

# 3M™ DIN C-Form Socket

Vertical, Solder Tail or Press-Fit Termination

DIN 41612 Series



- Multi-pin count socket compatible with VME, Multibus II, and VXI backpanels
- Expanded pin counts
- Optional press-fit or solder tail termination
- Mates with C-form and R-form plugs
- Optional retention clip
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of [www.3M.com/Interconnects](http://www.3M.com/Interconnects) for compliance information (RIA E1 & C1 apply)

Date Modified: February 2, 2010

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## Physical

### Insulation:

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 50  $\mu$ " Min. Nickel

Wiping Area: See Ordering Information

Termination: See Ordering Information

## Electrical

Current Rating: 3.0A at 30°C T-rise above Ambient

Contact Resistance:  $\leq 20\text{ m}\Omega$

Insulation Resistance:  $\geq 1,000\text{ M}\Omega, 100\text{V}_{\text{DC}}$

Withstanding Voltage: 1,000  $\text{V}_{\text{AC}}$  for 1 minute

## Environmental

**Temperature Rating:** -55°C to 125°C

**Process Temperature Rating:** Maximum Insulator Temperature 191°C (solder wave process only)

UL File No.: E68080



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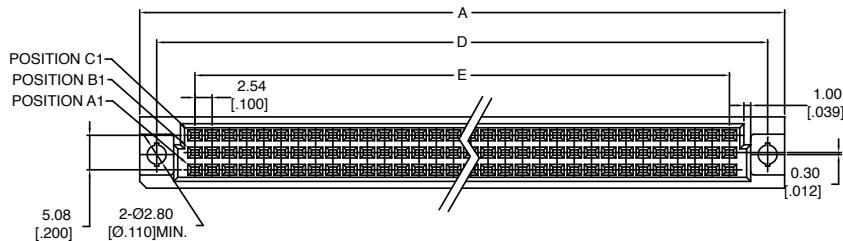
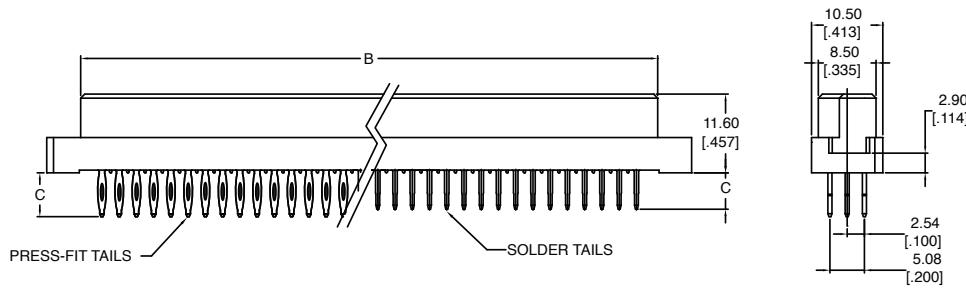
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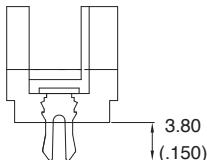
Table 1

Contact Quantity	Part Number	A	B	D	E
16	DIN-016CSA-XXX-XXXX	54.40 [2.142]	44.40 [1.748]	50.00 [1.969]	38.10 [1.500]
32	DIN-032CSB-XXX-XXXX	54.40 [2.142]	44.40 [1.748]	50.00 [1.969]	38.10 [1.500]
48	DIN-048CSC-XXX-XXXX	54.40 [2.142]	44.40 [1.748]	50.00 [1.969]	38.10 [1.500]
32	DIN-032CSD-XXX-XXXX	54.40 [2.142]	44.40 [1.748]	50.00 [1.969]	38.10 [1.500]
16	DIN-016CSE-XXX-XXXX	54.40 [2.142]	44.40 [1.748]	50.00 [1.969]	38.10 [1.500]
32	DIN-032CSA-XXX-XXXX	95.00 [3.740]	85.00 [3.346]	90.00 [3.543]	78.74 [3.100]
64	DIN-064CSB-XXX-XXXX	95.00 [3.740]	85.00 [3.346]	90.00 [3.543]	78.74 [3.100]
96	DIN-096CSC-XXX-XXXX	95.00 [3.740]	85.00 [3.346]	90.00 [3.543]	78.74 [3.100]
64	DIN-064CSD-XXX-XXXX	95.00 [3.740]	85.00 [3.346]	90.00 [3.543]	78.74 [3.100]
32	DIN-032CSE-XXX-XXXX	95.00 [3.740]	85.00 [3.346]	90.00 [3.543]	78.74 [3.100]



Tolerance Unless Noted			
	X.	.X	.XX
mm	± 0.50	± 0.25	± 0.15

[ ] Dimension for Reference Only



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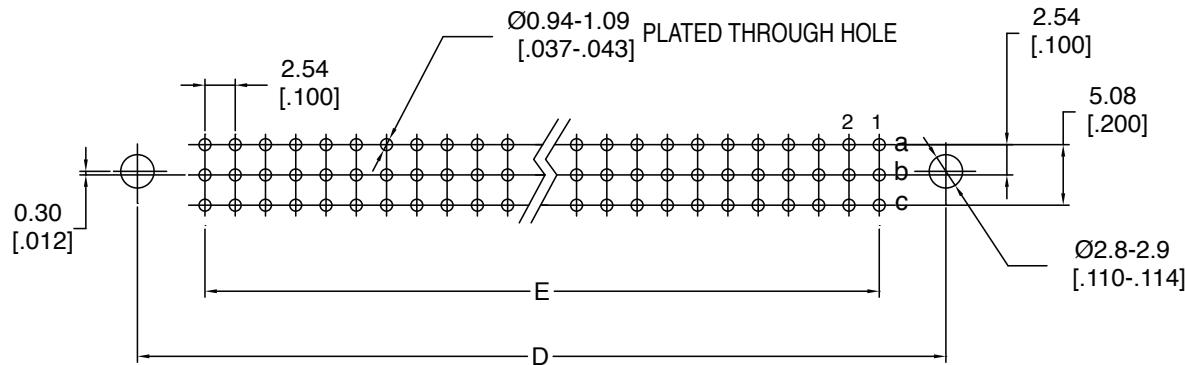
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## RECOMMENDED PCB LAYOUT

### Ordering Information

DIN - XXXCS X - XXX - XX

Contact Quantity  
SEE TABLE 1

A = A Row only (see note)  
B = Rows A & C Filled  
C = Rows A, B & C Filled  
D = Rows A & B Filled  
E = B Row only (see note)

Termination Options:  
SEE TABLE 2

Plating Options:  
SH = 1 - 3  $\mu$ " Gold on Contact  
120 - 200  $\mu$ " Matte Tin on Terminal  
FJ = 10 - 20  $\mu$ " Gold on Contact  
120 - 200  $\mu$ " Matte Tin on Terminal  
KR = 30 - 40  $\mu$ " Gold on Contact  
120 - 200  $\mu$ " Matte Tin on Terminal  
HM = 3  $\mu$ " Gold on Contact, 7  $\mu$ " Min. PdNi  
120 - 200  $\mu$ " Matte Tin on Terminal  
KV = 30  $\mu$ " Gold on contact area, 1 - 3  $\mu$ " Gold  
on Board Termination

Table 2

SOLDER TERMINATION OPTION NO.	DIM "C" mm (in)	Comments
R1L	3.75 (.148)	with Retention Clips
R3L	2.29 (.090)	with Retention Clips
S1L	3.75 (.148)	no Retention Clips
S3L	2.29 (.090)	no Retention Clips
W	14.70 (.579)	no Retention Clips
PRESS-FIT TERMINATION OPTION NO.		
PS	5.99 (.236)	
PSL	4.25 (.167)	
PW1	12.90 (.508)	

Note: A and E options are not currently covered in UL File No. E68080

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