68-Pin 1.27 mm Pitch Micro-D Accessories (SCSI) 90-015D

- 150 V, 1 A
- 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 68-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 68-Pin 1.27 mm Pitch Micro-D Connectors

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, 68-Pin 1.27 mm Pitch Micro-D, 1A	Male, Metal Spring Latch, Rear Cable Exit	Female, Metal Spring Latch, Rear Cable Exit	-	0.5 m 1 m 2 m	40-970A-068-0.5m-MF 40-970A-068-1m-MF 40-970A-068-2m-MF	5
		Female, Metal Spring Latch, Rear Cable Exit	Female, Metal Spring Latch, Rear Cable Exit	-	0.5 m 1 m 2 m	40-970A-068-0.5m-FF 40-970A-068-1m-FF 40-970A-068-2m-FF	6
		Male, Metal Spring Latch, Rear Cable Exit	Male, Metal Spring Latch, Rear Cable Exit	-	0.5 m 1 m 2 m	40-970A-068-0.5m-MM 40-970A-068-1m-MM 40-970A-068-2m-MM	7
	Cable Assy, 68-Pin 1.27 mm Pitch Micro-D to Unterminated, 1A	Female, Metal Spring Latch, Rear Cable Exit	NA	Ferrules	0.5 m 1 m 2 m	A068SFR-F-5B050 A068SFR-F-5B100 A068SFR-F-5B200	8
				Tinned End	0.5 m 1 m 2 m	A068SFR-T-5B050 A068SFR-T-5B100 A068SFR-T-5B200	
				Cut End	0.5 m 1 m 2 m	40-972A-068-0.5m-FU 40-972A-068-1m-FU 40-972A-068-2m-FU	
		Male, Metal Spring Latch, Rear Cable Exit	NA	Ferrules	0.5 m 1 m 2 m	A068SMR-F-5B050 A068SMR-F-5B100 A068SMR-F-5B200	10
				Tinned End	0.5 m 1 m 2 m	A068SMR-T-5B050 A068SMR-T-5B100 A068SMR-T-5B200	
				Cut End	0.5 m 1 m 2 m	40-972A-068-0.5m-MU 40-972A-068-1m-MU 40-972A-068-2m-MU	
	Cable Assy, 68-Pin 1.27 mm Pitch Micro-D to Unterminated, 1A	Male, 2-56 UNC Screwlocks, Rear Cable Exit	NA	Ferrules	0.5 m 1 m 2 m	A068SMR-F-6B050 A068SMR-F-6B100 A068SMR-F-6B200	12
				Tinned End	0.5 m 1 m 2 m	A068SMR-T-6B050 A068SMR-T-6B100 A068SMR-T-6B200	
				Cut End	0.5 m 1 m 2 m	A068SMR-C-6B050 A068SMR-C-6B100 A068SMR-C-6B200	
	Cable Assy, 68-Pin 1.27 mm Pitch Micro-D to 34-Pin Ribbon, 1A	Female, Metal Spring Latch, Rear Cable Exit	Female, Side Cable Exit	-	0.5 m 1 m 2 m	40-971-068-0.5m-FF 40-971-068-1m-FF 40-971-068-2m-FF	14
		Male, Metal Spring Latch, Rear Cable Exit		-	0.5 m 1 m 2 m	40-971-068-0.5m-MF 40-971-068-1m-MF 40-971-068-2m-MF	16

Note: Custom lengths by quotation

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

Male Connector Blocks/Connectors

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.

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, 68-Pin 1.27 mm Pitch Micro-D to Unterminated, 1A	Female, 2-56 UNC Screwlocks Rear Cable Exit	NA	Ferrules	0.5 m 1 m 2 m	A068SFR-F-6B050 A068SFR-F-6B100 A068SFR-F-6B200	33
				Tinned End	0.5 m 1 m 2 m	A068SFR-T-6B050 A068SFR-T-6B100 A068SFR-T-6B200	
				Cut End	0.5 m 1 m 2 m	A068SFR-C-6B050 A068SFR-C-6B100 A068SFR-C-6B200	
Note: Custom lengths by quotation							

Appendix

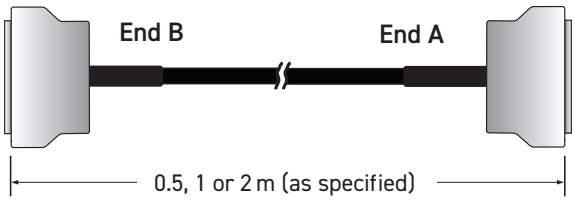
Custom Termination

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

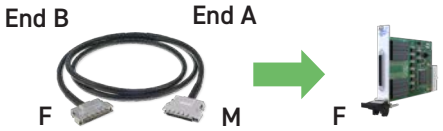
68-Pin Micro-D Cable Assy - Male to Female

Technical Specification

Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Male
Securing Method	Metal spring latch
Connector Type (End B):	68-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)	H60 x W12 x D35 mm
Cable Type:	Multipaired. 68-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual screened (Cable screen connected to backshells)
Additional Braided Sleeve	No
Cable O/D	9.1 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)

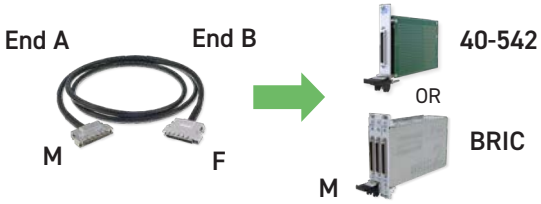


Product Compatibility

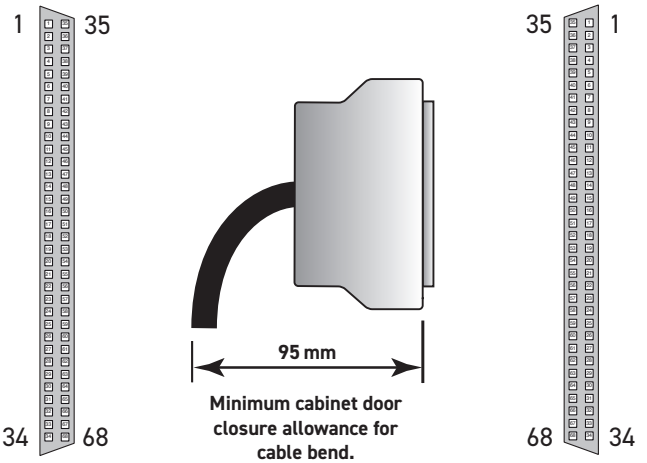


For the products listed to the right, the male end of the cable fits to the module.

40-290
40-291
40-490
40-491
40-510
40-511
40-512
40-513
40-630A
40-632A



For the 40-542 & BRIC products, the female connector fits to the module.



End B - Female Mating Face

End A - Male Mating Face

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Cable Assy, 1A, Male to Female,	
0.5 m Long	40-970A-068-0.5m-MF
1.0 m Long	40-970A-068-1m-MF
2.0 m Long	40-970A-068-2m-MF

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

Cable Assy - Female to Female

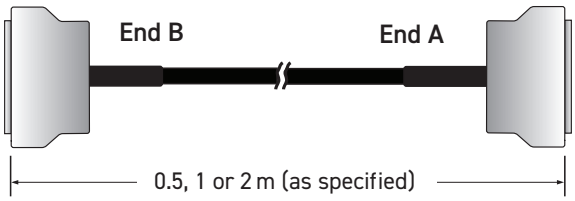
90-015D

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

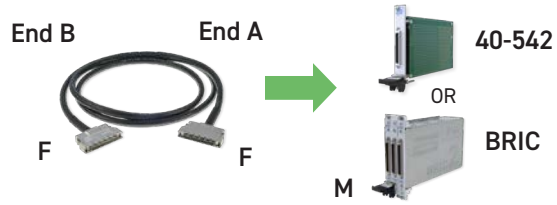
68-Pin Micro-D Cable Assy - Female to Female

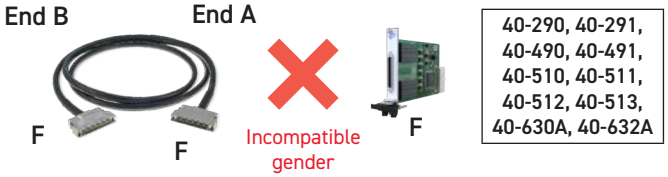
Technical Specification

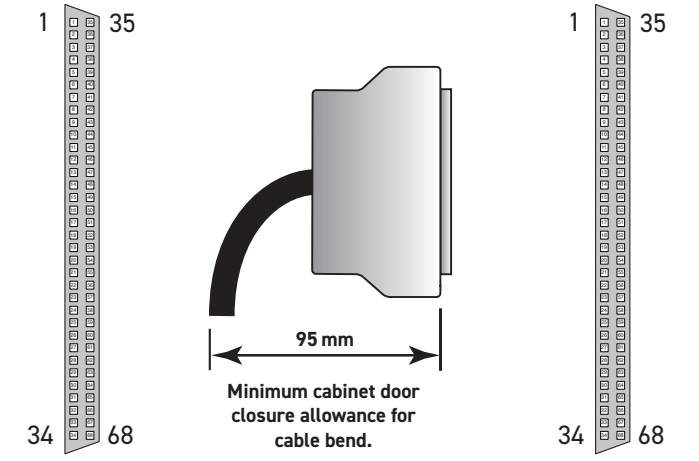
Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Connector Type (End B):	68-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Maximum Current	1A
Maximum Voltage	150 V
Insulation Resistance	Cable $1x10^{10}$ Ohm/3 m
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35 mm
Cable Type:	Multipaired. 68-Pin twisted pair.
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual screened (Cable screen connected to backshells)
Additional Braided Sleeve	No
Cable O/D	9.1mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)



Product Compatibility







End B - Female Mating Face

End B - Female Mating Face

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Cable Assy, 1A, Female to Female,	
0.5 m Long	40-970A-068-0.5m-FF
1.0 m Long	40-970A-068-1m-FF
2.0 m Long	40-970A-068-2m-FF

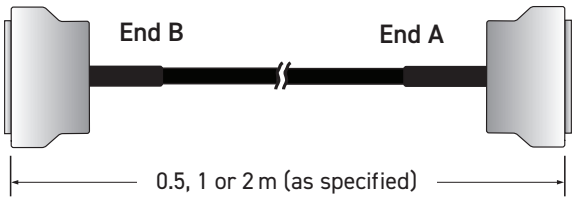
Note: Please ensure the correct connector gender is ordered for the application. Other cable lengths can be supplied.

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

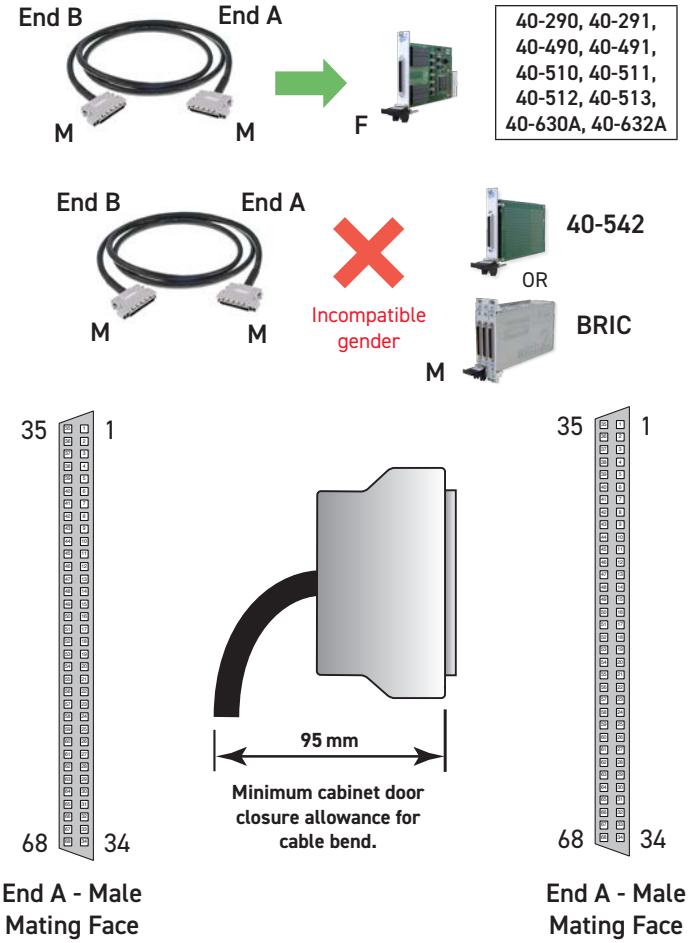
68-Pin Micro-D Cable Assy - Male to Male

Technical Specification

Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Male
Securing Method	Metal spring latch
Connector Type (End B):	68-Pin 1.27 mm Pitch Micro-D
Gender	Male
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)	H60 x W12 x D35 mm
Cable Type:	Multipaired. 68-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual screened (Cable screen connected to backshells)
Additional Braided Sleeve	No
Cable O/D	9.1mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)



Product Compatibility



End A - Male Mating Face

End A - Male Mating Face

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Cable Assy, 1A, Male to Male,	
0.5 m Long	40-970A-068-0.5m-MM
1.0 m Long	40-970A-068-1m-MM
2.0 m Long	40-970A-068-2m-MM

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

Cable Assy - Female to Unterminated

90-015D

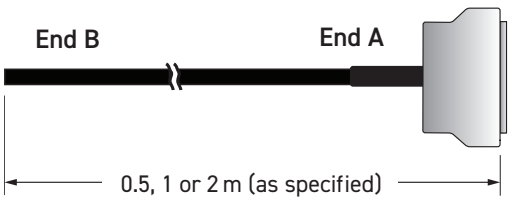
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Metal Spring Latches
- Wires Color Coded to Ensure Easy Connection

68-Pin Micro-D Cable Assy - Female to Unterminated

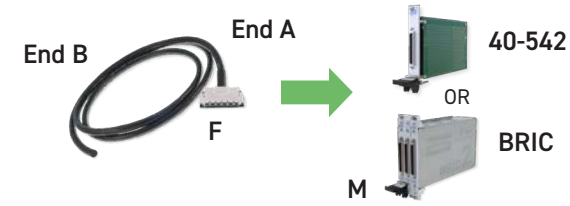
Technical Specification

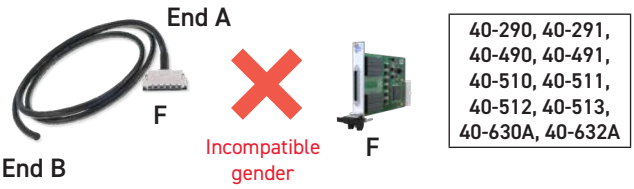
Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Unterminated End (End B):	
Wire End Options	Ferrules, Tinned, Cut End
Free Wire Length	130 mm nominal (Not Cut End)
Individual Wire Labelling	To connector pins. A white/black screen pigtail is included for Ferrule/ Tinned versions
Maximum Current	1 A
Maximum Voltage	150 V
Insulation Resistance	Cable $1x10^{10}$ Ohm/3 m
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35 mm
Cable Type:	Multipaired. 68-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual screened (Cable screen connected to backshells)
Additional Braided Sleeve	No
Cable O/D	9.1 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)

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



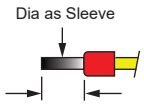
Product Compatibility





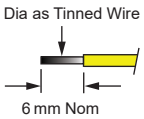
End B Options

Ferrules

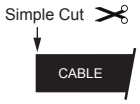


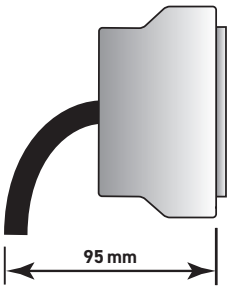
Soldered or Crimped Construction

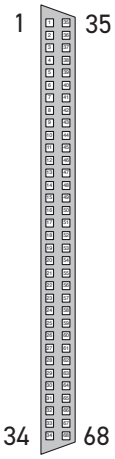
Tinned End



Cut End







End A - Female Mating Face

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

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Cable Assy, 1A, Metal Latch,	
Fem to Unterm, Cut End, 0.5 m Lg	40-972A-068-0.5m-FU
Fem to Unterm, Cut End, 1.0 m Lg	40-972A-068-1m-FU
Fem to Unterm, Cut End, 2.0 m Lg	40-972A-068-2m-FU

Part numbers for other versions:

A068SFR-*-5B***

End B:
F = Ferrules
T = Tinned End

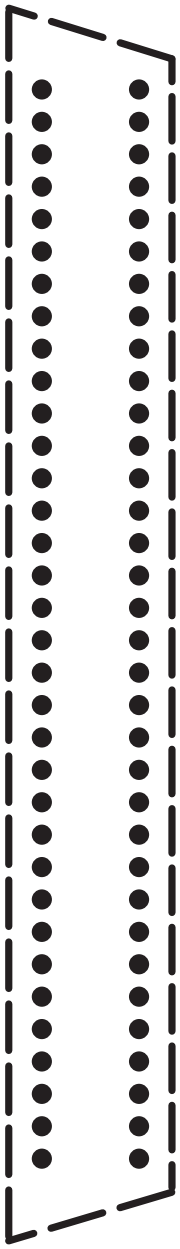
Cable Length:
050 = 0.5 m
100 = 1.0 m
200 = 2.0 m

Note: Other cable lengths can be supplied.

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

End A

Wire Color	Pin	Pin	Wire Color
Black/Red	1	35	Red/Black
Black/White	2	36	White/Black
Black/Green	3	37	Green/Black
Black/Blue	4	38	Blue/Black
Black/Yellow	5	39	Yellow/Black
Black/Brown	6	40	Brown/Black
Black/Orange	7	41	Orange/Black
Red/White	8	42	White/Red
Red/Green	9	43	Green/Red
Red/Blue	10	44	Blue/Red
Red/Yellow	11	45	Yellow/Red
Red/Brown	12	46	Brown/Red
Red/Orange	13	47	Orange/Red
Green/White	14	48	White/Green
Green/Blue	15	49	Blue/Green
Green/Yellow	16	50	Yellow/Green
Green/Brown	17	51	Brown/Green
Green/Orange	18	52	Orange/Green
White/Blue	19	53	Blue/White
White/Yellow	20	54	Yellow/White
White/Brown	21	55	Brown/White
White/Orange	22	56	Orange/White
Blue/Yellow	23	57	Yellow/Blue
Blue/Brown	24	58	Brown/Blue
Blue/Orange	25	59	Orange/Blue
Brown/Yellow	26	60	Yellow/Brown
Brown/Orange	27	61	Orange/Brown
Orange/Yellow	28	62	Yellow/Orange
Violet/Orange	29	63	Orange/Violet
Violet/Red	30	64	Red/Violet
Violet/White	31	65	White/Violet
Violet/Green	32	66	Green/Violet
Violet/Blue	33	67	Blue/Violet
Violet/Yellow	34	68	Yellow/Violet



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

Note 1. The cable screen is connected to the connector backshell at End A
2. A white/black insulated screen pigtail is included at the Unterminated End for Ferrule/Tinned versions

Cable Assy - Male to Unterminated

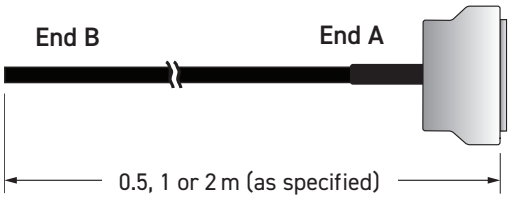
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- Metal Spring Latches
- Wires Color Coded to Ensure Easy Connection

68-Pin Micro-D Cable Assy - Male to Unterminated

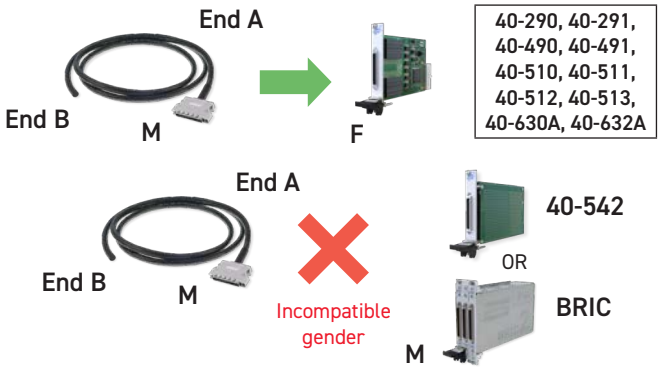
Technical Specification

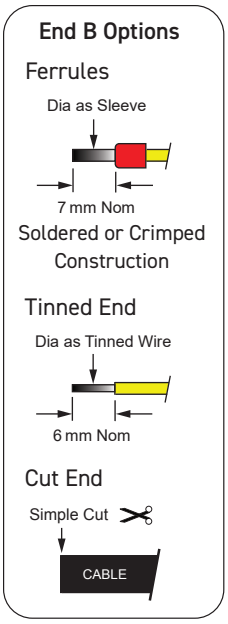
Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Male
Securing Method	Metal spring latch
Unterminated End (End B):	
Wire End Options	Ferrules, Tinned, Cut End
Free Wire Length	130 mm nominal (Not Cut End)
Individual Wire Labelling	To connector pins. A white/black screen pigtail is included for Ferrule/Tinned versions
Maximum Current	1 A
Maximum Voltage	150 V
Insulation Resistance	Cable $1x10^{10}$ Ohm/3 m
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35 mm
Cable Type:	Multipaired. 68-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual screened (Cable screen connected to backshells)
Additional Braided Sleeve	No
Cable O/D	9.1 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)

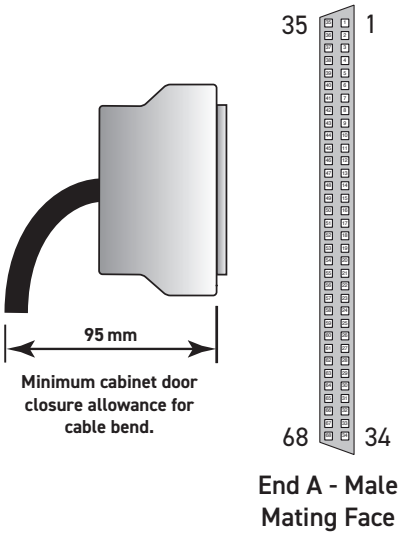
Note: When using this product please ensure appropriate electrical safety.



Product Compatibility







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

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Cable Assy, 1A, Metal Latch,	
Male to Unterm, Cut End, 0.5 m Lg	40-972A-068-0.5m-MU
Male to Unterm, Cut End, 1.0 m Lg	40-972A-068-1m-MU
Male to Unterm, Cut End, 2.0 m Lg	40-972A-068-2m-MU

Part numbers for other versions:

A068SMR-*-5B***

End B:
F = Ferrules
T = Tinned End

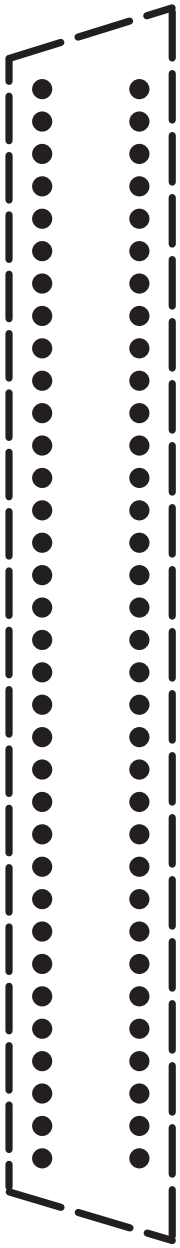
Cable Length:
050 = 0.5 m
100 = 1.0 m
200 = 2.0 m

Note: Other cable lengths can be supplied.

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

End A

Wire Color	Pin	Pin	Wire Color
Red/Black	35	1	Black/Red
White/Black	36	2	Black/White
Green/Black	37	3	Black/Green
Blue/Black	38	4	Black/Blue
Yellow/Black	39	5	Black/Yellow
Brown/Black	40	6	Black/Brown
Orange/Black	41	7	Black/Orange
White/Red	42	8	Red/White
Green/Red	43	9	Red/Green
Blue/Red	44	10	Red/Blue
Yellow/Red	45	11	Red/Yellow
Brown/Red	46	12	Red/Brown
Orange/Red	47	13	Red/Orange
White/Green	48	14	Green/White
Blue/Green	49	15	Green/Blue
Yellow/Green	50	16	Green/Yellow
Brown/Green	51	17	Green/Brown
Orange/Green	52	18	Green/Orange
Blue/White	53	19	White/Blue
Yellow/White	54	20	White/Yellow
Brown/White	55	21	White/Brown
Orange/White	56	22	White/Orange
Yellow/Blue	57	23	Blue/Yellow
Brown/Blue	58	24	Blue/Brown
Orange/Blue	59	25	Blue/Orange
Yellow/Brown	60	26	Brown/Yellow
Orange/Brown	61	27	Brown/Orange
Yellow/Orange	62	28	Orange/Yellow
Orange/Violet	63	29	Violet/Orange
Red/Violet	64	30	Violet/Red
White/Violet	65	31	Violet/White
Green/Violet	66	32	Violet/Green
Blue/Violet	67	33	Violet/Blue
Yellow/Violet	68	34	Violet/Yellow



68-Pin 1.27 mm Pitch Male Connector (Mating Face)

Note 1. The cable screen is connected to the connector backshell at End A
2. A white/black insulated screen pigtail is included at the Unterminated End for Ferrule/Tinned versions

Cable Assy - Male to Unterminated

90-015D

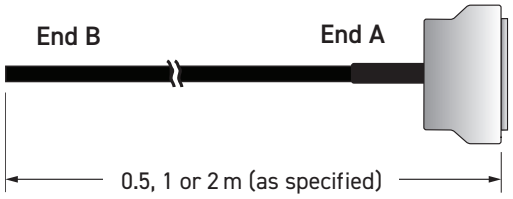
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 2-56 UNC Screwlock Version
- Wires Color Coded to Ensure Easy Connection

68-Pin Micro-D Cable Assy - Male to Unterminated

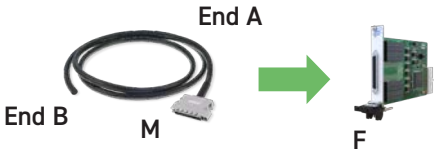
Technical Specification

Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks, male
Unterminated 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. A white/black screen pigtail is included for Ferrule/ Tinned versions
Maximum Current	1 A
Maximum Voltage	150 V
Insulation Resistance	Cable $1x10^{10}$ Ohm/3 m
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35 mm
Cable Type:	Multipaired. 68-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual screened (Cable screen connected to backshells)
Additional Braided Sleeve	No
Cable O/D	9.1 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)

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



Product Compatibility



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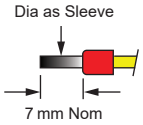
40-632A

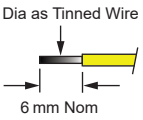
End B Options

Ferrules

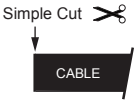


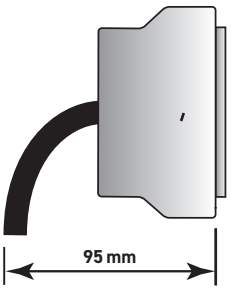
Soldered or Crimped Construction

Tinned End

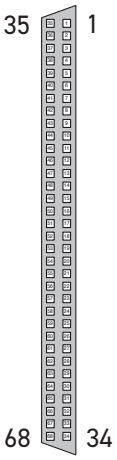


Cut End





Minimum cabinet door closure allowance for cable bend.



End A - Male Mating Face

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

Product Order Codes

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

A068SMR-*-6B***

End B:
F = Ferrules
T = Tinned End
C = Cut End

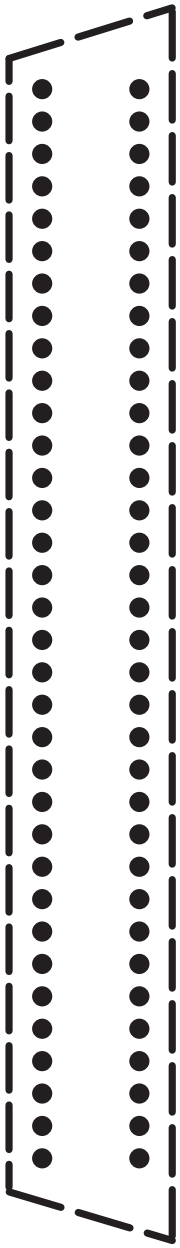
Cable Length:
050 = 0.5 m
100 = 1.0 m
200 = 2.0 m

Note: Other cable lengths can be supplied.

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

End A

Wire Color	Pin	Pin	Wire Color
Red/Black	35	1	Black/Red
White/Black	36	2	Black/White
Green/Black	37	3	Black/Green
Blue/Black	38	4	Black/Blue
Yellow/Black	39	5	Black/Yellow
Brown/Black	40	6	Black/Brown
Orange/Black	41	7	Black/Orange
White/Red	42	8	Red/White
Green/Red	43	9	Red/Green
Blue/Red	44	10	Red/Blue
Yellow/Red	45	11	Red/Yellow
Brown/Red	46	12	Red/Brown
Orange/Red	47	13	Red/Orange
White/Green	48	14	Green/White
Blue/Green	49	15	Green/Blue
Yellow/Green	50	16	Green/Yellow
Brown/Green	51	17	Green/Brown
Orange/Green	52	18	Green/Orange
Blue/White	53	19	White/Blue
Yellow/White	54	20	White/Yellow
Brown/White	55	21	White/Brown
Orange/White	56	22	White/Orange
Yellow/Blue	57	23	Blue/Yellow
Brown/Blue	58	24	Blue/Brown
Orange/Blue	59	25	Blue/Orange
Yellow/Brown	60	26	Brown/Yellow
Orange/Brown	61	27	Brown/Orange
Yellow/Orange	62	28	Orange/Yellow
Orange/Violet	63	29	Violet/Orange
Red/Violet	64	30	Violet/Red
White/Violet	65	31	Violet/White
Green/Violet	66	32	Violet/Green
Blue/Violet	67	33	Violet/Blue
Yellow/Violet	68	34	Violet/Yellow



68-Pin 1.27 mm Pitch Male Connector (Mating Face)

Note 1. The cable screen is connected to the connector backshell at End A
2. A white/black insulated screen pigtail is included at the Unterminated End for Ferrule/Tinned versions

Cable Assy - Female to 2 x 34-Pin Ribbon

90-015D

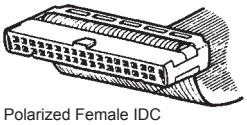
- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 68-Pin Connector with Metal Spring Latches

This cable assembly is designed to allow the termination of a 68-Pin 1.27 mm Pitch Micro-D with 2 off 34-Pin Polarized Female IDC connectors. Each cable is identified and a common color coding is used.

68-Pin Micro-D Cable Assy - Female to 34-Pin Ribbon

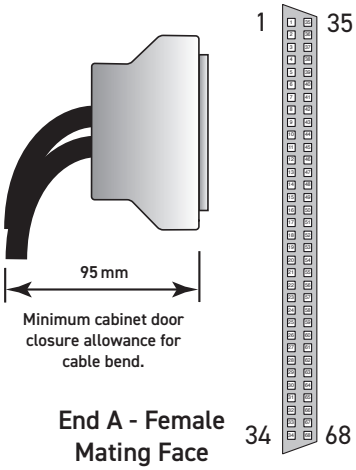
Technical Specification

Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Overall Size (Approx)	H60 x W12 x D35 mm
Connector Type (End B):	2 off 34-Pin polarized IDC
Gender	Female
Securing Method	Push fit
Contact Material	-
Contact Resistance	<20 mOhm
Overall Size (Approx)	H15 x W48 x D6 mm
Cable Screen Connection	Flying white/black screen pigtails are included
Maximum Current	1 A
Maximum Voltage	150 V
Insulation Resistance	1000 MOhm
Cable Type:	Multipaired: 2 x 34-Pin twisted pair. Wires paired 1&2, 3&4 etc
Conductor: Material	Copper
Strands	7/0.127 mm (28AWG)
Resistance	0.2 Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes (Cable screens connected to backshell)
Additional Braided Sleeve	No
Cable O/D	9 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)



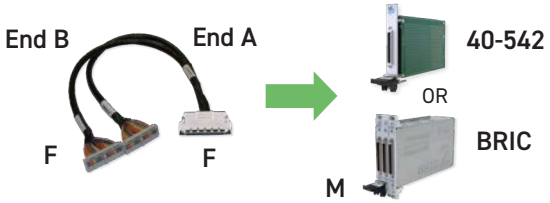
Polarized Female IDC

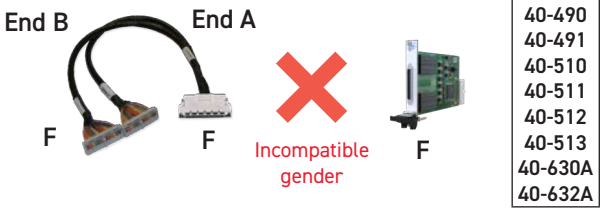
End B - Female Mating Face

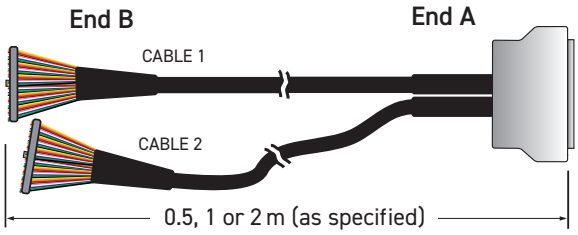


End A - Female Mating Face

Product Compatibility







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

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D to 34-Pin Ribbon Cable Assy, 1A, Female to Female, 0.5 m Long	40-971-068-0.5m-FF
Female to Female, 1.0 m Long	40-971-068-1m-FF
Female to Female, 2.0 m Long	40-971-068-2m-FF

Note: Please ensure the correct connector gender is ordered for the application. This may mean using another connector style. Other cable lengths can be supplied.

68-Pin 1.27 mm Pitch Micro-D (Female) to 2 x 34-Pin IDC (Female) Cable Assy

End B

	68-Pin Connector Pin No.		CABLE 1		68-Pin Connector Pin No.		
Brown/Tan	2	2		1	1	Brown
Red/Tan	4	4		3	3	Red
Orange/Tan	6	6		5	5	Orange
Yellow/Tan	8	8		7	7	Yellow
Green/Tan	10	10		9	9	Green
Blue/Tan	12	12		11	11	Blue
Violet/Tan	14	14		13	13	Violet
Grey/Tan	16	16		15	15	Grey
White/Tan	18	18		17	17	White
Black/Tan	20	20		19	19	Black
Brown/Tan	22	22		21	21	Brown
Red/Tan	24	24		23	23	Red
Orange/Tan	26	26		25	25	Orange
Yellow/Tan	28	28		27	27	Yellow
Green/Tan	30	30		29	29	Green
Blue/Tan	32	32		31	31	Blue
Violet/Tan	34	34		33	33	Violet

34-Pin IDC Female (Mating Face)

	68-Pin Connector Pin No.		CABLE 2		68-Pin Connector Pin No.	
Brown/Tan	36	2		1	35	Brown
Red/Tan	38	4		3	37	Red
Orange/Tan	40	6		5	39	Orange
Yellow/Tan	42	8		7	41	Yellow
Green/Tan	44	10		9	43	Green
Blue/Tan	46	12		11	45	Blue
Violet/Tan	48	14		13	47	Violet
Grey/Tan	50	16		15	49	Grey
White/Tan	52	18		17	51	White
Black/Tan	54	20		19	53	Black
Brown/Tan	56	22		21	55	Brown
Red/Tan	58	24		23	57	Red
Orange/Tan	60	26		25	59	Orange
Yellow/Tan	62	28		27	61	Yellow
Green/Tan	64	30		29	63	Green
Blue/Tan	66	32		31	65	Blue
Violet/Tan	68	34		33	67	Violet

34-Pin IDC Female (Mating Face)

End A

Wire Color	Pin		Pin	Wire Color
Brown	1		35	Brown
Brown/Tan	2		36	Brown/Tan
Red	3		37	Red
Red/Tan	4		38	Red/Tan
Orange	5		39	Orange
Orange/Tan	6		40	Orange/Tan
Yellow	7		41	Yellow
Yellow/Tan	8		42	Yellow/Tan
Green	9		43	Green
Green/Tan	10		44	Green/Tan
Blue	11		45	Blue
Blue/Tan	12		46	Blue/Tan
Violet	13		47	Violet
Violet/Tan	14		48	Violet/Tan
Grey	15		49	Grey
Grey/Tan	16		50	Grey/Tan
White	17		51	White
White/Tan	18		52	White/Tan
Black	19		53	Black
Black/Tan	20		54	Black/Tan
Brown	21		55	Brown
Brown/Tan	22		56	Brown/Tan
Red	23		57	Red
Red/Tan	24		58	Red/Tan
Orange	25		59	Orange
Orange/Tan	26		60	Orange/Tan
Yellow	27		61	Yellow
Yellow/Tan	28		62	Yellow/Tan
Green	29		63	Green
Green/Tan	30		64	Green/Tan
Blue	31		65	Blue
Blue/Tan	32		66	Blue/Tan
Violet	33		67	Violet
Violet/Tan	34		68	Violet/Tan

Shell - Screen

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

Note 1. ⌒ Denotes Twisted Pairing. i.e. Pins 1 and 2 use paired wires
2. The cable screen is connected to the connector backshell at End A
3. A white/black insulated screen pigtail is included at the End B for each cable

Cable Assy - Male to 34-Pin Ribbon

90-015D

- High Specification, Highly Flexible Cable
- Fully Screened Cable Construction with Strain Relief
- 68-Pin Connector with Metal Spring Latches

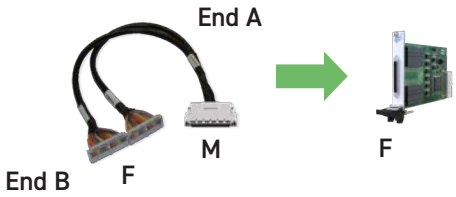
This cable assembly is designed to allow the termination of a 68-Pin 1.27 mm Pitch Micro-D with 2 off 34-Pin Polarized Female IDC connectors. Each cable is identified and a common color coding is used.

68-Pin Micro-D Cable Assy - Female to 34-Pin Ribbon

Technical Specification

Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Male
Securing Method	Metal spring latch
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Overall Size (Approx)	H60 x W12 x D35 mm
Connector Type (End B):	2 off 34-Pin polarized IDC
Gender	Female
Securing Method	Push fit
Contact Material	-
Contact Resistance	<20 mOhm
Overall Size (Approx)	H15 x W48 x D6 mm
Cable Screen Connection	Flying white/black screen pigtails are included
Maximum Current	1 A
Maximum Voltage	150 V
Insulation Resistance	1000 MOhm
Cable Type:	Multipaired: 2 x 34-Pin twisted pair. Wires paired 1&2, 3&4 etc
Conductor: Material	Copper
Strands	7/0.127 mm (28AWG)
Resistance	0.2 Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Yes (Cable screens connected to backshell)
Additional Braided Sleeve	No
Cable O/D	9 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)

Product Compatibility



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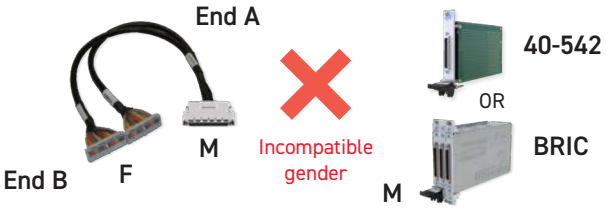
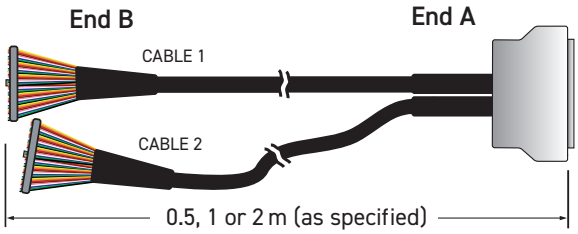
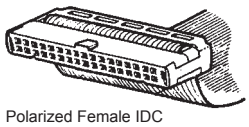


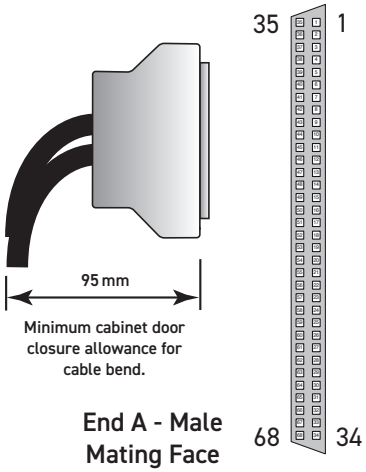


Note: Wiring Schedule information can be found on the following page.



Polarized Female IDC

End B - Female Mating Face



End A - Male Mating Face

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D to 34-Pin Ribbon Cable Assy, 1A,	
Male to Female, 0.5 m Long	40-971-068-0.5m-MF
Male to Female, 1.0 m Long	40-971-068-1m-MF
Male to Female, 2.0 m Long	40-971-068-2m-MF

Note: Please ensure the correct connector gender is ordered for the application. This may mean using another connector style. Other cable lengths can be supplied.

68-Pin 1.27 mm Pitch Micro-D (Male) to 2 x 34-Pin IDC (Female) Cable Assy

End B

Wire Color	68-Pin Connector Pin No.		CABLE 1		68-Pin Connector Pin No.		Wire Color
Brown/Tan	2	2		1	1		Brown
Red/Tan	4	4		3	3		Red
Orange/Tan	6	6		5	5		Orange
Yellow/Tan	8	8		7	7		Yellow
Green/Tan	10	10		9	9		Green
Blue/Tan	12	12		11	11		Blue
Violet/Tan	14	14		13	13		Violet
Grey/Tan	16	16		15	15		Grey
White/Tan	18	18		17	17		White
Black/Tan	20	20		19	19		Black
Brown/Tan	22	22		21	21		Brown
Red/Tan	24	24		23	23		Red
Orange/Tan	26	26		25	25		Orange
Yellow/Tan	28	28		27	27		Yellow
Green/Tan	30	30		29	29		Green
Blue/Tan	32	32		31	31		Blue
Violet/Tan	34	34		33	33		Violet

34-Pin IDC Female (Mating Face)

Wire Color	68-Pin Connector Pin No.		CABLE 2		68-Pin Connector Pin No.		Wire Color
Brown/Tan	36	2		1	35		Brown
Red/Tan	38	4		3	37		Red
Orange/Tan	40	6		5	39		Orange
Yellow/Tan	42	8		7	41		Yellow
Green/Tan	44	10		9	43		Green
Blue/Tan	46	12		11	45		Blue
Violet/Tan	48	14		13	47		Violet
Grey/Tan	50	16		15	49		Grey
White/Tan	52	18		17	51		White
Black/Tan	54	20		19	53		Black
Brown/Tan	56	22		21	55		Brown
Red/Tan	58	24		23	57		Red
Orange/Tan	60	26		25	59		Orange
Yellow/Tan	62	28		27	61		Yellow
Green/Tan	64	30		29	63		Green
Blue/Tan	66	32		31	65		Blue
Violet/Tan	68	34		33	67		Violet

34-Pin IDC Female (Mating Face)

End A

Wire Color	Pin		Pin	Wire Color
Brown	35		1	Brown
Brown/Tan	36		2	Brown/Tan
Red	37		3	Red
Red/Tan	38		4	Red/Tan
Orange	39		5	Orange
Orange/Tan	40		6	Orange/Tan
Yellow	41		7	Yellow
Yellow/Tan	42		8	Yellow/Tan
Green	43		9	Green
Green/Tan	44		10	Green/Tan
Blue	45		11	Blue
Blue/Tan	46		12	Blue/Tan
Violet	47		13	Violet
Violet/Tan	48		14	Violet/Tan
Grey	49		15	Grey
Grey/Tan	50		16	Grey/Tan
White	51		17	White
White/Tan	52		18	White/Tan
Black	53		19	Black
Black/Tan	54		20	Black/Tan
Brown	55		21	Brown
Brown/Tan	56		22	Brown/Tan
Red	57		23	Red
Red/Tan	58		24	Red/Tan
Orange	59		25	Orange
Orange/Tan	60		26	Orange/Tan
Yellow	61		27	Yellow
Yellow/Tan	62		28	Yellow/Tan
Green	63		29	Green
Green/Tan	64		30	Green/Tan
Blue	65		31	Blue
Blue/Tan	66		32	Blue/Tan
Violet	67		33	Violet
Violet/Tan	68		34	Violet/Tan

Shell - Screen

68-Pin 1.27 mm Pitch Male Connector (Mating Face)

Note 1. ⌒ Denotes Twisted Pairing. i.e. Pins 1 and 2 use paired wires
2. The cable screen is connected to the connector backshell at End A
3. A white/black insulated screen pigtail is included at the End B for each cable

Connector Block - Female

90-015D

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

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

The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

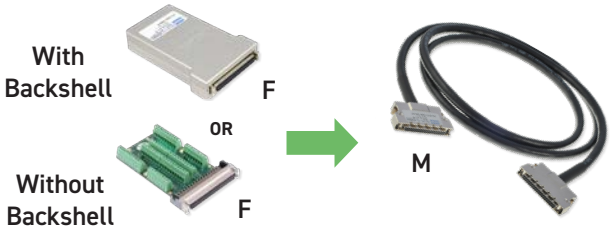
When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

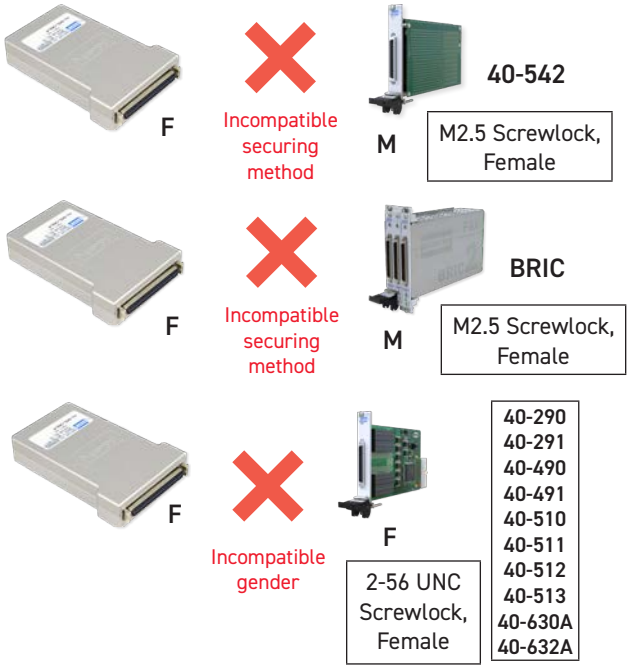
68-Pin Micro-D Connector Block

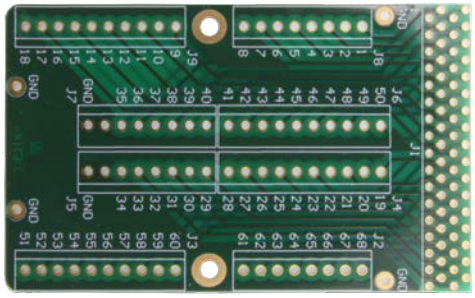
Technical Specification

Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method:	
Product with Backshell	Latch block
Product without Backshell	Latch block
Wire Connection	Rising cage screw terminals Soldered screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200 VDC
Cable Exit	Rear - 12.6 x 28 mm
Overall Size (Approx)	H59 x W18.1 x D92 mm
68-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)

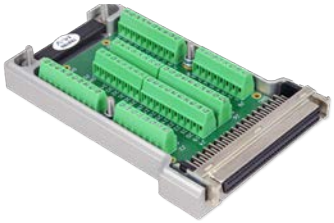
Product Compatibility

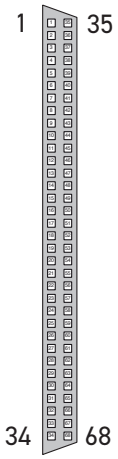




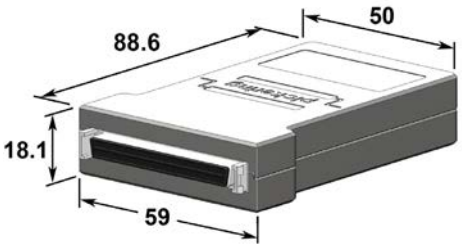


PCB Legend





Female Mating Face



Connector Block Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Shielded Connector Block, 1A,	
With Backshell, Female	40-965-068-F
Without Backshell, Female	92-965-068-F

BRIC Connector Block - Female

90-015D

- Connector , PCB and Backshell
- Mounts Directly on Front of BRIC Module
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

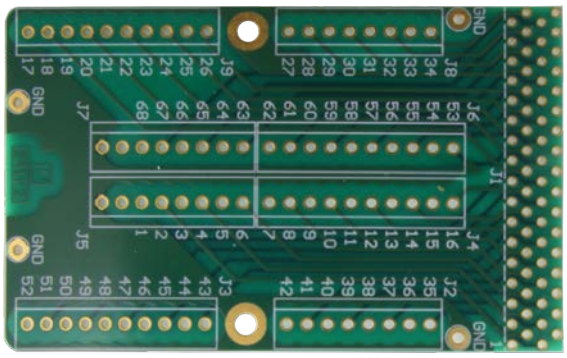
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

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.

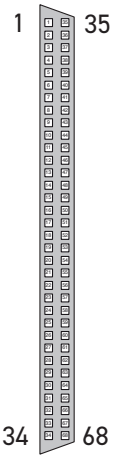
This connector block uses male screwlocks and will not mate to Pickering cables.

Technical Specification

Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	M2.5 screwlocks, male
Wire Connection	Rising cage screw terminals Soldered screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1 A
Maximum Voltage	200 VDC
Cable Exit	Rear - 9.5 x 20 mm
Overall Size (Approx)	H68 x W12.2 x D90.5 mm
68-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)



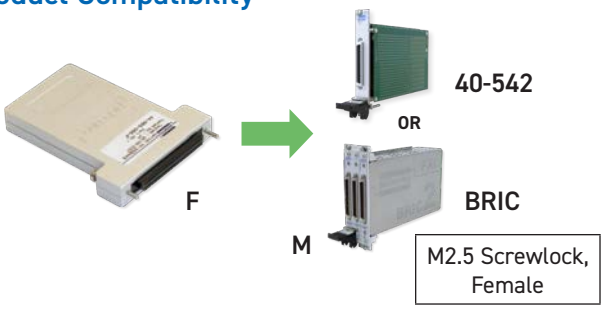
PCB Legend

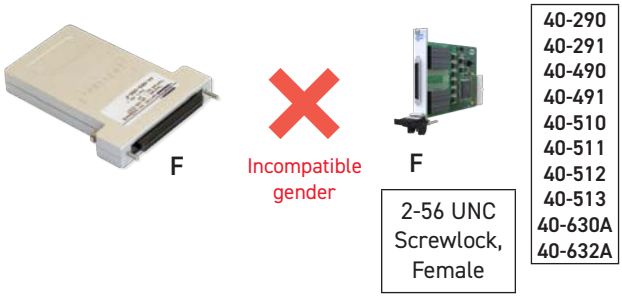


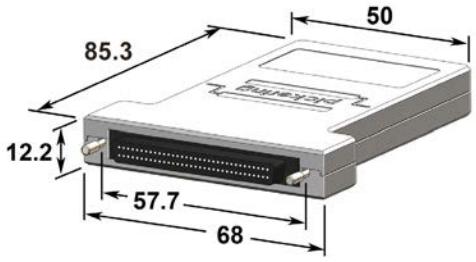
Female Mating Face

68-Pin Micro-D BRIC Connector Block

Product Compatibility







Connector Block Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Shielded Connector Block for BRIC Modules, 1A, Screw Terminal, With Backshell, Female
44-965-068-F

Connector Block - Female

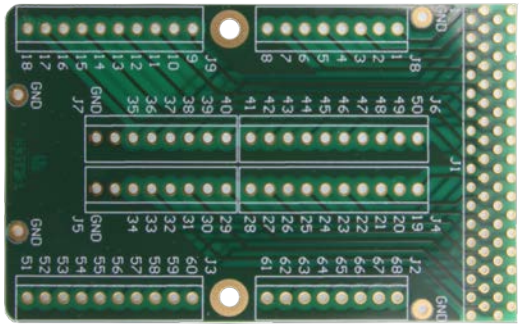
- For Connection at Cable End
- DIN Rail Mounted
- Easy to Use Rising Cage Screw Terminals

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

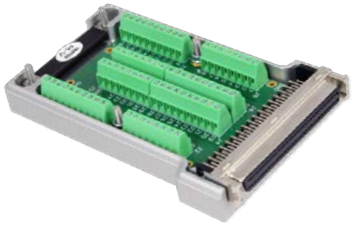
Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 68-Pin 1.27 mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board. Latch blocks are supplied in order to provide strain relief between the connector and the cable.

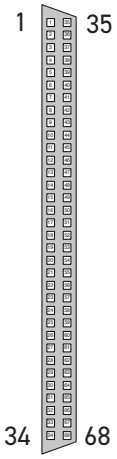
Technical Specification

Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	Latch block
Wire Connection	Rising cage screw terminals Soldered screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1 A
Maximum Voltage	200 VDC
Cable Exit	Rear - 12.6 x 28 mm
Overall Size (Approx)	H59 x W18.1 x D92 mm
68-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

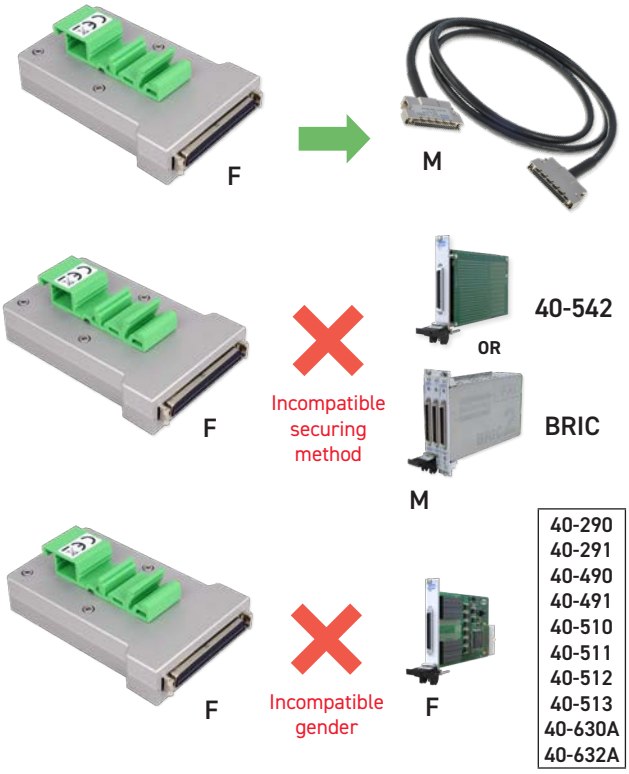


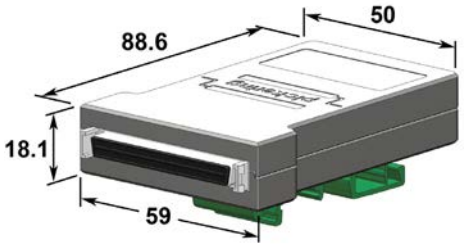


Female Mating Face

68-Pin Micro-D Connector Block

Product Compatibility





Connector Block Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, Screw Terminal, With Backshell, Female	40-966-068-F

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

Cable Connector - Female

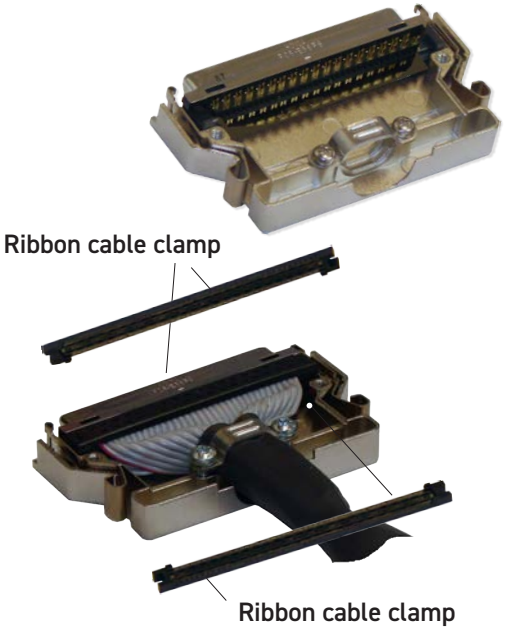
- Connector and Backshell
- Metal Spring Latches
- IDC for Ribbon Cable
- Cable Clamp in Backshell

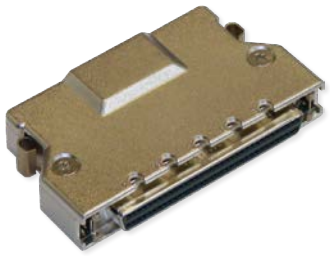
This accessory is designed to allow users to directly terminate a cable to the connector.

It is difficult to terminate cable to the 68-Pin 1.27 mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

Technical Specification

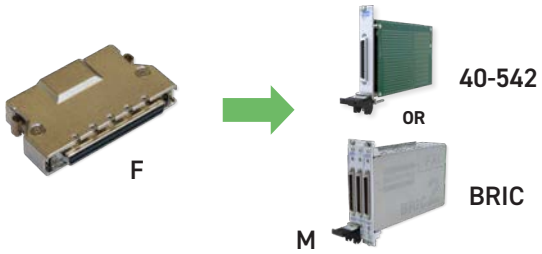
Connector Type:	68-Pin 1.27 mm pitch Micro-D IDC for ribbon cable
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250 VAC
Cable Exit	Rear - 7.5 x 8.5 mm
Overall Size (Approx)	H60 x W12 x D35 mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
IDC:	
Maximum Wire Size	28AWG
Recommended Cable	Ribbon cable, 68-Pin round & flat, 0.635 mm pitch
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for a cable screen

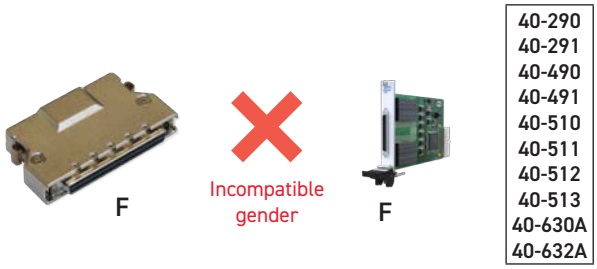


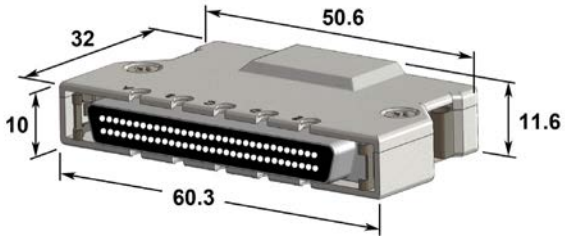


68-Pin Micro-D Connector

Product Compatibility







Connector Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable, With Backshell, Female	40-961-068-F

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

Cable Connector - Female

90-015D

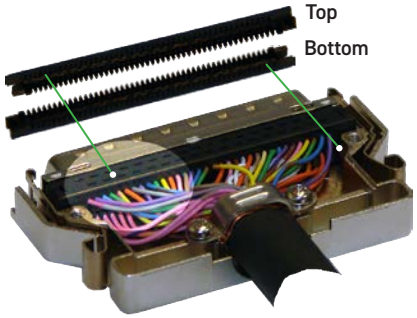
- Connector and Backshell
- Metal Spring Latches
- IDC for Discrete Wire
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 68-Pin 1.27 mm Pitch Micro-D connector.

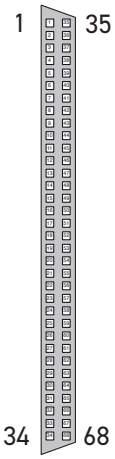
It is difficult to terminate cable to the 68-Pin 1.27 mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

Technical Specification

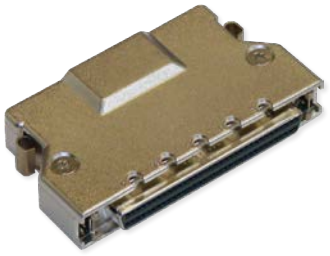
Connector Type:	68-Pin 1.27 mm pitch Micro-D IDC for discrete wires
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1 A
Maximum Voltage	250 VAC
Cable Exit	Rear - 7.5 x 8.5 mm
Overall Size (Approx)	H60 x W12 x D35 mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
IDC:	
Maximum Wire Size	28AWG
Recommended Cable	Multicore 68-Pin or single core
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for a cable screen



Cable Management Bars

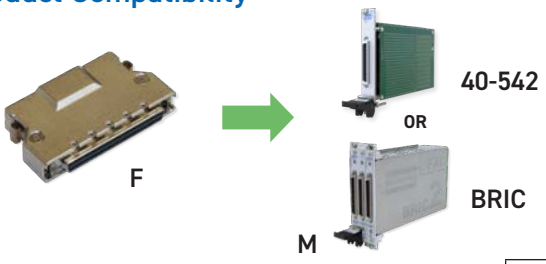


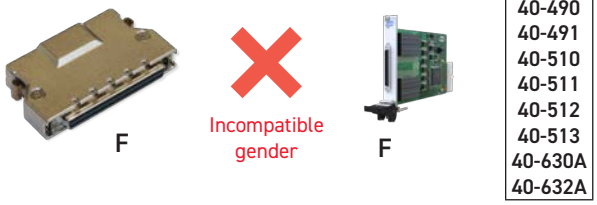
Female Mating Face

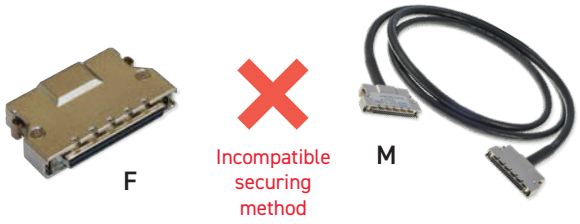


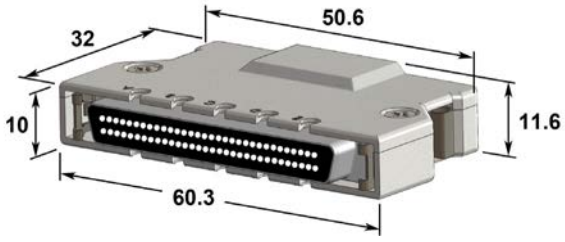
68-Pin Micro-D Connector

Product Compatibility









Connector Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1 A, IDC for Discrete Wire Cable (Multicore or Individual Single Cores, not Ribbon), With Backshell, Female	40-962-068-F

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

Cable Connector - Female

90-015D

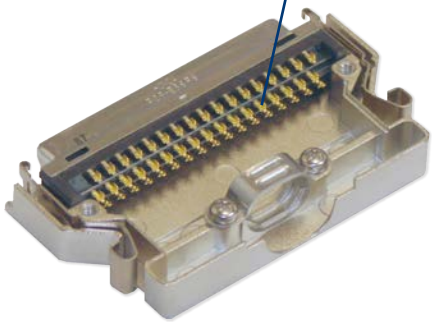
- Connector and Backshell
- Metal Spring Latches
- Soldered Connection
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with soldered connections to the 68-Pin 1.27 mm Pitch Micro-D connector.

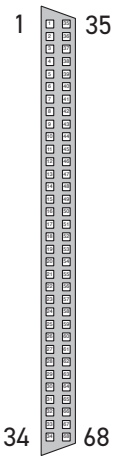
It is difficult to terminate cable to the 68-Pin 1.27 mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

Technical Specification

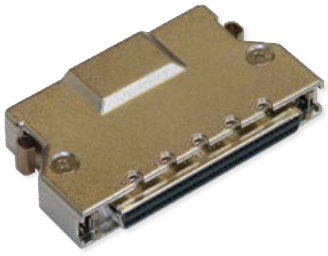
Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Wire Connection	Solder Bucket
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250 VAC
Cable Exit	Rear - 7.5 x 8.5 mm
Overall Size (Approx)	H60 x W12 x D35 mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Soldered Connection:	
Maximum Wire Size	20AWG (Number of connections may be limited by backshell exit)
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for a cable screen



Internal View

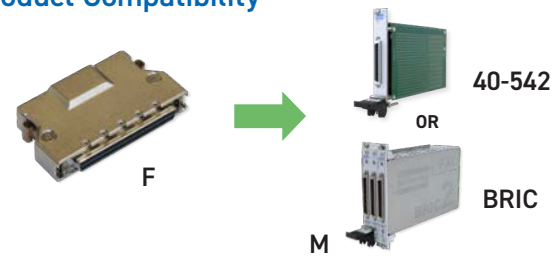


Female Mating Face

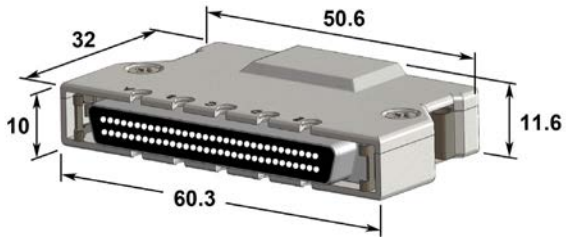


68-Pin Micro-D Connector

Product Compatibility



40-290
40-291
40-490
40-491
40-510
40-511
40-512
40-513
40-630A
40-632A



Connector Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1A, Solder Bucket, With Backshell, Female	40-962-068-SB-F

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

PCB Connector, Right Angle - Female

90-015D

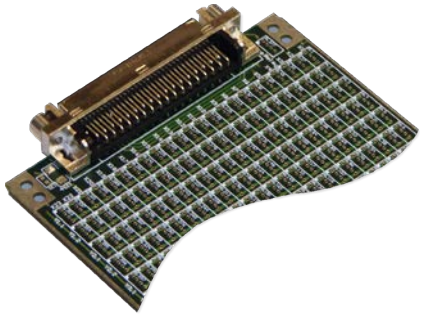
- Right Angle PCB Mount
- 2-56 UNC Screwlocks and Latch Block
- Ideal for User Created Termination Solutions

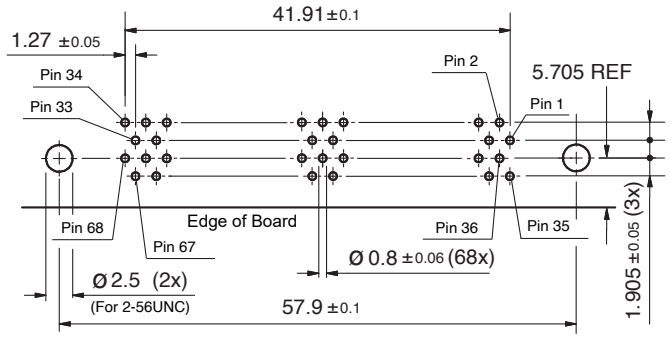
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

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

Technical Specification

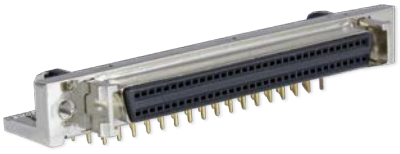
Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, female & latch block
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250 VAC
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
PCB Legs:	
Effective Leg Length	3.4 mm nom (See diagram)





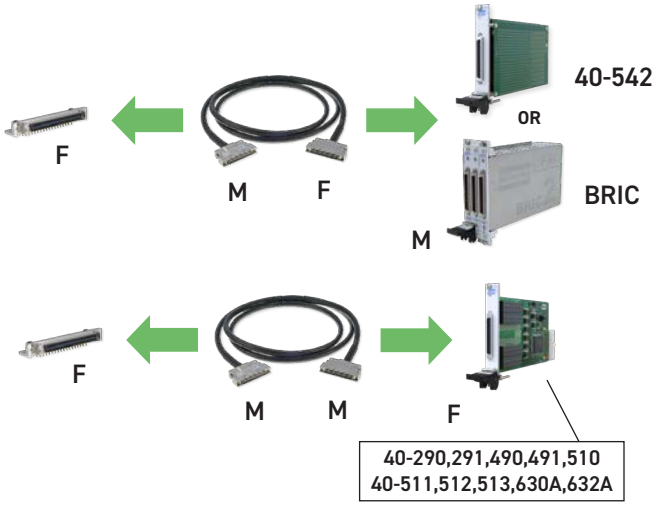
PCB Footprint of 68-Pin Right Angle Female Connector (Connector Side - Not to Scale)

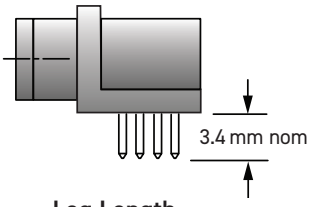
Note: Pin numbers do not directly match for the male and female connectors.



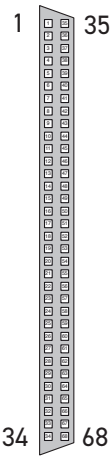
68-Pin Micro-D PCB Connector

Product Compatibility





Leg Length



Female Mating Face

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount, Female	40-963-068-RF

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

PCB Connector, Straight - Female

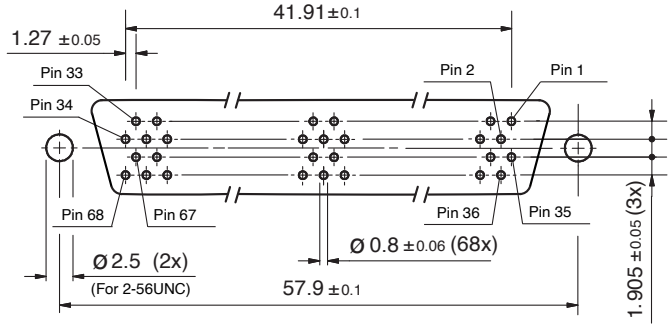
- Straight PCB Mount
- 2-56 UNC Screwlocks and Latch Block
- Ideal for User Created Termination Solutions

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

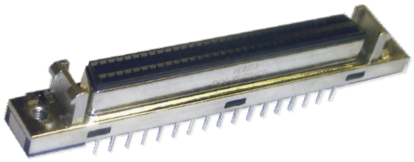
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

Technical Specification

Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, female & latch block
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250 VAC
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
PCB Legs:	
Effective Leg Length	3.4 mm nom (See diagram)

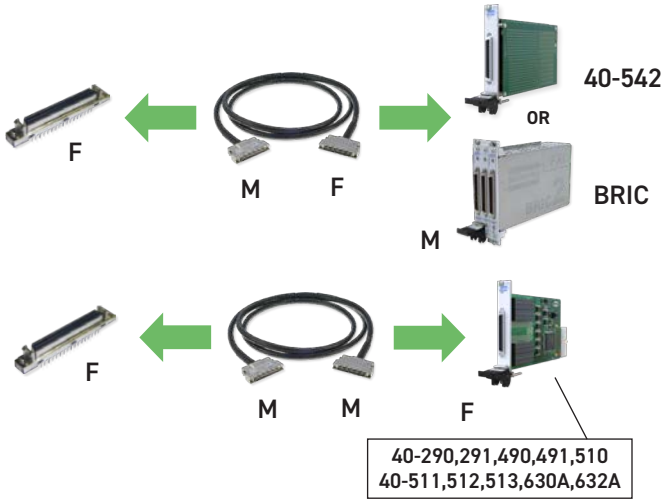


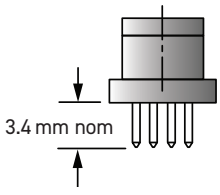
PCB Footprint of 68-Pin Straight Female Connector (Connector Side - Not to Scale)



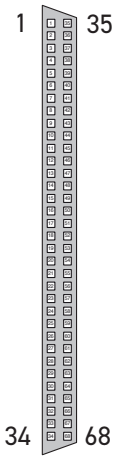
68-Pin Micro-D PCB Connector

Product Compatibility





Leg Length



Female Mating Face

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1A, Straight PCB Mount, Female	40-963-068-SF

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

Connector Block - Male

90-015D

- Connecctor, PCB and Backshell
- Cable Clamp in Backshell
- Easy to Use Rising Cage Screw Terminals

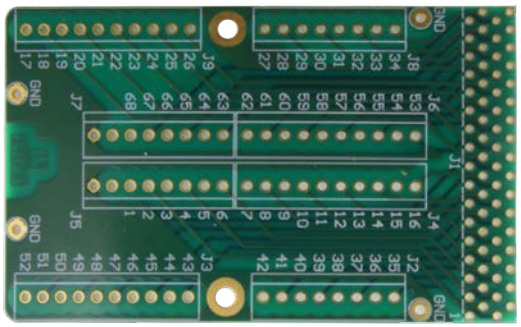
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

This connector block provides a simple method of connecting to high density 68-Pin 1.27 mm Pitch Micro-D connectors. The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

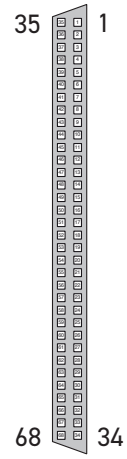
This connector block uses male screwlocks and will not mate to Pickering cables. When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

Technical Specification

Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Male
Securing Method:	
Product with Backshell	2-56 UNC screwlocks, male
Product without Backshell	Push fit
Wire Connection	Rising cage screw terminals Soldered screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1 A
Maximum Voltage	200 VDC
Cable Exit	Rear - 12.6 x 28 mm
Overall Size (Approx)	H68 x W18.1 x D93 mm
68-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



Male
Mating Face

68-Pin Micro-D Connector Block

Product Compatibility

M
With Backshell

F
2-56 UNC Screwlock, Female

40-290
40-291
40-490
40-491
40-510
40-511
40-512
40-513
40-630A
40-632A

M
With Backshell

Incompatible gender

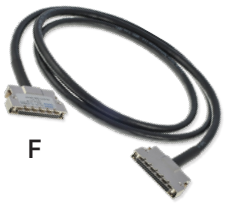
40-542
OR
BRIC

M
M2.5 Screwlock, Female

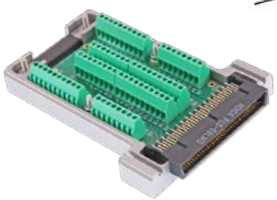
OR

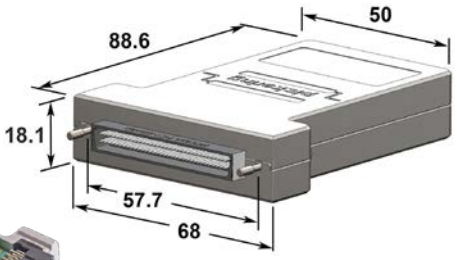
M

Incompatible securing method



F





Connector Block Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Shielded Connector Block, 1A,	
With Backshell, Male	40-965-068-M
Without Backshell, Male	92-965-068-M

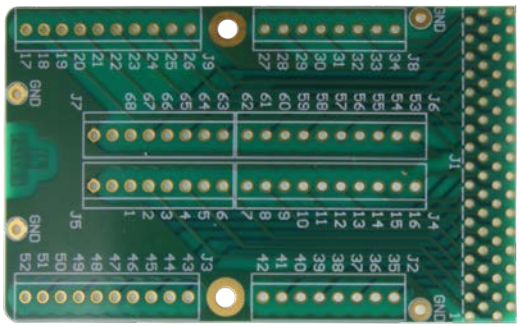
- For Connection at Cable End
- DIN Rail Mounted
- Easy to Use Rising Cage Screw Terminals

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

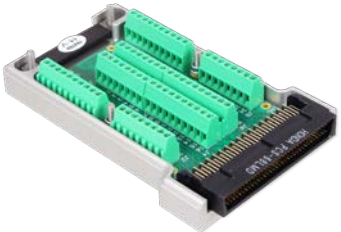
Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 68-Pin 1.27 mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board.

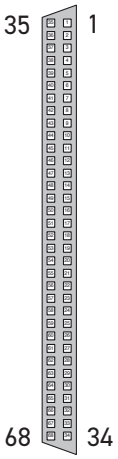
Technical Specification

Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Male
Securing Method	Push fit
Wire Connection	Rising cage screw terminals Soldered screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1 A
Maximum Voltage	200 VDC
Cable Exit	Rear
Overall Size (Approx)	H59 x W18.1 x D93 mm
68-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

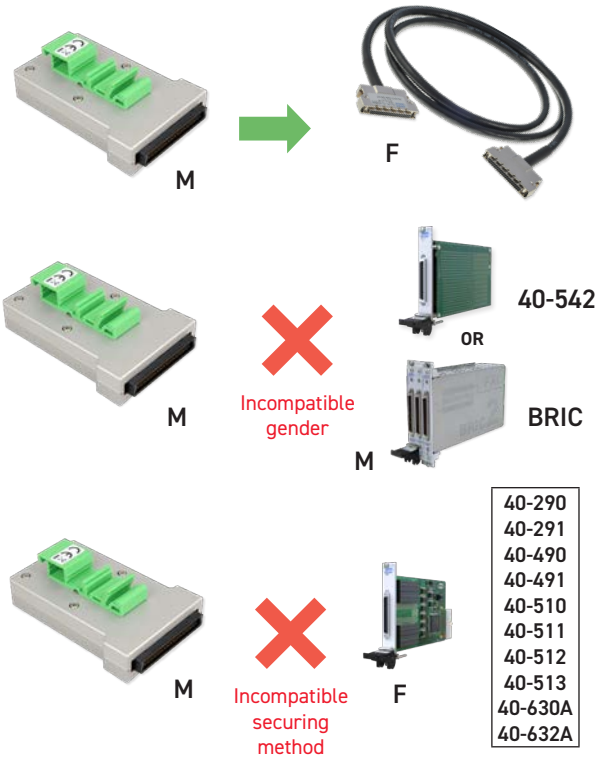


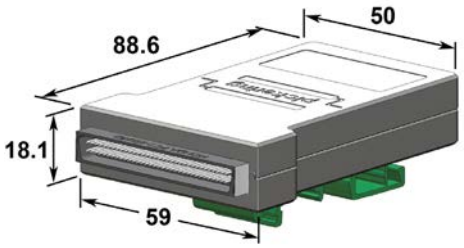


Male Mating Face

68-Pin Micro-D Connector Block

Product Compatibility





Connector Block Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, Screw Terminal, With Backshell, Male, 40-966-068-M

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

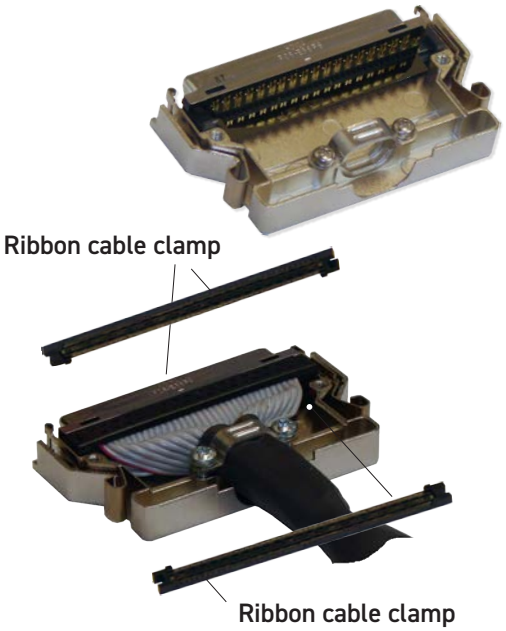
- Connector and Backshell
- Metal Spring Latches
- IDC for Ribbon Cable
- Cable Clamp in Backshell

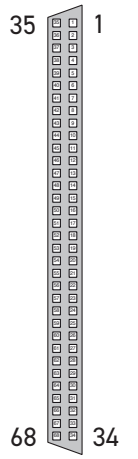
This accessory is designed to allow users to directly terminate a cable to the connector.

It is difficult to terminate cable to the 68-Pin 1.27 mm Pitch Micro-D connector because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

Technical Specification

Connector Type:	68-Pin 1.27 mm pitch Micro-D IDC for Ribbon Cable
Gender	Male
Securing Method	Metal spring latch
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250 VAC
Cable Exit	Rear - 7.5 x 8.5 mm
Overall Size (Approx)	H60 x W12 x D35 mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
IDC:	
Maximum Wire Size	28AWG
Recommended Cable	Ribbon cable, 68-Pin round & flat, 0.635 mm pitch
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for a cable screen

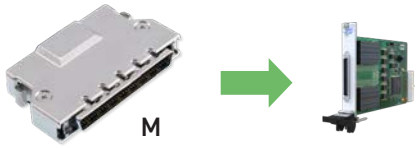




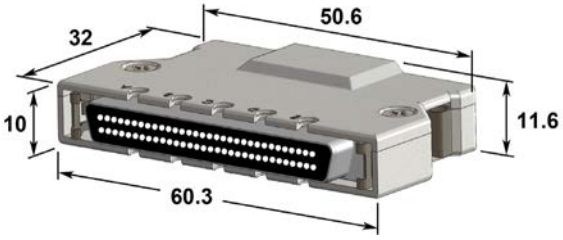
Male Mating Face

68-Pin Micro-D Connector

Product Compatibility



40-290
40-291
40-490
40-491
40-510
40-511
40-512
40-513
40-630A
40-632A



Connector Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable,With Backshell, Male	40-961-068-M

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

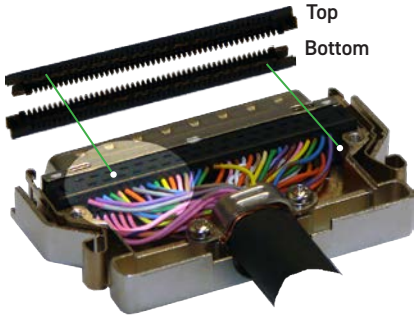
- Connector and Backshell
- Metal Spring Latches
- IDC for Discrete Wire
- Cable Clamp in Backshell

This accessory is designed to allow users to directly terminate with IDC connections to the 68-Pin 1.27 mm Pitch Micro-D connector.

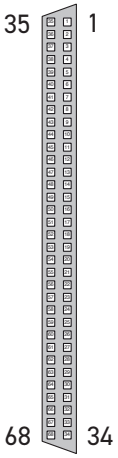
It is difficult to terminate cable to the 68-Pin 1.27 mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

Technical Specification

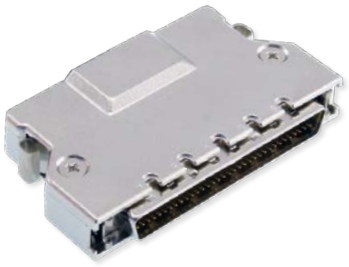
Connector Type:	68-Pin 1.27 mm pitch Micro-D IDC for discrete wires
Gender	Male
Securing Method	Metal spring latch
Wire Connection	IDC
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250 VAC
Cable Exit	Rear - 7.5 x 8.5 mm
Overall Size (Approx)	H60 x W12 x D35 mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
IDC:	
Maximum Wire Size	28AWG
Recommended Cable	Multicore 68-Pin or single core
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for a cable screen



Cable Management Bars

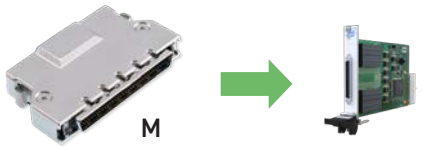


Male
Mating Face

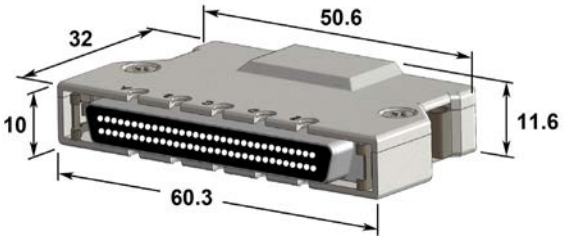


68-Pin Micro-D Connector

Product Compatibility



40-290
40-291
40-490
40-491
40-510
40-511
40-512
40-513
40-630A
40-632A



Connector Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1A, IDC for Discrete Wire Cable (Multicore or Individual Single Cores, not Ribbon), With Backshell, Male	40-962-068-M

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

Cable Connector - Male

- Connector with Conductive Backshell
- 2-56 UNC Screwlock Version
- Soldered Connection
- Cable Clamp in Backshell

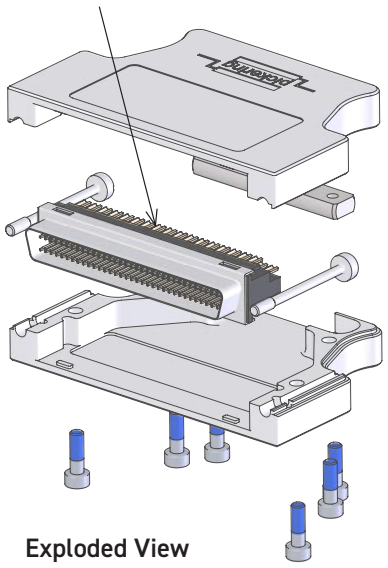
This accessory is designed to allow users to directly terminate a cable with soldered connections to the connector.

It is difficult to terminate cable to the 68-Pin 1.27 mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

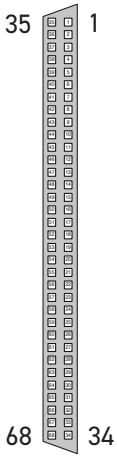
Technical Specification

Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Male
Securing Method	2-56 UNC screwlocks. Male.screwlock adaptors are supplied to fit onto the module front panel connector
Wire Connection	Solder Bucket
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250 VAC
Cable Exit	Rear - 22.4 x 10.1 mm
Overall Size (Approx)	H63.5 x W13.1 x D47 mm
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Soldered Connections:	
Maximum Wire Size	20AWG
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for the cable screen

Solder connections



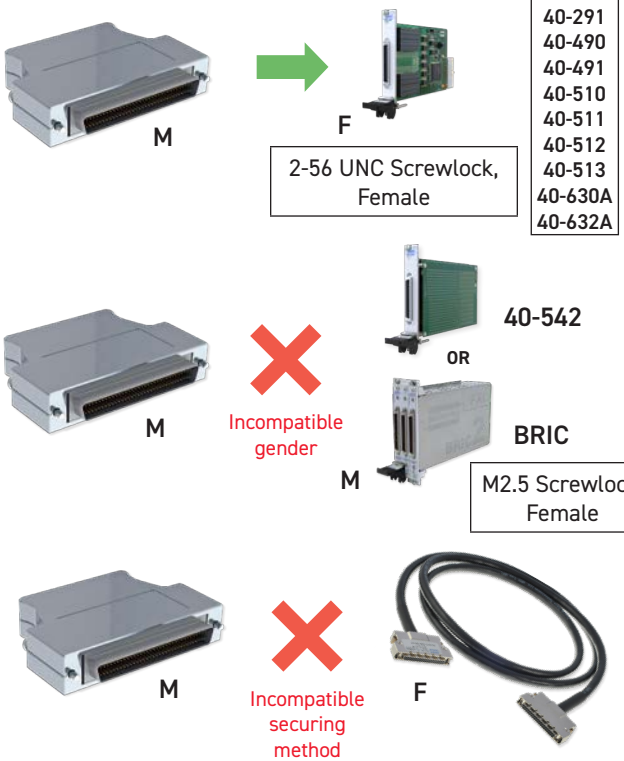
Exploded View

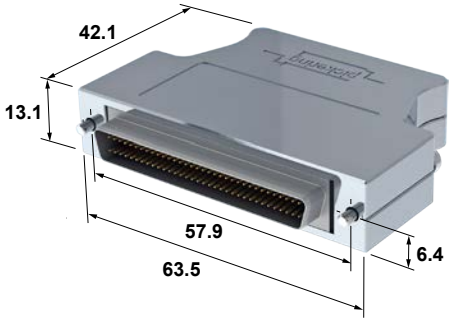


Male
Mating Face

68-Pin Micro-D Connector

Product Compatibility





Connector Dimensions

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1A, Solder Bucket, With Backshell, Male	40-962B-068-SB-M

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

PCB Connector, Right Angle - Male

90-015D

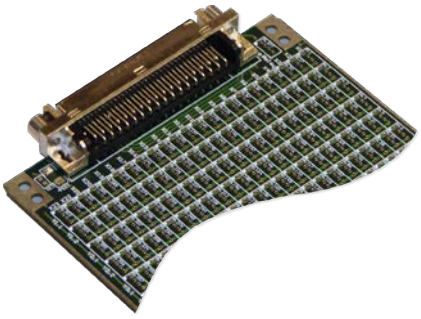
- Right Angle PCB Mount
- M2.5 Screwlocks and Latch Clip
- Ideal for User Created Termination Solutions

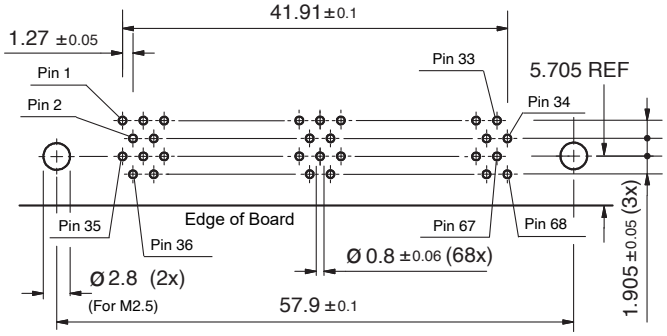
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

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

Technical Specification

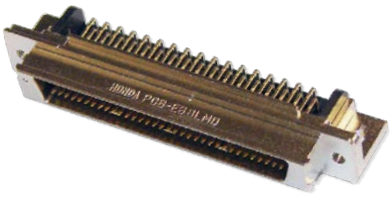
Connector Type:	68-Pin 1.27 mm pitch Micro-D
Gender	Male
Securing Method	M2.5 screwlocks, female & latch clip
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250 VAC
68-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
PCB Legs:	
Effective Leg Length	3.4 mm nom (See diagram)





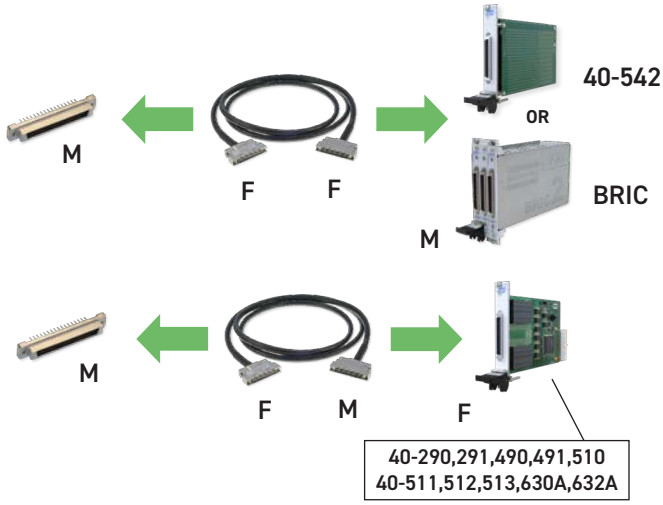
PCB Footprint of 68-Pin Right Angle Male Connector (Connector Side - Not to Scale)

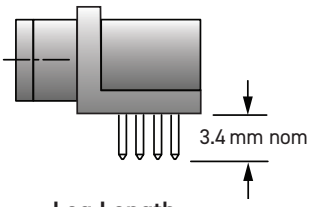
Note: Pin numbers do not directly match for the male and female connectors.



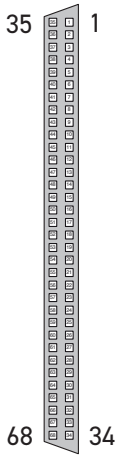
68-Pin Micro-D PCB Connector

Product Compatibility





Leg Length



Male Mating Face

Product Order Codes

68-Pin 1.27 mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount, Male	40-963-068-RM

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

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 - Female to Unterminated

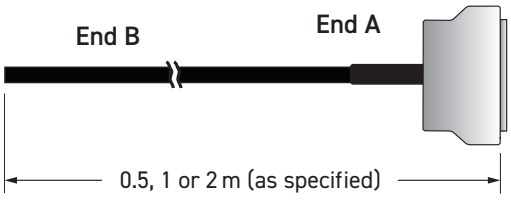
90-015D

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

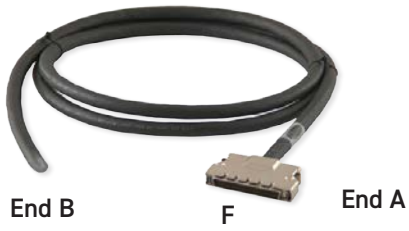
Technical Specification

Connector Type (End A):	68-Pin 1.27 mm Pitch Micro-D
Gender	Female
Securing Method	2-56 UNC screwlocks, male
Unterminated 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. A white/black screen pigtail is included for Ferrule/ Tinned versions
Maximum Current	1 A
Maximum Voltage	150 V
Insulation Resistance	Cable $1x10^{10}$ Ohm/3 m
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35 mOhm
Cable Exit	Rear
Overall Size (Approx)	H60 x W12 x D35 mm
Cable Type:	Multipaired. 68-Pin twisted pair
Conductor: Material	Tinned stranded copper
Strands	7/36 (28AWG)
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual screened (Cable screen connected to backshells)
Additional Braided Sleeve	No
Cable O/D	9.1 mm
Minimum Bend Radius	25 mm
Door Closure Allowance	95 mm (see diagram)

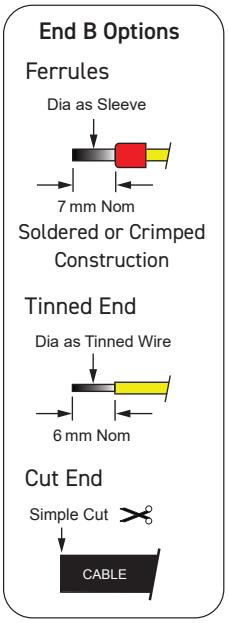
Note: When using this product please ensure appropriate electrical safety.

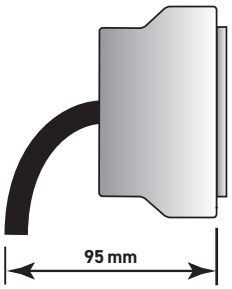


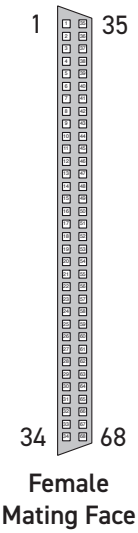
This Connector is Not Suitable for Connection to a Pickering Switching Product



68-Pin Micro-D Cable Assy - Female to Unterminated







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

Product Order Codes

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

A068SFR-*-6B***

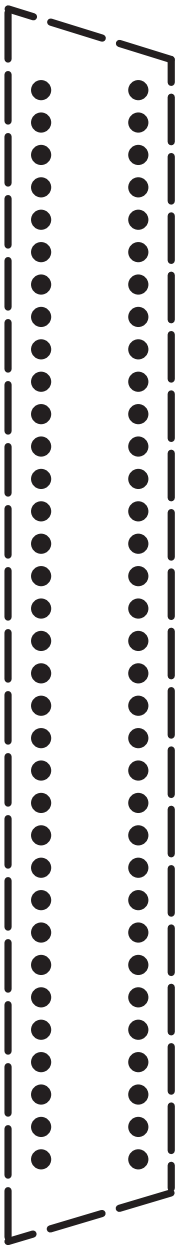
End B:	Cable Length:
F = Ferrules	050 = 0.5 m
T = Tinned End	100 = 1.0 m
C = Cut End	200 = 2.0 m

Note: Other cable lengths can be supplied.

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

End A

Wire Color	Pin	Pin	Wire Color
Black/Red	1	35	Red/Black
Black/White	2	36	White/Black
Black/Green	3	37	Green/Black
Black/Blue	4	38	Blue/Black
Black/Yellow	5	39	Yellow/Black
Black/Brown	6	40	Brown/Black
Black/Orange	7	41	Orange/Black
Red/White	8	42	White/Red
Red/Green	9	43	Green/Red
Red/Blue	10	44	Blue/Red
Red/Yellow	11	45	Yellow/Red
Red/Brown	12	46	Brown/Red
Red/Orange	13	47	Orange/Red
Green/White	14	48	White/Green
Green/Blue	15	49	Blue/Green
Green/Yellow	16	50	Yellow/Green
Green/Brown	17	51	Brown/Green
Green/Orange	18	52	Orange/Green
White/Blue	19	53	Blue/White
White/Yellow	20	54	Yellow/White
White/Brown	21	55	Brown/White
White/Orange	22	56	Orange/White
Blue/Yellow	23	57	Yellow/Blue
Blue/Brown	24	58	Brown/Blue
Blue/Orange	25	59	Orange/Blue
Brown/Yellow	26	60	Yellow/Brown
Brown/Orange	27	61	Orange/Brown
Orange/Yellow	28	62	Yellow/Orange
Violet/Orange	29	63	Orange/Violet
Violet/Red	30	64	Red/Violet
Violet/White	31	65	White/Violet
Violet/Green	32	66	Green/Violet
Violet/Blue	33	67	Blue/Violet
Violet/Yellow	34	68	Yellow/Violet



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

Note 1. The cable screen is connected to the connector backshell at End A
2. A white/black insulated screen pigtail is included at the Unterminated End for Ferrule/Tinned versions

Appendix

This appendix gives details of recent part number changes.

ECN1934 Dated 3rd January 2024

This Change Note covered an update to the 40-962A-068-SB-M connector previously in this data sheet. The existing product included a nonconductive backshell. The 40-962B-068-SB-M connector includes a conductive backshell.

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

Product changes in data sheet order		Data Sheet 90-015D Issue 11.1 Apr 2023	Data Sheet 90-015D Issue 11.2 Jan 2024
		Product Part Numbers	Product Part Numbers
	Cable Connector, 68-Pin 1.27 mm Micro-D, 1A, Solder Bucket	40-962A-068-SB-M	40-962B-068-SB-M

ECN1757 Dated 8th August 2022

This Change Note covered a change to the multicore cable used in the cable assemblies. The individual wires have changed from 7/38 (30AWG) to 7/36 (28AWG) and a different color coding is 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 90-015D Issue 10.2 Apr 2022	Data Sheet 90-015D Issue 11.0 Aug 2022
		Product Part Numbers	Product Part Numbers
	Cable Assy, 68-Pin 1.27 mm Pitch Micro-D, 1A, Connector to Connector	40-970-068-*m-MF 40-970-068-*m-FF 40-970-068-*m-MM	40-970A-068-*m-MF 40-970A-068-*m-FF 40-970A-068-*m-MM
	Cable Assy, 68-Pin 1.27 mm Pitch Micro-D (Female) to Unterminated, 1A, Metal Spring Latch	A068SFR-F-5A*** A068SFR-T-5A*** 40-972-068-*m-FU	A068SFR-F-5B*** A068SFR-T-5B*** 40-972A-068-*m-FU
	Cable Assy, 68-Pin 1.27 mm Pitch Micro-D (Male) to Unterminated, 1A, Metal Spring Latch	A068SMR-F-5A*** A068SMR-T-5A*** 40-972-068-*m-MU	A068SMR-F-5B*** A068SMR-T-5B*** 40-972A-068-*m-MU
	Cable Assy, 68-Pin 1.27 mm Pitch Micro-D (Male) to Unterminated, 1A, Screwlocks	A068SMR-F-6A*** A068SMR-T-6A*** A068SMR-C-6A***	A068SMR-F-6B*** A068SMR-T-6B*** A068SMR-C-6B***
	Cable Assy, 68-Pin 1.27 mm Pitch Micro-D (Female) to Unterminated, 1A, Screwlocks	A068SFR-F-6A*** A068SFR-T-6A*** A068SFR-C-6A***	A068SFR-F-6B*** A068SFR-T-6B*** A068SFR-C-6B***

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.

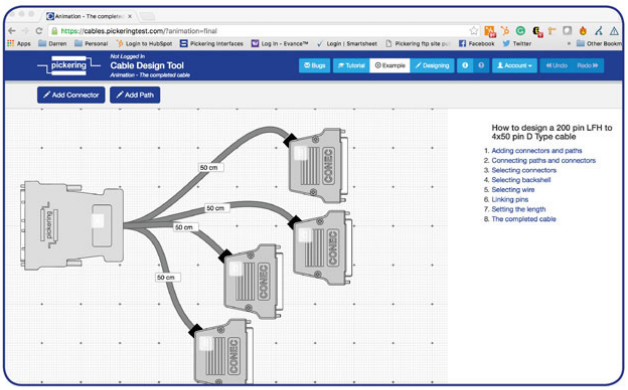
All products are designed to ensure easy and problem free connection.

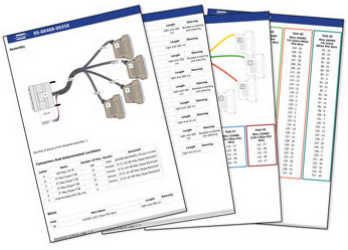
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.

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