

## 3M™ D Sub Plug Connector

### 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
- Regulatory Information: Visit 3M.com/regs or contact your 3M representative to find the RoHS compliance status of the 3M part you are interested in.

Date Modified: July 29, 2019

Physical	
Insulation: Material Flammability Color	Glass Filled Polyester (PBT) UL 94V-0 Gray
Contact: Material	Copper Alloy
Plating: Underplating Wiping Area	100 μ" [ 2.54 μm ] Nickel 30 μ" [ 0.76 μm ] Gold
Shell: Material Plating	Steel Bright Nickel
Strain Relief Material	Stainless Steel020 [ 0.50 ] Thick
Wire Accommodation	26 and 28 AWG Solid or Stranded
Marking	3M Logo and Contact Position Numbers

Electrical	
Current Rating	1A
Insulation Resistance	> 1 × 10 <sup>9</sup> Ω at 500 V <sub>DC</sub>
Withstanding Voltage	1,000 V <sub>RMS</sub> at Sea Level

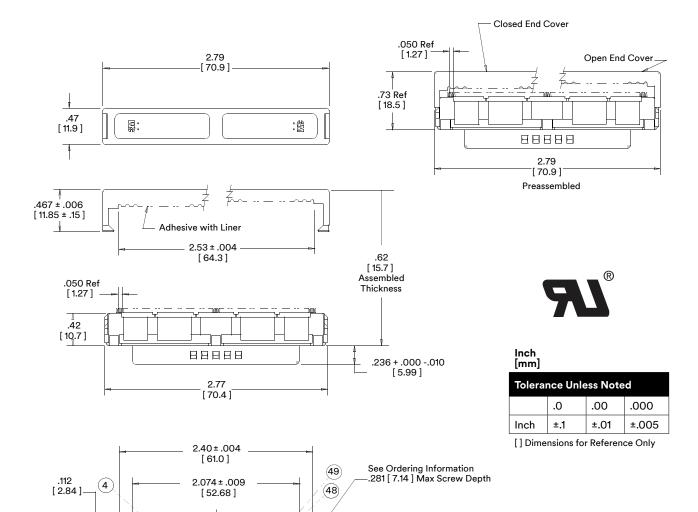
Environmental	
Temperature Rating	-55°C to +105°C

UL File No.: E68080



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#### Notes:

.224 [5.69]

1. Circled Numbers represent cable conductor number. (xx)

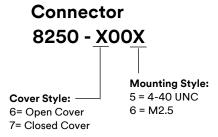
.054

[1.37]

2. Preassembled closed cover is on Pin #1 side.

(3)

### **Ordering Information**



.108 [ 2.74 ] [1.02]

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

Assembly Tools: 3M<sup>™</sup> Standard Assembly Press 3640 (or equivalent), 3M<sup>™</sup> Locator Plate 3443-112, 3M<sup>™</sup> Platen 3442-44

.60 [15.2]

.43

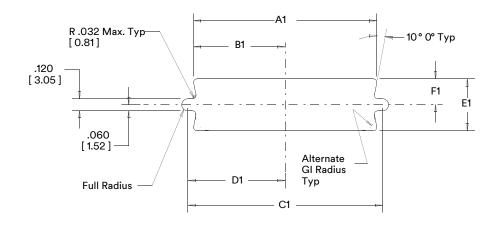
[10.9]

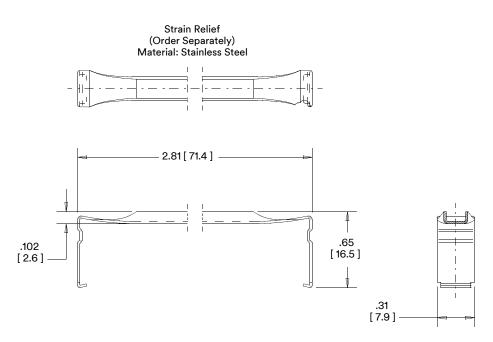
# **3M™ D Sub Plug Connector**

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Mounting Method*		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]	

<sup>\*</sup>Rear Mount - The connector is mounted behind the panel.





http://www.3M.com/interconnect

Regulatory: For regulatory information about this product, visit 3M.com/regs or contact your 3M representative.

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