

# 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

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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 μ" [2.0 μm] Nickel

Wiping Area Plating: 30 μ" [0.76 μm] 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

# 3M™ Mini D Ribbon (MDR) Connectors

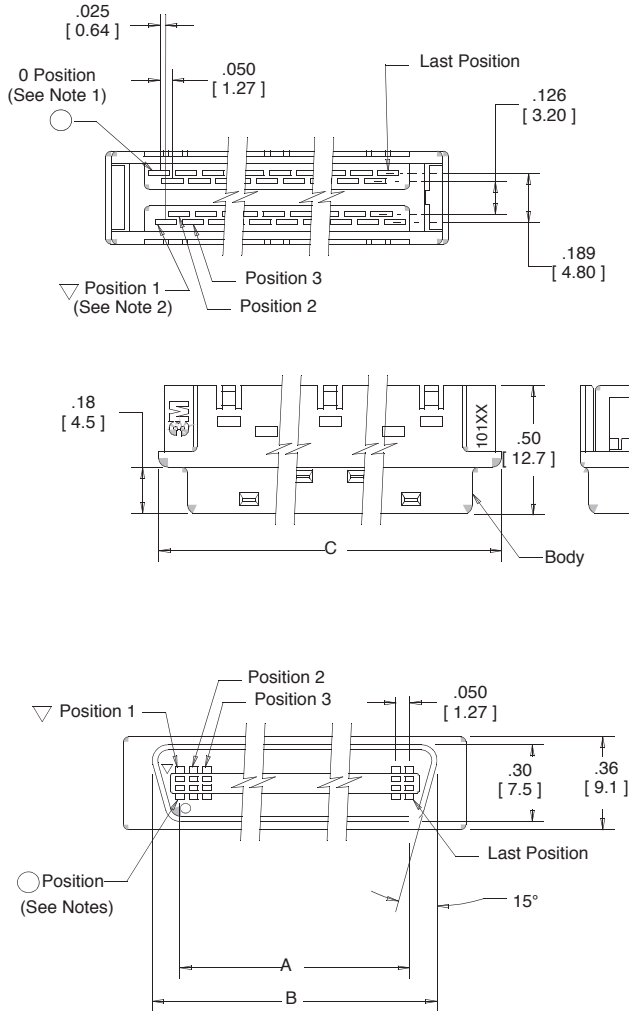
.050" IDC Wiremount Plug - Shielded

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 ]

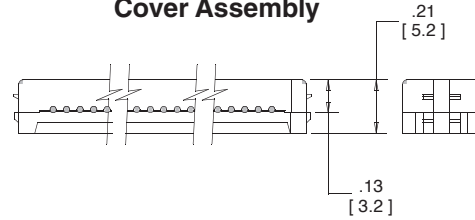
## Body (14, 26 and 50 positions)



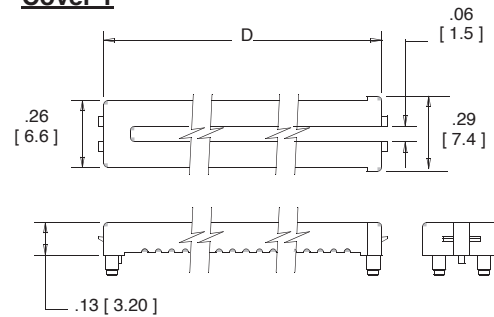
### Notes:

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

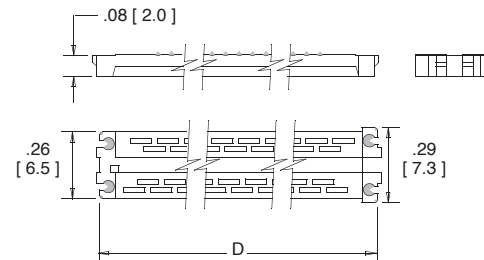
## Cover Assembly



### Cover 1



### Cover 2



inch [mm]			
Tolerance Unless Noted			
	.0	.00	0.00
inch	±.1	±.01	±.005

[ ] Dimensions for Reference Only

## Ordering Information

(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)

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Sheet 2 of 3

**3M**

Electronic Solutions Division  
Interconnect Solutions  
<http://www.3Mconnector.com>

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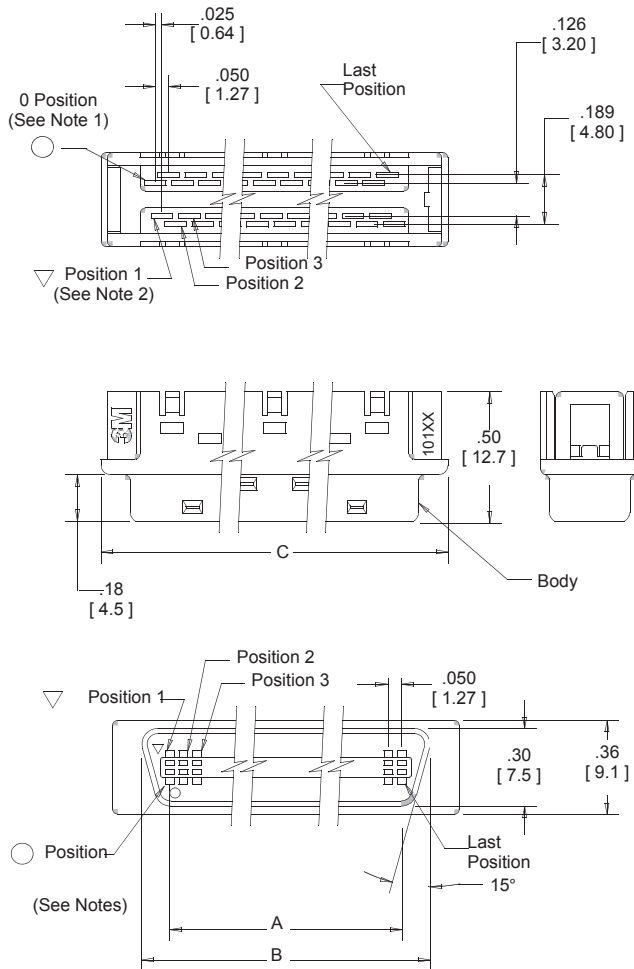
.050" IDC Wiremount Plug - Shielded

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]

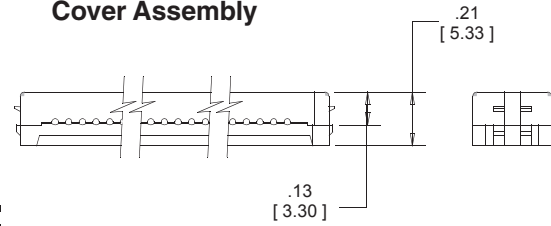
## Body (20, 36, 40, 68, 80 and 100 positions)



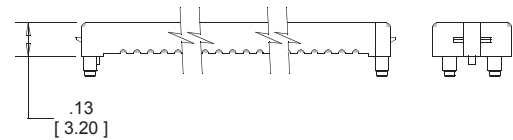
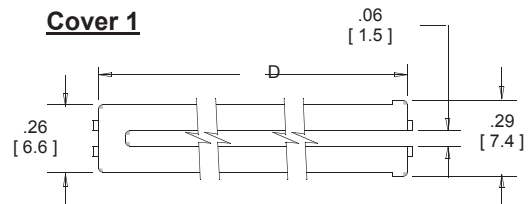
### Notes:

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

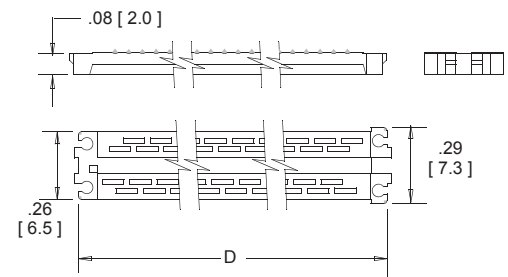
## Cover Assembly



## Cover 1



## Cover 2



inch  
[mm]

Tolerance Unless Noted		
	.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.).

## 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)

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