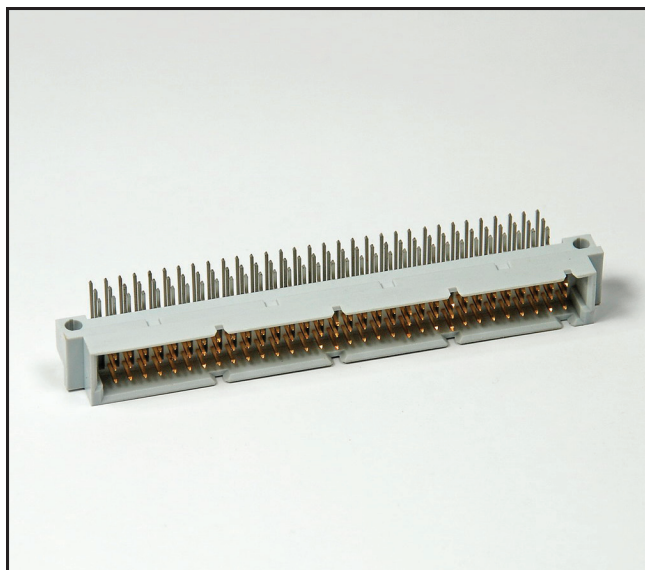


3M™ DIN C Form Plug

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 for compliance information (RIA E1 & C1 apply)

Date Modified: February 2, 2010

TS-2305-E
Sheet 1 of 3

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



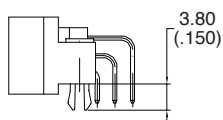
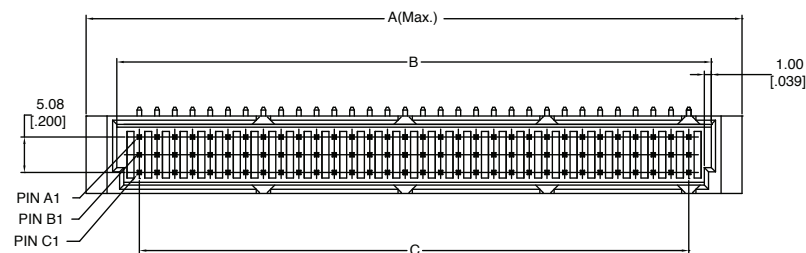
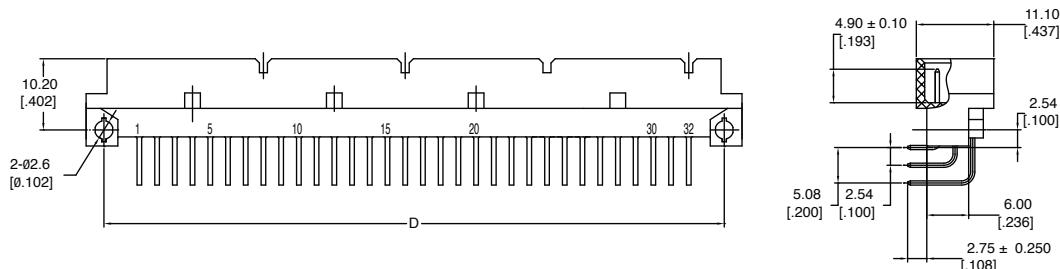
3M™ DIN C Form Plug

Right Angle, Solder Tail Termination

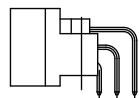
DIN 41612 Series

Table 1

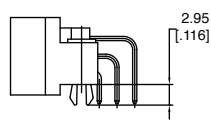
Contact Quantity	Part Number	A	B	C	D
16	DIN-016CPA-XXX-XXXX	54.40 [2.142]	44.56 [1.754]	38.10 [1.500]	48.26 [1.900]
32	DIN-032CPB-XXX-XXXX	54.40 [2.142]	44.56 [1.754]	38.10 [1.500]	48.26 [1.900]
48	DIN-048CPC-XXX-XXXX	54.40 [2.142]	44.56 [1.754]	38.10 [1.500]	48.26 [1.900]
32	DIN-032CPD-XXX-XXXX	54.40 [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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Sheet 2 of 3

3M

Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnector.com>

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Right Angle, Solder Tail Termination

Technical drawing of a plated through hole (PTH) showing dimensions and tolerances. The drawing includes a cross-section view on the left and a top view on the right. The cross-section view shows a hole with a diameter of $\varnothing 0.94-1.09$ [0.037-.043] and a wall thickness of 2.54 [0.100]. The top view shows a rectangular plate with a width of 5.30 [0.209] and a length of 5.08 [0.200]. The hole is located 2.54 [0.100] from the left edge and 2.54 [0.100] from the top edge. The hole is labeled "PLATED THROUGH HOLE". The drawing also includes a section line "C-C" and a dimension "C" indicating the length of the hole. The hole is labeled with "a", "b", and "c" at the top, bottom, and center respectively. The drawing also includes a dimension "D" indicating the length of the plate. The hole is labeled with "Ø2.8-2.9 [0.110-.114]" at the bottom right.

Ordering Information

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 μ " Gold on Contact
120 - 200 μ " Matte Tin on Terminal

FJ = 10 - 20 μ " Gold on Contact
120 - 200 μ " Matte Tin on Terminal

KR = 30 - 40 μ " Gold on Contact
120 - 200 μ " Matte Tin on Terminal

HM = 3 μ " Gold on Contact, 7 μ " Min. PdNi
120 - 200 μ " 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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Sheet 3 of 3

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