

3M™ Mini D Ribbon (MDR) Connectors

.050" Boardmount Through-Hole Vertical Receptacle - Shielded

102 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- Rugged die cast metal case construction
- Screw lockdown for reliable PCB retention
- Interface latch design for connection stability
- IEEE 1284C Interface as a 36 contact connector
- Contacts: 14, 20, 26, 36, 40, 50, 68, 80 and 100
- See Regulatory Information Appendix (RIA) for chemical compliance information.

Date Modified: November 26, 2007

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Physical

Insulation Material:	Glass Filled Polyester (PBT) or Glass Filled Polyester (PCT) - (High Temp. Option) - See ordering information
Flammability:	UL 94V-0
Color:	Black (PBT) or Beige (PCT)-High Temp. Option - See ordering information
Contact Material:	Copper Alloy
Plating Underplating:	100 μ " [2.5 μ m] Nickel
Wiping Area:	30 μ " [0.76 μ m] Min. Gold
Solder Tail Plating:	Gold flash over Nickel (RIA E1 & C1 apply)
Body Material:	Zinc Alloy
Plating:	Nickel
Shroud & Latch Hook	
Material:	Steel
Plating:	Nickel
Marking:	3M Logo and Part Number

Electrical

Current Rating:	1 A
Insulation Resistance:	$> 5 \times 10^8 \Omega$ at 500 V _{DC}
Withstanding Voltage:	500 V _{RMS} for 1 Minute

Environmental

Temperature Rating:	-20°C to +85°C
PBT Insulation Process Rating:	Solder Dip Test - 260°C for 10 secs., two times after 100°C max. preheat, 60 sec. max. duration.
PCT Insulation Process Rating:	High Temp. Option: 260°C (profile per J-STD-020C)

UL File No.: E68080

3M
Interconnect Solutions
<http://www.3M.com/interconnects/>

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For technical, sales or ordering information call
800-225-5373

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Contact Quantity	Dimensions				
	A	B	C	D	E
14	0.300 [7.62]	0.93 [23.6]	1.16 [29.5]	0.50 [12.6]	.77 [19.5]
20	0.450 [11.43]	1.08 [27.5]	1.31 [33.4]	.65 [16.4]	.92 [23.4]
26	.600 [15.24]	1.23 [31.3]	1.46 [37.2]	.80 [20.2]	1.07 [27.2]
36	.850 [21.59]	1.48 [37.6]	1.71 [43.5]	1.05 [26.6]	1.32 [33.5]
40	.950 [24.13]	1.58 [40.2]	1.81 [46.1]	1.15 [29.1]	1.42 [36.1]
50	1.200 [30.48]	1.83 [46.5]	2.06 [52.4]	1.40 [35.5]	1.67 [42.4]
68	1.650 [41.91]	2.28 [57.9]	2.51 [63.8]	1.85 [46.9]	2.12 [53.8]
80	1.950 [49.53]	2.58 [65.6]	2.81 [71.5]	2.15 [54.5]	2.42 [61.5]
100	2.450 [62.23]	3.08 [78.3]	3.31 [84.2]	2.65 [67.2]	2.92 [74.2]



Ordering Information

X 102 XX - 62 X 2 P C

Blank = Stand., PBT Insulator
N = High Temp. Option, PCT Insulator

Contact Quantity
(See Table)
A0 = 100 pos.

Lockstand Thread
0 = M 2.6 (Special)
1 = M 2.5 (Standard)

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Contact Quantity	Dimensions	
	A	B
20	.450 [11.43]	1.081 [27.45]
36	.850 [21.59]	1.481 [37.61]
40	.950 [24.13]	1.581 [40.15]
68	1.650 [41.91]	2.281 [57.93]
80	1.950 [49.53]	2.581 [65.55]
100	2.450 [62.23]	3.081 [78.25]

Contact Quantity	Dimensions	
	A	B
14	.300 [7.62]	0.931 [23.64]
26	.600 [15.24]	1.231 [31.26]
50	1.200 [30.48]	1.831 [46.50]

Contact Quantity	Dimensions	
	C	D
14	.78 [20.0]	.93 [23.64]
20	.94 [23.8]	1.08 [27.45]
26	1.09 [27.6]	1.23 [31.26]
36	1.33 [33.9]	1.48 [37.61]
40	1.44 [36.5]	1.58 [40.15]
50	1.69 [42.8]	1.83 [46.50]
68	2.13 [54.2]	2.28 [57.93]
80	2.44 [61.9]	2.58 [65.55]
100	2.94 [74.6]	3.08 [78.25]

Recommended Board Layout Viewed from Connector Side

20, 36, 40, 68, 80 and 100 pos only



14, 26, 50 pos only



Note: Plated through holes for .062" board thickness.

Recommended Panel Cut-Out



Note: Panel thickness .079 [2.00] Max.

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