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.**
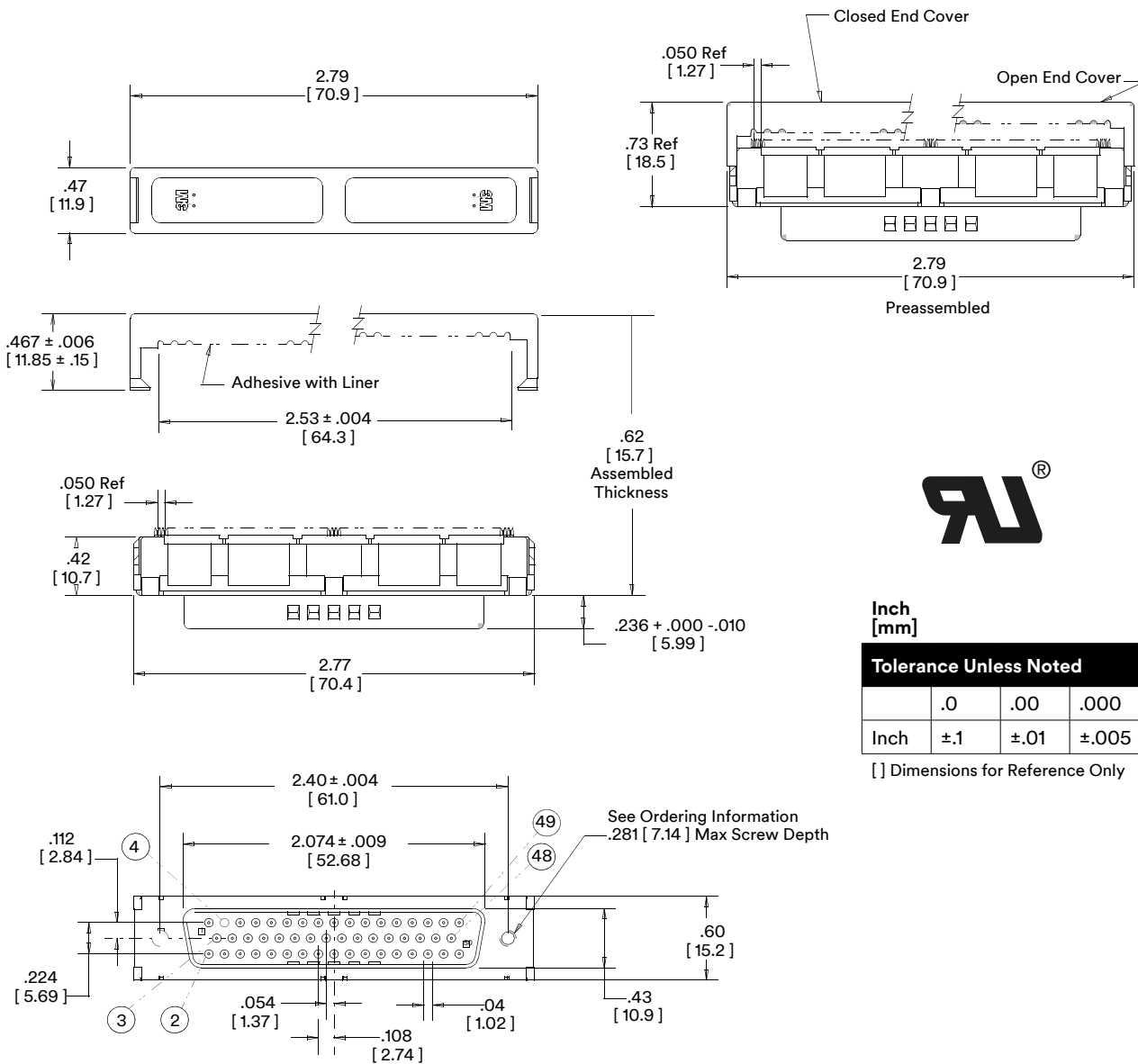
Date Modified: July 29, 2019

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 Steel - .020 [0.50] Thick
Wire Accommodation	26 and 28 AWG Solid or Stranded
Marking	3M Logo and Contact Position Numbers

Electrical

Current Rating	1 A
Insulation Resistance	$> 1 \times 10^9 \Omega$ at 500 V_{DC}
Withstanding Voltage	1,000 V_{RMS} at Sea Level

Environmental

Temperature Rating	-55°C to +105°C

UL File No.: E68080

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Closed End Cover

Open End Cover

2.79
[70.9]

.47
[11.9]

.050 Ref
[1.27]

.73 Ref
[18.5]

2.79
[70.9]

Preassembled

.467 ± .006
[11.85 ± .15]

Adhesive with Liner

2.53 ± .004
[64.3]

.62
[15.7]
Assembled
Thickness

.050 Ref
[1.27]

.42
[10.7]

.236 + .000 -.010
[5.99]

2.77
[70.4]

®

UR

Inch
[mm]

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

[ ] Dimensions for Reference Only

2.40 ± .004
[61.0]

49

See Ordering Information
.281 [7.14] Max Screw Depth

.112
[2.84]

4

2.074 ± .009
[52.68]

48

.224
[5.69]

3   2

.054
[1.37]

.108
[2.74]

.04
[1.02]

.43
[10.9]

.60
[15.2]

Notes:

1. 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™ Standard Assembly Press 3640 (or equivalent), 3M™ Locator Plate 3443-112, 3M™ Platen 3442-44

3M

Electronics Materials Solutions Division
Interconnect Solutions
http://www.3M.com/interconnect

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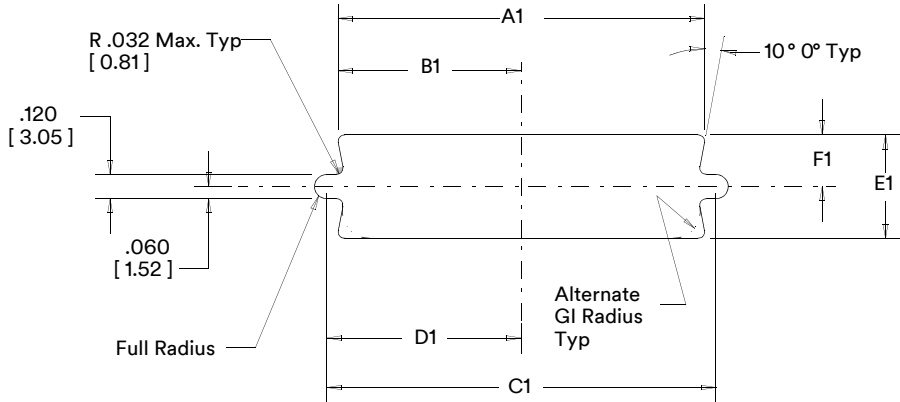For technical sales or ordering information call
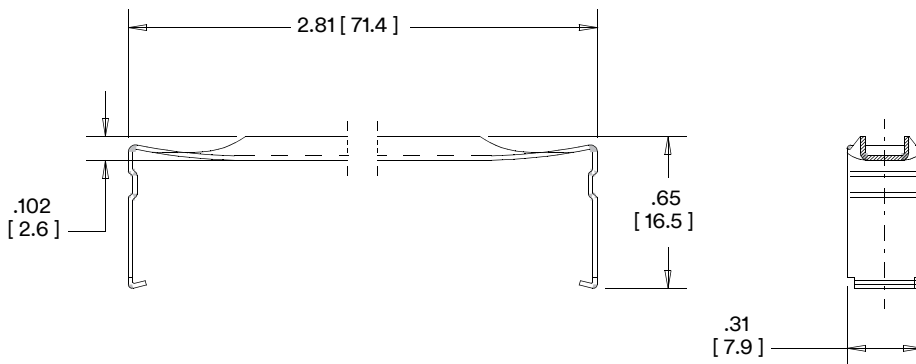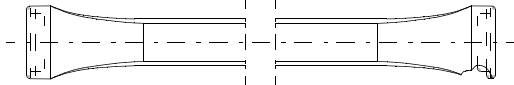**800-225-5373**

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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]

*Rear Mount - The connector is mounted behind the panel.

R .032 Max. Typ [0.81]

10 ° 0° Typ

.120 [3.05]

F1

E1

.060 [1.52]

Full Radius

Alternate GI Radius Typ

D1

C1

A1

B1

Strain Relief
(Order Separately)
Material: Stainless Steel

2.81 [71.4]

.102 [2.6]

.65 [16.5]

.31 [7.9]

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

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