

# 3M™ D Sub Plug

50 Position

8250 Series



- IDC compatible
- Dimples aid in EMI/ESD protection
- Lower insertion/withdrawal force than other 50 position products
- Available in either open or closed end cover
- Mounting options include #4-40 UNC or metric M2.5 threaded inserts
- Conforms to Intelligent Peripheral Interface (IPI) standard
- RoHS\* compliant

Date Modified: January 10, 2007

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## Physical

### Insulation

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

### Contact

Material: Copper Alloy

### Plating

Underplating: 100  $\mu$ " [ 2.54  $\mu$ m ] Nickel

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

### Shell

Material: Steel

Plating: Bright Nickel

**Strain Relief Material:** Stainless Steel - .020 [ 0.50 ] Thick

**Wire Accommodation:** 26 and 28 AWG Solid or Stranded

**Marking:** 3M Logo and Contact Position Numbers

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## Electrical

**Current Rating:** 1 A

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 V<sub>DC</sub>

**Withstanding Voltage:** 1000 V<sub>rms</sub> at Sea Level

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## Environmental

**Temperature Rating:** -55°C to +105°C

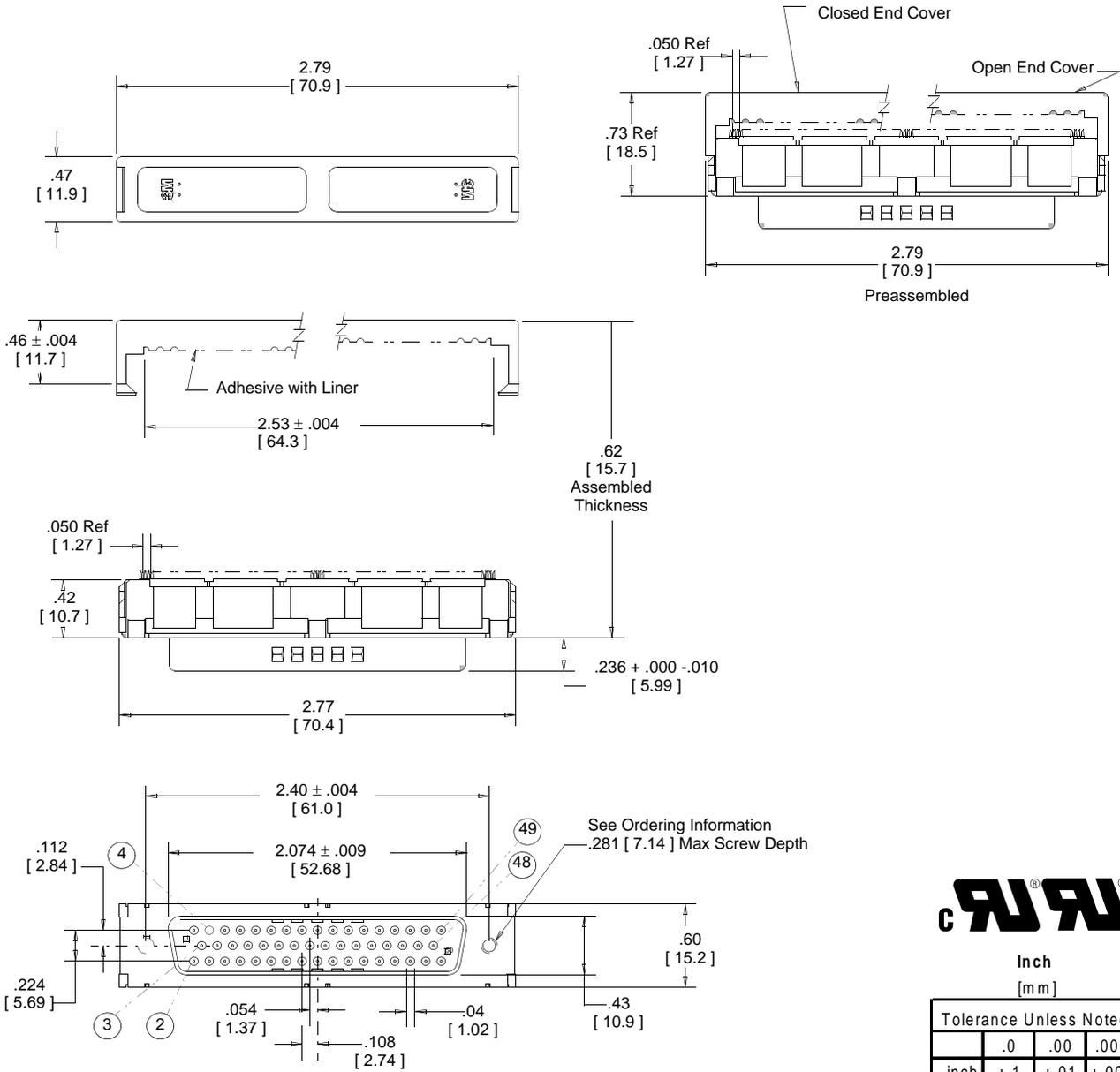
"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E68080

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Inch  
[mm]

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

[ ] Dimensions for Reference Only

**Notes:**

1. (XX) Circled Numbers represent cable conductor number.
2. Preassembled closed cover is on Pin #1 side.

## Ordering Information

**Connector  
8250-X00X**

Cover Style:  
6 = Open Cover  
7 = Closed Cover

Mounting Style:  
5 = 4-40 UNC  
6 = M2.5

**Strain Relief  
(Order Separately)  
3448-8D50**

Assembly tools: 3M™ Press, 3640 (or equivalent), 3M™ Locator Plate, 3443-112, 3M™ Platen, 3442-44

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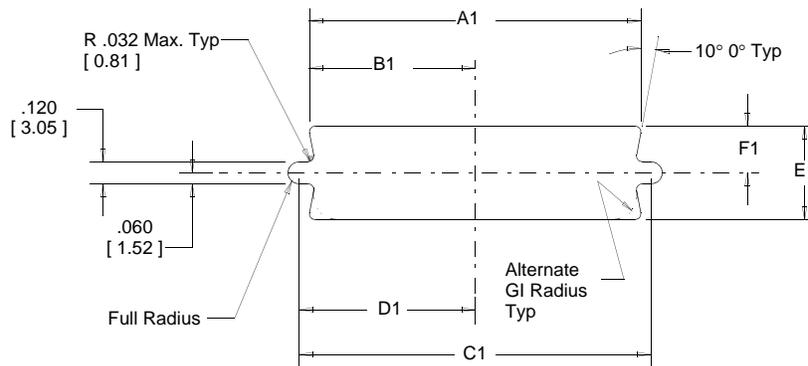
# 3M™ D Sub Plug

50 Position

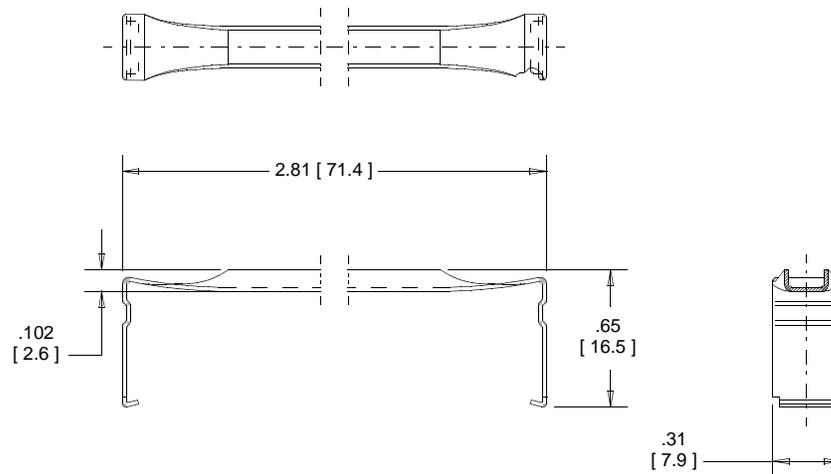
8250 Series

Mounting Method*	Contact Quantity	Dimensions						
		A1	B1	C1	D1	E1	F1	G1
Rear	50	2.218 [ 56.34 ]	1.109 [ 28.17 ]	2.40 [ 61.0 ]	1.20 [ 30.48 ]	0.525 [ 13.34 ]	0.26 [ 6.60 ]	0.120 [ 3.05 ]

Note: \*Rear Mount—The connector is mounted behind the panel.



Strain Relief  
(Order Separately or with Connector)  
Material: Stainless Steel



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### 3M Electronics

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Minimum 10%  
Post-Consumer Fiber

Printed in USA.

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