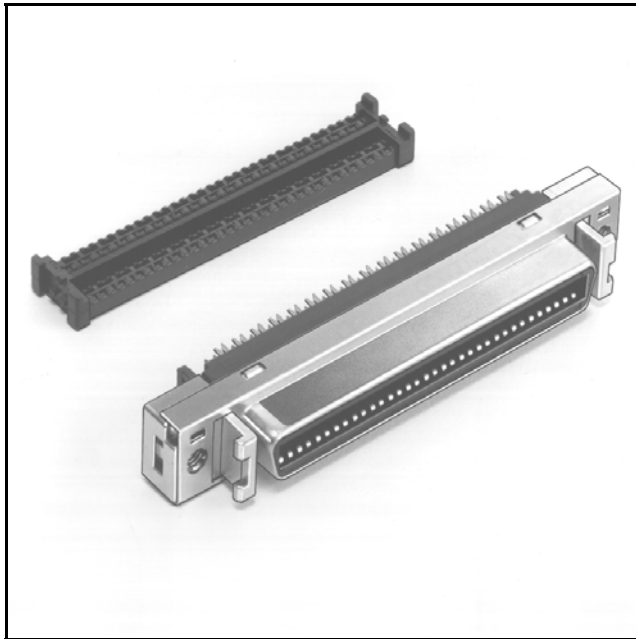


# 3M™ Mini D Ribbon (MDR) Connectors

.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

## 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

## Electrical

Current Rating: 1 A

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

Withstanding Voltage: 500 Vrms for 1 Minute

## 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

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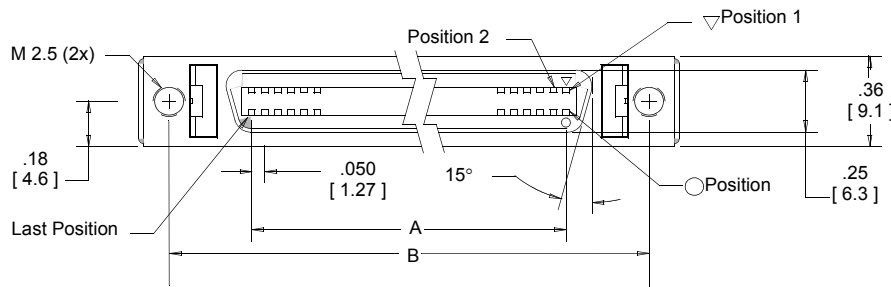
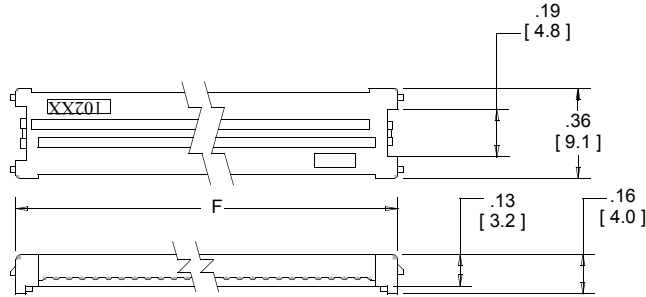
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.050" IDC Wiremount Panelmount Receptacle - Shielded

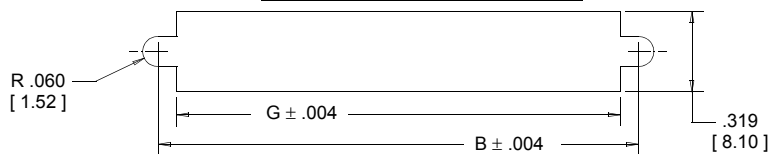
102 Series



| 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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