks/Connectors

Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	Shielded Connector Block, 96-Pin 1.27 mm Pitch Micro-D, 1A, Screw Terminal.	Male, M2.5 Screwlocks (Male), Rear Cable Exit	With Backshell	40-965-096-M	15
			Without Backshell	92-965-096-M	
	Shielded Connector Block, DIN Rail Mount, 96-Pin 1.27 mm Pitch Micro-D, 1A, Screw Terminal.	Male, Latch Clip, Rear Cable Exit	With Backshell	40-966-096-M	16
	PCB Connector, 96-Pin 1.27 mm Pitch Micro-D, 1A	Male, M2.5 Screwlocks and Latch Clip	Right Angle PCB Mount	40-963-096-RM	17
		Male, Latch Clip	Straight PCB Mount	40-963-096-SM	19

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.

Connector Blocks/Connectors

Description		Gender & Cable Exit	Type	Product Order Code and Part Number	Page
	PCB Connector, 96-Pin 1.27 mm Pitch Micro-D, 1A	Female, Push Fit	Right Angle PCB Mount	40-963-096-RF	22
		Female, Push Fit	Straight PCB Mount	40-963-096-SF	23

Appendix

Details of recent part number changes.....	24
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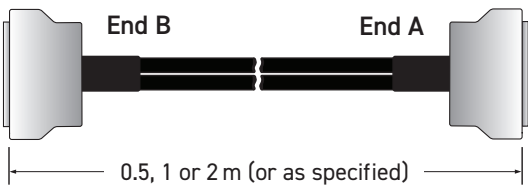
Custom Termination

Customization Possibilities	26
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- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Metal Spring Latches

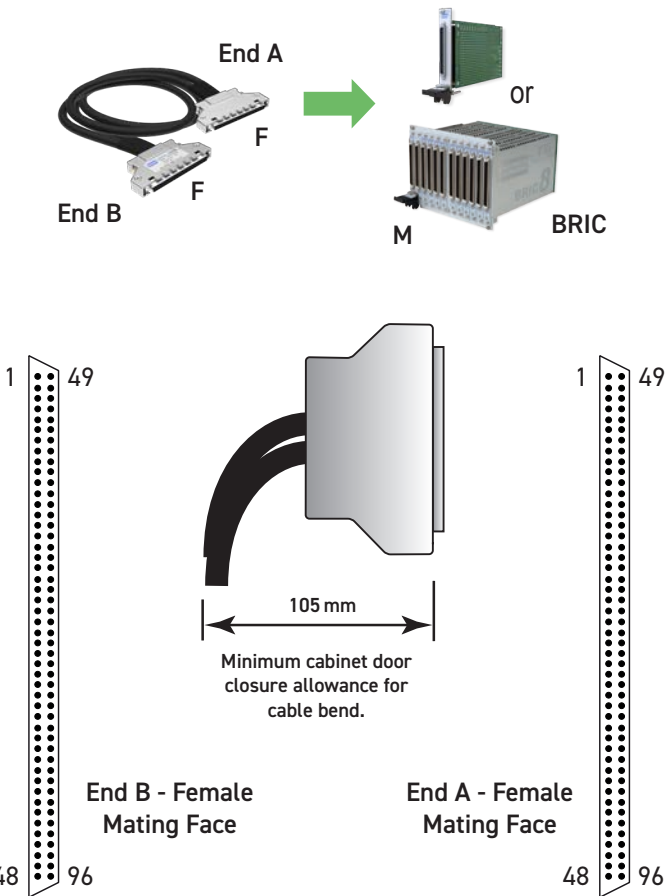
Technical Specification

Connector Type (End A):	96-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Connector Type (End B):	96-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Maximum Current	1A
Maximum Voltage	150 V
Insulation Resistance	Cable 1x10 ¹⁰ Ohm/3 m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Cable Exit	Rear
Overall Size (Approx)	H78 x W12 x D40 mm
Cable Type:	2 off identified x 50-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG, 0.38 mm O/D)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual shielded Cable screens connected to backshells
Additional Braided Sleeve	No
Cable O/D	8.1 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	105 mm (see diagram)



96-Pin Micro-D Cable Assy - Female to Female

Product Compatibility



Note: Wiring Schedule information can be found on the following page.

Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Cable Assy, 1A,	
Female to Female, 0.5 m Long	40-970C-096-0.5m-FF
Female to Female, 1.0 m Long	40-970C-096-1m-FF
Female to Female, 2.0 m Long	40-970C-096-2m-FF

Note: Please ensure the correct connector gender is ordered for the application. Other cable lengths can be supplied.

96-Pin 1.27 mm Pitch Micro-D Cable Assy - Female to Female (40-970C-096-*m-FF)

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

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96-Pin 1.27 mm Pitch Female Connector (Mating Face)

96-Pin 1.27 mm Pitch Female Connector (Mating Face)

Note. The cable screens are connected to the connector backshells

- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Metal Spring Latches
- Wires Color Coded to Ensure Easy Connection

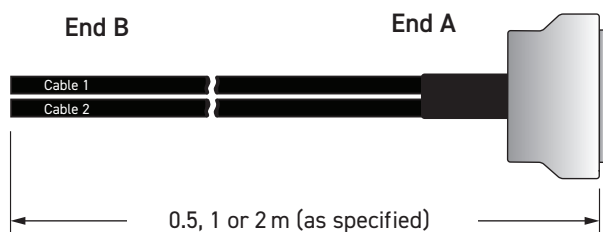


96-Pin Micro-D Cable Assy - Female to Underterminated

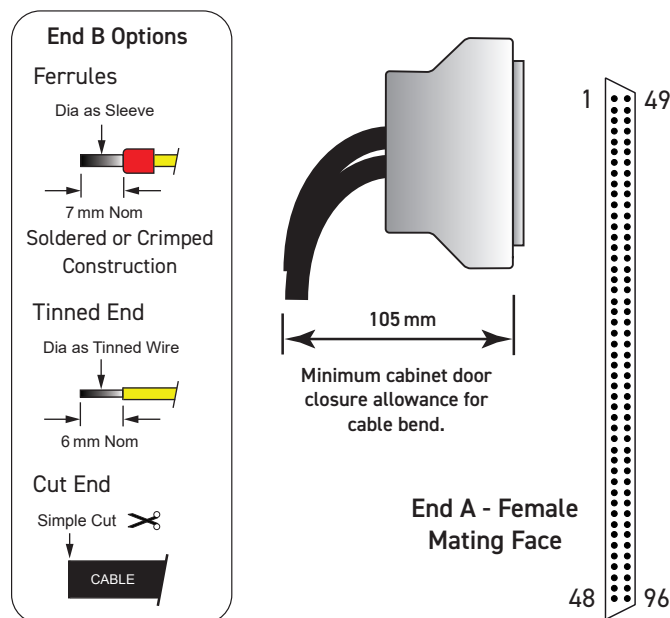
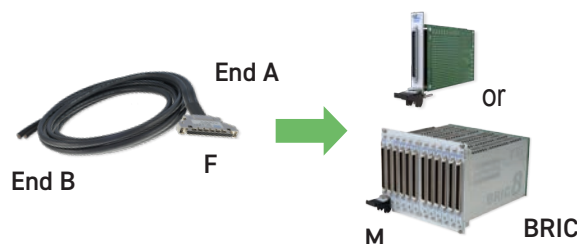
Technical Specification

Connector Type (End A):	96-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Underterminated End (End B):	
Wire End Options	Ferrules, Tinned, Cut End
Free Wire Length	130 mm nominal (Not Cut End)
Individual Wire Labelling	To connector pins. White/black screen pigtailed are included for Ferrule/Tinned versions
Maximum Current	1A
Maximum Voltage	150 V
Insulation Resistance	Cable 1×10^{10} Ohm/3 m
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Cable Exit	Rear
Overall Size (Approx)	H78 x W12 x D40 mm
Cable Type:	2 off identified x 50-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG, 0.38 mm O/D)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual shielded
	Cable screens connected to backshells
Additional Braided Sleeve	No
Cable O/D	8.1 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	105 mm (see diagram)

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



Product Compatibility



Note: Wiring Schedule information can be found on the following page.

Product Order Codes

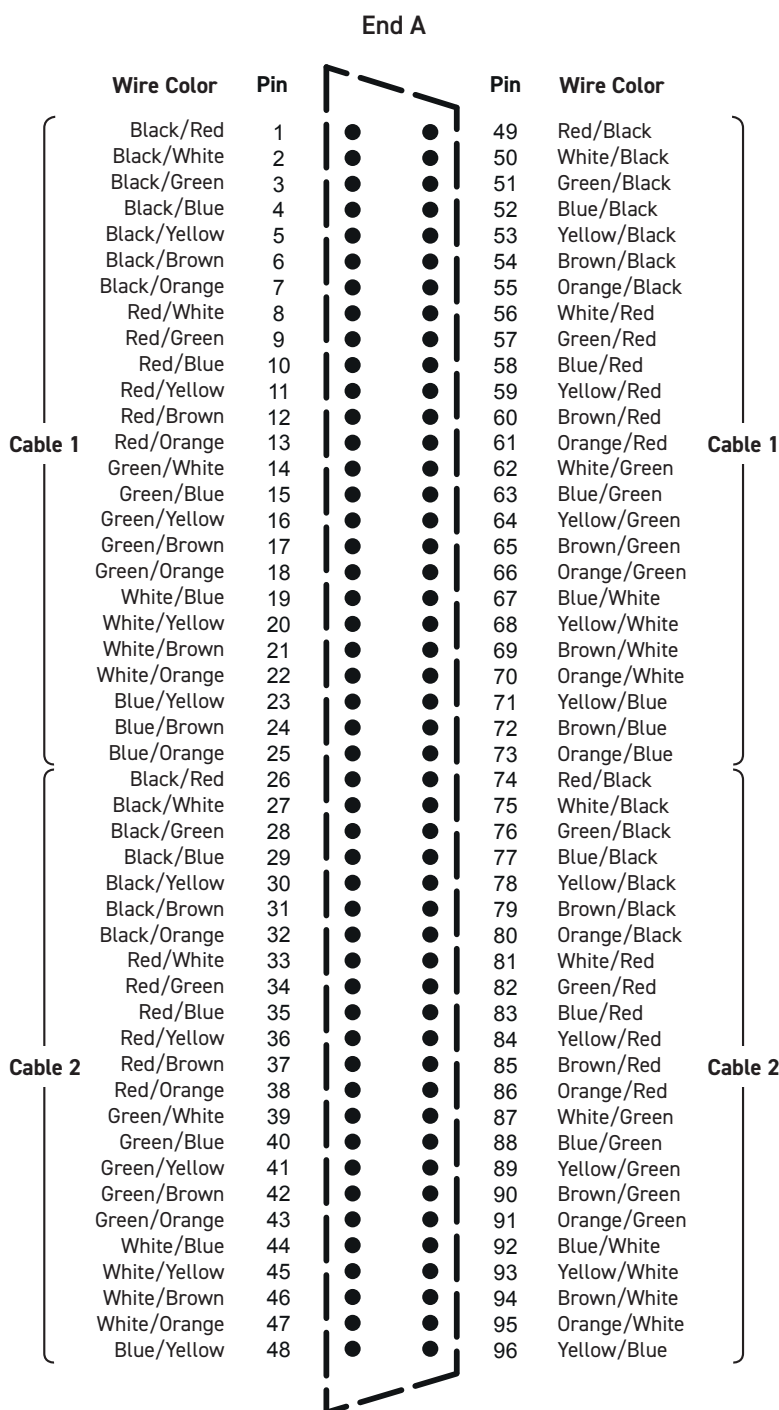
96-Pin 1.27 mm Pitch Micro-D Cable Assy, 1A, Metal Latch,
 Fem to Uterm, Cut End, 0.5 m Lg [40-972C-096-0.5m-FU](#)
 Fem to Uterm, Cut End, 1.0 m Lg [40-972C-096-1m-FU](#)
 Fem to Uterm, Cut End, 2.0 m Lg [40-972C-096-2m-FU](#)

Part numbers for other versions:

End B:	A096SFR-*5B***	Cable Length:
F = Ferrules		050 = 0.5 m
T = Tinned End		100 = 1.0 m
		200 = 2.0 m

Note: Other cable lengths can be supplied.

96-Pin 1.27 mm Pitch Micro-D Cable Assy - Female to Unterminated (40-972C-096-*m-FU & A096SFR-*-5B***)



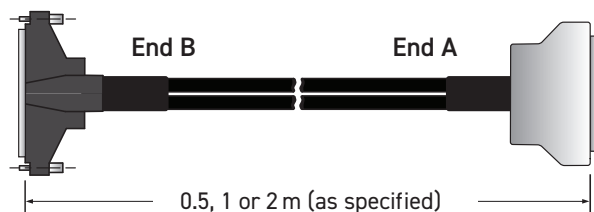
96-Pin 1.27 mm Pitch Female Connector (Mating Face)

- Note**
1. The cable screens are connected to the connector backshells at End A
 2. White/black insulated screen pigtailed are included at the Unterminated End for Ferrule/Tinned versions
 3. The Blue/Brown, Blue/Orange, Brown/Blue & Orange/Blue wires from Cable 2 are not connected to the 96-Pin connector. Please do not use them at the Unterminated end.

- 96-Pin to 100-Pin Adaptor Lead
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Metal Spring Latches

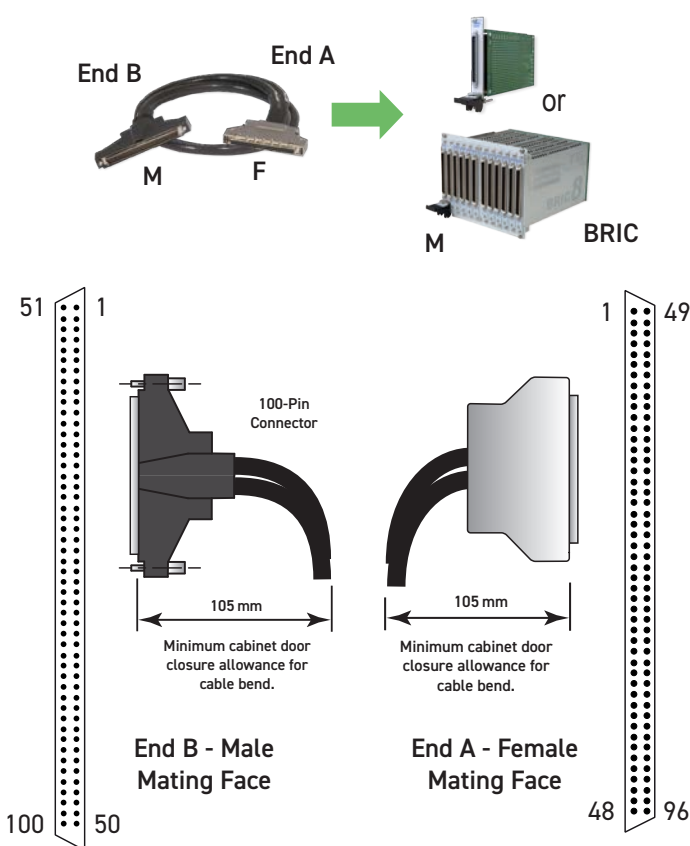
Technical Specification

Connector Type (End A):	96-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Overall Size (Approx)	H78 x W12 x D40 mm
Connector Type (End B):	100-Pin 1.27 mm Pitch Micro-D
Gender	Male
Securing Method	4-40 UNC Screwlocks, male
Overall Size (Approx)	H85 x W16.5 x D53 mm
Maximum Current	1A
Maximum Voltage	150 V
Insulation Resistance	Cable 1×10^{10} Ohm/3 m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Cable Exit	Rear
Cable Type:	2 off identified x 50-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG, 0.38 mm O/D)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual shielded
	Cable screens connected to backshells
Additional Braided Sleeve	No
Cable O/D	8.1 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	105 mm (see diagram)



96-Pin Micro-D to 100-Pin Micro-D Adaptor Lead

Product Compatibility



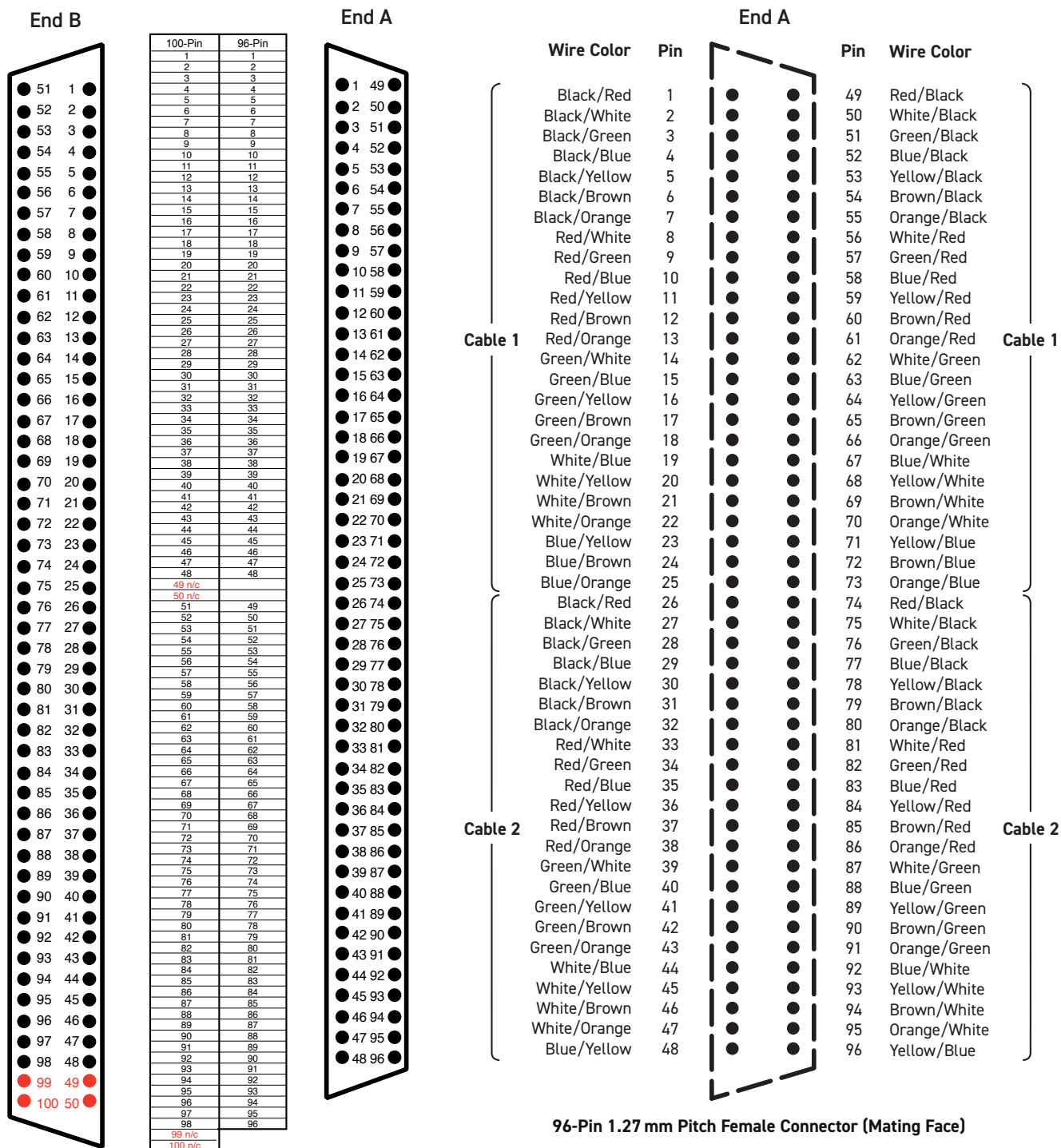
Note: Wiring Schedule information can be found on the following page.

Product Order Codes

96-Pin 1.27 mm Pitch Micro-D to 100-Pin 1.27 mm Pitch Micro-D Adaptor Lead, 1A, Female to Male,
 0.5 m Long [40-973C-096-0.5m-FM](#)
 1.0 m Long [40-973C-096-1m-FM](#)
 2.0 m Long [40-973C-096-2m-FM](#)

Note: Please ensure the correct connector gender is ordered for the application. Other cable lengths can be supplied.

96-Pin 1.27 mm Pitch Micro-D (Female) to 100-Pin 1.27 mm Pitch Micro-D (Male) Adaptor Lead



100-Pin Male and 96-Pin Female Connectors
Showing Pin Linkage (Mating Faces Depicted)

- Note 1.** Pins 49, 50, 99, 100 are not connected on the 100-Pin connector
Note 2. The cable screens are connected to the 96-Pin and 100-Pin connectors

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

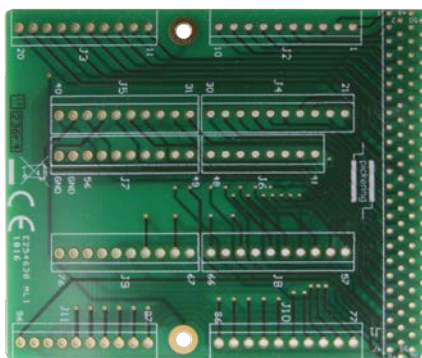
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

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.

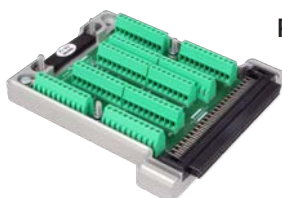
This connector block (with backshell) uses male screwlocks and will not mate to Pickering cables. When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

Technical Specification

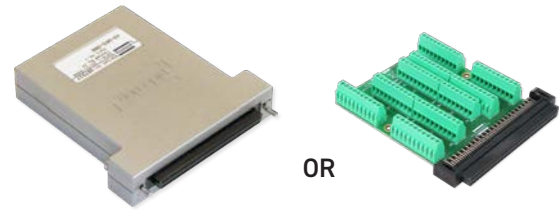
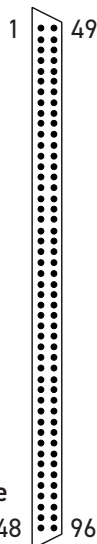
Connector Type:	96-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method:	
Product with Backshell	M2.5 screwlocks, male
Product without Backshell	Push fit
Wire Connection	Rising cage screw terminals. Screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200 V DC
Cable Exit	Rear - 10 x 30 mm
Overall Size (Approx)	H86 x W18 x D95 mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)



PCB Legend

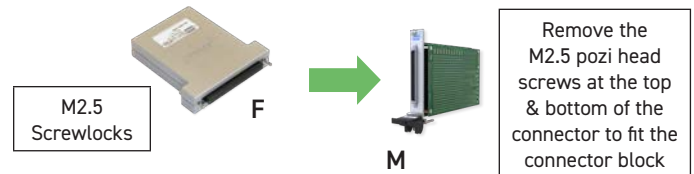


Female Mating Face

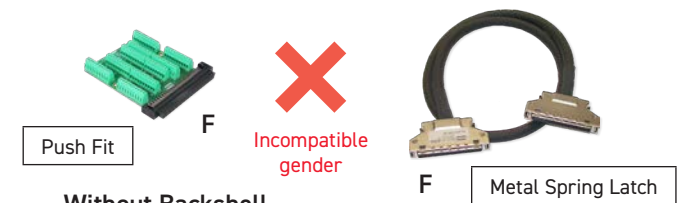
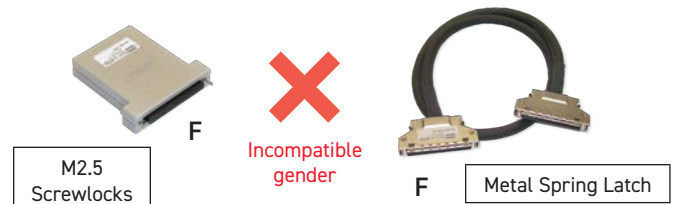
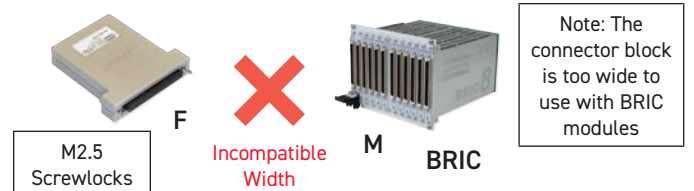


96-Pin Micro-D Connector Block

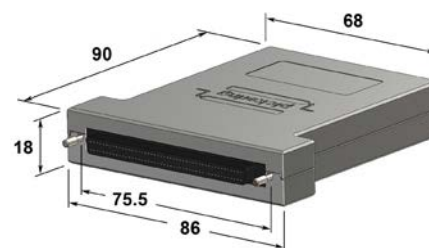
Product Compatibility



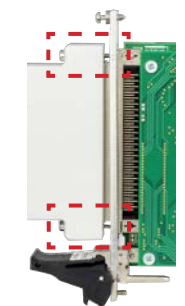
With Backshell



Without Backshell



Connector Block Dimensions



Securing the Connector Block

Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Shielded Connector Block, 1A,
With Backshell, Female [40-965-096-F](#)
Without Backshell, Female [92-965-096-F](#)

Please consider Connector Block 44-965-096 for BRIC requirements.

- Connector, PCB and Backshell
- For Use with BRIC Modules
- Easy to Use Rising Cage Screw Terminals

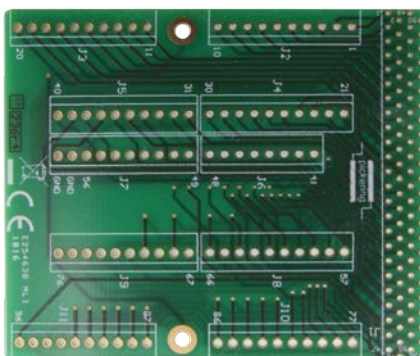
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

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.

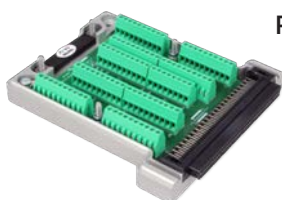
This connector block uses male screwlocks and will not mate to Pickering cables. If this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

Technical Specification

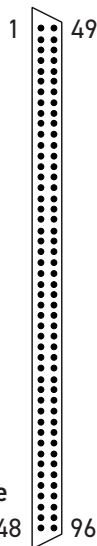
Connector Type:	96-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method:	
Product with Backshell	M2.5 screwlocks, male
Wire Connection	Rising cage screw terminals. Screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200 V DC
Cable Exit	Rear - 9.5 x 30 mm
Overall Size (Approx)	H86 x W12.3 x D95 mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)



PCB Legend

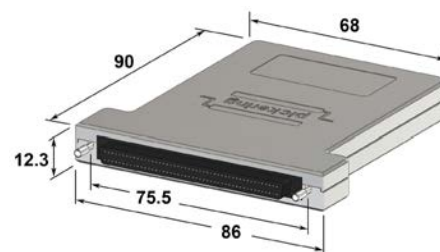
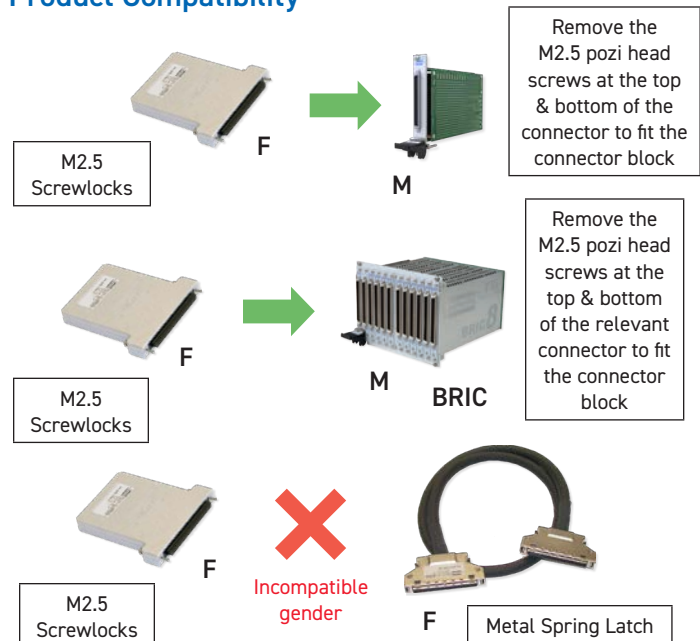


Female Mating Face

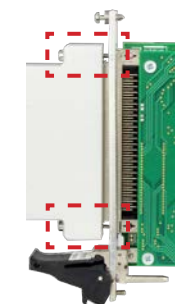


BRIC 96-Pin Micro-D Connector Block

Product Compatibility



Connector Block Dimensions



Securing the Connector Block

Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Shielded Connector Block for BRIC Modules, 1A, With Backshell, Female [44-965-096-F](https://www.pickeringtest.com/Products/96-Pin-1.27-mm-Pitch-Micro-D-Shielded-Connector-Block-for-BRIC-Modules-1A-With-Backshell-Female.aspx)

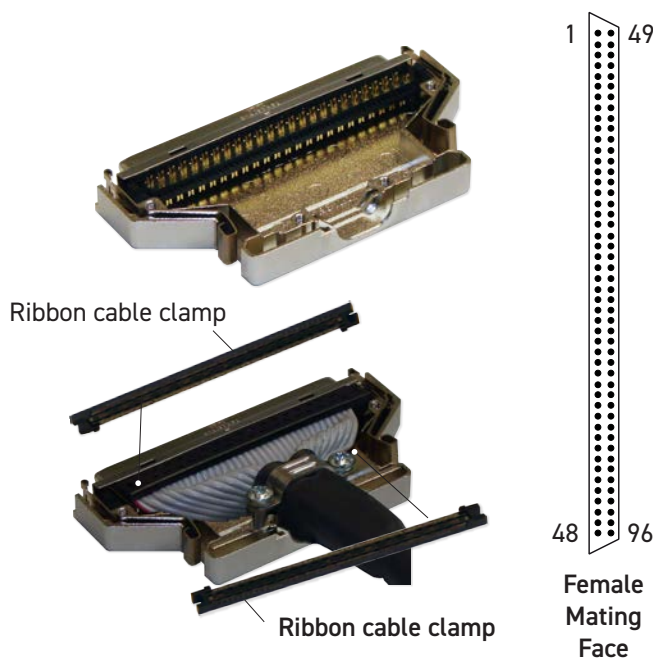
- Connector and Backshell
- Metal Spring Latches
- IDC for Ribbon Cable

This accessory is designed to allow users to directly terminate a ribbon cable to the connector.

It is difficult to terminate cable to the 96-Pin 1.27 mm Pitch Micro-D 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.

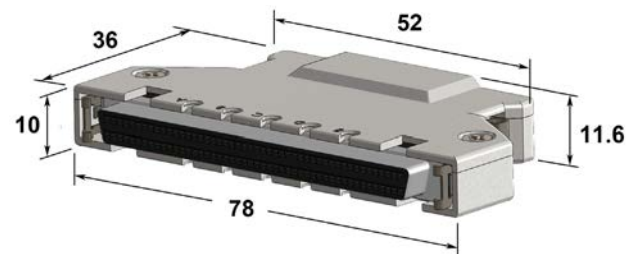
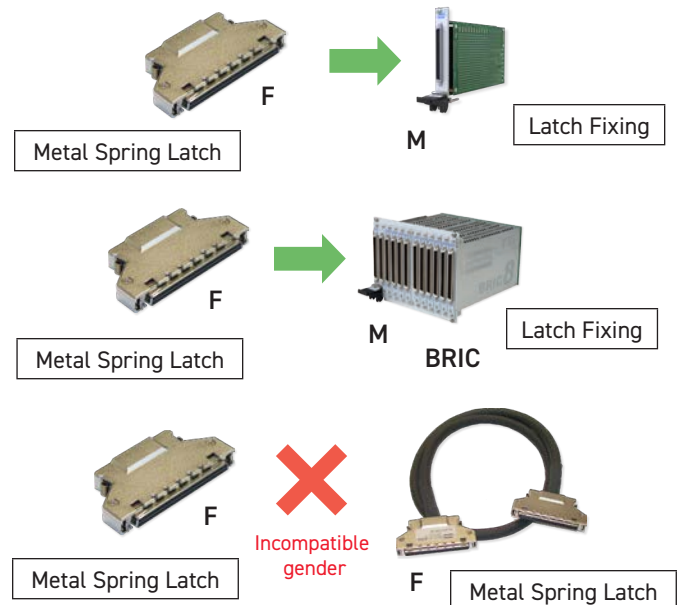
Technical Specification

Connector Type:	96-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC for ribbon cable
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250 V AC
Cable Exit	Rear - 13 x 7.5 mm
Overall Size (Approx)	H78 x W12 x D40 mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
IDC:	
Maximum Wire Size	28AWG
Recommended Insulation	Ribbon cable, multicore round & flat, 0.635 mm pitch
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for the cable screen



96-Pin Micro-D Connector

Product Compatibility



Connector Dimensions

Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable, With Backshell, Female [40-961-096-F](#)

Note: Please ensure the correct connector gender is ordered for the application.

- Connector and Backshell
- Metal Spring Latches
- IDC for Discrete Wires

This accessory is designed to allow users to directly terminate with IDC connections to the 96-Pin 1.27 mm Pitch Micro-D connector.

It is difficult to terminate cable to the 96-Pin 1.27 mm Pitch Micro-D 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.

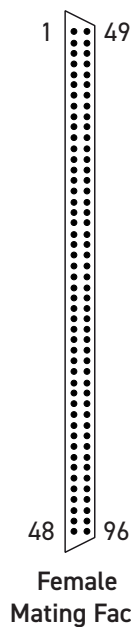
Technical Specification

Connector Type:	96-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC for discrete wire
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250 V AC
Cable Exit	Rear - 13 x 7.5 mm
Overall Size (Approx)	H78 x W12 x D40 mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
IDC:	
Maximum Wire Size	28AWG
Recommended Insulation	Multicore or single core
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for the cable screen

Cable Management Bars



Internal View

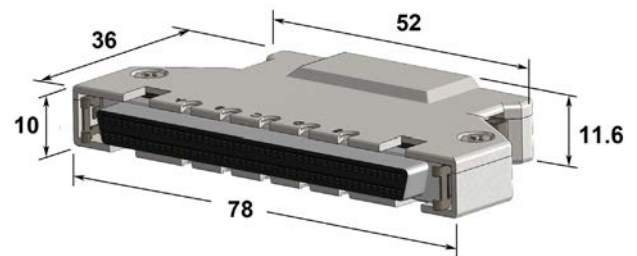
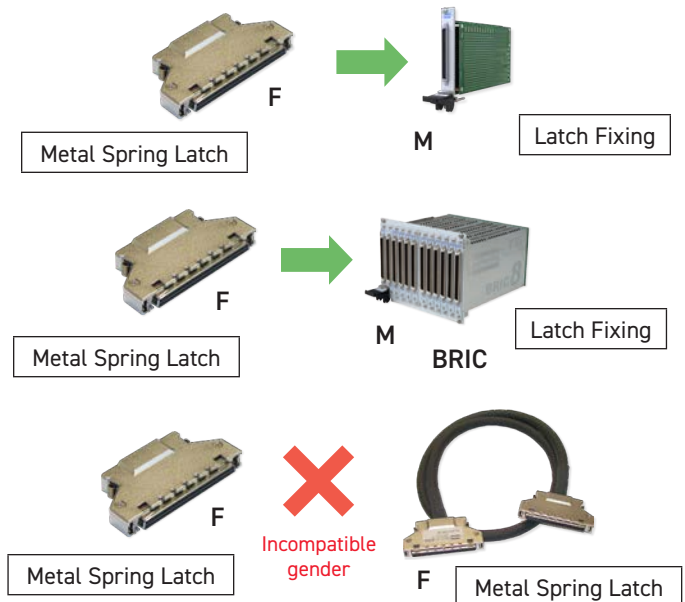


Female Mating Face



96-Pin Micro-D Connector

Product Compatibility



Connector Dimensions

Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire Cable (Multicore or Individual Single Cores, not Ribbon), With Backshell, Female [40-962-096-F](#)

Note: Please ensure the correct connector gender is ordered for the application.

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

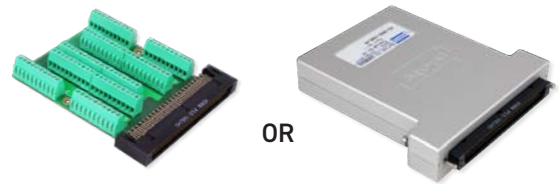
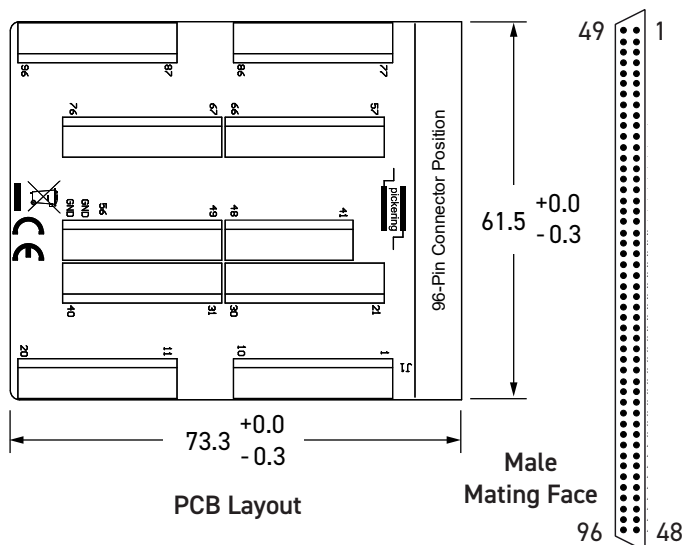
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

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.

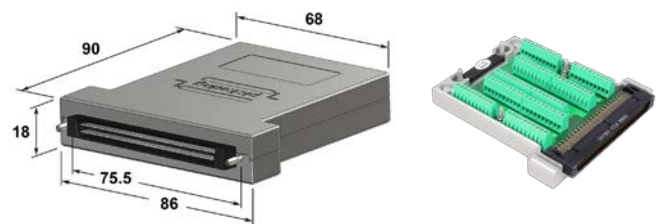
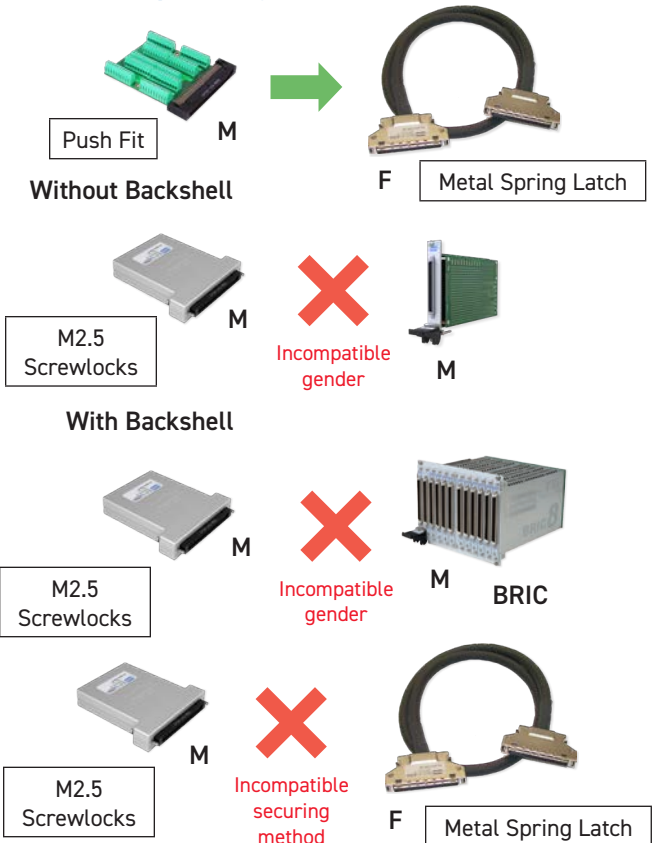
Technical Specification

Connector Type:	96-Pin 1.27 mm pitch Micro-D
Gender	Male
Securing Method:	
Product with Backshell	M2.5 screwlocks, male
Product without Backshell	Push fit
Wire Connection	Rising cage screw terminals
	Screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200 V DC
Cable Exit	Rear - 10 x 30 mm
Overall Size (Approx)	H86 x W18 x D95 mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)



96-Pin Micro-D Connector Block

Product Compatibility



Connector Block Dimensions

Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Shielded Connector Block, 1A, With Backshell, Male	40-965-096-M
Without Backshell, Male	92-965-096-M

Please consider Connector Block 44-965-096 for BRIC requirements.

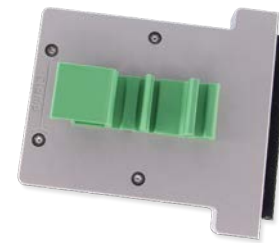
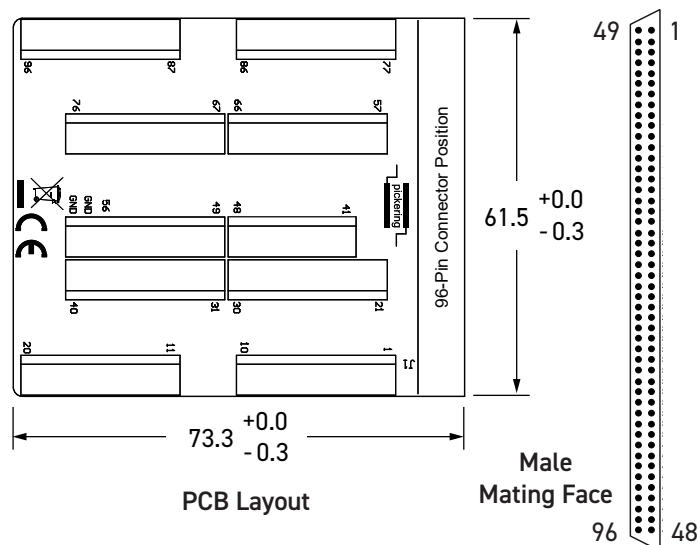
- For Connection at Cable End
- DIN Rail Mounted
- Easy to Use Rising Cage Screw Terminals

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 1.27 mm 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.

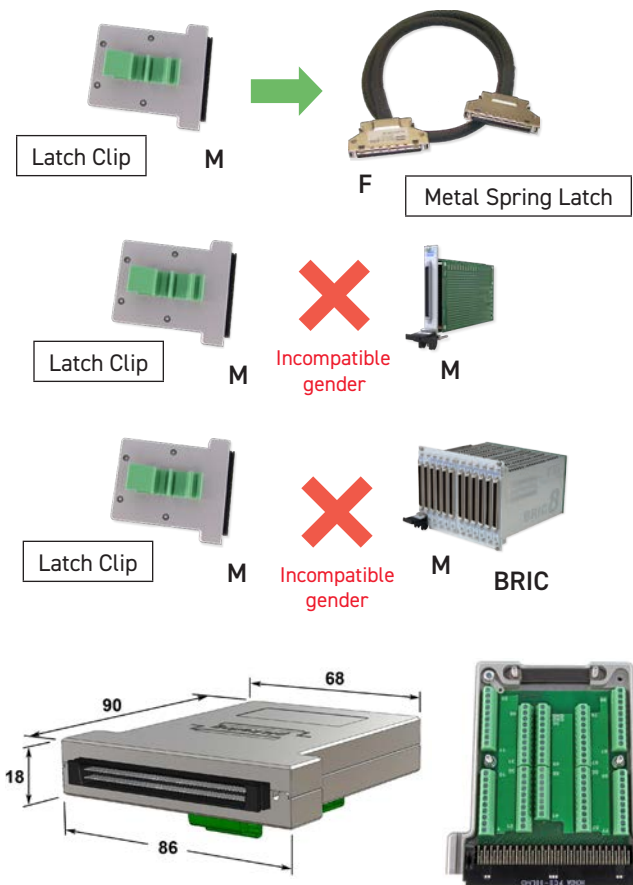
Technical Specification

Connector Type:	96-Pin 1.27 mm pitch Micro-D
Gender	Male
Securing Method	Latch clip
Wire Connection	Rising cage screw terminals Screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200 V DC
Cable Exit	Rear - 10 x 30 mm
Overall Size (Approx)	H86 x W18 x D95 mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)



96-Pin Micro-D Connector Block

Product Compatibility



Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, With Backshell, Male [40-966-096-M](#)

Note: Please ensure the correct connector gender is ordered for the application.

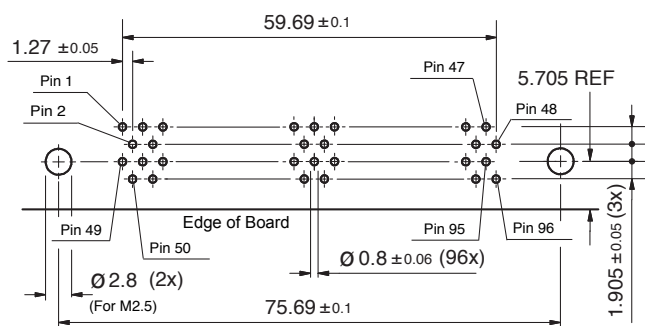
- Right Angle PCB Mount
- Latch Clip and M2.5 Screwlocks
- Ideal for User Created Termination Solutions

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 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.

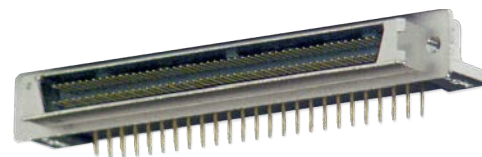
Technical Specification

Connector Type:	96-Pin 1.27 mm 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	250 V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 Ohm
PCB Legs:	
Leg Length	3.4 mm nom (See diagram)



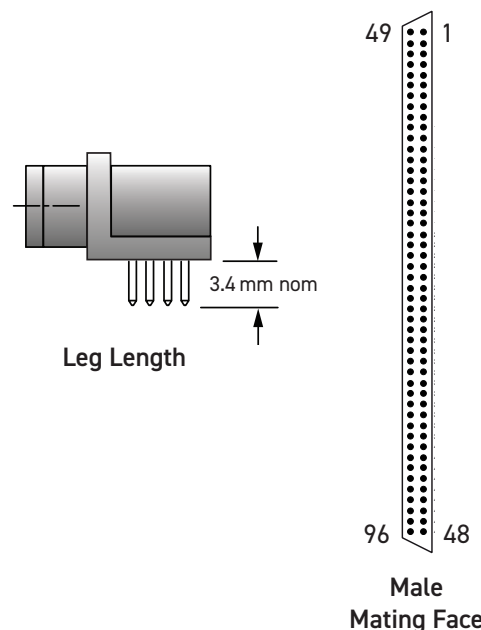
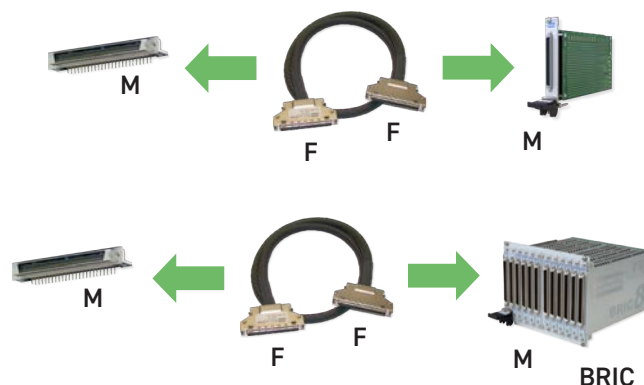
PCB Footprint of 96-Pin Right Angle Male Connector
(Connector Side - Not to Scale)

Note: Connector dimensional drawings can be found on the following page.



96-Pin Micro-D PCB Connector

Product Compatibility



Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount, Male [40-963-096-RM](https://www.pickeringtest.com/40-963-096-RM)

Note: Please ensure the correct connector gender is ordered for the application.

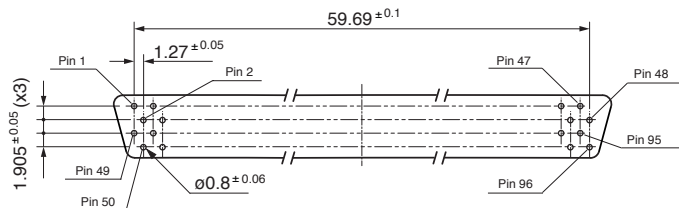
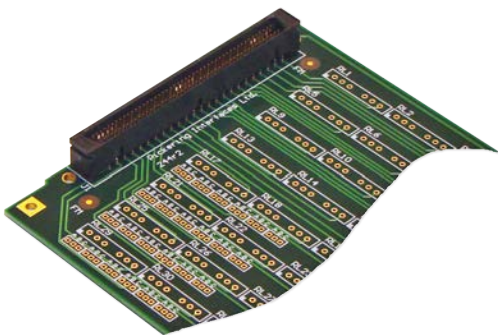
- Straight PCB Mount
- Ideal for User Created Termination Solutions

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:	96-Pin 1.27 mm pitch Micro-D
Gender	Male
Securing Method	Latch clip
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250 V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
PCB Legs:	
Leg Length	3.4 mm nom (See diagram)



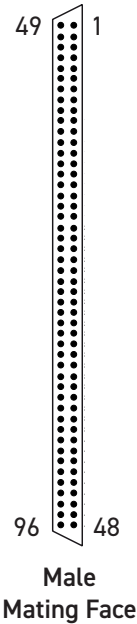
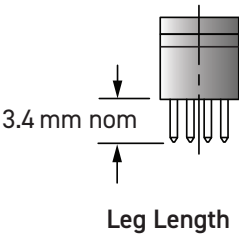
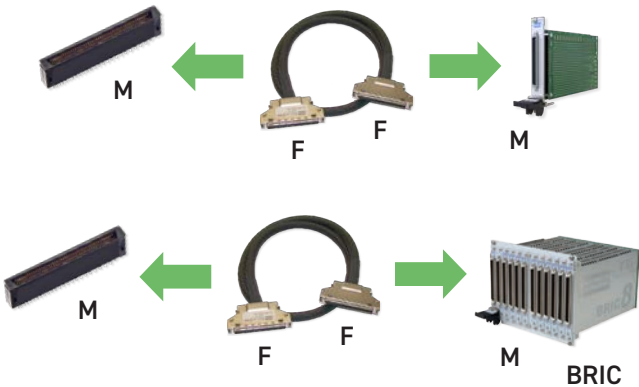
PCB Footprint of 96-Pin Straight Male Connector
(Connector Side - Not to Scale)

Note: Connector dimensional drawings can be found on the following page.



96-Pin Micro-D PCB Connector

Product Compatibility

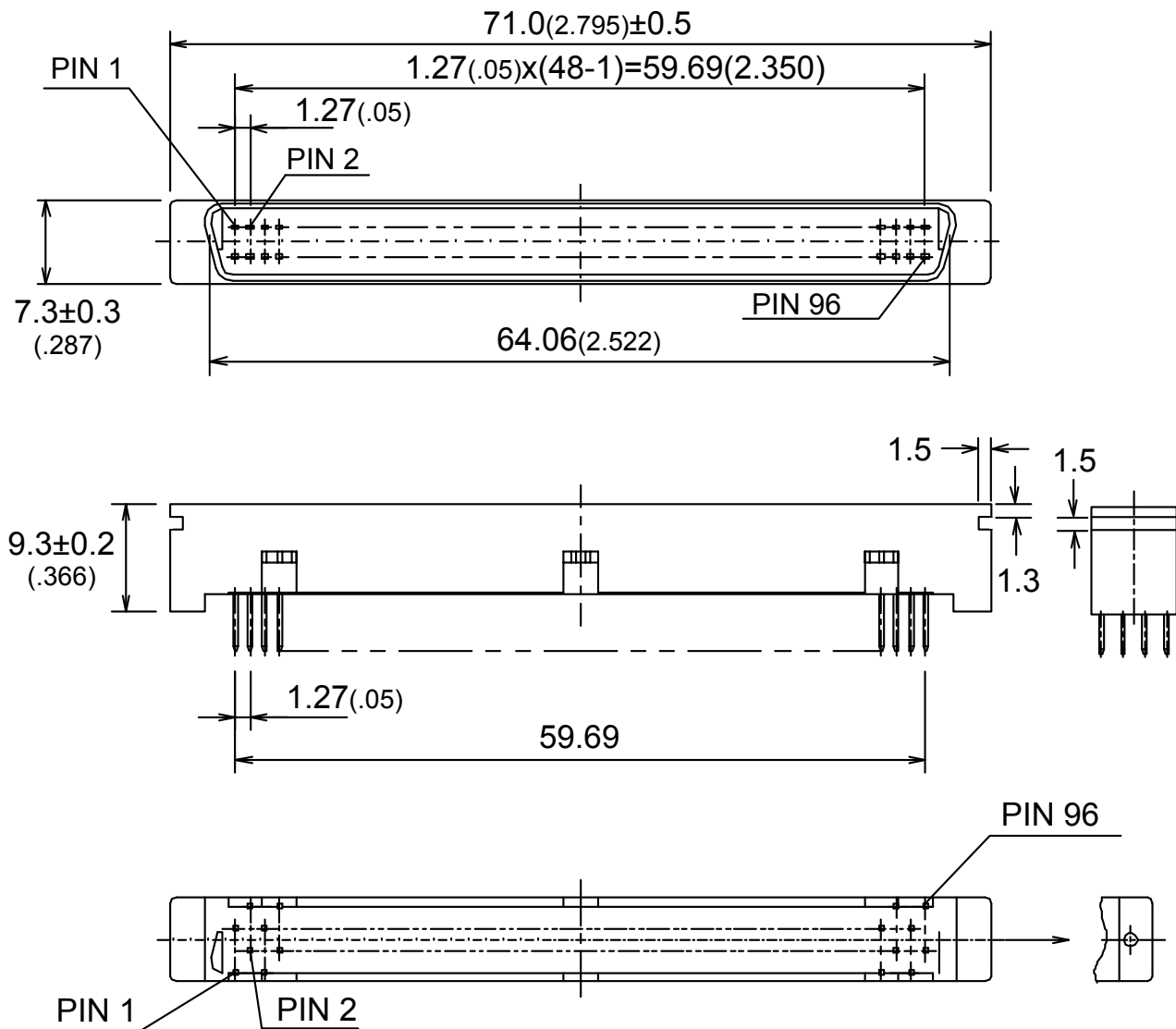


Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Connector, 1A, Straight PCB Mount, Male [40-963-096-SM](#)

Note: Please ensure the correct connector gender is ordered for the application.

Connector Dimensions



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.

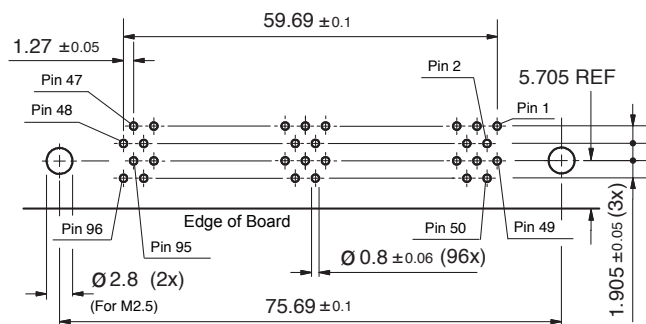
- Right Angle PCB Mount
- Ideal for User Created Termination Solutions

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.

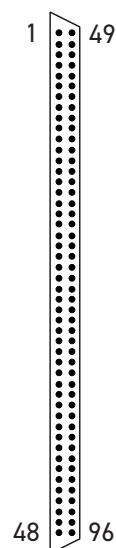
Technical Specification

Connector Type:	96-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	Push fit
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1 A each pin
Maximum Voltage	250 V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
PCB Legs:	
Leg Length	3.8 mm nom (See diagram)

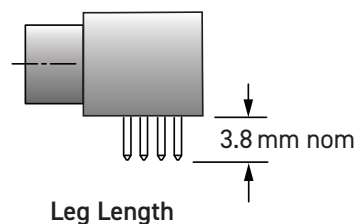


**PCB Footprint of 96-Pin Right Angle Female Connector
(Connector Side - Not to Scale)**

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



Female Mating Face



Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Connector, 1A, Right Angle
PCB Mount, Female [40-963-096-RF](#)

40-963-096-RF

Note: Please ensure the correct connector gender is ordered for the application.

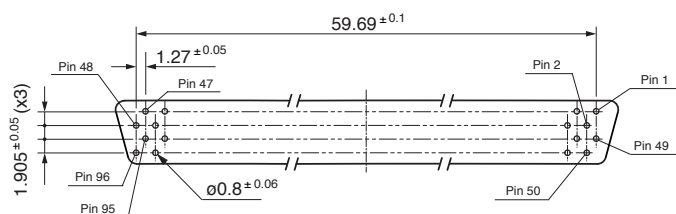
- Straight PCB Mount
- Ideal for User Created Termination Solutions

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.

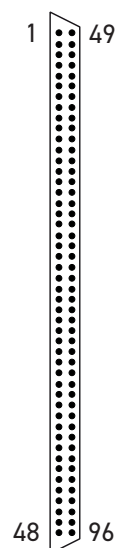
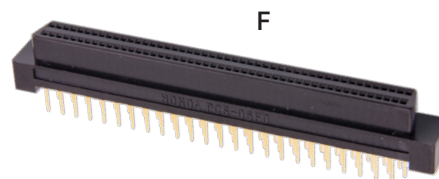
Technical Specification

Connector Type:	96-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	Push fit
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250 V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
PCB Legs:	
Leg Length	3.4 mm nom (See diagram)

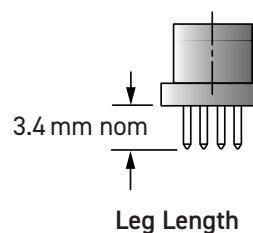


PCB Footprint of 96-Pin Straight Female Connector
(Connector Side - Not to Scale)

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



Female Mating Face



Leg Length

Product Order Codes

96-Pin 1.27 mm Pitch Micro-D Connector, 1A, Straight PCB Mount, Female [40-963-096-SF](#)

Note: Please ensure the correct connector gender is ordered for the application.




Appendix

This appendix gives details of recent part number changes.

ECN1758 Dated 11th August 2022, ECN1772 Dated 13th September 2022

These Change Notes covered changes to the multicore cable forming some of the cable assemblies. The cables now utilise two 50-Pin cables, with individual wires changing from 7/38 (30AWG) to 7/36 (28AWG), and a different color coding being used. The existing multicore cable had become obsolete.

Items that changed and the corresponding updated part numbers are detailed below:

Product changes in data sheet order		Data Sheet 90-016D Issue 10.3 Apr 2022	Data Sheet 90-016D Issue 11.0 Aug 2022	Data Sheet 90-016D Issue 11.1 Oct 2022
		Product Part Numbers	Product Part Numbers	Product Part Numbers
 Now using 2 x 50-Pin cables	Cable Assy, 96-Pin 1.27 mm Pitch Micro-D, Female to Female, 1A	40-970B-096-*m-FF	40-970C-096-*m-FF	40-970C-096-*m-FF
 Now using 2 x 50-Pin cables	Cable Assy, 96-Pin 1.27 mm Pitch Micro-D, Female to Unterminated, 1A	A096SFR-F-5A*** A096SFR-T-5A*** 40-972B-096-*m-FU	A096SFR-F-5B*** A096SFR-T-5B*** 40-972C-096-*m-FU	A096SFR-F-5B*** A096SFR-T-5B*** 40-972C-096-*m-FU
 Now using 2 x 50-Pin cables	Adaptor Lead, 96-Pin 1.27 mm Pitch Micro-D to 100-Pin 1.27 mm Pitch Micro-D Female to Male, 1A	40-973B-096-*m-FM	40-973C-096-*m-FM	40-973C-096-*m-FM

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.

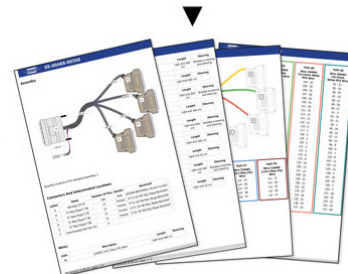
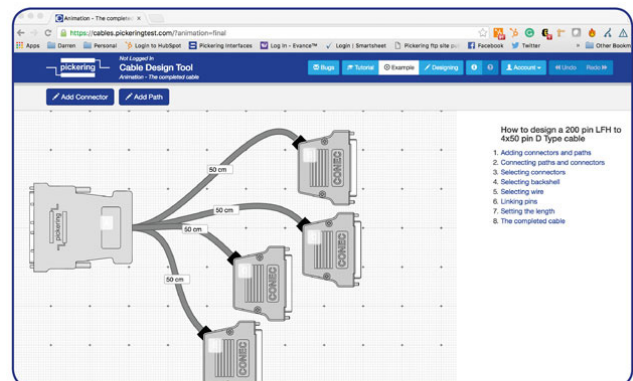
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.



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