

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 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 μ ” 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: ≤ 20 m Ω
Insulation Resistance: $\geq 1,000$ M Ω , 100V_{DC}
Withstanding Voltage: 1,000 V_{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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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 μ m Gold on Contact
120 - 200 μ m Matte Tin on Terminal
FJ = 10 - 20 μ m Gold on Contact
120 - 200 μ m Matte Tin on Terminal
KR = 30 - 40 μ m Gold on Contact
120 - 200 μ m Matte Tin on Terminal
HM = 3 μ m Gold on Contact, 7 μ m Min. PdNi
120 - 200 μ m Matte Tin on Terminal
KV = 30 μ m Gold on contact area, 1 - 3 μ 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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