## 3M<sup>™</sup> Pleated Foil I/O Cable Assemblies

#### MDR Version



- Mates with standard 3M MDR Boardmount Headers
- Pleated copper foil provides a 360 degree shield

#### Overmolded Assemblies

- Available in 68, 80 and 100 Positions
- · Molded-in strain relief
- Can utilize either #4-40 or M2.5 thumbscrews
- Supplied as a complete assembly only

#### Metal Shell Assemblies

- Metal shells available in 20, 26, 36, 40, 50, 68, 80 and 100 Positions
- Offer quick release feature on 20 to 68 position for ease of installation
- 68, 80 and 100 positions available with thumbscrews
- · RoHS\* compliant

Date Modified: April 12, 2007

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## **Physical**

(Connector) Technical Specification: See TS-0423 for .050" Mini D-Ribbon (MDR)

(Cable) Construction: 0.025" Pleated Foil Shielded, 30 AWG (solid), TPE Primary

50 Ohm Technical Specifications: See TS-0285 for 90101 - Gray PVC Jacket

See TS-0402 for 90201 - Gray TPE Cover

See TS-0876 for 93101 - Low Skew, Gray PVC Jacket

75 Ohm Technical Specifications: See TS-0451 for 90111 - Gray PVC Jacket

See TS-0598 for 90211 - Gray TPE Cover

**(Shells)** Overmolded: 68, 80 and 100 positions, thumbscrews

Glass Reinforced Polyester (PBT) - Gray

Metal: See TS-0655 - 20, 26, 36 and 40 position, latching

See TS-0396 - 50 position, latching See TS-0355 - 68 position, latching

See TS-0666 - 68, 80 and 100 position, thumbscrew

(Jackscrews) Material: Steel

Plating: Nickel on #4-40

Zinc Trivalent Black on M2.5

## **Electrical**

Voltage Rating: 30 V

Impedance: See Pleated Foil Cable (PFC) Specifications

### **Environmental**

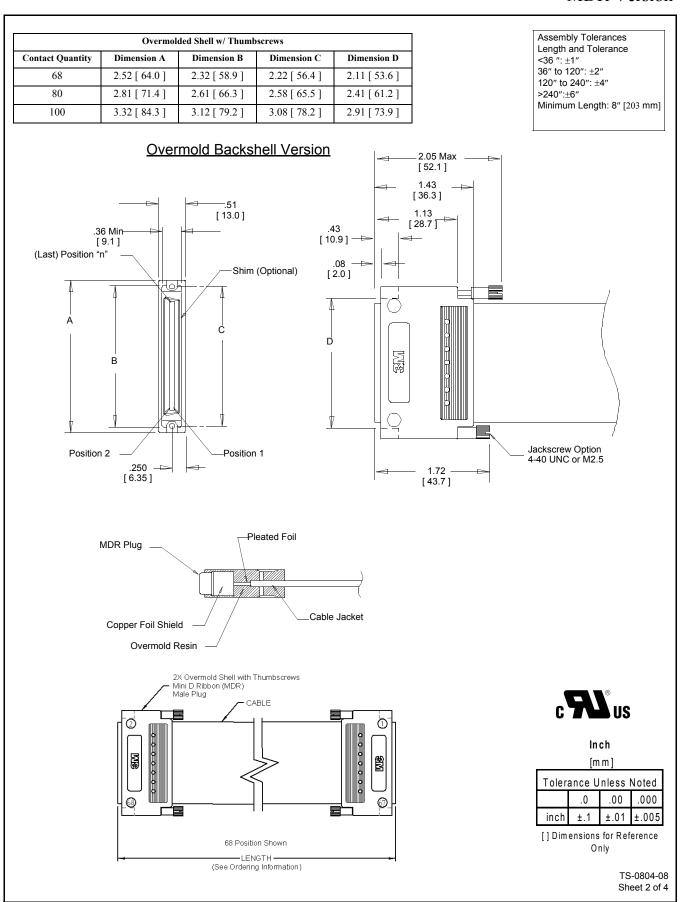
**Temperature Rating:** 75°C maximum

\*"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

UL File No.: E86982 In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

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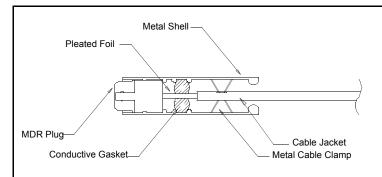
## MDR Version



800-225-5373

# 3M™ Pleated Foil I/O Cable Assemblies

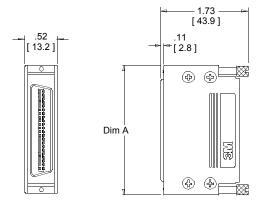
## MDR Version

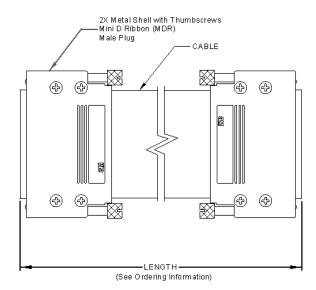


Assembly Tolerances Length and Tolerance <36": ±1" 36" to 120": ±2" 120" to 240": ±4" >240":±6" Minimum Length: 68-100 Position: 8" [203 mm]

### Metal Backshell with Thumbscrews Version

Metal Shell with Thumbscrews	
Contact Quantity	Dimension A
68	2.52 [ 64.0 ]
80	2.82 [ 71.6 ]
100	3.32 [ 84.3 ]





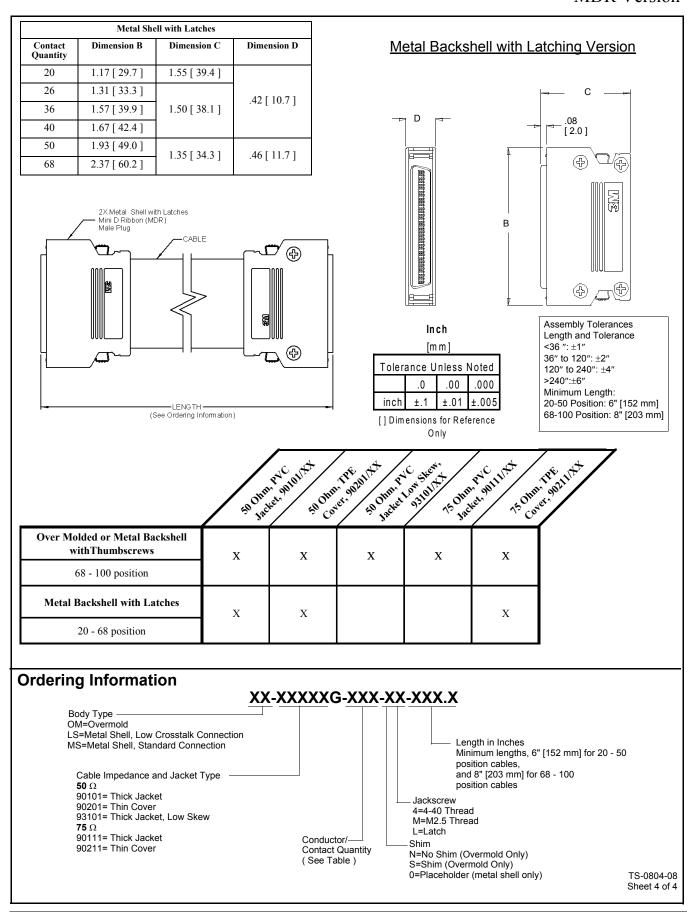
Note: There are two connector terminations available for Metal Shell Versions (see ordering information).

- 1. MS = Standard Connection for GSGSG, with Signals on wires 2, 4, 6, (etc.) places all the Grounds in the lower (Circle) row of the connector and all the signals in the upper (Triangle) row of the connector.
- 2. LS = Low Crosstalk Connection for GSGSG, with signals on wires 2, 4, 6, (etc.) places a GSGSG pattern on both the lower (Circle) and upper (Triangle) rows of the connector.
- 3. Metal junction shells come with either 2 or 4 screws, see individual tech sheet for details.

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## 3M™ Pleated Foil I/O Cable Assemblies

## MDR Version



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