96-Pin 1.27mm Pitch Micro-D Connector Accessories

Note: This connector was originally referred to a '96 Pin SCSI Style Micro D Connector'

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

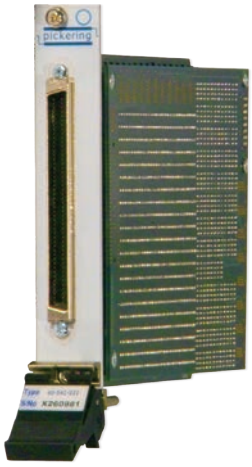
The 96-Pin 1.27mm Pitch Micro-D connector is used on PXI switching products to provide a high density 1A connector solution that is suitable for use to 150Vdc. Pickering Interfaces has developed a full range of standard connection solutions to simplify the task of integrating products into a test system. The high density and skill levels involved in terminating this connector means that we do strongly recommend that users use Pickering Interfaces solutions.

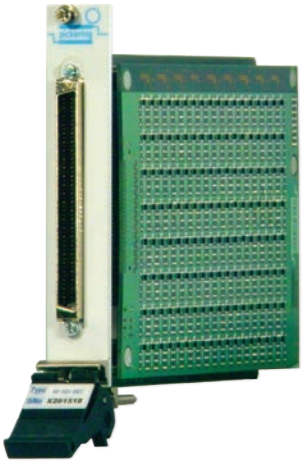
Connector to Connector cable assemblies provide a simple way of connecting the product to the user's remote matching connection. Solutions for connecting 50-Pin ribbon cable headers are also available. Cable assemblies are offered in various lengths to match most user requirements.

For unterminated versions of cables we offer options based on the use of boot lace ferrules, tinned copper ends or simple cut ends to suit user termination requirements.

For users wishing to develop their own cabling solutions, we offer mating connectors and connector hoods which allow users to create either their own cable based solutions, or a PCB header solution. Connector Blocks directly terminate the module connector and convert the connection to arrays of screw terminal blocks, or users can select to use a remote DIN rail mounted breakout to terminate the cables at the end of a cable assembly.

Pickering Interfaces can manufacture custom connector accessories to suit any application, if you do not see what you need then contact your Pickering Interfaces sales office with information on your requirements and let us solve your connection problems.





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Part Number Listing for all 96-Pin 1.27mm Pitch Micro-D Connection Accessories

Cables: 96-Pin 1.27mm Pitch Micro-D Connector to Connector						
End 1	End 2	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
Type (inc Fixings)	Type (inc Fixings)	0.5m Long	1m Long	2m Long		
96-Pin Micro-D, Female, (Metal Spring Latch)	96-Pin Micro-D, Female, (Metal Spring Latch)	40-970B-096-0.5m-FF	40-970B-096-1m-FF	40-970B-096-2m-FF	Yes	5
96-Pin Micro-D, Female, (Metal Spring Latch)	100-Pin Micro-D, Male, (4-40 UNC Screwlocks)	40-973B-096-0.5m-FM	40-973B-096-1m-FM	40-973B-096-2m-FM	Yes	9
96-Pin Micro-D, Female, (Metal Spring Latch)	2 x 50-Pin Ribbon, Female, (Push Fit)	40-971-096-0.5m-FF	40-971-096-1m-FF	40-971-096-2m-FF	Yes	11
96-Pin Micro-D, Female, (Metal Spring Latch)	2 x 50-Pin Ribbon, Male, (Push Fit)	40-971-096-0.5m-FM	40-971-096-1m-FM	40-971-096-2m-FM	Yes	13

Cables: 96-Pin 1.27mm Pitch Micro-D Connector to Unterminated						
End 1 (inc Screwlocks)	End 2 Unterminated Options	Product Order Code/Part Number			Mates with a Pickering Switching Product	Data Sheet Page
		0.5m Long	1m Long	2m Long		
96-Pin Micro-D, Female, (Metal Spring Latch)	Ferrules	A096SFR-F-5A050	A096SFR-F-5A100	A096SFR-F-5A200	Yes	7
	Tinned	A096SFR-T-5A050	A096SFR-T-5A100	A096SFR-T-5A200		
	Cut End	40-972B-096-0.5m-FU	40-972B-096-1m-FU	40-972B-096-2m-FU		

Connector Blocks: 96-Pin 1.27mm Pitch Micro-D				
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
	With Backshell	Without Backshell		
Connector Block, Female (M2.5 Screwlocks, Male)	40-965-096-F	92-965-096-F	Yes (PXI Modules)	15
Connector Block - BRIC, Female (M2.5 Screwlocks, Male)	44-965-096-F	N/A	PXI Modules and BRIC	16
Connector Block, Male (M2.5 Screwlocks, Male)	40-965-096-M	92-965-096-M	No	19
Connector Block, Male, DIN Rail (Latch Clip)	40-966-096-M	N/A	No	20
Connector Block, Female, DIN Rail (Latch Clip)	40-966-096-F	N/A	No	24
Connector Block, Male, (M2.5 Screwlocks, Male)	44-965-096-M	N/A	No	27

Cable Connectors: 96-Pin 1.27mm Pitch Micro-D				
Type (inc Screwlocks)	Product Order Code/Part Number		Mates with a Pickering Switching Product	Data Sheet Page
	With Backshell	Without Backshell		
Cable Connector, Female, IDC for Ribbon Cable (Metal Spring Latch)	40-961-096-F	N/A	Yes	17
Cable Connector, Female, IDC for Discrete Wire (Metal Spring Latch)	40-962-096-F	N/A	Yes	18

PCB Connectors: 96-Pin 1.27mm Pitch Micro-D						
Type	Mount	Gender	Fixing	Product Order Code /Part Number	Mates with a Pickering Switching Product	Data Sheet Page
PCB Connector	Right Angle PCB Mount	Female	M2.5, Female	40-963-096-RF	No	25
		Male	M2.5, Female and Latch Clip	40-963-096-RM	Yes (Via a cable)	21
	Straight PCB Mount	Female	Push Fit	40-963-096-SF	No	26
		Male	Latch Clip	40-963-096-SM	Yes (Via a cable)	22

Contents - Mating Accessories for Pickering Products

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

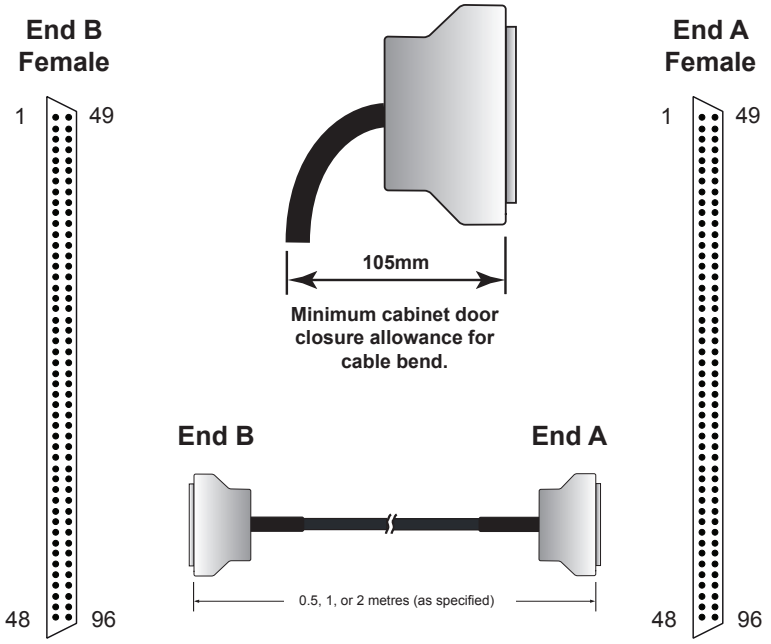
Contents - Mating Accessories for Pickering Products (Continued)

Contents - AdditionalAccessories

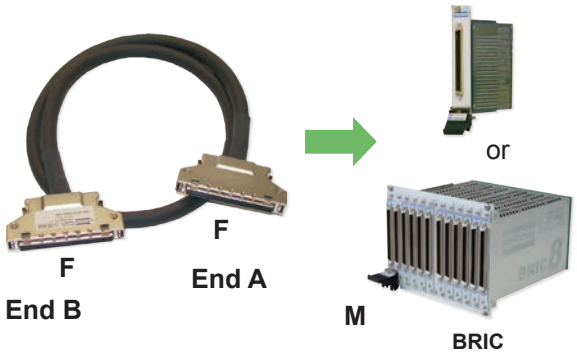
Although these items do not directly mate with Pickering Interfaces products customers may find them useful in the development of their own connection solutions.

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

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



Wiring Schedule information can be found on the next page of this document.

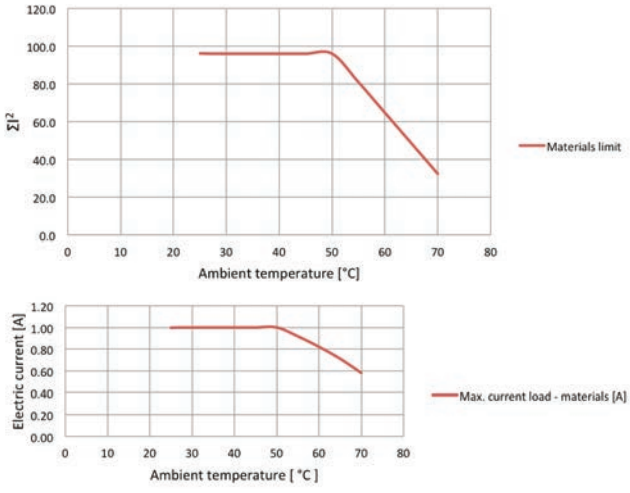


Technical Specification

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
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
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 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:
Other cable lengths can be supplied.

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



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

The bottom graph shows 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 Order Codes

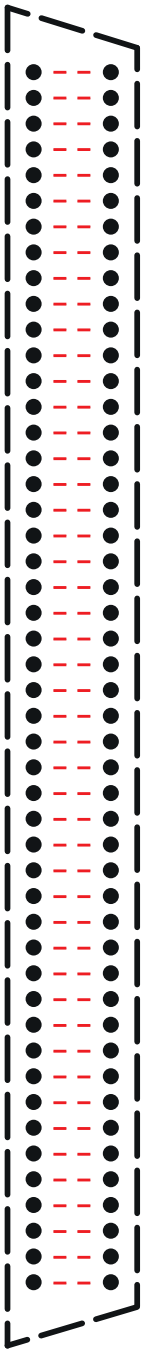
96-Pin 1.27mm Pitch Micro-D Cable Assy, 1A,	
Female to Female, 0.5m Long	40-970B-096-0.5m-FF
Female to Female, 1.0m Long	40-970B-096-1m-FF
Female to Female, 2.0m Long	40-970B-096-2m-FF

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

Wiring Schedule for 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

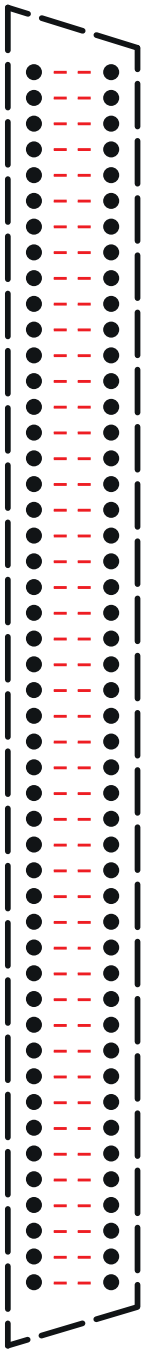


96-Pin 1.27mm Pitch Female Connector (Mating Face)

– – Denotes Twisted Pairing i.e. Pins 1 and 49 use paired wires

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



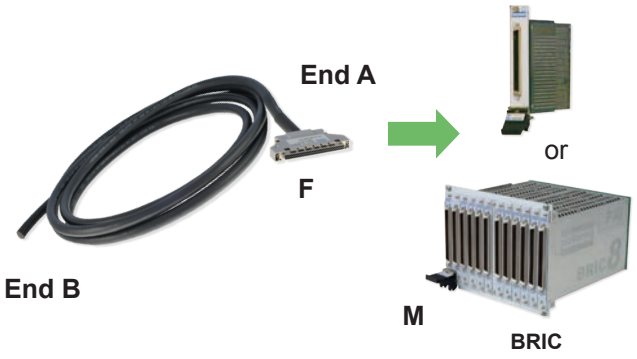
96-Pin 1.27mm Pitch Female Connector (Mating Face)

– – Denotes Twisted Pairing i.e. Pins 1 and 49 use paired wires

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

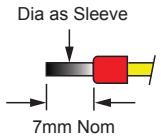
- **High Specification and Highly Flexible Cable**
- **Metal Spring Latches**
- **Strain Relief**
- **Fully Screened Cable Construction**
- **Wires Color Coded to Ensure Easy Connection**

When using this product please ensure appropriate electrical safety precautions are observed.



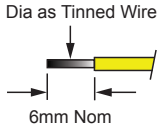
End B Options

Ferrules

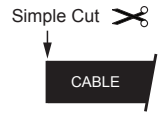


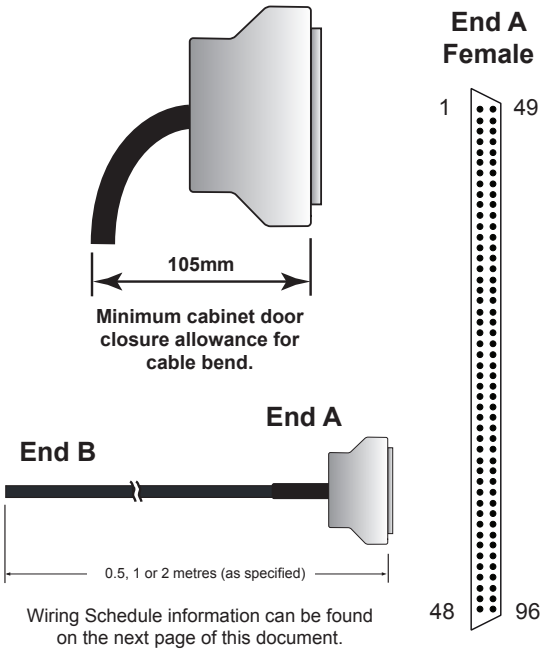
Soldered or Crimped Construction

Tinned End



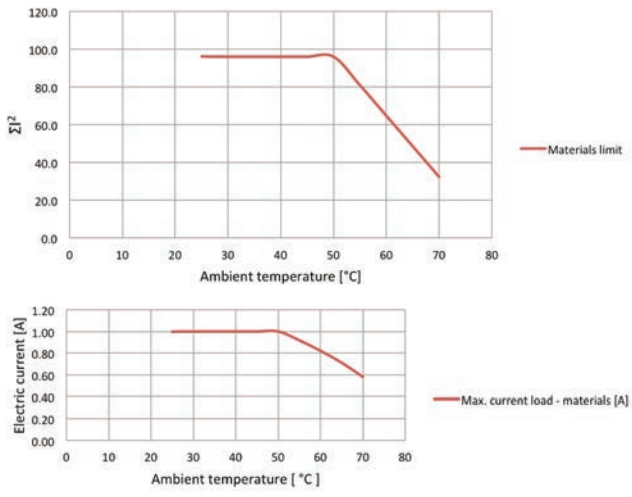
Cut End





Wiring Schedule information can be found on the next page of this document.

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



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

The bottom graph shows 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.

Technical Specification

Connector Type (End A):	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Metal spring latch
Unterminated End (End B):	
Free Wire Length	130mm nom (Not Cut end)
Individual Wire Labelling	To connector pins
Wire End Options	Ferrules, Tinned, Cut End
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
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 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual Shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:
Other cable lengths can be supplied.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Cable Assy, 1A, Metal Latch,

Fem to Unterminated, Cut End, 0.5m	40-972B-096-0.5m-FU
Fem to Unterminated, Cut End, 1.0m	40-972B-096-1m-FU
Fem to Unterminated, Cut End, 2.0m	40-972B-096-2m-FU

Part numbers for other versions:

A096SFR-*-5A***

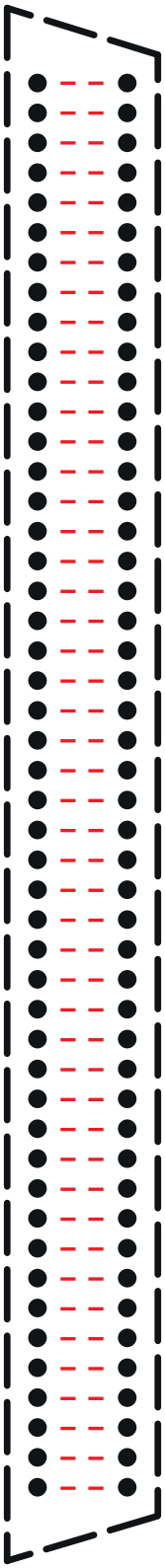
End B:
F = Ferrules
T = Tinned End

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

Wiring Schedule for 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

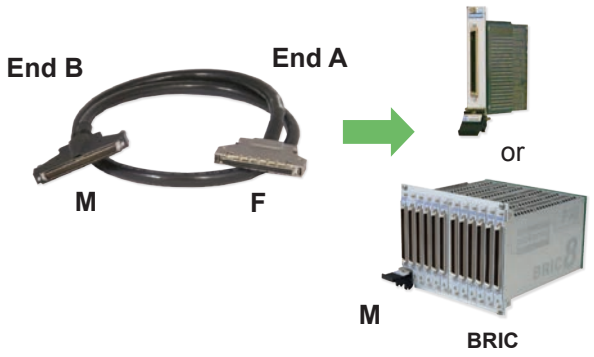


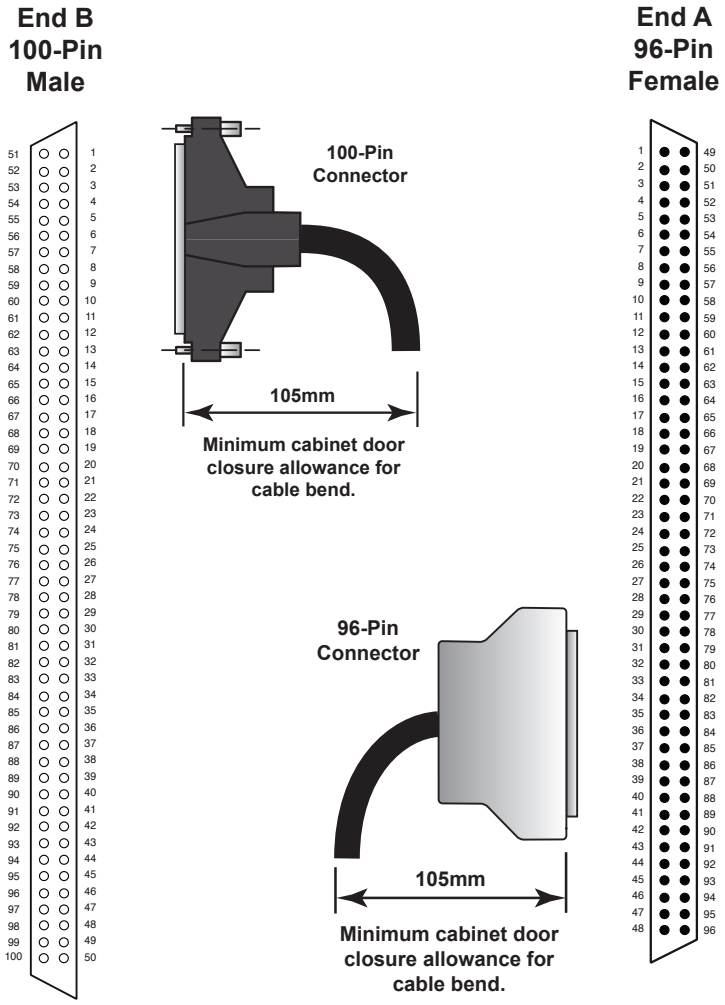
96-Pin 1.27mm Pitch Female Connector (Mating Face)

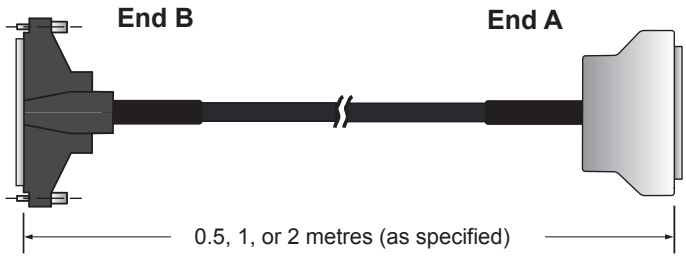
– – Denotes Twisted Pairing i.e. Pins 1 and 49 use paired wires

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

- **High Specification Cable**
- **Highly Flexible Cable**
- **Strain Relief**
- **Fully Screened Cable Construction**







Wiring Schedule information can be found on the next page of this document.

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
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V
Insulation Resistance	1000MΩ
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 (28 AWG, 0.38mm OD)
Resistance	0.22Ω/m
Insulation	Polyolefin (0.71mm O/D)
Outer Sleeve	PVC
Screened Construction	Dual shielded
Additional Braided Sleeve	No
Cable O/D	12mm nominal
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)
Notes: Other cable lengths can be supplied.	

Product Order Codes

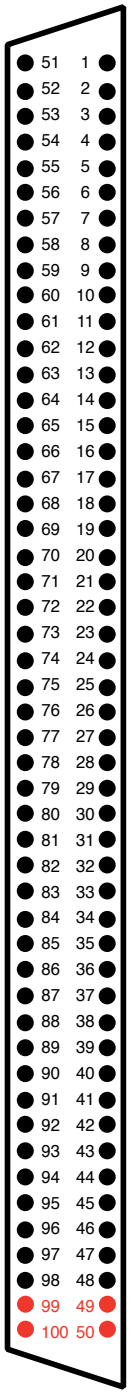
96-Pin 1.27mm Pitch Micro-D Female to 100-Pin 1.27mm Pitch Micro-D Male Adaptor Lead, 1A,

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

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

Wiring Schedule for Adaptor Lead, 96-Pin 1.27mm Pitch (Female) to 100-Pin 1.27mm Pitch (Male)

End B



100-Pin	96-Pin
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
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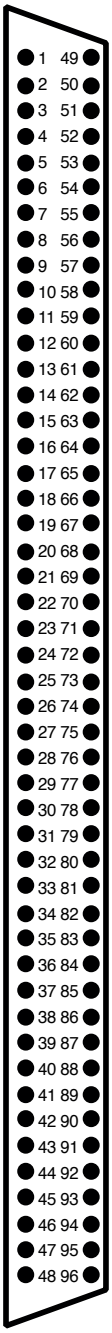
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49 n/c	
50 n/c	
51	49
52	50
53	51
54	52
55	53
56	54
57	55
58	56
59	57
60	58
61	59
62	60
63	61
64	62
65	63
66	64
67	65
68	66
69	67
70	68
71	69
72	70
73	71
74	72
75	73
76	74
77	75
78	76
79	77
80	78
81	79
82	80
83	81
84	82
85	83
86	84
87	85
88	86
89	87
90	88
91	89
92	90
93	91
94	92
95	93
96	94
97	95
98	96
99 n/c	
100 n/c	

End A

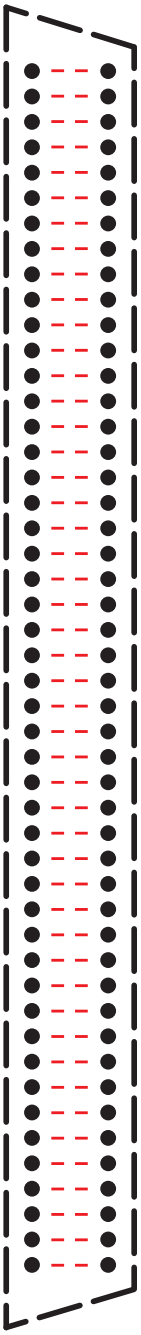


100-Pin Male and 96-Pin Female Connectors Showing Pin Linkage (Mating Faces Depicted)

Note: Pins 49,50,99,100 are not connected on the 100-Pin connector

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



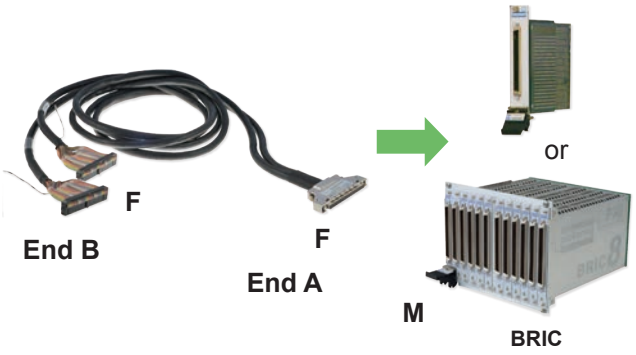
96-Pin 1.27mm Pitch Female Connector (Mating Face)

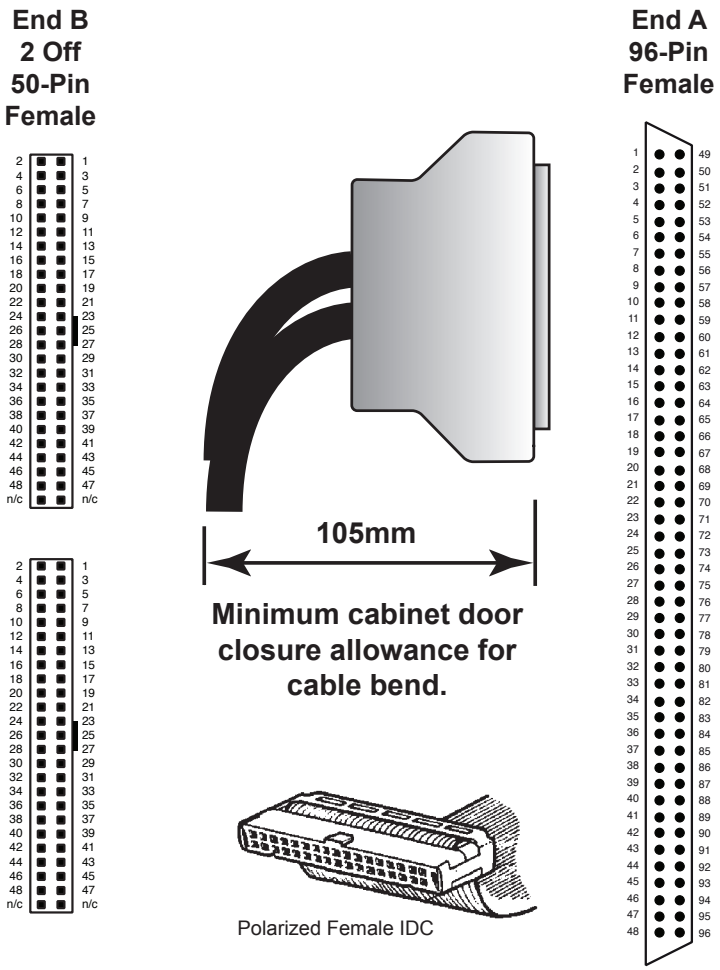
– – Denotes Twisted Pairing ie. Pins 1 and 49 use paired wires

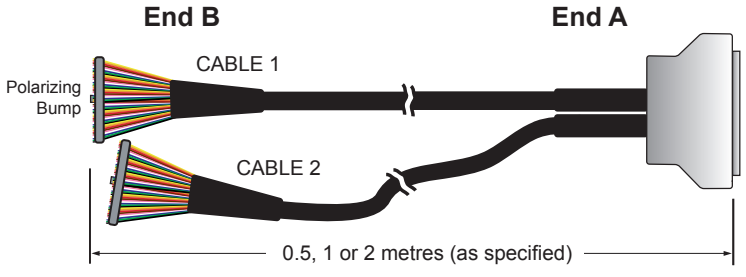
96-Pin 1.27mm Pitch (Female) to 2 x 50-Pin Ribbon (Female)

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

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







Wiring Schedule information can be found on the next page of this document.

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 0.1" (2.54mm) pitch
Gender	Female
Securing Method	User defined
Contact Material	Phosphor bronze with gold flash
Contact Resistance	<20mOhm
Cable Exit	Side
Overall Size (Approx)	H17 x W68 x D6mm
Cable Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MΩ
Cable Type:	2 x 50-Pin twisted pair, 1.27mm pitch ribbon cable. Wires paired 1&2, 3&4 etc
Conductor: Material	Copper
Strands	28 AWG
Resistance	0.2Ω/m
Insulation	SR-PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)

Notes:
Other cable lengths can be supplied.

Product Order Codes

96-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,

Female to Female, 0.5m Long	**40-971-096-0.5m-FF**
Female to Female, 1.0m Long	**40-971-096-1m-FF**
Female to Female, 2.0m Long	**40-971-096-2m-FF**

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

Wiring Schedule for 96-Pin 1.27mm Pitch (Female) to 2 x 50-Pin IDC (Female)

End B

	96-Pin Connector Pin No.		CABLE 1	96-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
Grey/Tan	36	36		35	35	Grey
White/Tan	38	38		37	37	White
Black/Tan	40	40		39	39	Black
Brown/Tan	42	42		41	41	Brown
Red/Tan	44	44		43	43	Red
Orange/Tan	46	46		45	45	Orange
Yellow/Tan	48	48		47	47	Yellow
	n/c	n/c		n/c	n/c	

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

50-Pin IDC Female Connectors (Mating Face)

End A

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

Shell - Screen

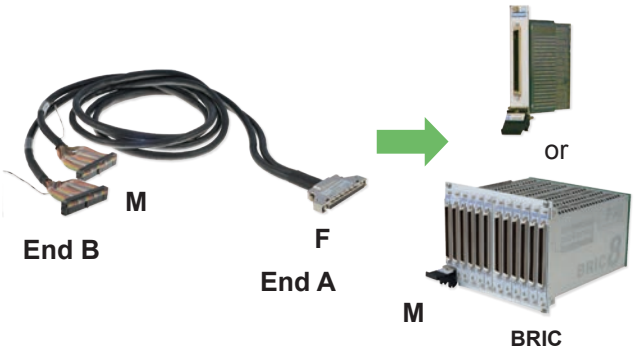
96-Pin 1.27mm Pitch Female Connector (Mating Face)

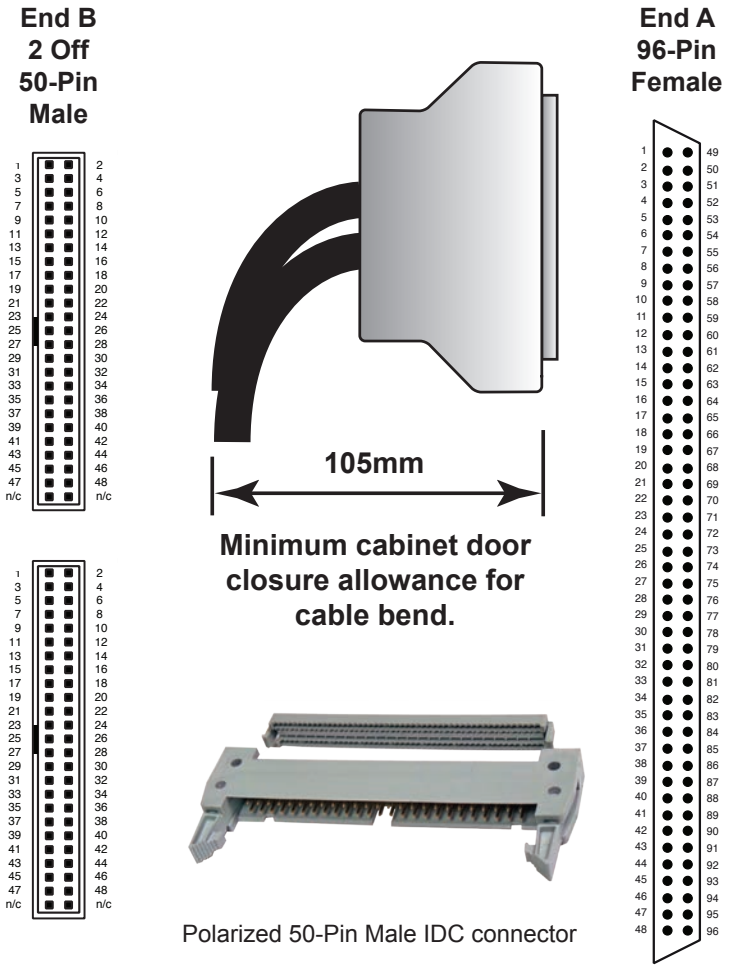
Note: Wires are paired 1 & 2, 3 & 4, etc

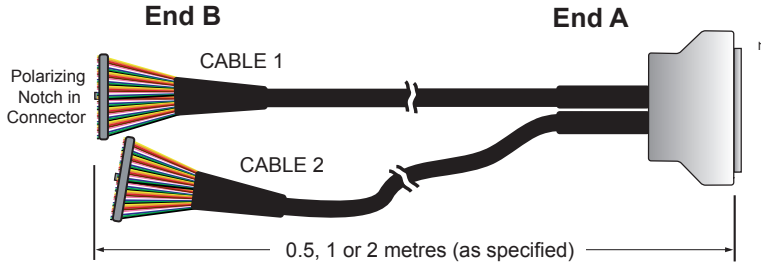
96-Pin 1.27mm Pitch (Female) to 2 x 50-Pin Ribbon (Male)

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

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







Wiring Schedule information can be found on the next page of this document.

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 0.1" (2.54mm) pitch
Gender	Male
Securing Method	User 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 Assembly Rating:	
Maximum Current	1A
Maximum Voltage	150V DC or AC peak
Insulation Resistance	1000MΩ
Cable Type:	2 x 50-Pin twisted pair, 1.27mm pitch ribbon cable. Wires paired 1&2, 3&4 etc
Conductor: Material	Copper
Strands	28 AWG
Resistance	0.2Ω/m
Insulation	SR-PVC
Outer Sleeve	PVC
Screened Construction	Yes
Additional Braided Sleeve	No
Cable O/D	10mm
Minimum Bend Radius	25mm
Door Closure Allowance	105mm (see diagram)
Notes: Other cable lengths can be supplied.	

Product Order Codes

96-Pin 1.27mm Pitch Micro-D to 50-Pin Ribbon Cable Assy, 1A,

Female to Male, 0.5m Long	40-971-096-0.5m-FM
Female to Male, 1.0m Long	40-971-096-1m-FM
Female to Male, 2.0m Long	40-971-096-2m-FM

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

Wiring Schedule for 96-Pin 1.27mm Pitch (Female) to 2 x 50-Pin IDC (Male)

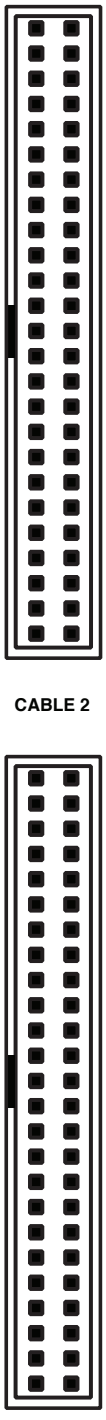
End B

CABLE 1

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

CABLE 2

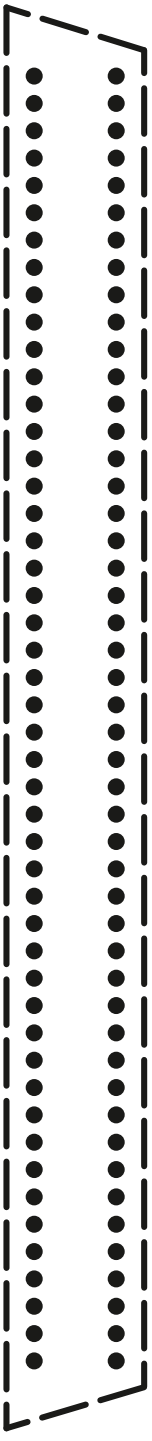
96-Pin Connector Pin No			96-Pin Connector Pin No.		
Brown	49	1	2	50	Brown/Tan
Red	51	3	4	52	Red/Tan
Orange	53	5	6	54	Orange/Tan
Yellow	55	7	8	56	Yellow/Tan
Green	57	9	10	58	Green/Tan
Blue	59	11	12	60	Blue/Tan
Violet	61	13	14	62	Violet/Tan
Grey	63	15	16	64	Grey/Tan
White	65	17	18	66	White/Tan
Black	67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



50-Pin IDC Male Connectors (Mating Face)

End A

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



Shell - Screen

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

Note: Wires are paired 1 & 2, 3 & 4, etc

96-Pin 1.27mm Pitch Micro-D Connector Block - Female

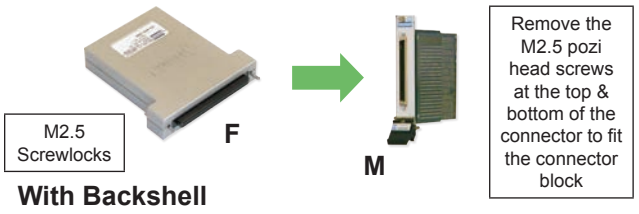
- **Connector, PCB and Backshell**
- **Cable Clamp in Backshell**
- **Easy to Use Rising Cage Screw Terminals**

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.

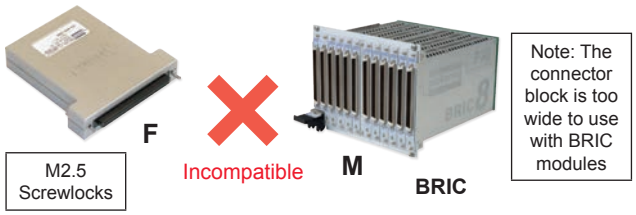
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

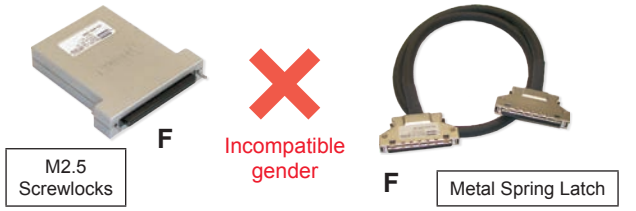
This connector block (with backshell) uses male screwlocks and will not mate to Pickering cables. When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

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



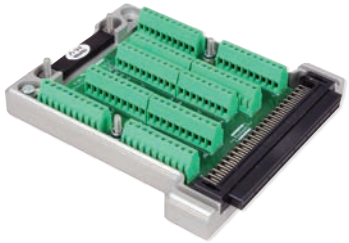
With Backshell



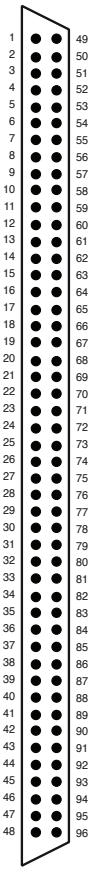


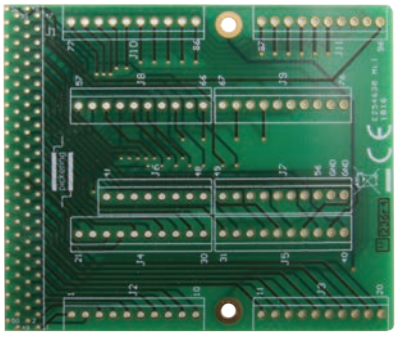
Without Backshell

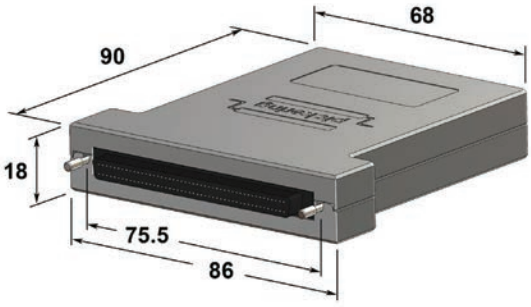
Securing the Connector Block



Female







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
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)

Product Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block, 1A, Screw Terminal,

With Backshell, Female 40-965-096-F

Without Backshell, Female 92-965-096-F

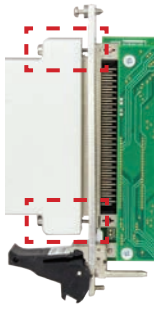
96-Pin 1.27mm Pitch Micro-D Connector Block - Female

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

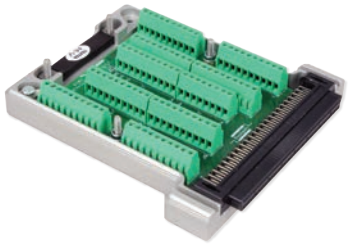
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

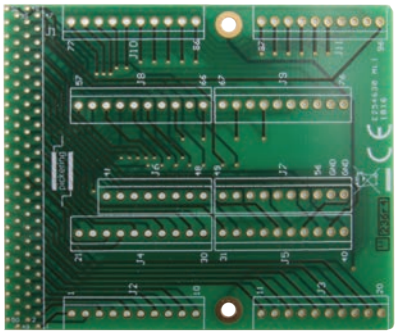
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

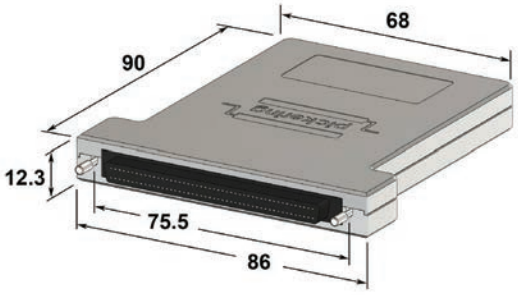
This connector block uses male screwlocks and will not mate to Pickering cables. If this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.



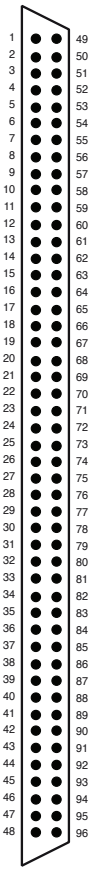
Securing the Connector Block

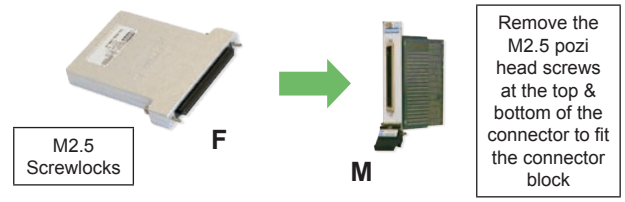


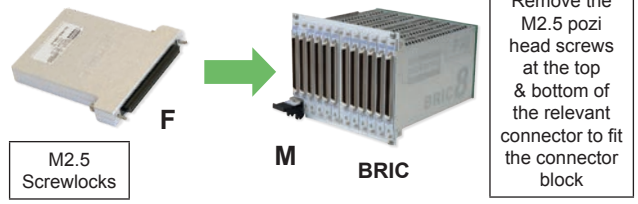


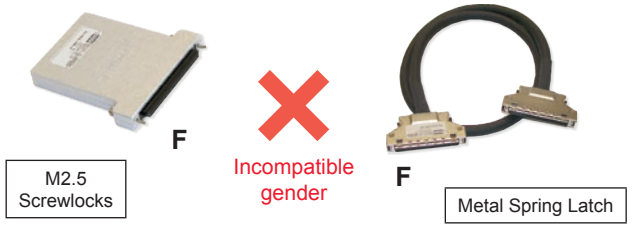


Female









Technical Specification

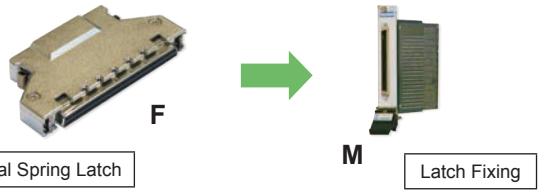
Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method:	
Product with Backshell	M2.5 screwlocks, male
Wire Connection	Rising cage screw terminals
Connector Block Ratings:	
Maximum Current	1A
Maximum Voltage	200V DC
Cable Exit	Rear - 9.5 x 30mm
Overall Size (Approx)	H86 x W12.3 x D95mm
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)

Product Order Codes

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

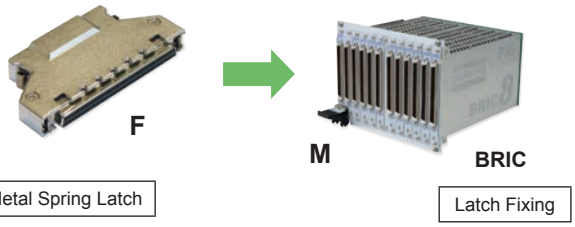
96-Pin 1.27mm Pitch Micro-D Connector - Female

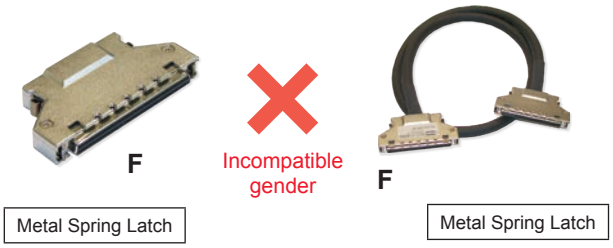
- **Connector and Backshell**
- **Metal Spring Latches**
- **IDC for Ribbon Cable**
- **Cable Clamp in Backshell**

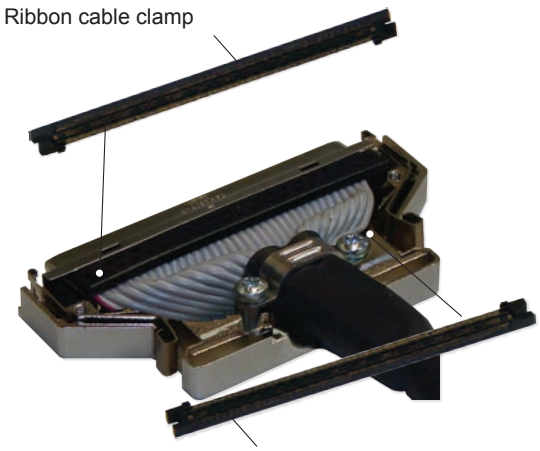


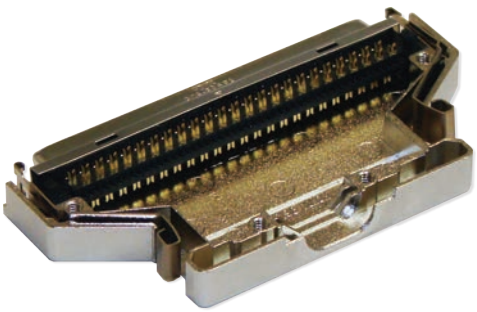
This accessory is designed to allow users to directly terminate a cable to the connector.

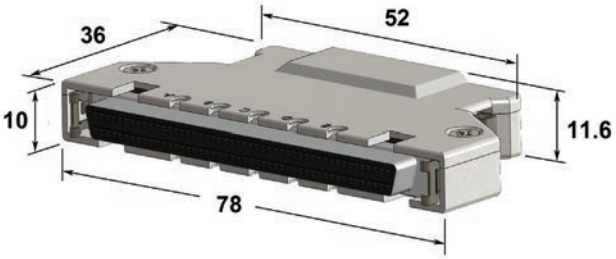
It is difficult to terminate cable to the 96-Pin 1.27mm Pitch Micro-D because of the high density and fine pitch. Pickering Interfaces recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

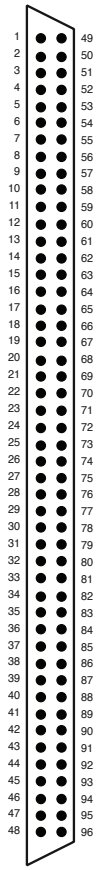












Technical Specification

Connector Type:	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
Cable Exit Size	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
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Ribbon cable, 96-Pin round & flat, 0.635mm pitch,
Additional Cable Clamp	Yes (in backshell)

Product Order Codes

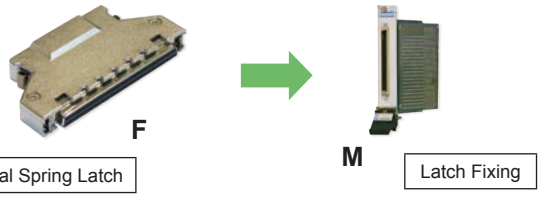
96-Pin 1.27mm Pitch Micro-D Connector, 1A, IDC for Ribbon Cable,

With Backshell, Female 40-961-096-F

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

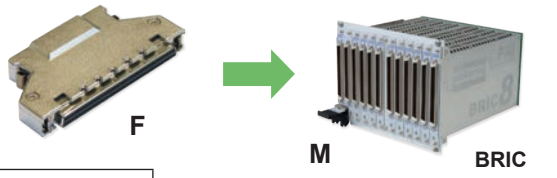
96-Pin 1.27mm Pitch Micro-D Connector - Female

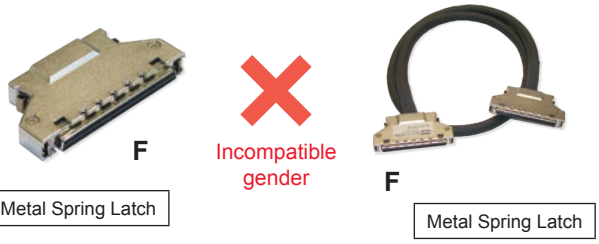
- **Connector and Backshell**
- **Metal Spring Latches**
- **IDC for Discrete Wires**
- **Cable Clamp in Backshell**

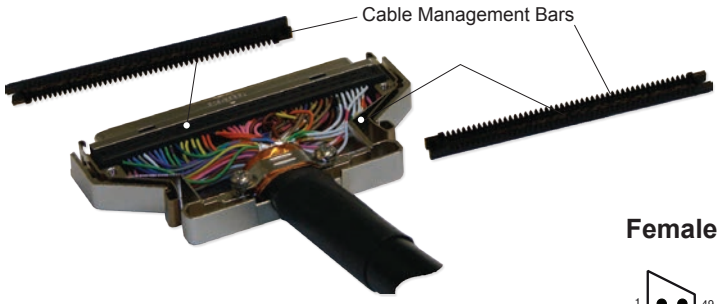


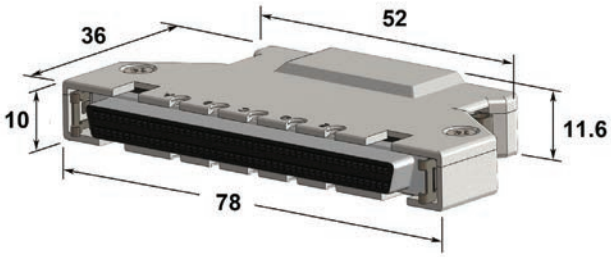
This accessory is designed to allow users to directly terminate with IDC connections to the 96-Pin 1.27mm Pitch Micro-D connector.

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 recommends the use of purchased cable assemblies for applications where most or all of the contacts are in use.

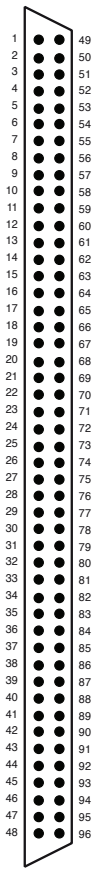








Female



Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D,
Gender	Female
Securing Method	Metal spring latch
Wire Connection	IDC for discrete wires
Connector Ratings:	
Maximum Current	1A
Maximum Voltage	250V AC
Cable Exit:	Rear
Cable Exit Size	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
Wire Connection:	
Maximum Wire Size	28AWG
Recommended Wire	Multicore 96-Pin or single core,
Additional Cable Clamp	Yes (in backshell)

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

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

96-Pin 1.27mm Pitch Micro-D Connector Block - Male

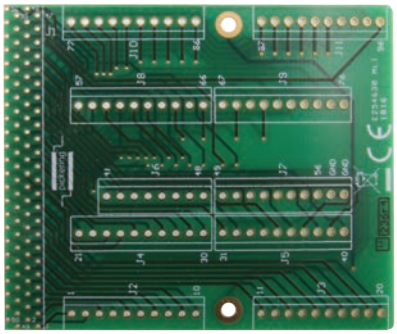
- **Connector, PCB and Backshell**
- **Cable Clamp in Backshell**
- **Easy to Use Rising Cage Screw Terminals**

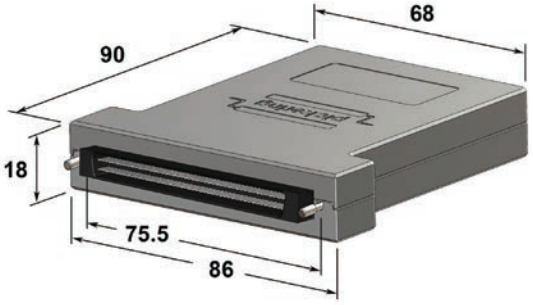
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

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.

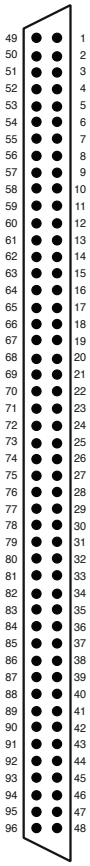
When this product is used without a backshell users should make their own cable strain relief arrangements and ensure appropriate electrical safety precautions are observed.

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

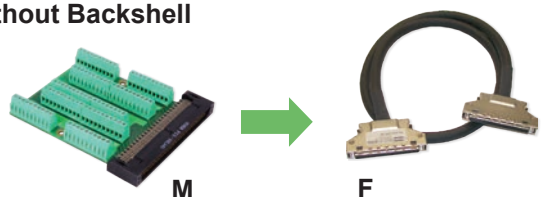




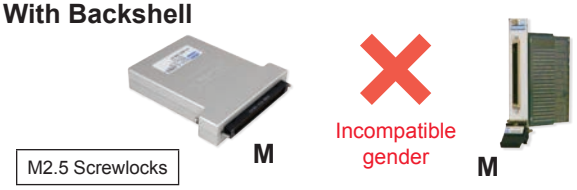
Male

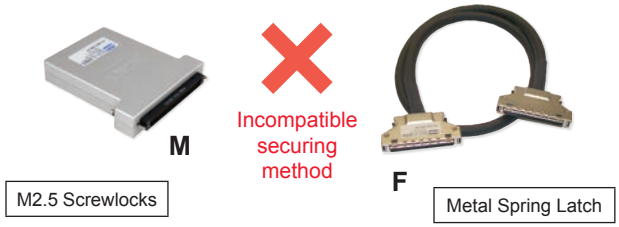


Without Backshell



With Backshell





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
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 Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block, 1A, Screw Terminal,

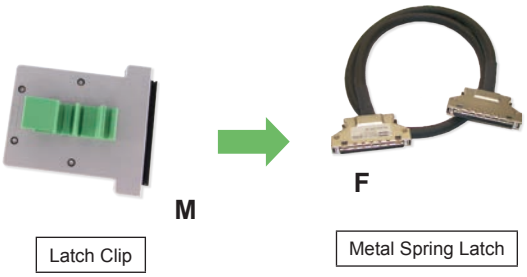
With Backshell, Male	**40-965-096-M**
Without Backshell, Male	**92-965-096-M**

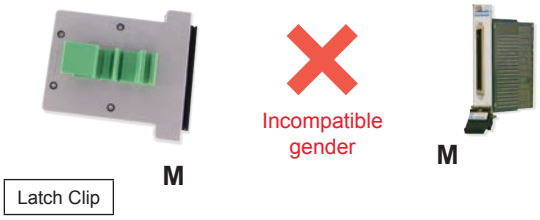
96-Pin 1.27mm Pitch Micro-D Connector Block - Male

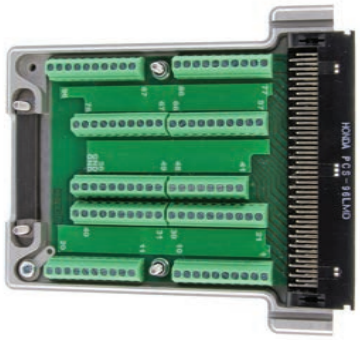
- **For Connection at Cable End**
- **DIN Rail Mounted**
- **Easy to Use Rising Cage Screw Terminals**

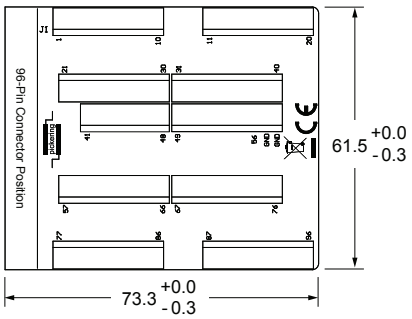
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

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.

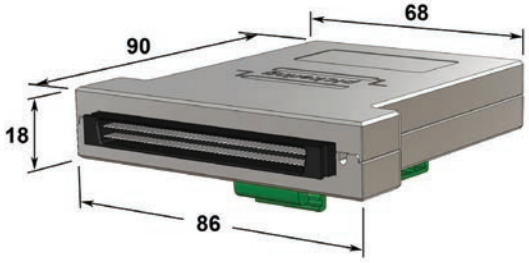




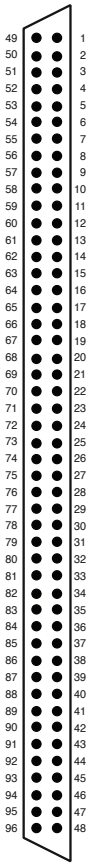




PCB Layout



Male



Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Male
Securing Method	Latch clip
Wire Connection	Rising cage screw terminals
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 Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, Screw Terminal,with Backshell,

Male **40-966-096-M**

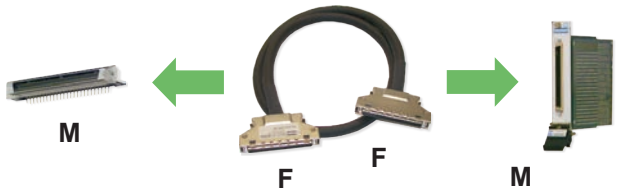
Please ensure the correct connector gender is ordered for the application.

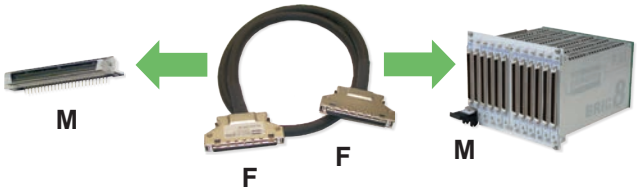
96-Pin 1.27mm Pitch Micro-D Connector, Right Angle PCB Mount - Male

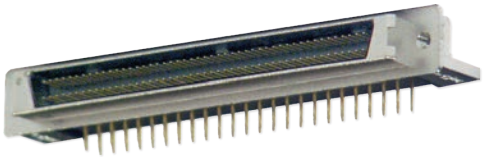
- **Right Angle PCB Mount**
- **Latch Clip and M2.5 Screwlocks**
- **Ideal for User Created Termination Solutions**

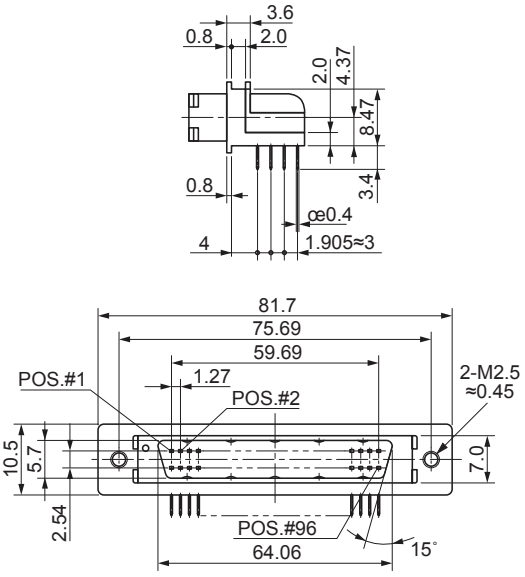
This accessory allows a user to create their own PCB based termination solution mounted on the end of a cable. Suitable cables for this product are contained elsewhere in this data sheet. Interfacing PCBs should be designed with suitable clearances for the voltage the application requires.

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

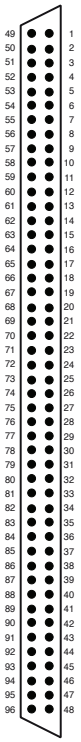


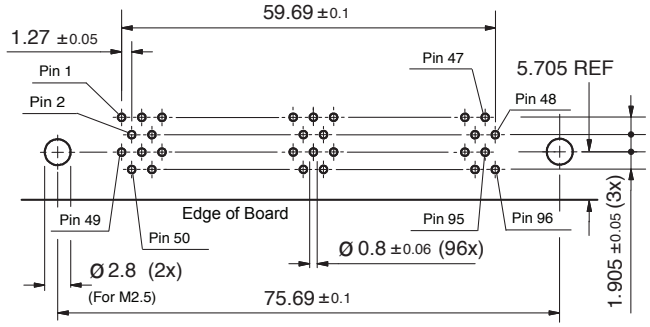






Male



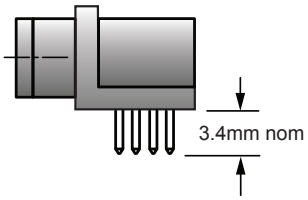


PCB Footprint of 96-Pin Right Angle Male Connector (Connector Side - Not to Scale)

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)

Leg Length



Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount,

Male 40-963-096-RM

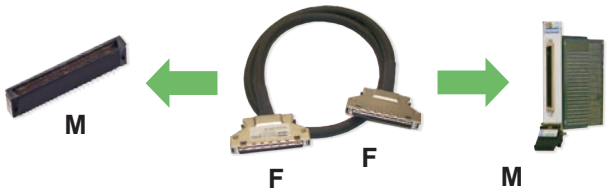
Please ensure the correct connector gender is ordered for the application.

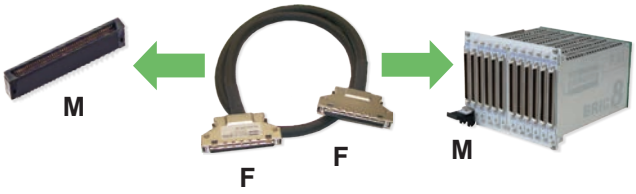
96-Pin 1.27mm Pitch Micro-D Connector, Straight PCB Mount - Male

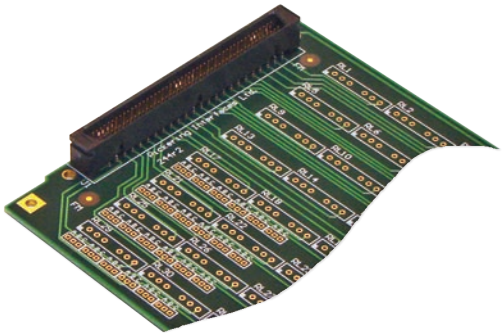
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

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.

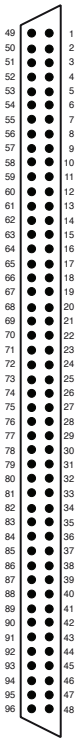
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product.

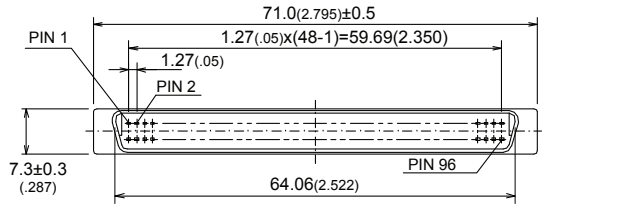


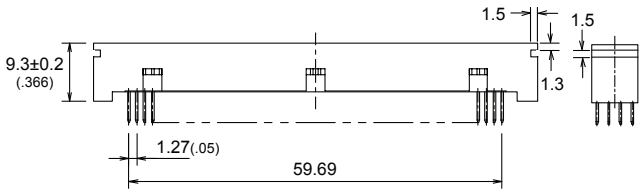


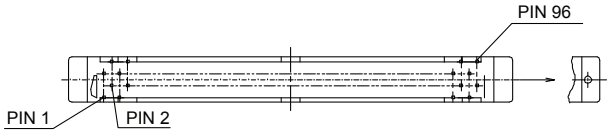


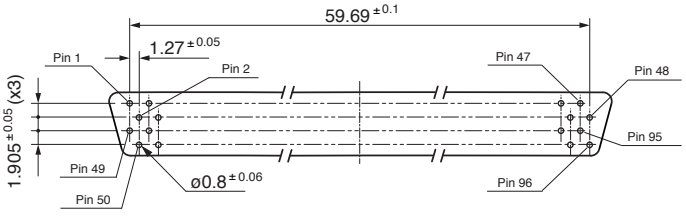
Male









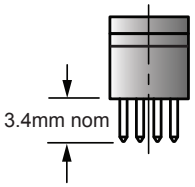


PCB Footprint of 96-Pin Straight Male Connector (Connector Side - Not to Scale)

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)

Leg Length



Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Straight PCB Mount,

Male 40-963-096-SM

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.

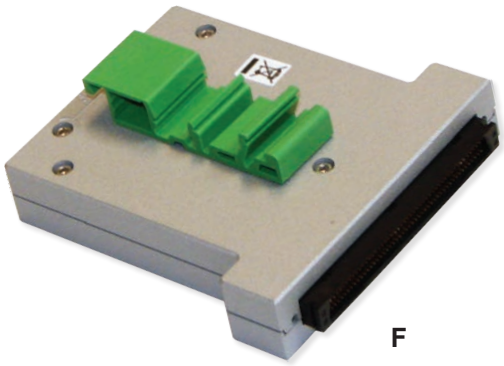
96-Pin 1.27mm Pitch Micro-D Connector Block - Female

- **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.

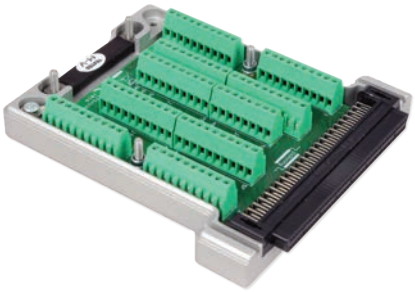
Suitable for mounting on DIN Rails this connector block provides a simple method of connecting to high density 96-Pin 1.27mm Pitch Micro-D cable connectors. The metal backshell includes an internal insulation barrier under the carrier board. Latch clips are supplied in order to provide strain relief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

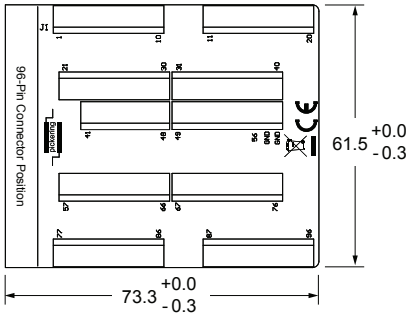
This Connector Block is Not Suitable for Connection to a Pickering Switching Product



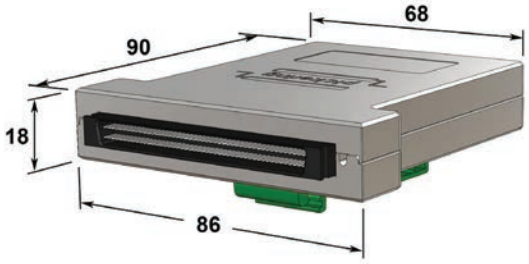
F

Latch Clip

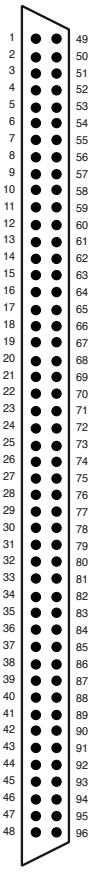




PCB Layout



Female



Technical Specification

Connector Type:	96-Pin 1.27mm pitch Micro-D
Gender	Female
Securing Method	Latch clip
Wire Connection	Rising cage screw terminals
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 Order Codes

96-Pin 1.27mm Pitch Micro-D Shielded Connector Block with DIN Rail Mount, 1A, Screw Terminal,with Backshell,

Female 40-966-096-F

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

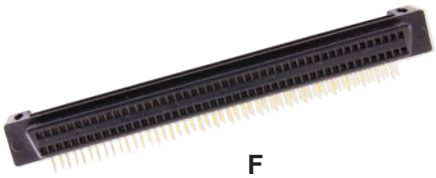
96-Pin 1.27mm Pitch Micro-D Connector, Right Angle PCB Mount - Female

- **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.

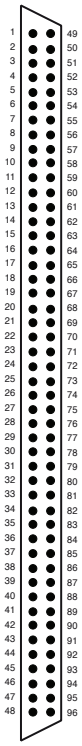
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product or standard Pickering cable.

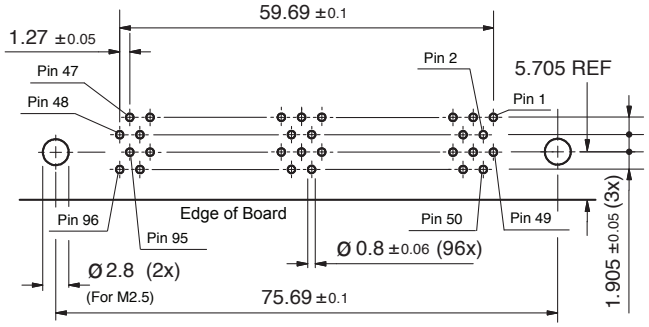
This Connector is Not Suitable for Connection to a Pickering Switching Product



F

Female



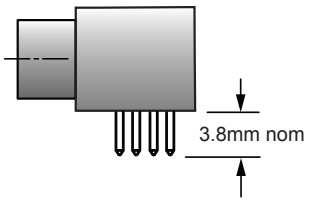


PCB Footprint of 96-Pin Right Angle Female Connector (Connector Side - Not to Scale)

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)

Leg Length



Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Right Angle PCB Mount,

Female 40-963-096-RF

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

96-Pin 1.27mm Pitch Micro-D Connector, Straight PCB Mount - Female

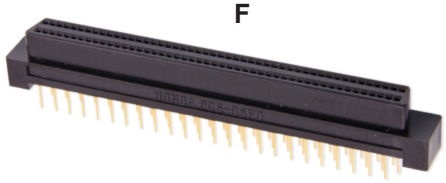
- **Straight PCB Mount**
- **Ideal for User Created Termination Solutions**

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

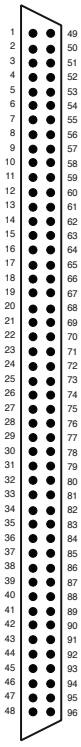
Note: This product is not suitable for directly mounting onto the front panel of a Pickering switching product or standard Pickering cable.

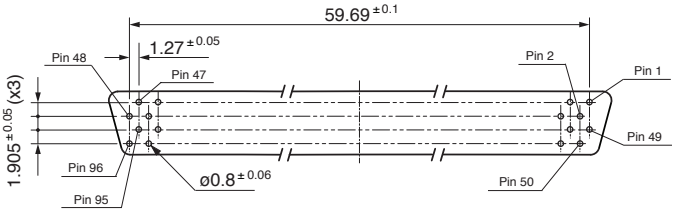
This Connector is Not Suitable for Connection to a Pickering Switching Product

F



Female





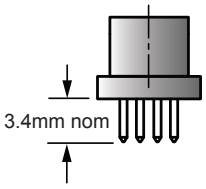
PCB Footprint of 96-Pin Straight Female Connector

(Connector Side - Not to Scale)

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)

Leg Length



Product Order Codes

96-Pin 1.27mm Pitch Micro-D Connector, 1A, Straight PCB Mount,

Female 40-963-096-SF

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

96-Pin 1.27mm Pitch Micro-D Connector Block - Male

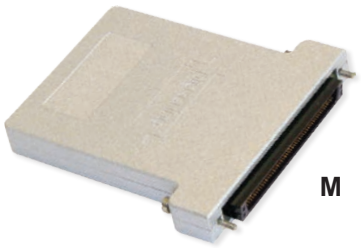
- **Connector, PCB and Backshell**
- **Cable Clamp in Backshell**
- **Easy to Use Rising Cage Screw Terminals**

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

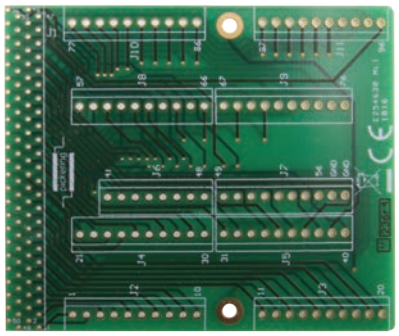
Connector blocks provide a convenient method of termination without the use of custom cabling. However, a higher resistance path, lower capacity ratings and lower voltage ratings are typical.

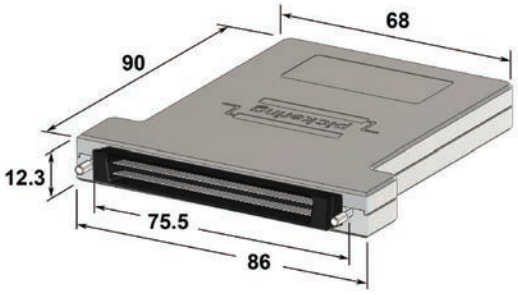
The screw terminals use a rising cage clamp mechanism to minimize risk of copper strand breakage. The metal shell includes an internal insulation barrier under the carrier board.

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.

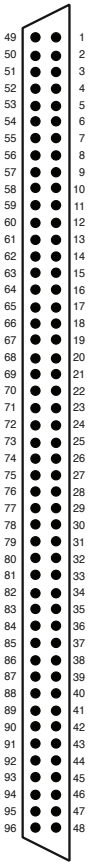


M2.5 Screwlocks





Male



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 terminal
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)

Product Order Codes

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

Custom Termination

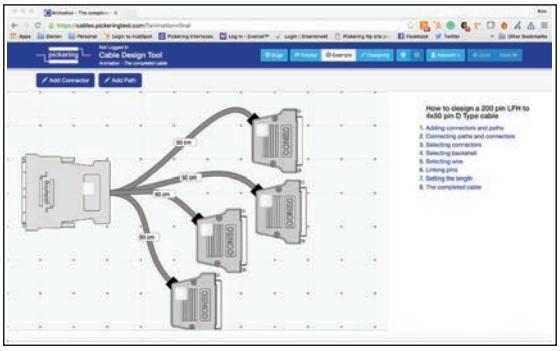
Pickering Interfaces are able to manufacture custom built cable assemblies and backshells that mate with all the connectors we use in our extensive product range and to provide connection solutions for third party products.

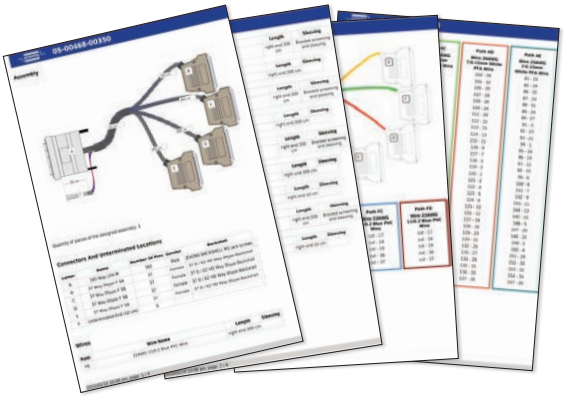
We are able to model and manufacture cable assemblies and other termination arrangements to user notes and drawings, and to deal with simple and complex assemblies, and both small and high volume orders.

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 timescales to a minimum.

NEW - Pickering's Cable Design Tool





Go to **pickeringtest.com/cdt** to find out more.

Over the years, we have received many requests for customized cabling solutions that are often based on our standard cable assemblies but adjusted to match specific application requirements. To help with this, we have introduced our Cable Design Tool – a new graphically based web tool for cable design. We're excited about the features the software includes:

- Graphical design of customized cable assemblies
- Built-in library of standard cable sets to be used as the basis for customization or cables can just be defined from scratch
- The ability to store cable assemblies in the Cloud and develop over time
- Each cable design has a documentation pdf file detailing all of the specifications
- Very detailed design characteristics including the selection of connector types, wire type, pin definitions, pin and cable labeling, cable bundling, length selection, sleeving, comments, etc.
- Runs on popular browsers, Windows, Mac and Linux
- Fully supported on popular tablets: iPad and Android
- Built-in tutorials allow you to get quickly up to speed

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.