

# 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:  $\leq 20$  m $\Omega$   
Insulation Resistance:  $\geq 1,000$  M $\Omega$ , 100V<sub>DC</sub>  
Withstanding Voltage: 1,000 V<sub>AC</sub> 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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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] |



mm  
[inch]

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

[ ] Dimension for Reference Only



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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  $\mu$ m Gold on Contact  
120 - 200  $\mu$ m Matte Tin on Terminal  
FJ = 10 - 20  $\mu$ m Gold on Contact  
120 - 200  $\mu$ m Matte Tin on Terminal  
KR = 30 - 40  $\mu$ m Gold on Contact  
120 - 200  $\mu$ m Matte Tin on Terminal  
HM = 3  $\mu$ m Gold on Contact, 7  $\mu$ m Min. PdNi  
120 - 200  $\mu$ m Matte Tin on Terminal  
KV = 30  $\mu$ m Gold on contact area, 1 - 3  $\mu$ m 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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