

# 3M™ D Sub Socket, 8300 Series

Socket Connector

8300 Series



- Available in either open or closed end cover
- Available in preassembled open cover
- Improved metal strain relief - hooks directly to metal shell
- Low profile
- Four mounting options
- See Regulatory Information Appendix (RIA) in the “RoHS compliance” section [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: March 15, 2017

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## Physical

### Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

**Contact Material:** Copper Alloy

### Plating:

Underplating: 50  $\mu$ " [ 1.27  $\mu$ m ] min Nickel

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

### Shell:

Material: Steel

Plating: Tin

**Strain Relief Material:** Stainless Steel .016 [ 0.40 ] 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<sub>DC</sub>

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

## Environmental

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

UL File No.: E68080



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Interconnect Solutions  
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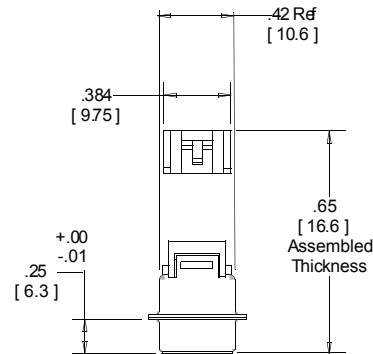
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Contact Quantity	Dimensions						
	A	B	C	D	E	F ± .008	G
9	1.23 [31.2]	0.64 [16.33]	0.98 [25.0]	0.46 [11.75]	0.67 [16.92]	0.70 [17.9]	0.04 [1.0]
15	1.54 [39.2]	0.97 [24.67]	1.31 [33.3]	0.76 [19.4]	0.99 [25.2]	1.03 [26.1]	0.05 [1.2]
25	2.09 [53.0]	1.51 [38.37]	1.85 [47.0]	1.27 [32.2]	1.54 [39.0]	1.56 [39.7]	0.06 [1.4]
37	2.73 [69.4]	2.16 [54.82]	2.50 [63.5]	1.87 [47.6]	2.19 [55.56]	2.22 [56.3]	0.07 [1.8]



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

[ ] Dimensions for Reference Only

## Ordering Information

**Connector**  
**83XX - X00X**

Contact Quantity

Cover Style:  
6= Open Cover  
7= Closed Cover  
8=Open Cover,  
W/O Adhesive, Preassembled

Mounting Style:  
0 = Ø .120 [ 3.05 ] (E1 & C1 apply)  
3 = 4-40 UNC (E5 & C3 apply)  
9 = Rivet Crimp (E1 & C1 apply)

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

09 = 9 Position  
15 = 15 Position  
25 = 25 Position  
37 = 37 Position

Assembly tools: 3M™ Standard Assembly Press 3640 (or equivalent), 3M™ Locator Plate, 3443-106N, 3M™ Platen 3442-9.

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Mounting Method*	Contact Quantity	Dimensions						
		A1	B1	C1	D1	E1	F1	G1
Front	9	.87 [ 22.0 ]	.44 [ 11.2 ]	.98 [ 24.9 ]	.49 [ 12.5 ]	.51 [13.0]	.26 [6.6]	.12 [3.0]
	15	1.20 [ 30.5 ]	.60 [ 15.2 ]	1.31 [ 33.3 ]	.66 [ 16.8 ]			
	25	1.74 [ 44.2 ]	.87 [ 22.1 ]	1.85 [ 47.0 ]	.93 [ 23.6 ]			
	37	2.39 [ 60.7 ]	1.20 [ 30.5 ]	2.50 [ 63.5 ]	1.25 [ 31.8 ]			
Rear	9	0.81 [ 20.6 ]	.40 [ 10.2 ]	.98 [ 25.0 ]	.49 [ 12.5 ]	0.45 [11.4]	0.22 [5.6]	.12 [3.0]
	15	1.13 [ 28.7 ]	.57 [ 14.5 ]	1.31 [ 33.3 ]	.66 [ 16.8 ]			
	25	1.67 [ 42.4 ]	.84 [ 21.3 ]	1.85 [ 47.0 ]	.93 [ 23.6 ]			
	37	2.33 [ 59.2 ]	1.16 [ 29.5 ]	2.50 [ 63.5 ]	1.25 [ 31.8 ]			

Front Mount-The connector is mounted in front of the panel.

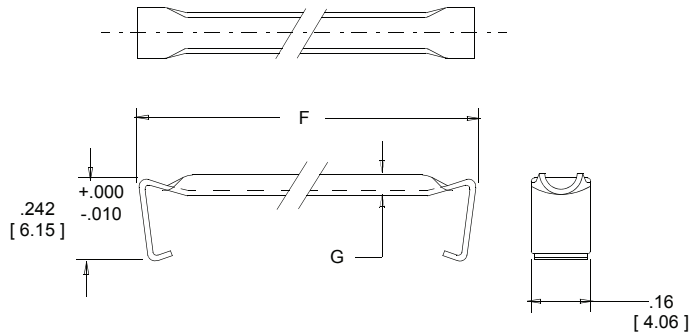
Rear Mount-The connector is mounted behind the panel.



### Mounting Styles



### Strain Relief (Order Separately) Material: Stainless Steel



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3M Electronics Materials Solutions Division  
6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnectors.com](http://www.3Mconnectors.com)

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