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- 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 1.27mm 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



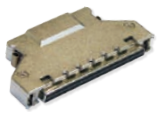
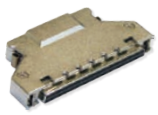
Examples of Pickering PXI Products
using 96-Pin 1.27mm Pitch Micro-D Connectors

ISSUE 10.3 APR 2022

Cable Assemblies

Description		End 1	End 2		Cable Length	Product Order Code and Part Number	Data Sheet Page
		Type	Type	Options			
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D, 1A Custom lengths by quotation	Female, Metal Spring Latch, Rear Cable Exit	Female, Metal Spring Latch, Rear Cable Exit	-	0.5m 1m 2m	**40-970B-096-0.5m-FF** **40-970B-096-1m-FF** **40-970B-096-2m-FF**	4
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D to Unterminated, 1A Custom lengths by quotation	Female, Metal Spring Latch, Rear Cable Exit	NA	Ferrules	0.5m 1m 2m	**A096SFR-F-5A050** **A096SFR-F-5A100** **A096SFR-F-5A200**	6
				Tinned End	0.5m 1m 2m	**A096SFR-T-5A050** **A096SFR-T-5A100** **A096SFR-T-5A200**	
				Cut End	0.5m 1m 2m	**40-972B-096-0.5m-FU** **40-972B-096-1m-FU** **40-972B-096-2m-FU**	
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D to 100-Pin 1.27mm Pitch Micro-D Adaptor Lead, 1A Custom lengths by quotation	Female, Metal Spring Latch, Rear Cable Exit	Male, 4-40 UNC Screwlocks (Male), Rear Cable Exit	-	0.5m 1m 2m	**40-973B-096-0.5m-FM** **40-973B-096-1m-FM** **40-973B-096-2m-FM**	8
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D to 2 x 50-Pin Ribbon, 1A Custom lengths by quotation	Female, Metal Spring Latch, Rear Cable Exit	Female, Push Fit, Side Cable Exit	-	0.5m 1m 2m	**40-971A-096-0.5m-FF** **40-971A-096-1m-FF** **40-971A-096-2m-FF**	10
		Female, Metal Spring Latch, Rear Cable Exit	Male, Push Fit, Side Cable Exit	-	0.5m 1m 2m	**40-971A-096-0.5m-FM** **40-971A-096-1m-FM** **40-971A-096-2m-FM**	12

Female Connector Blocks/Connectors

Description		Type	Options	Product Order Code and Part Number	Page
	Shielded Connector Block, 96-Pin 1.27mm Pitch Micro-D, 1A, Screw Terminal.	Female, M2.5 Screwlocks (Male), Rear Cable Exit	With Backshell	**40-965-096-F**	14
			Without Backshell	**92-965-096-F**	
	Shielded Connector Block for BRIC Modules, 96-Pin 1.27mm Pitch Micro-D, 1A, Screw Terminal.	Female, M2.5 Screwlocks (Male), Rear Cable Exit	With Backshell	**44-965-096-F**	15
	Cable Connector, 96-Pin 1.27mm Pitch Micro-D, 1A, IDC for Ribbon Cable.	Female, Metal Spring Latch, Rear Cable Exit	With Backshell	**40-961-096-F**	16
	Cable Connector, 96-Pin 1.27mm Pitch Micro-D, 1A, IDC for Discrete Wire			**40-962-096-F**	17

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

Male Connector Blocks/Connectors

Description		Type	Options	Product Order Code and Part Number	Page
	Shielded Connector Block, 96-Pin 1.27mm Pitch Micro-D, 1A, Screw Terminal.	Male, M2.5 Screwlocks (Male), Rear Cable Exit	With Backshell	**40-965-096-M**	18
			Without Backshell	**92-965-096-M**	
	Shielded Connector Block, DIN Rail Mount, 96-Pin 1.27mm Pitch Micro-D, 1A, Screw Terminal.	Male, Latch Clip, Rear Cable Exit	With Backshell	**40-966-096-M**	19
	PCB Connector, 96-Pin 1.27mm Pitch Micro-D, 1A	Male, M2.5 Screwlocks and Latch Clip	Right Angle PCB Mount	**40-963-096-RM**	20
		Male, Latch Clip	Straight PCB Mount	**40-963-096-SM**	22

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		Type	Options	Product Order Code and Part Number	Page
	Shielded Connector Block, DIN Rail Mount, 96-Pin 1.27mm Pitch Micro-D, 1A, Screw Terminal.	Female, Latch Clip, Rear Cable Exit	With Backshell	**40-966-096-F**	25
	PCB Connector, 96-Pin 1.27mm Pitch Micro-D, 1A	Female, Push Fit	Right Angle PCB Mount	**40-963-096-RF**	26
		Female, Push Fit	Straight PCB Mount	**40-963-096-SF**	27
	Shielded Connector Block, 96-Pin 1.27mm Pitch Micro-D, 1A, Screw Terminal.	Male, M2.5 Screwlocks (Male), Rear Cable Exit	With Backshell	**44-965-096-M**	28

Apppendix (Details of recent product changes)..... Page 29

Custom Termination..... Page 31

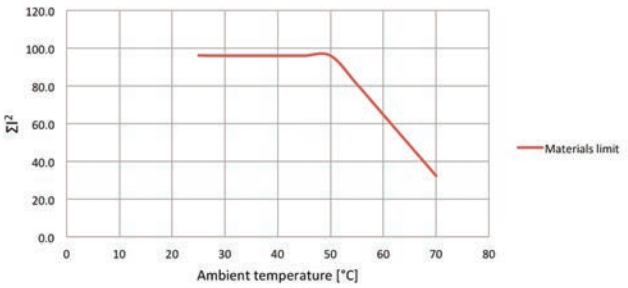
- **High Specification, Highly Flexible Cable**
- **Fully Screened Cable Construction with Strain Relief**
- **Metal Spring Latches**



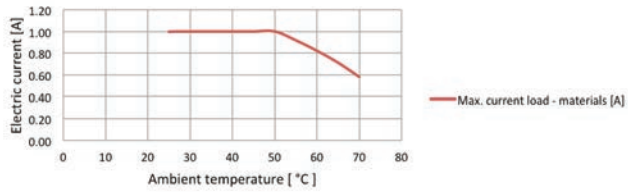
Technical Specification

Connector Type (End A):	96-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Connector Type (End B):	96-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H78 x W12 x D40mm
Cable Type:	Multipaired: 100-Pin twisted pair with varying left and right hand lays to minimise crosstalk
Conductor: Material	Tinned copper
Strands	7/36 (28AWG, 0.38mm O/D)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded Cable screen connected to backshells
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Characteristic Plots for 40-970B-096-1m

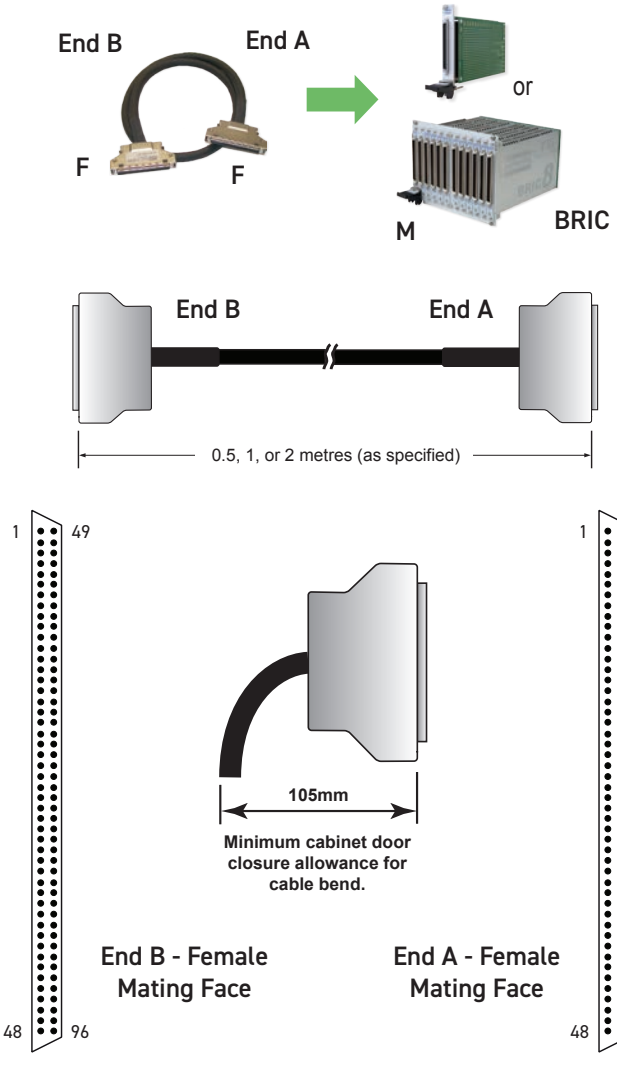


The graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.



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

Product Compatibility



Wiring Schedule information can be found on the following page.

Product Order Codes

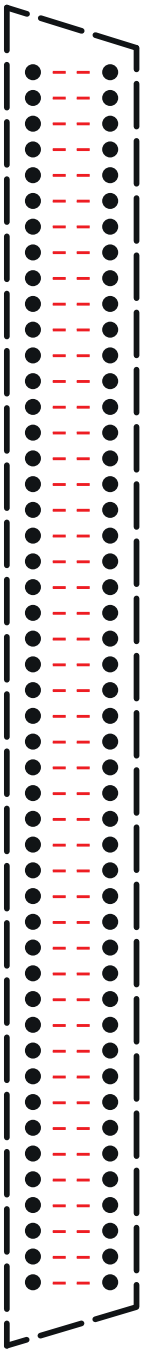
96-Pin 1.27mm Pitch Micro-D Cable Assy, 1A,	
Female to Female, 0.5m Long	**40-970B-096-0.5m-FF**
Female to Female, 1.0m Long	**40-970B-096-1m-FF**
Female to Female, 2.0m Long	**40-970B-096-2m-FF**

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

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

End B

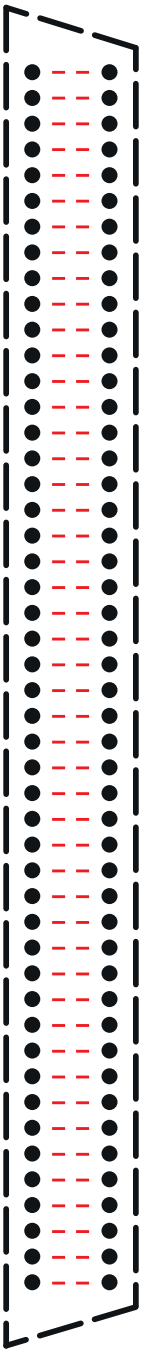
Wire Color	Pin	Pin	Wire Color
Brown/Red	1	49	Red/Brown
Tan/Black	2	50	Black/Tan
Tan/Red	3	51	Red/Tan
White/Black	4	52	Black/White
White/Red	5	53	Red/White
Violet/Grey	6	54	Grey/Violet
Blue/Grey	7	55	Grey/Blue
Blue/Violet	8	56	Violet/Blue
Green/Grey	9	57	Grey/Green
Green/Violet	10	58	Violet/Green
Green/Blue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



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

End A

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



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

Note 1. – – Denotes Twisted Pairing. i.e. Pins 1 and 49 use paired wires
2. The cable screen is 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**

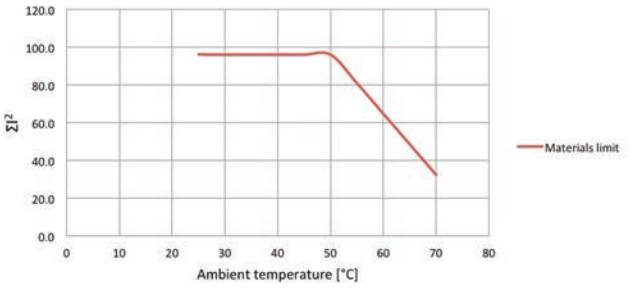


Technical Specification

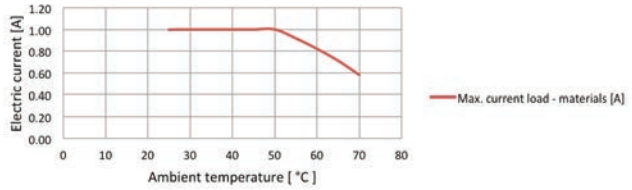
Connector Type (End A):	96-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Unterminated End (End B):	
Wire End Options	Ferrules, Tinned, Cut End
Free Wire Length	130mm nominal (Not Cut End)
Individual Wire Labelling	To connector pins. A white/black screen pigtail is included for Ferrule/Tinned versions
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MOhm
Connector:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H78 x W12 x D40mm
Cable Type:	Multipaired: 100-Pin twisted pair with varying left and right hand lays to minimise crosstalk
Conductor: Material	Tinned copper
Strands	7/36 (28AWG, 0.38mm O/D)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded Cable screen connected to backshell
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

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

Characteristic Plots for 40-972B-096-1m

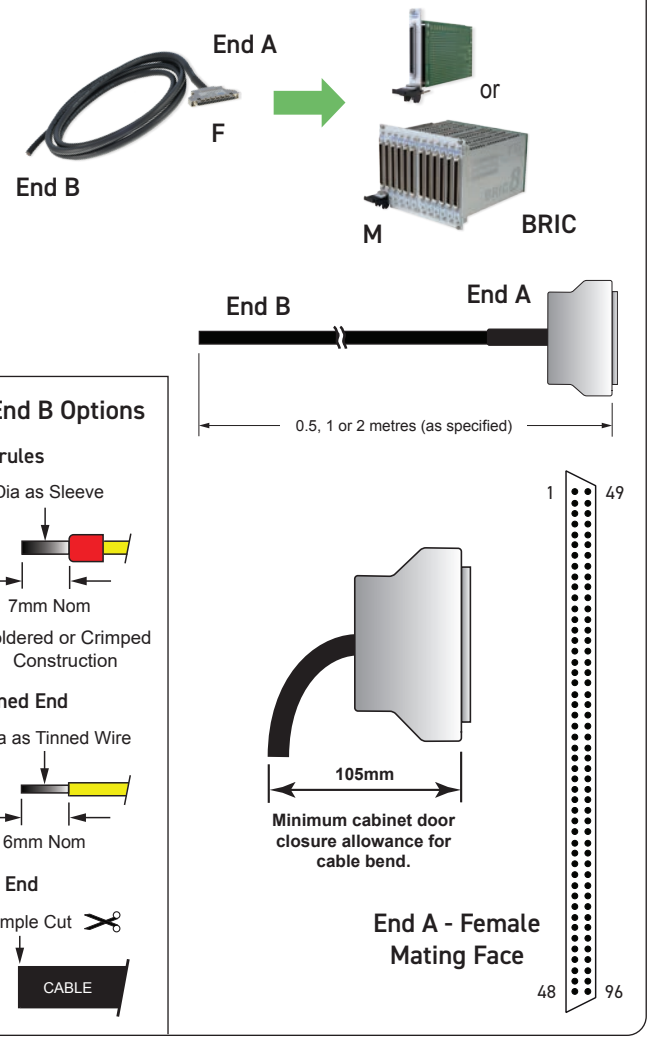


The graph shows the permitted ΣI^2 versus ambient temperature limit imposed by the materials used where the cable is not directly user accessible.



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

Product Compatibility



Wiring Schedule information can be found on the following page.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Cable Assy, 1A, Metal Latch,	
Fem to Unterminated, Cut End, 0.5m Lg	40-972B-096-0.5m-FU
Fem to Unterminated, Cut End, 1.0m Lg	40-972B-096-1m-FU
Fem to Unterminated, Cut End, 2.0m Lg	40-972B-096-2m-FU

Part numbers for other versions:

A096SFR-*-5A***

End B:
F = Ferrules
T = Tinned End

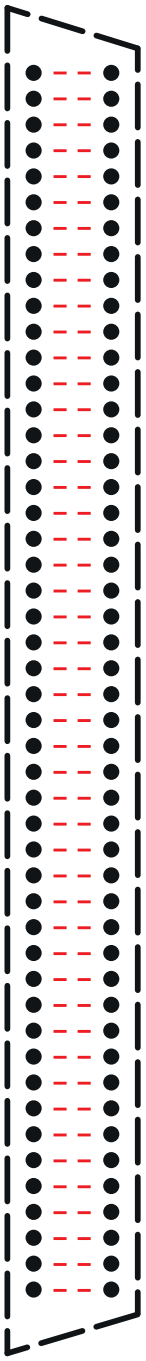
Cable Length:
050 = 0.5m
100 = 1.0m
200 = 2.0m

Note: Other cable lengths can be supplied.

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

End A

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



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

Note 1. – – Denotes Twisted Pairing. i.e. Pins 1 and 49 use paired wires
2. The cable screen is connected to the connector backshell
3. A white/black insulated screen pigtail is included at the Unterminated End for Ferrule/Tinned versions

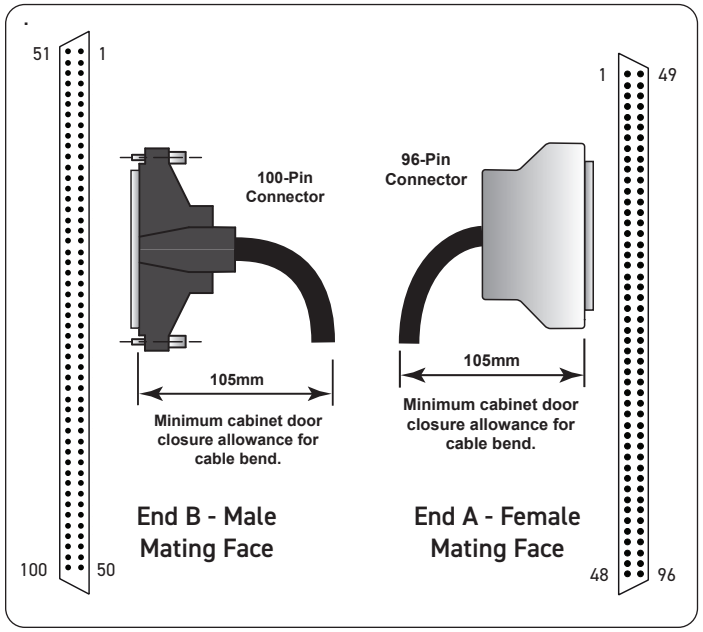
Adaptor Lead - Male to Male

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

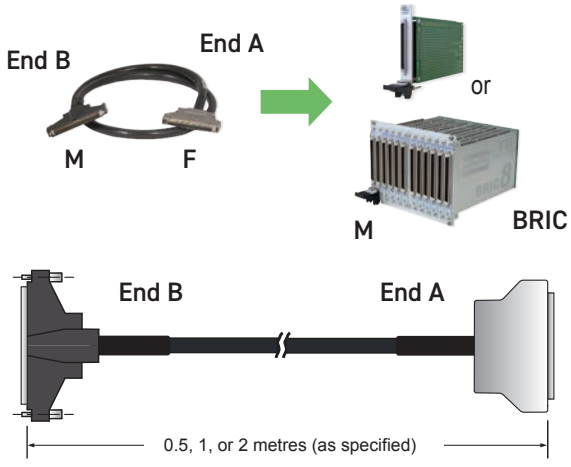


Technical Specification

Connector Type (End A):	96-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Overall Size (Approx)	H78 x W12 x D40mm
Connector Type (End B):	100-Pin 1.27mm Pitch Micro-D
Gender	Male
Securing Method	4-40 UNC Screwlocks, male
Overall Size (Approx)	H85 x W16.5 x D53mm
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MOhm
Connectors:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Cable Type:	Multipaired: 100-Pin twisted pair with varying left and right hand lays to minimise crosstalk
Conductor: Material	Tinned copper
Strands	7/36 (28AWG, 0.38mm O/D)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded Cable screen connected to connectors
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)



Product Compatibility



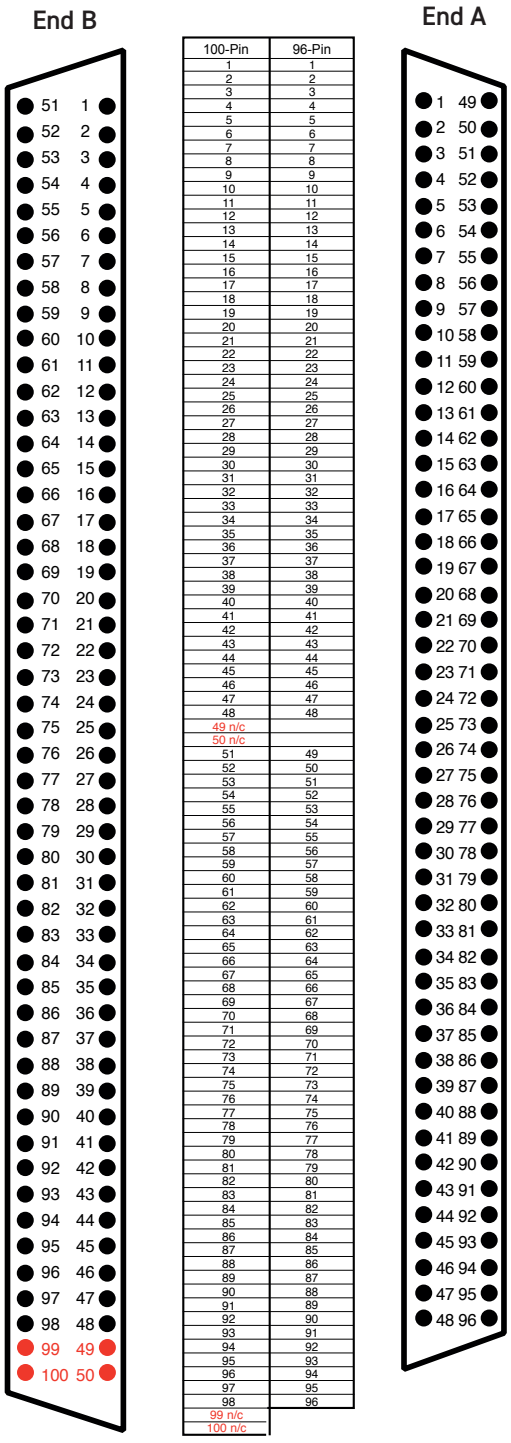
Wiring Schedule information can be found on the following page.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D to 100-Pin 1.27mm Pitch Micro-D Adaptor Lead, 1A, Female to Male,	
0.5m Long	40-973B-096-0.5m-FM
1.0m Long	40-973B-096-1m-FM
2.0m Long	40-973B-096-2m-FM

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

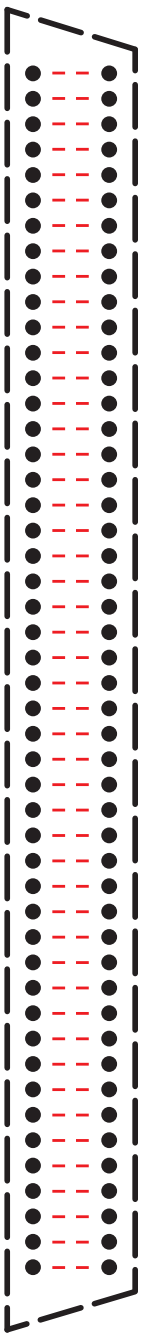
96-Pin 1.27mm Pitch Micro-D (Female) to 100-Pin 1.27mm Pitch Micro-D (Male) Adaptor Lead



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

End A

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



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

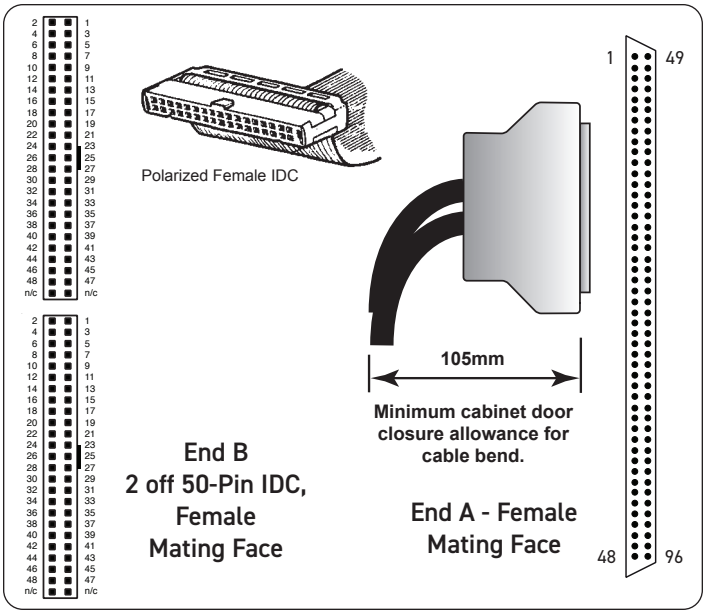
Note 1. – – Denotes Twisted Pairing. i.e. Pins 1 and 49 of the 96-Pin connector use paired wires
2. Pins 49, 50, 99, 100 are not connected on the 100-Pin connector
3. The cable screen is connected to the 96-Pin and 100-Pin connectors

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

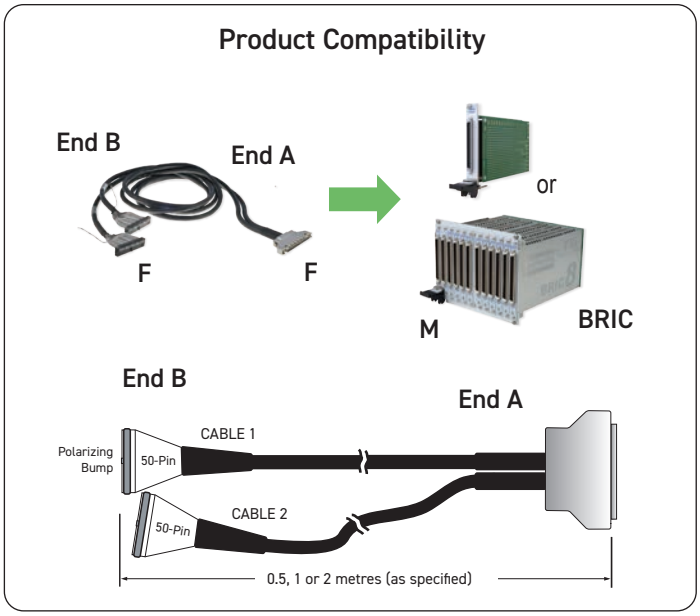
Solutions for connecting to the 50-Pin IDC connector can be found on data sheet 90-004D.

Technical Specification

Connector Type (End A):	96-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H78 x W12 x D40mm
Connector Type (End B):	2 off 50-Pin polarized IDC connectors, 0.1" (2.54mm) pitch
Gender	Female
Securing Method	Used defined
Contact Material	Phosphor bronze with gold flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H17 x W68 x D6mm
Cable Screen Connection	Flying white/black screen pigtails are included
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MOhm
Cable Type:	2 off identified x 50-wire cable,.finishing as ribbon on 1.27mm pitch. Red marking on ribbon edge denotes pin 1.
Conductor: Material & Strands	Tinned Copper, 7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual shielded Cable screens connected to End A backshell
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)







Wiring Schedule information can be found on the following page.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,	
Female to Female, 0.5m Long	**40-971A-096-0.5m-FF**
Female to Female, 1.0m Long	**40-971A-096-1m-FF**
Female to Female, 2.0m Long	**40-971A-096-2m-FF**

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

96-Pin 1.27mm Pitch Micro-D (Female) to 2 x 50-Pin IDC (Female) Cable Assy

End B

CABLE 1

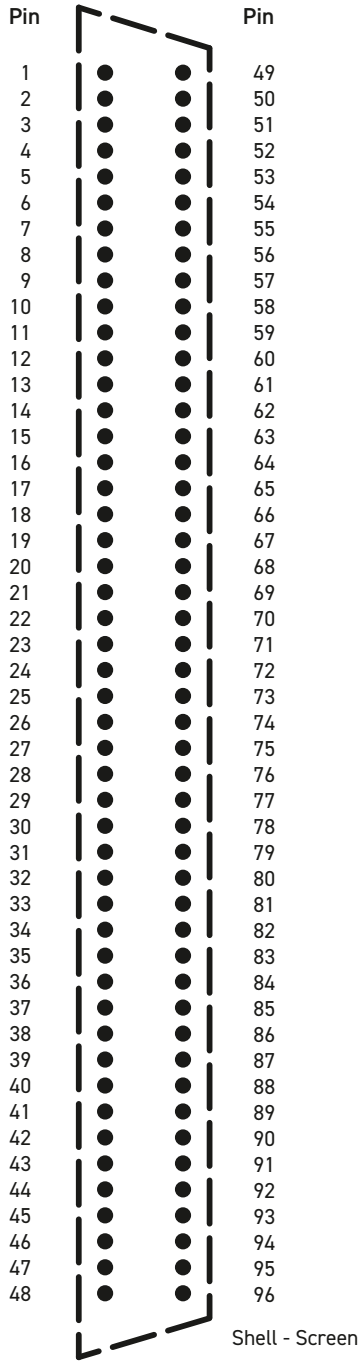
96-Pin Connector Pin No.			96-Pin Connector Pin No.
2	2	1	1
4	4	3	3
6	6	5	5
8	8	7	7
10	10	9	9
12	12	11	11
14	14	13	13
16	16	15	15
18	18	17	17
20	20	19	19
22	22	21	21
24	24	23	23
26	26	25	25
28	28	27	27
30	30	29	29
32	32	31	31
34	34	33	33
36	36	35	35
38	38	37	37
40	40	39	39
42	42	41	41
44	44	43	43
46	46	45	45
48	48	47	47
n/c	n/c	n/c	n/c

CABLE 2

96-Pin Connector Pin No.			96-Pin Connector Pin No
50	2	1	49
52	4	3	51
54	6	5	53
56	8	7	55
58	10	9	57
60	12	11	59
62	14	13	61
64	16	15	63
66	18	17	65
68	20	19	67
70	22	21	69
72	24	23	71
74	26	25	73
76	28	27	75
78	30	29	77
80	32	31	79
82	34	33	81
84	36	35	83
86	38	37	85
88	40	39	87
90	42	41	89
92	44	43	91
94	46	45	93
96	48	47	95
n/c	n/c	n/c	n/c

50-Pin IDC Female Connectors (Mating Face)

End A



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

Note 1. The cable screens are connected to the connector backshell at End A
2. A flying white/black insulated screen pigtail is included at End B for each cable

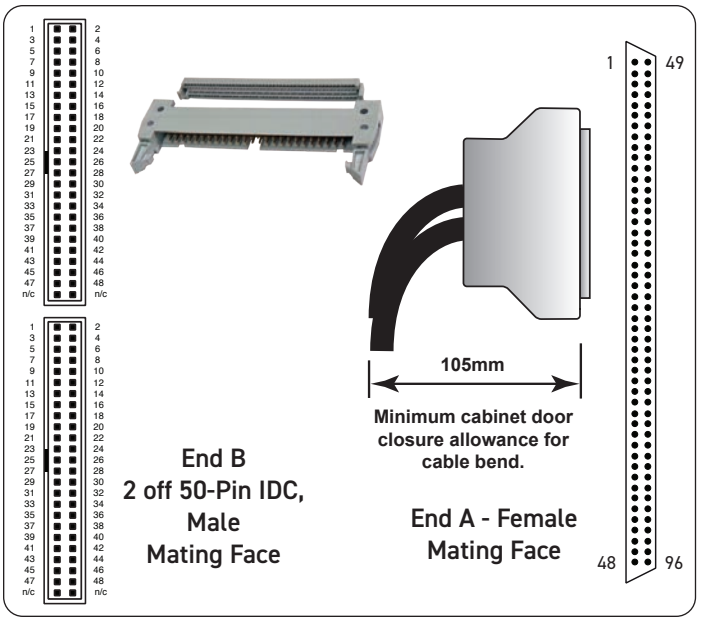
- **High Specification, Highly Flexible Cable**
- **Fully Screened Cable Construction with Strain Relief**
- **96-Pin Connector with Metal Spring Latches**

Solutions for connecting to the 50-Pin IDC connector can be found on data sheet 90-004D.

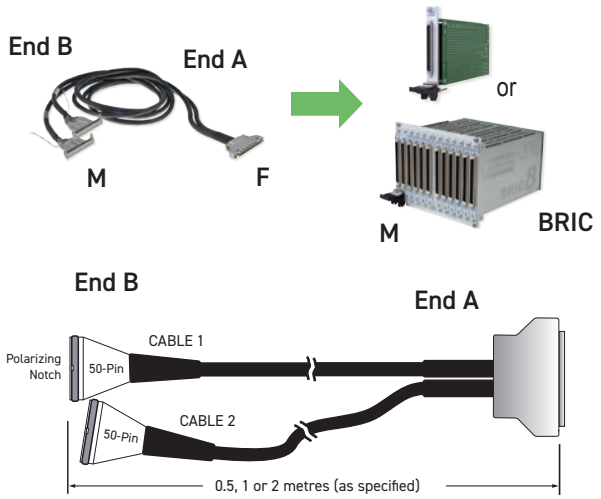


Technical Specification

Connector Type (End A):	96-Pin 1.27mm Pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Cable Exit	Rear
Overall Size (Approx)	H78 x W12 x D40mm
Connector Type (End B):	2 off 50-Pin polarized IDC connectors, 0.1" (2.54mm) pitch
Gender	Male
Securing Method	Used defined
Contact Material	Copper alloy with selective gold flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H30.4 x W82.3 x D8mm
Cable Screen Connection	Flying white/black screen pigtails are included
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MOhm
Cable Type:	2 off identified x 50-wire cable,.finishing as ribbon on 1.27mm pitch. Red marking on ribbon edge denotes pin 1.
Conductor: Material & Strands	Tinned Copper, 7/36 (28AWG)
Resistance	0.2Ω/m
Insulation	PVC
Outer Sleeve	PVC
Screened Construction	Dual shielded Cable screens connected to End A backshell
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)



Product Compatibility



Wiring Schedule information can be found on the following page.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,	
Female to Male, 0.5m Long	**40-971A-096-0.5m-FM**
Female to Male, 1.0m Long	**40-971A-096-1m-FM**
Female to Male, 2.0m Long	**40-971A-096-2m-FM**

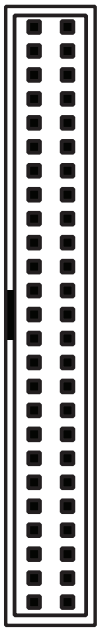
Note: Please ensure the correct connector gender is ordered for the application.

96-Pin 1.27mm Pitch Micro-D (Female) to 2 x 50-Pin IDC (Male) Cable Assy

End B

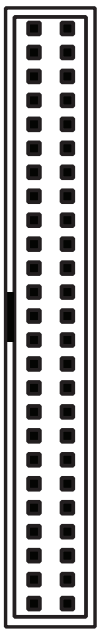
CABLE 1

96-Pin Connector Pin No			96-Pin Connector Pin No.
1	1	2	2
3	3	4	4
5	5	6	6
7	7	8	8
9	9	10	10
11	11	12	12
13	13	14	14
15	15	16	16
17	17	18	18
19	19	20	20
21	21	22	22
23	23	24	24
25	25	26	26
27	27	28	28
29	29	30	30
31	31	32	32
33	33	34	34
35	35	36	36
37	37	38	38
39	39	40	40
41	41	42	42
43	43	44	44
45	45	46	46
47	47	48	48
n/c	n/c	n/c	n/c



CABLE 2

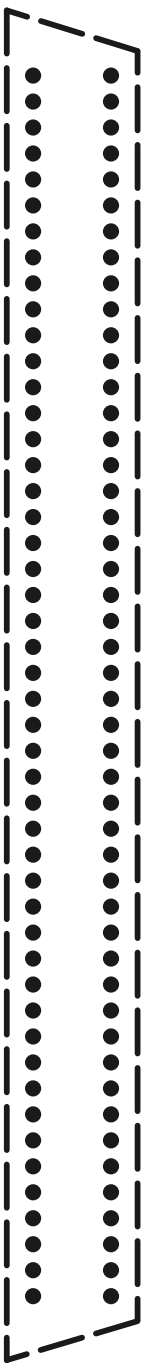
96-Pin Connector Pin No			96-Pin Connector Pin No.
49	1	2	50
51	3	4	52
53	5	6	54
55	7	8	56
57	9	10	58
59	11	12	60
61	13	14	62
63	15	16	64
65	17	18	66
67	19	20	68
69	21	22	70
71	23	24	72
73	25	26	74
75	27	28	76
77	29	30	78
79	31	32	80
81	33	34	82
83	35	36	84
85	37	38	86
87	39	40	88
89	41	42	90
91	43	44	92
93	45	46	94
95	47	48	96
n/c	n/c	n/c	n/c



50-Pin IDC Male Connectors (Mating Face)

End A

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



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

Note 1. The cable screens are connected to the connector backshell at End A
2. A flying white/black insulated screen pigtail is included at End B for each cable

- **Connector and 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.

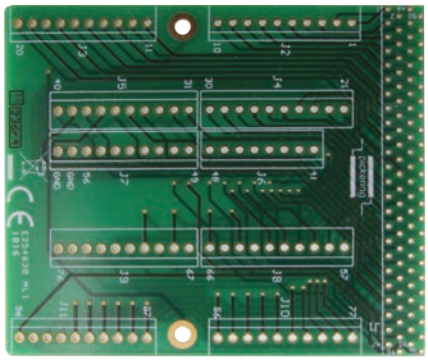
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

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

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

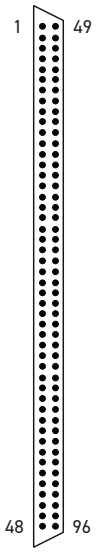
Technical Specification

Connector Type:	96-Pin 1.27mm 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	200V DC
Cable Exit	Rear - 10 x 30mm
Overall Size (Approx)	H86 x W18 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)



PCB Legend





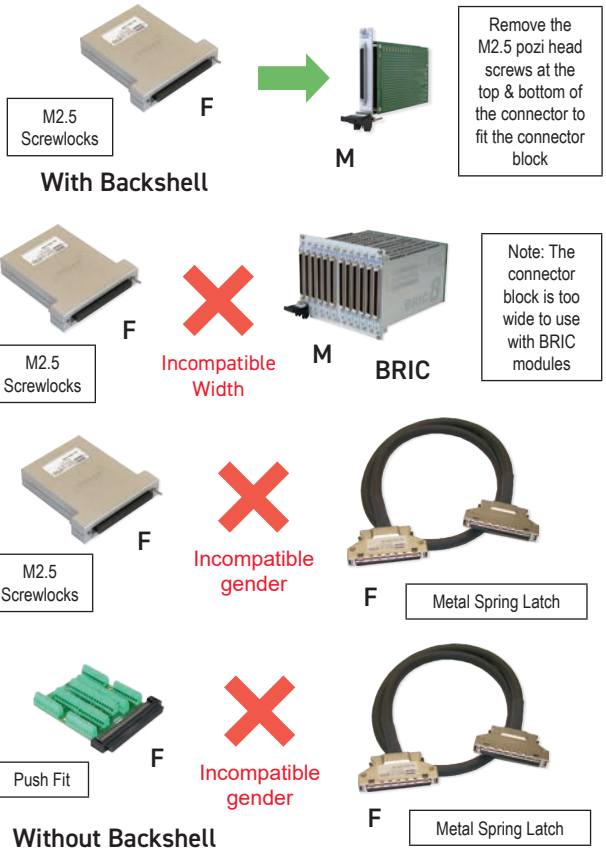
Female Mating Face

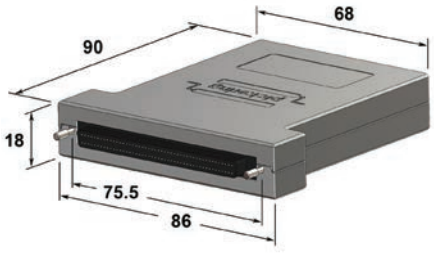


OR

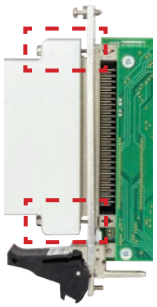


Product Compatibility





Connector Block Dimensions



Securing the Connector Block

Product Order Codes

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

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

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

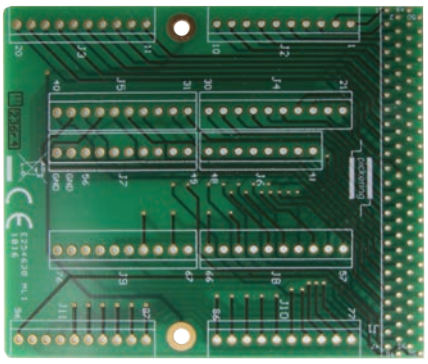
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

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

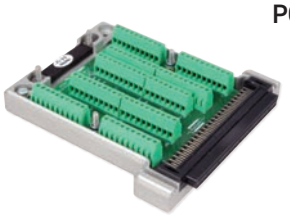


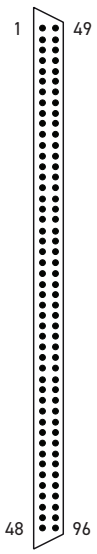
Technical Specification

Connector Type:	96-Pin 1.27mm 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	200V DC
Cable Exit	Rear - 9.5 x 30mm
Overall Size (Approx)	H86 x W12.3 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE
Additional Cable Clamp	Yes (in backshell)



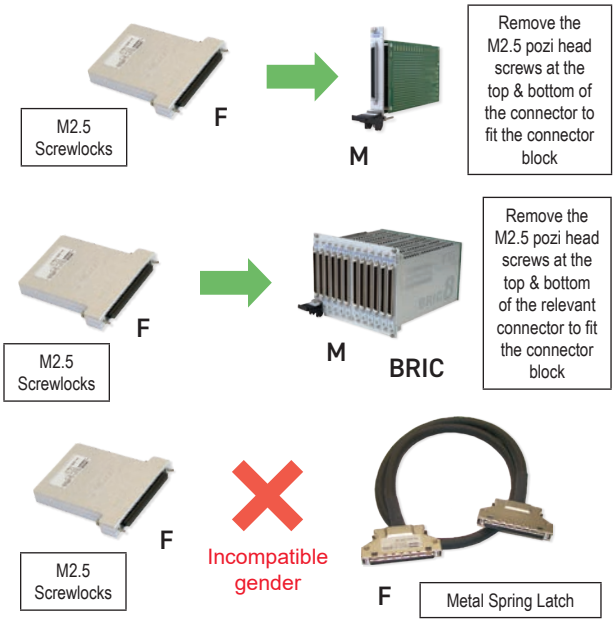
PCB Legend

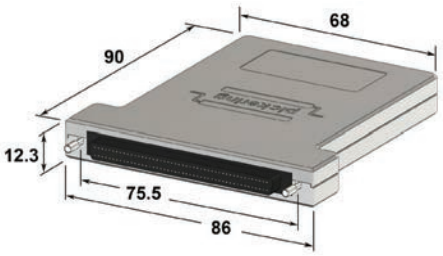




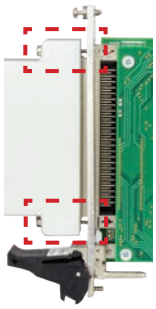
Female Mating Face

Product Compatibility





Connector Block Dimensions



Securing the Connector Block

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block for BRIC Modules, 1A, With Backshell, Female	44-965-096-F

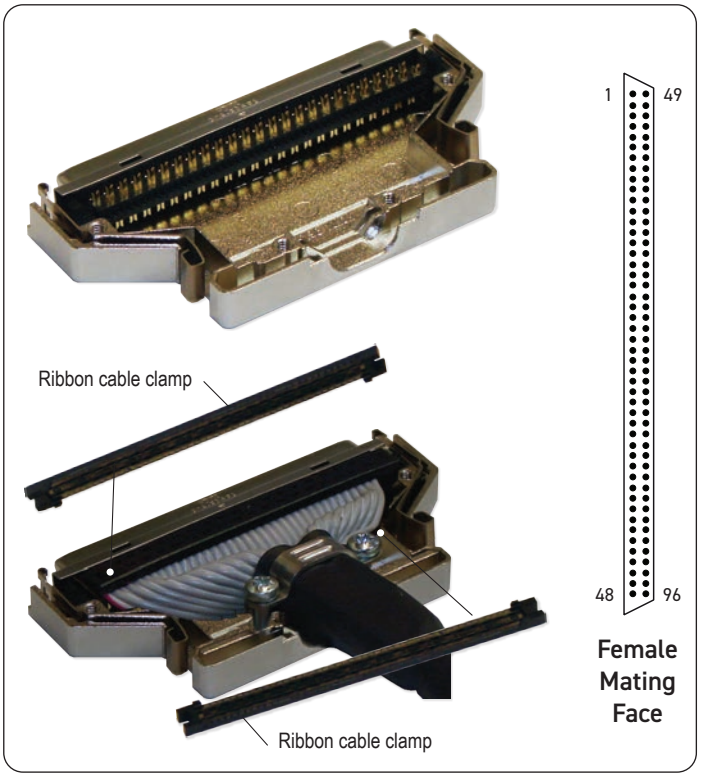
- **Connector and Backshell**
- **Metal Spring Latches**
- **IDC for Ribbon Cable**
- **Cable Clamp in Backshell**

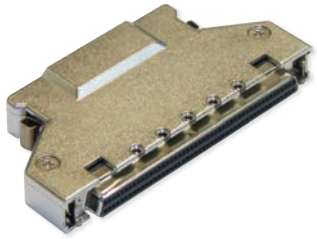
This accessory is designed to allow users to directly terminate a ribbon cable to the connector.

It is difficult to terminate cable to the 96-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

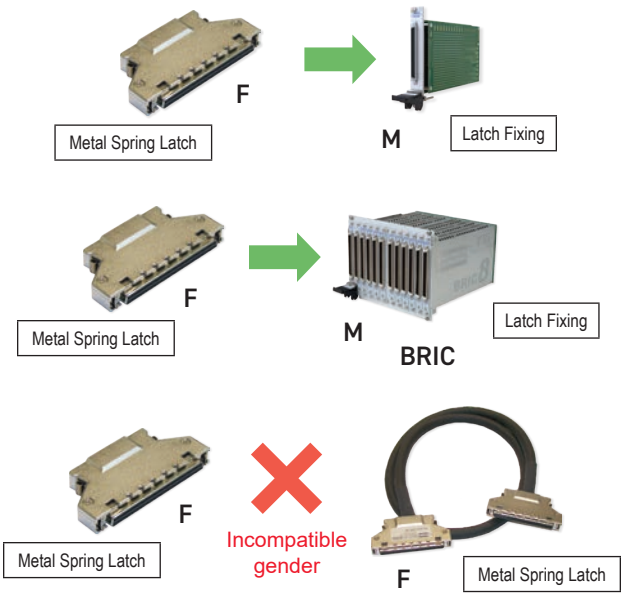
Technical Specification

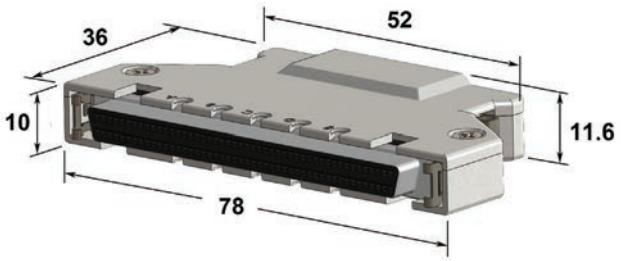
Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC for ribbon cable
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250V AC
Cable Exit	Rear - 13 x 7.5mm
Overall Size (Approx)	H78 x W12 x D40mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
IDC:	
Maximum Wire Size	28AWG
Recommended Insulation	Ribbon cable, 96-Pin round & flat, 0.635mm pitch
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for the cable screen





Product Compatibility





Connector Dimensions

Product Order Codes

96-Pin 1.27mm 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.

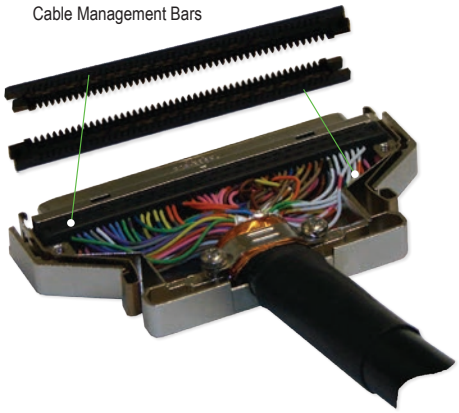
- **Connector and Backshell**
- **Metal Spring Latches**
- **IDC for Discrete Wires**
- **Cable Clamp in Backshell**

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

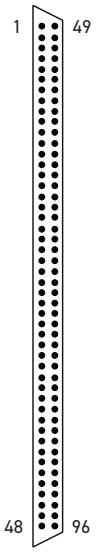
It is difficult to terminate cable to the 96-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommend the use of purchased cable assemblies for applications where most or all of the contacts are in use.

Technical Specification

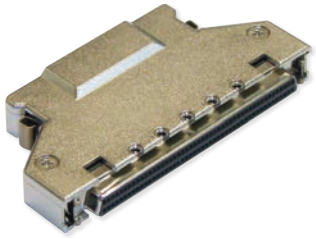
Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC for discrete wire
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250V AC
Cable Exit	Rear - 13 x 7.5mm
Overall Size (Approx)	H78 x W12 x D40mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
IDC:	
Maximum Wire Size	28AWG
Recommended Insulation	Multicore 96-Pin or single core
Additional Cable Clamp	Yes (in backshell). This clamp can also be used as a connection for the cable screen



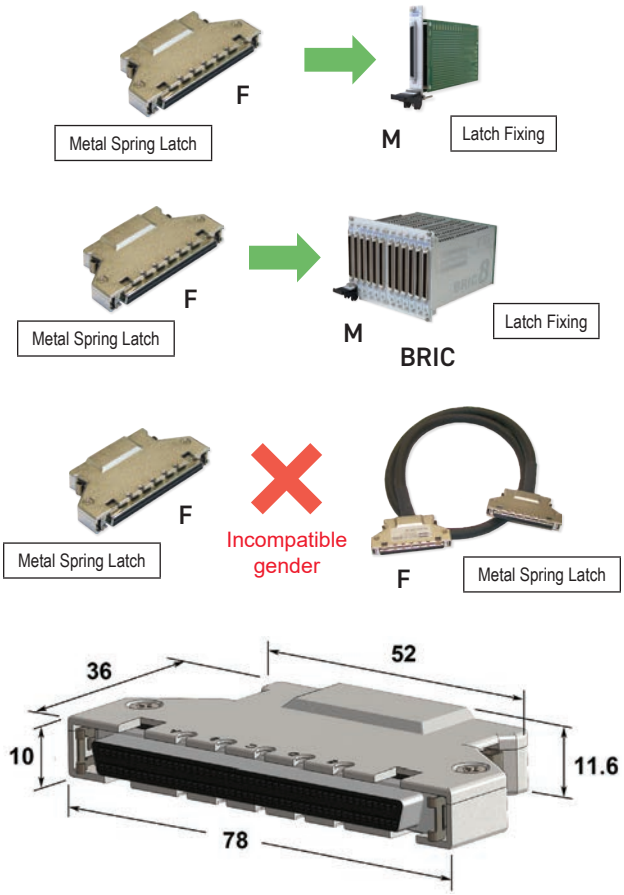
Internal View



Female Mating Face



Product Compatibility



Connector Dimensions

Product Order Codes

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

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

Connector Block - Male

- **Connector and 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.

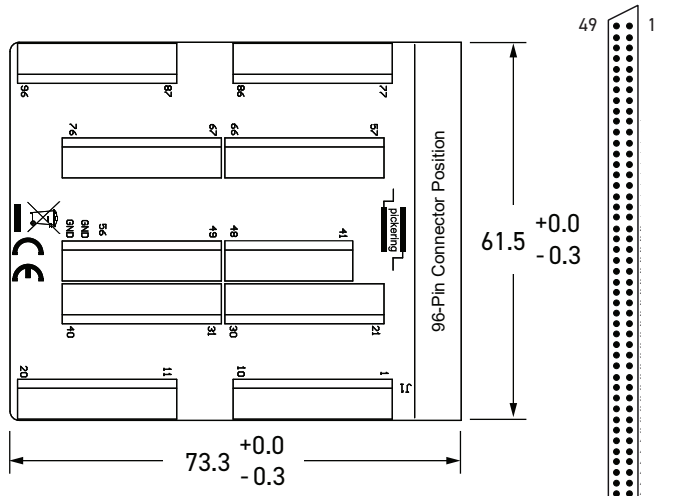
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

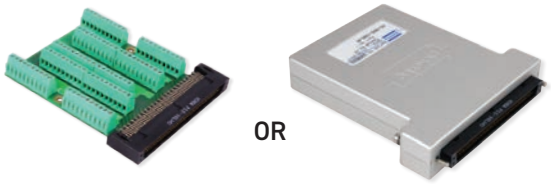
When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

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

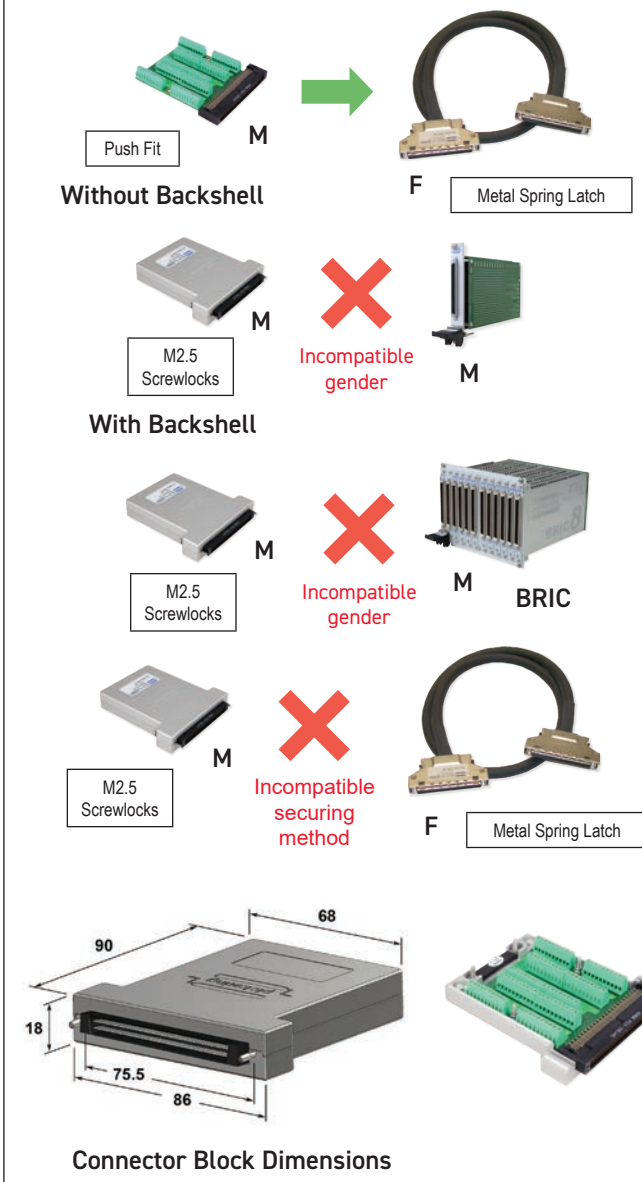
Technical Specification

Connector Type:	96-Pin 1.27mm 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	200V DC
Cable Exit	Rear - 10 x 30mm
Overall Size (Approx)	H86 x W18 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)





Product Compatibility

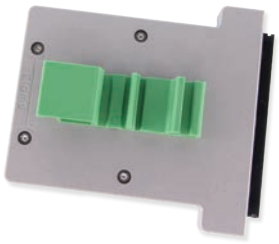


Product Order Codes

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

Connector Block - Male

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

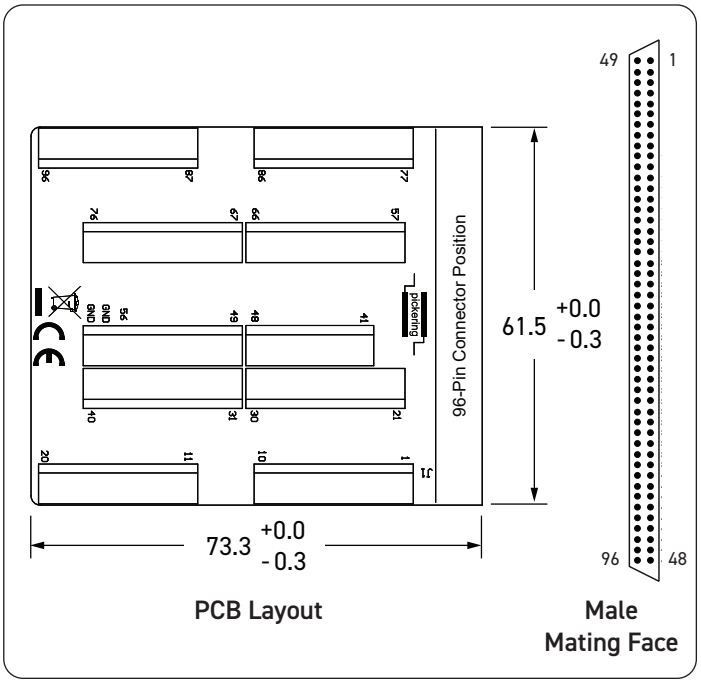


Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 96-Pin 1.27mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board. Latch clips are supplied in order to provide strain relief between the connector and the cable.

Technical Specification

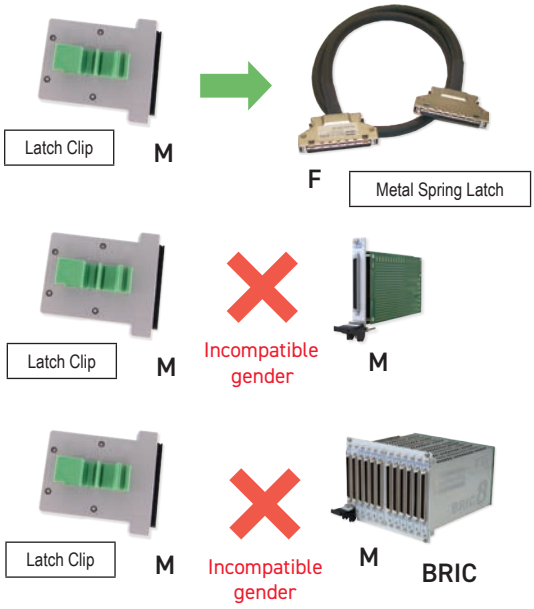
Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Latch clip
Wire Connection	Rising cage screw terminals Screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit	Rear - 10 x 30mm
Overall Size (Approx)	H86 x W18 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)

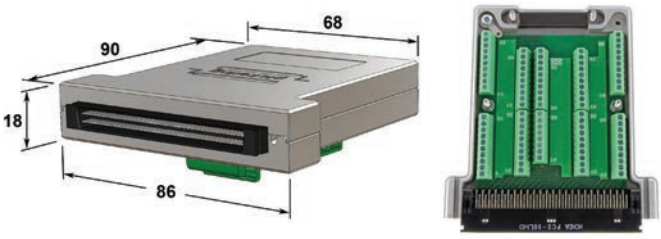


PCB Layout

Male Mating Face

Product Compatibility





Connector Block Dimensions

Product Order Codes

96-Pin 1.27mm 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**

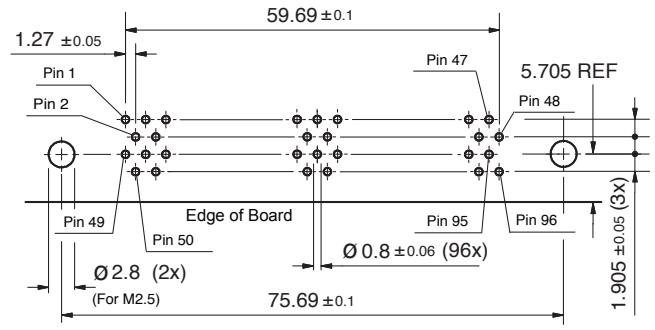
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

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

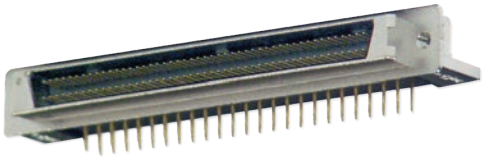
Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Latch clip and M2.5 screwlocks, female
PCB Mounting	Right angle PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length	3.4mm nom (See diagram)

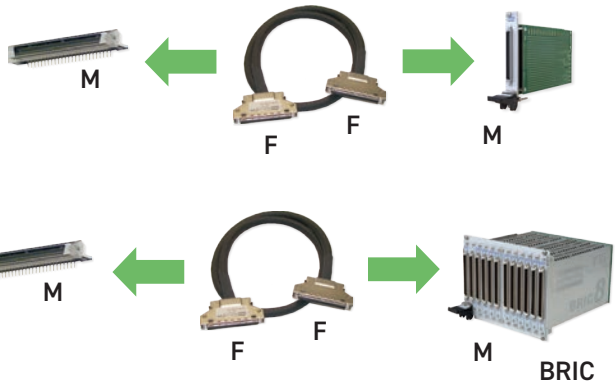
Note: Connector dimensional drawings can be found on the following page.

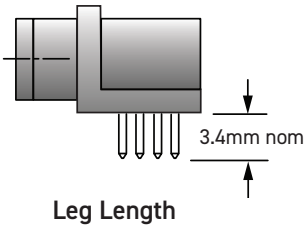


PCB Footprint of 96-Pin Right Angle Male Connector (Connector Side - Not to Scale)

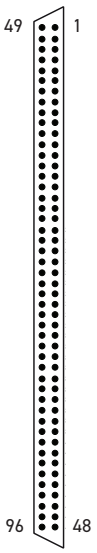


Product Compatibility





Leg Length



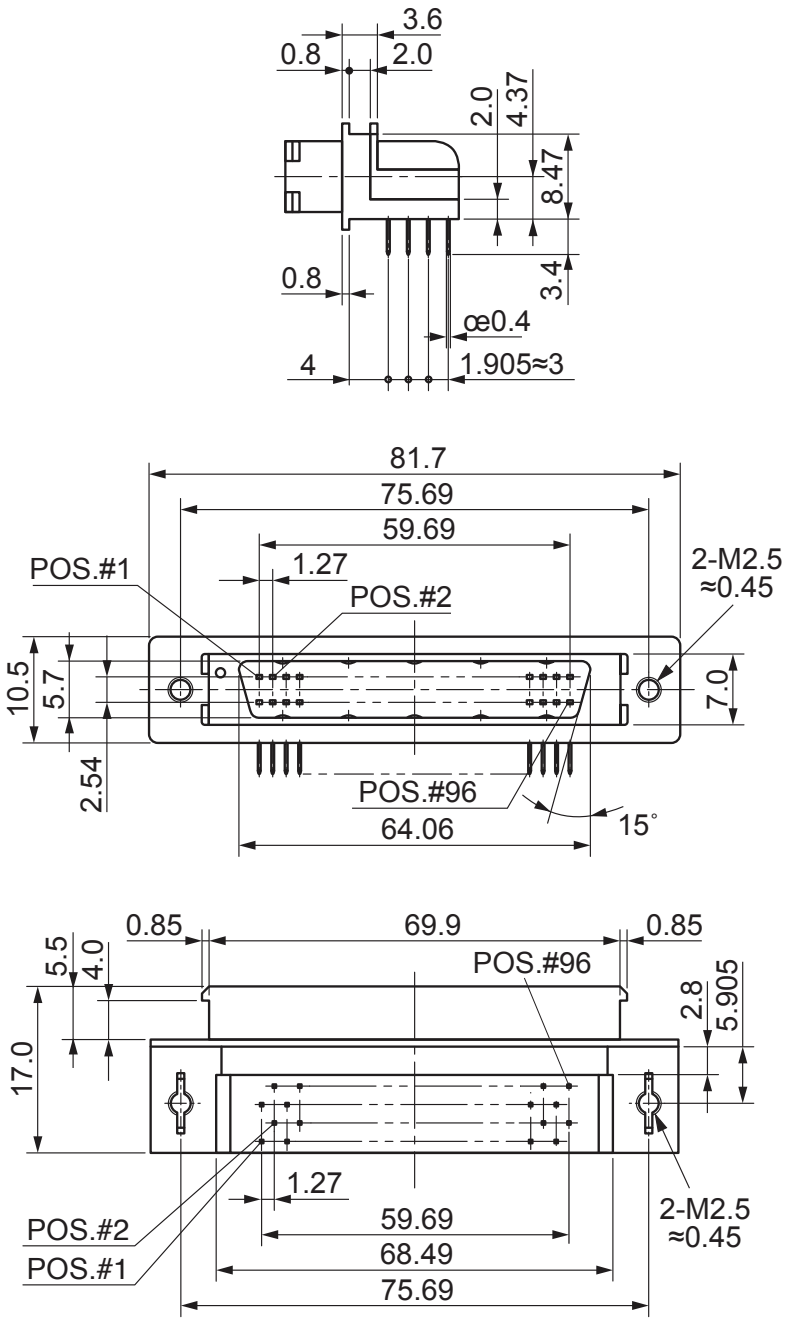
Male Mating Face

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount, Male	**40-963-096-RM**

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

Connector Dimensions



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

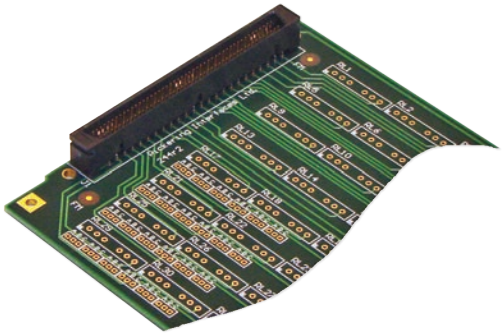
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

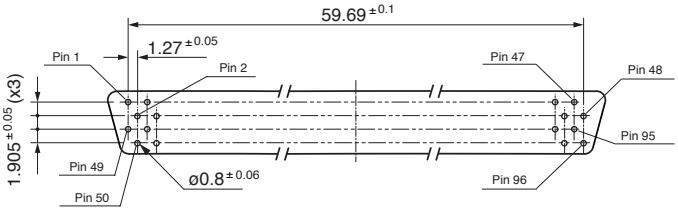
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

Technical Specification

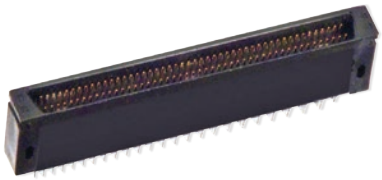
Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Latch clip
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length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

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

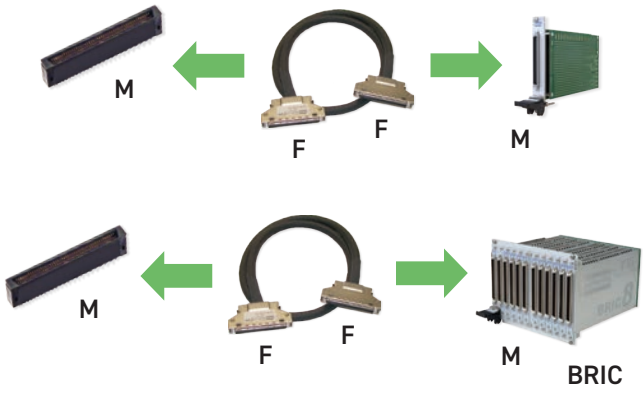


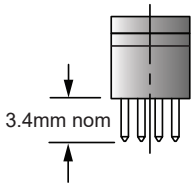


PCB Footprint of 96-Pin Straight Male Connector
(Connector Side - Not to Scale)

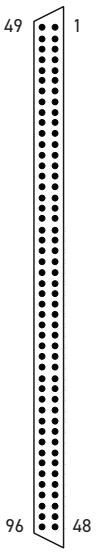


Product Compatibility





Leg Length



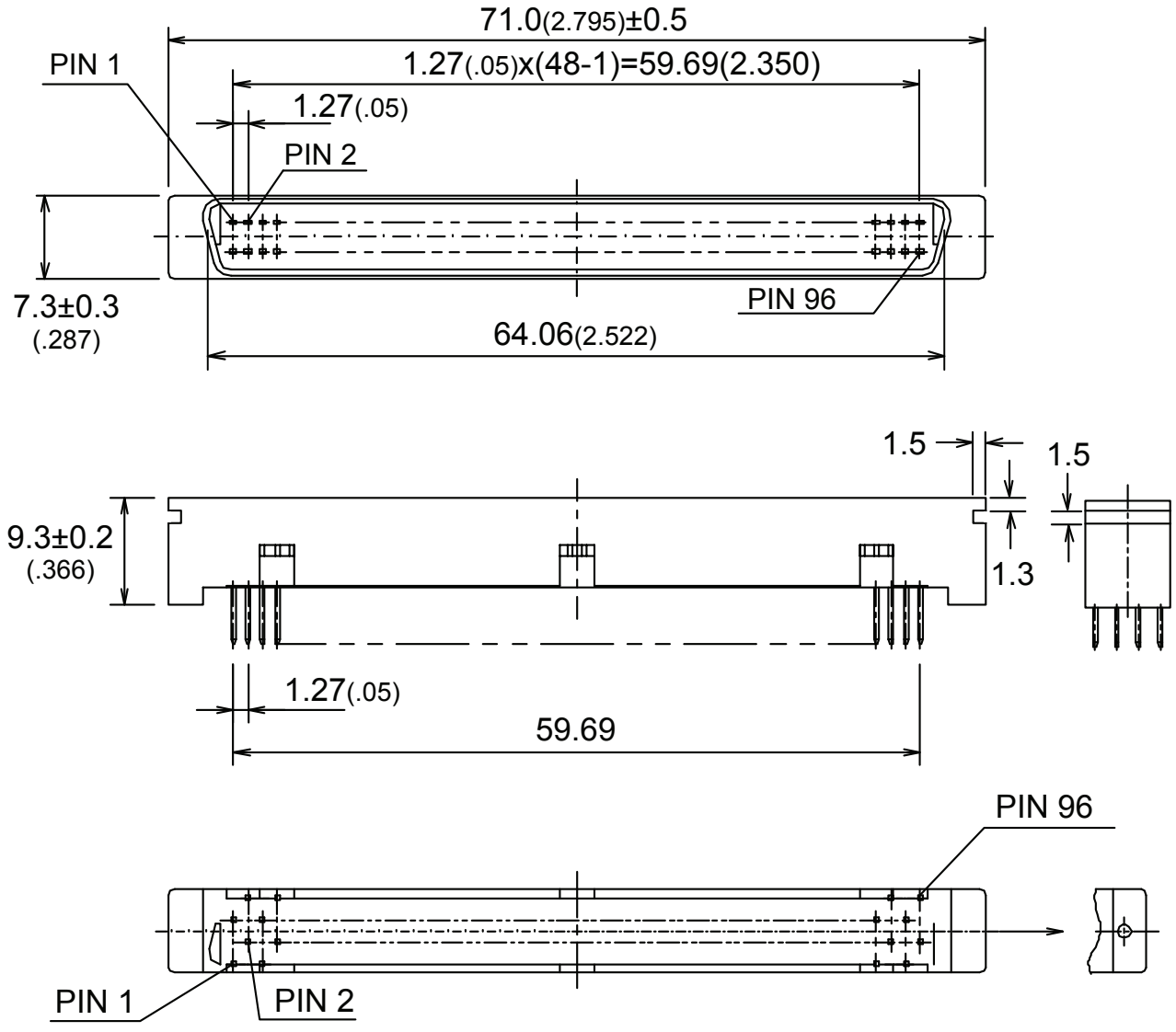
Male
Mating Face

Product Order Codes

96-Pin 1.27mm 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.

Connector Block - Female

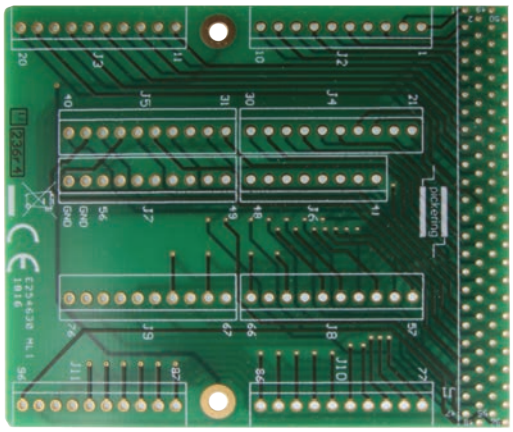
- **For Connection at Cable End**
- **DIN Rail Mounted**
- **Easy to Use Rising Cage Screw Terminals**

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

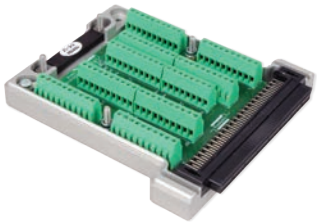
Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 96-Pin 1.27mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board. Latch clips are supplied in order to provide strain relief between the connector and the cable.

Technical Specification

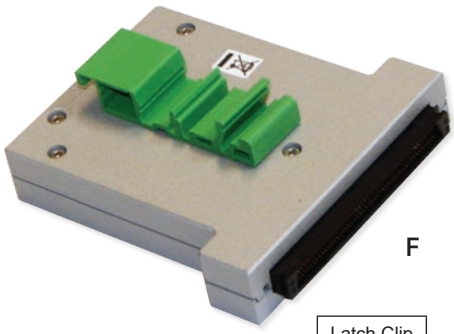
Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Latch clip
Wire Connection	Rising cage screw terminals Screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit	Rear - 10 x 30mm
Overall Size (Approx)	H86 x W18 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)



PCB Layout

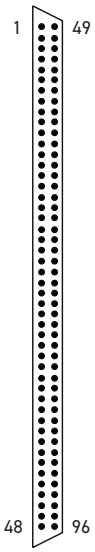


This Connector is Not Suitable for Connection to a Pickering Switching Product

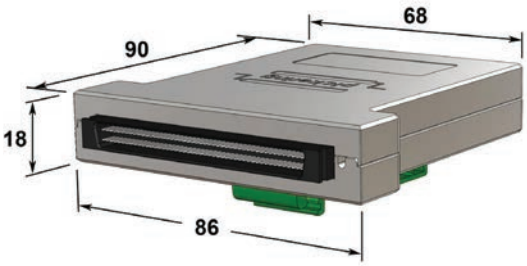


F

Latch Clip



Female Mating Face



Connector Block Dimensions

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, With Backshell, Female	40-966-096-F

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

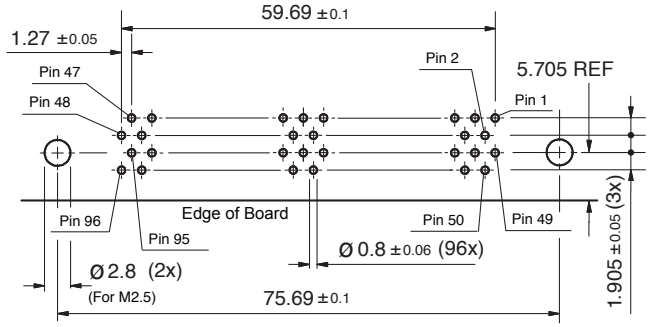
- **Right Angle PCB Mount**
- **M2.5 Screwlocks**
- **Ideal for User Created Termination Solutions**

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

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

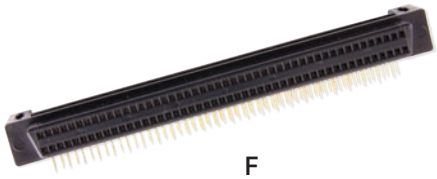
Technical Specification

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

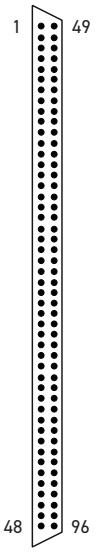


PCB Footprint of 96-Pin Right Angle Female Connector (Connector Side - Not to Scale)

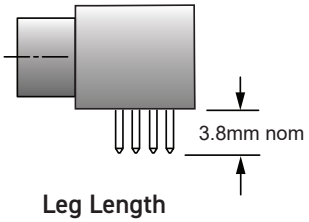
This Connector is Not Suitable for Connection to a Pickering Switching Product



F



Female Mating Face



Leg Length

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount, Female	**40-963-096-RF**

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

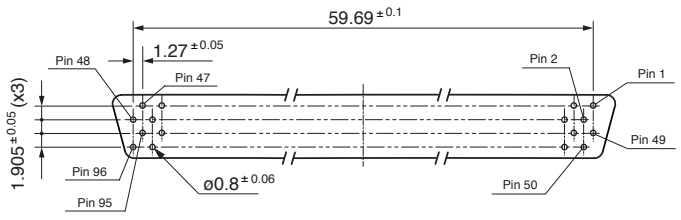
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

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

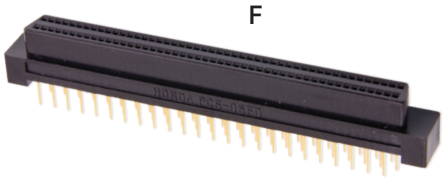
Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Push fit
PCB Mounting	Straight PCB mount, solder
Connector Ratings:	
Maximum Current	1A each pin
Maximum Voltage	250V AC
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
PCB Legs:	
Leg Length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

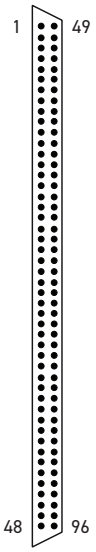


PCB Footprint of 96-Pin Straight Female Connector
(Connector Side - Not to Scale)

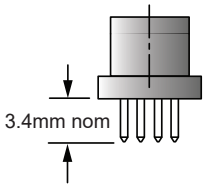
This Connector is Not Suitable for Connection to a Pickering Switching Product

F





Female Mating Face



Leg Length

Product Order Codes

96-Pin 1.27mm 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.

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

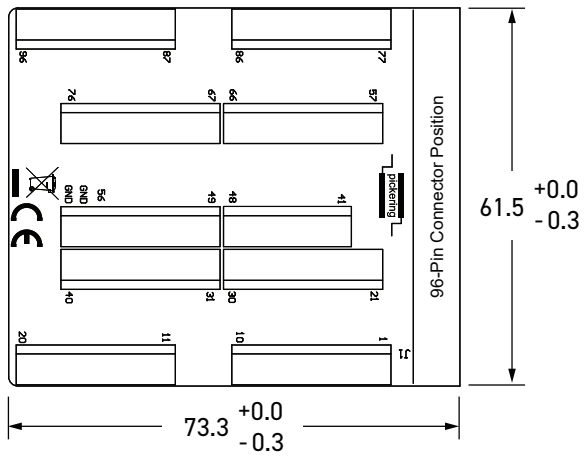
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

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

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

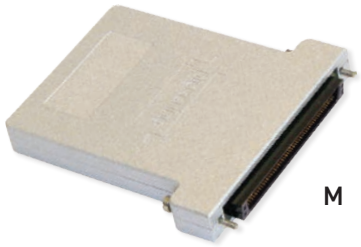
Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method:	
Product with Backshell	M2.5 screwlocks, male
Wire Connection	Rising cage screw terminals Screen (GND) connections are provided
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit	Rear - 9.5 x 30mm
Overall Size (Approx)	H86 x W12.3 x D95mm
96-Pin Micro-D:	
Contact Material	Gold plated copper alloy
Contact Resistance	<35mOhm
Screw Terminals:	
Maximum Wire Size	20AWG
Recommended Insulation	PTFE type
Additional Cable Clamp	Yes (in backshell)



PCB Layout

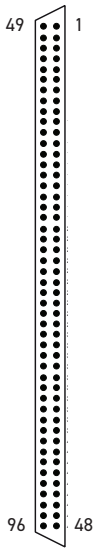
This Connector is Not Suitable for Connection to a Pickering Switching Product



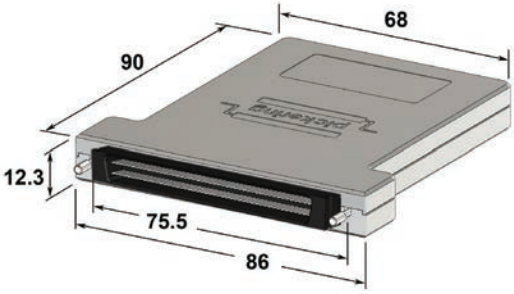
M

M2.5 Screwlocks





Male Mating Face



Connector Block Dimensions

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block, 1A, With Backshell, Male	44-965-096-M

Appendix

This appendix gives details of recent product revisions

ECN1641 Dated 1st November 2021			
This Change Note covered changes to the wire type used within cable assemblies 40-971-096-*m-FF and 40-971-096-*m-FM. The existing wire had become unavailable. Items that changed and the corresponding updated part numbers are detailed below:			
Product changes in data sheet order		**Data Sheet 90-002D Issue 10.1 Dec 2020**	**Data Sheet 90-002D Issue 10.2 Nov 2021**
		Product Part Numbers	**Product Part Numbers**
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D, Female to 2 x 50-Pin Ribbon, Female, 1A	40-971-096-*m-FF	40-971A-096-*m-FF
	Cable Assy, 96-Pin 1.27mm Pitch Micro-D, Female to 2 x 50-Pin Ribbon, Male, 1A	40-971-096-*m-FM	40-971A-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.

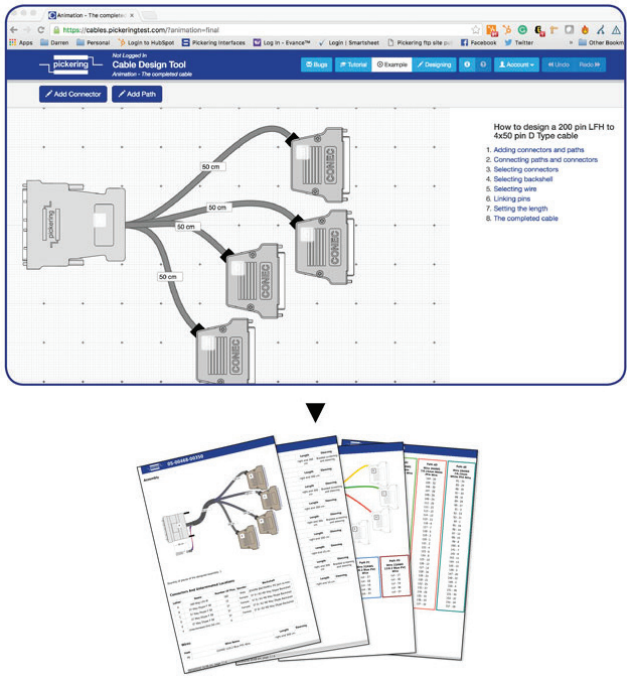
We offer a fast turn round of custom items to keep your ordering and integration time scales to a minimum.



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

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