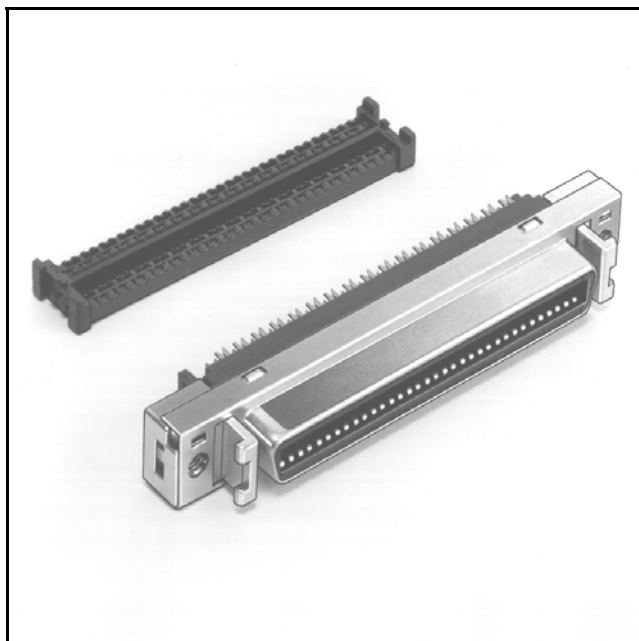


# 3M™ Mini D Ribbon (MDR) Connectors

.050" IDC Wiremount Panelmount Receptacle - Shielded

102 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- IEEE 1284C Interface as a 36 contact connector
- Interface latch design for connection stability
- Accepts a wide variety of cable constructions including flat, shielded flat and twisted pair cables
- Contacts: 20, 26, 36, 40, 50 and 68
- RoHS\* compliant

Date Modified: February 8, 2005

TS-0425-12  
Sheet 1 of 2

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## Physical

### Insulation

Material: Glass Reinforced Polyester (PBT)

Flammability: UL 94V-0

Color: Black

### Contact

Material: Beryllium Copper (C172)

### Plating

Underplating: 80 μ" (2.0 μm) Nickel - QQ-N-290, Class 2

Wiping Area: 30 μ" (0.76 μm) Gold - MIL-G-45204, Type II, Grade C

### Body

Material: Zinc Alloy

Plating: Nickel

### Shroud

Material: Steel

Plating: Nickel

Wire Accommodation: 28 AWG Stranded, 30 AWG Solid

Marking: 3M Logo & Part Number

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## Electrical

Current Rating: 1 A

Insulation Resistance:  $> 1 \times 10^8 \Omega$  at 500 VDC

Withstanding Voltage: 500 Vrms for 1 Minute

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## Environmental

Temperature Rating: -20°C to +85°C

UL File No.: E68080 \*RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment



Interconnect Solutions

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

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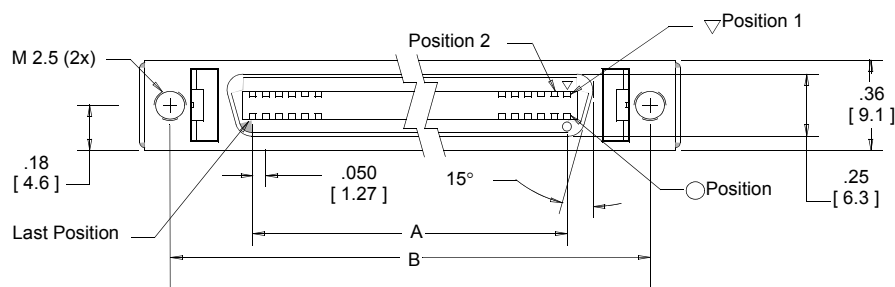
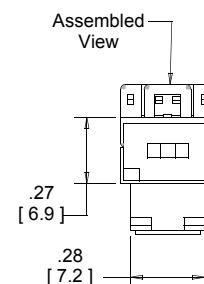
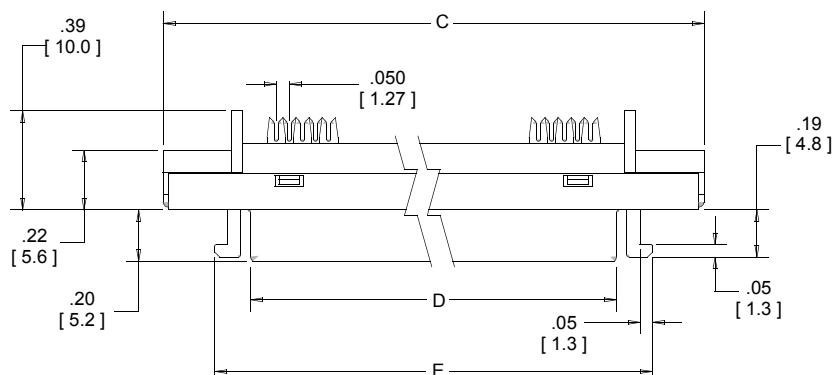
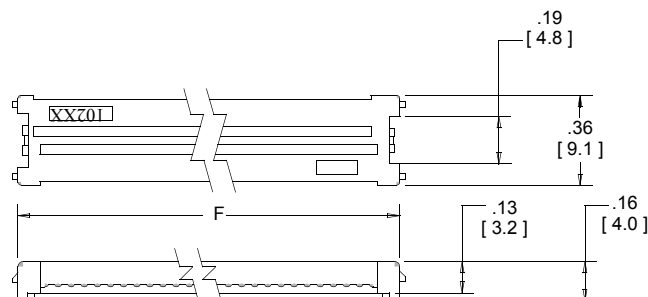
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.050" IDC Wiremount Panelmount Receptacle - Shielded

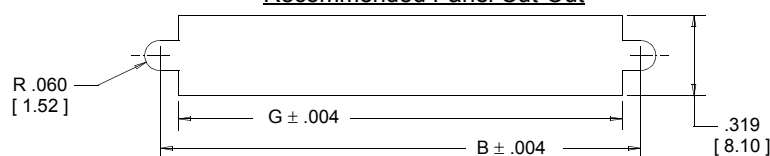
102 Series



Contact Quantity	Dimensions						
	A	B	C	D	E	F	G
20	.450 [ 11.43 ]	1.081 [ 27.45 ]	1.31 [ 33.4 ]	.65 [ 16.4 ]	.92 [ 23.4 ]	.71 [ 18.0 ]	.94 [ 23.8 ]
26	.600 [ 15.24 ]	1.231 [ 31.26 ]	1.46 [ 37.2 ]	.80 [ 20.2 ]	1.07 [ 27.2 ]	.86 [ 21.8 ]	1.09 [ 27.6 ]
36	.850 [ 21.59 ]	1.481 [ 37.61 ]	1.71 [ 43.5 ]	1.05 [ 26.6 ]	1.32 [ 33.5 ]	1.11 [ 28.1 ]	1.33 [ 33.9 ]
40	.950 [ 24.13 ]	1.581 [ 40.15 ]	1.81 [ 46.1 ]	1.15 [ 29.1 ]	1.42 [ 36.1 ]	1.21 [ 30.7 ]	1.44 [ 36.5 ]
50	1.200 [ 30.48 ]	1.831 [ 46.50 ]	2.06 [ 52.4 ]	1.40 [ 35.5 ]	1.67 [ 42.4 ]	1.46 [ 37.0 ]	1.69 [ 42.8 ]
68	1.650 [ 41.91 ]	2.281 [ 57.93 ]	2.51 [ 63.8 ]	1.85 [ 46.9 ]	2.12 [ 53.8 ]	1.91 [ 48.4 ]	2.13 [ 54.2 ]



## Recommended Panel Cut-Out



Note: Panel Thickness .079 [ 2.00 ] max.

Inch  
[mm]

Tolerance Unless Noted			
	.0	.00	.000
inch	±.1	±.01	±.005

[ ] Dimensions for Reference Only

## Ordering Information

**102XX-0210EC**

Contact Quantity  
(See Table)

Application tools: 10951 Assembly Press and 10952 Cable Cutter.

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Sheet 2 of 2



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### Electronic Solutions Division

6801 River Place Blvd.  
Austin, TX 78726-9000  
[www.3M.com/esd](http://www.3M.com/esd)



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