

# 3M™ Mini D Ribbon (MDR) Connectors

.050" IDC Wiremount Plug - Shielded

101 Series



- Wiper-on-wiper contact for reliable repetitive plugging
- MDR digital LCD interface as a 20 or 26 contact connector
- IEEE 1284C Interface as a 36 contact connector
- Accepts a wide variety of cable constructions including flat, round, twisted pair and twinax cables
- Accepts a wide variety of shielded junction shells
- Contacts: 14, 20, 26, 36, 40, 50, 68, 80 and 100
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: July 19, 2010

TS-0423-B  
Sheet 1 of 3

## Physical

Insulation Material: Glass Reinforced Polyester

Flammability: UL 94V-0

Body Color: Black

Cover Color: Black, Gray

### Contact:

Material: Beryllium Copper

Underplating: 80  $\mu$ " [2.0  $\mu$ m] Nickel

Wiping Area Plating: 30  $\mu$ " [0.76  $\mu$ m] Min. Gold

IDC Contacts Plating: Gold flash

### Shroud:

Material: Steel

Plating: Nickel

### Wire Accommodation:

Black Cover: 28 AWG Stranded, 30 AWG Solid (Insulation Diameter = 0.7 mm Max.)

Gray Cover: 26 AWG Solid (Insulation Diameter = 0.7 mm to 0.9 mm)

Marking: 3M Logo and Part Number

## Electrical

Current Rating: 1 A

Insulation Resistance:  $>1 \times 10^8 \Omega$  at 500 V<sub>DC</sub>

Withstanding Voltage: 500 V<sub>RMS</sub> for 1 Minute

## Environmental

Temperature Rating: -20°C to +85°C

UL File No.: E68080



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# 3M™ Mini D Ribbon (MDR) Connectors

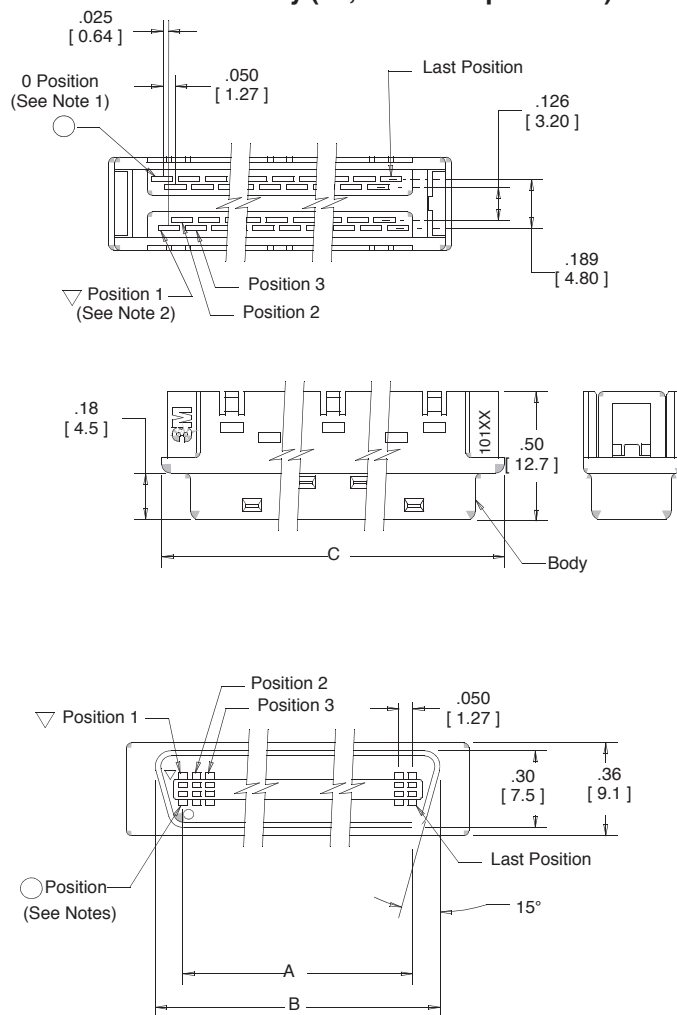
.050" IDC Wiremount Plug - Shielded

101 Series

| Contact Quantity | Dimensions      |               |               |               |
|------------------|-----------------|---------------|---------------|---------------|
|                  | A               | B             | C             | D             |
| 14               | .300 [ 7.62 ]   | .54 [ 13.8 ]  | .72 [ 18.2 ]  | .58 [ 14.7 ]  |
| 26               | .600 [ 15.24 ]  | .84 [ 21.4 ]  | 1.02 [ 25.8 ] | .88 [ 22.4 ]  |
| 50               | 1.200 [ 30.48 ] | 1.44 [ 36.6 ] | 1.62 [ 41.1 ] | 1.48 [ 37.6 ] |



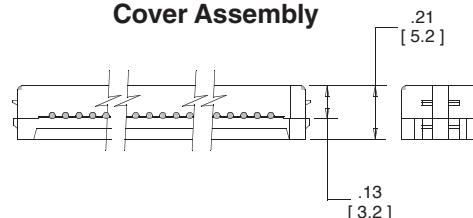
## Body (14, 26 and 50 positions)



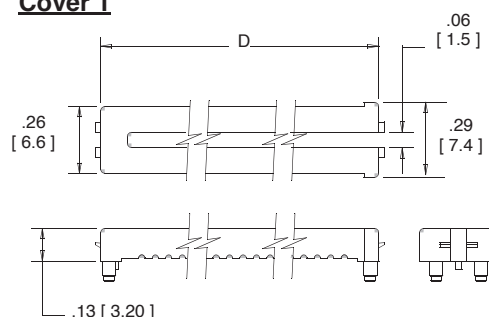
### Notes:

- 1.Circle (O) position indicates #1 position in cable, when utilizing 0.025" pitch flat cable.
- 2.Triangle (Δ) position indicates #2 position in cable, when utilizing 0.025" pitch flat cable.

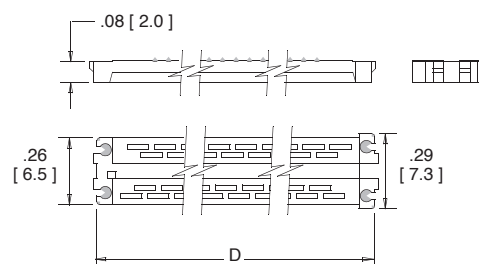
## Cover Assembly



## Cover 1



## Cover 2



| inch<br>[mm]           |     |      |       |
|------------------------|-----|------|-------|
| Tolerance Unless Noted |     |      |       |
|                        | .0  | .00  | 0.00  |
| inch                   | ±.1 | ±.01 | ±.005 |

[ ] Dimensions for Reference Only

## Ordering Information

(See page 3 for other sizes and assembly tools.)

**101XX - 60X0EC**

Contact Quantity:  
(see Table)  
Note: 100 pos = A0

Wire Accommodation:  
0 = Black Cover: 28 AWG Stranded, 30 AWG Solid  
1 = Gray Cover: 26 AWG Solid (Available in 68 Contact Only)

Wiping Interface Plating:  
C = 30 μm [ 0.76 mm ] Min. Gold over Ni

IDC Plating:  
E = Gold Flash over Ni  
(App E1 & C1 apply)

TS-0423-B  
Sheet 2 of 3



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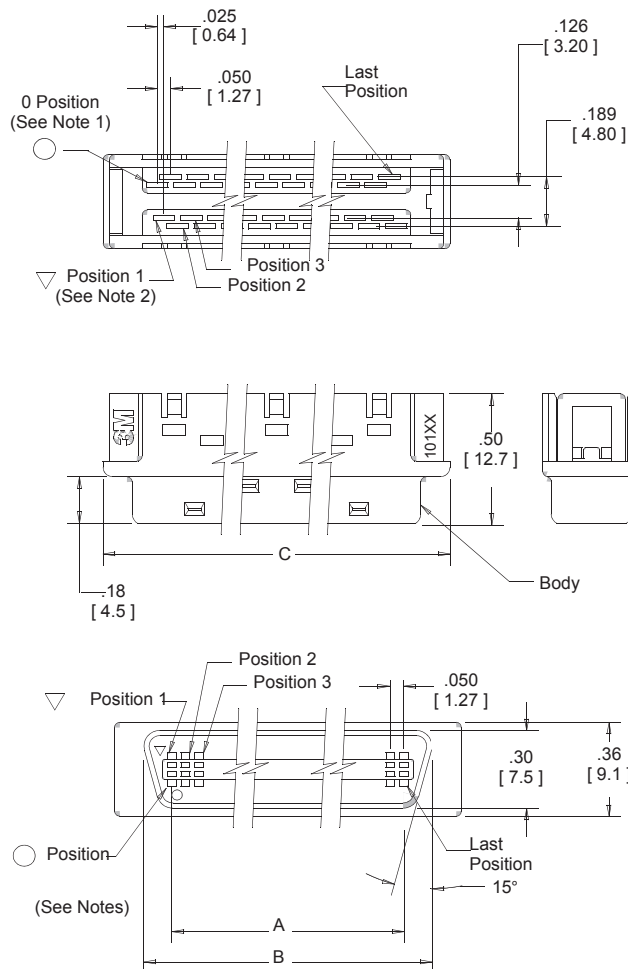
.050" IDC Wiremount Plug - Shielded

101 Series

| Contact Quantity | Dimensions      |               |               |               |
|------------------|-----------------|---------------|---------------|---------------|
|                  | A               | B             | C             | D             |
| 20               | .450 [ 11.43 ]  | .69 [ 17.6 ]  | .87 [ 22.0 ]  | .73 [ 18.6 ]  |
| 36               | .850 [ 21.59 ]  | 1.09 [ 27.8 ] | 1.27 [ 32.2 ] | 1.13 [ 28.7 ] |
| 40               | .950 [ 24.13 ]  | 1.19 [ 30.3 ] | 1.37 [ 34.7 ] | 1.23 [ 31.3 ] |
| 68               | 1.650 [ 41.91 ] | 1.89 [ 48.1 ] | 2.07 [ 52.5 ] | 1.93 [ 49.0 ] |
| 80               | 1.950 [ 49.53 ] | 2.16 [ 54.8 ] | 2.37 [ 60.1 ] | 2.23 [ 56.7 ] |
| 100              | 2.450 [ 62.23 ] | 2.66 [ 67.5 ] | 2.87 [ 72.8 ] | 2.73 [ 69.4 ] |



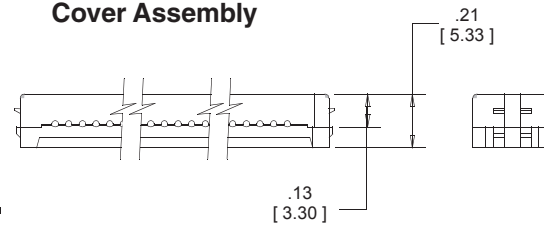
## Body (20, 36, 40, 68, 80 and 100 positions)



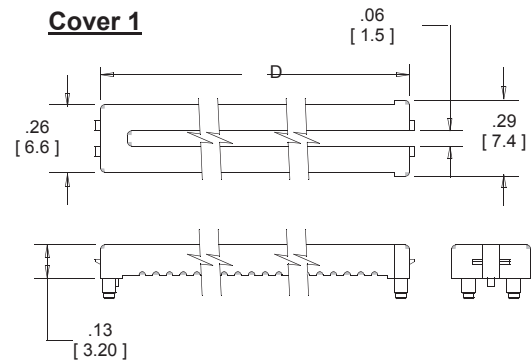
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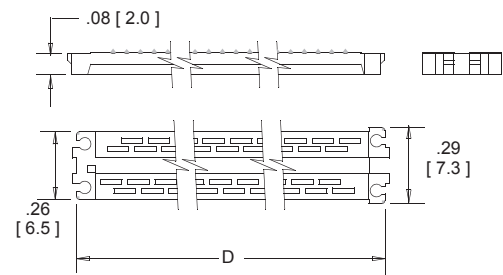
## Cover Assembly



## Cover 1



## Cover 2



inch  
[mm]

| Tolerance Unless Noted |     |      |       |
|------------------------|-----|------|-------|
|                        | .0  | .00  | 0.00  |
| inch                   | ±.1 | ±.01 | ±.005 |

[ ] Dimensions for  
Reference Only

## Ordering Information

Assembly tools: 3M™ Hand Press Kit 3829 (68 position & below). All Sizes: 3M™ Assembly Press 10960-2000; 3M™ Lacing Fixture 10962-2000, 3M™ Cutting Unit 10961 & 3M™ Wire Clamp 10964-1 (14-50 pos.) or 3M™ Wire Clamp 10964-2 (68-100 pos.).

Contact Quantity:  
(see Table)  
Note: 100 pos = A0

Wire Accommodation:

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101XX - 60X0EC

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over Ni

IDC Plating:  
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#### **3M Electronics Solutions Division**

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