

# 3M™ DIN C Form Plug

Right Angle, Solder Tail Termination

DIN 41612 Series



- Multi-pin count socket compatible with VME, VXI and Multibus II daughter cards
- Early mate late break (EMLB) grounding contacts for hot swapping
- Expanded pin counts
- Optional retention clips
- Mates with C-form and R-form sockets
- 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



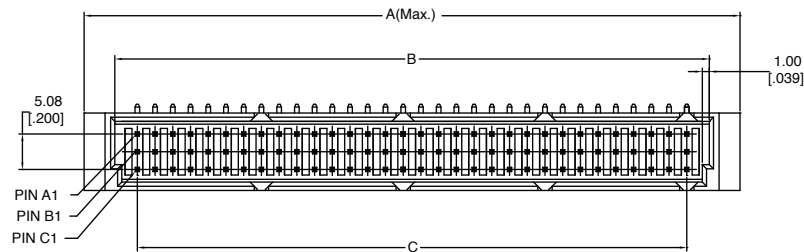
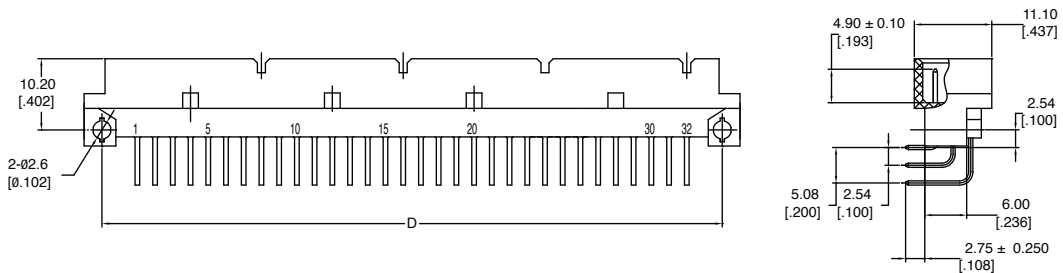
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Table 1

| Contact Quantity | Part Number         | A             | B             | C             | D             |
|------------------|---------------------|---------------|---------------|---------------|---------------|
| 16               | DIN-016CPA-XXX-XXXX | 54.40 [2.142] | 44.56 [1.754] | 38.10 [1.500] | 48.26 [1.900] |
| 32               | DIN-032CPB-XXX-XXXX | 54.40 [2.142] | 44.56 [1.754] | 38.10 [1.500] | 48.26 [1.900] |
| 48               | DIN-048CPC-XXX-XXXX | 54.40 [2.142] | 44.56 [1.754] | 38.10 [1.500] | 48.26 [1.900] |
| 32               | DIN-032CPD-XXX-XXXX | 54.40 [2.142] | 44.56 [1.754] | 38.10 [1.500] | 48.26 [1.900] |
| 16               | DIN-016CPE-XXX-XXXX | 54.40 [2.142] | 44.56 [1.754] | 38.10 [1.500] | 48.26 [1.900] |
| 32               | DIN-032CPA-XXX-XXXX | 94.00 [3.701] | 85.20 [3.354] | 78.74 [3.100] | 88.90 [3.500] |
| 64               | DIN-064CPB-XXX-XXXX | 94.00 [3.701] | 85.20 [3.354] | 78.74 [3.100] | 88.90 [3.500] |
| 96               | DIN-096CPC-XXX-XXXX | 94.00 [3.701] | 85.20 [3.354] | 78.74 [3.100] | 88.90 [3.500] |
| 64               | DIN-064CPD-XXX-XXXX | 94.00 [3.701] | 85.20 [3.354] | 78.74 [3.100] | 88.90 [3.500] |
| 32               | DIN-032CPE-XXX-XXXX | 94.00 [3.701] | 85.20 [3.354] | 78.74 [3.100] | 88.90 [3.500] |



RR1  
WITH "A" RETENTION CLIP  
for .062 and .093 PCB thickness

SR1  
WITHOUT RETENTION CLIP

RR1L  
WITH "B" RETENTION CLIPS  
for .062 PCB thickness

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 - XXXCP X - XXX - XX**

Contact Quantity  
SEE TABLE

- 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)

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

Termination Options:

- Solder Tail Termination
- SR1 = 2.75 [.108]
- RR1L = 2.75 [.108] with 'B' retention clips
- RR1 = 2.75 (.108) with "A" retention clips

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

• This diagram serves only for Part Number descriptive definitions.

PLEASE CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR CUSTOMER SPECIFIC PRODUCT CONFIGURATIONS.

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