

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

TS-2306-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



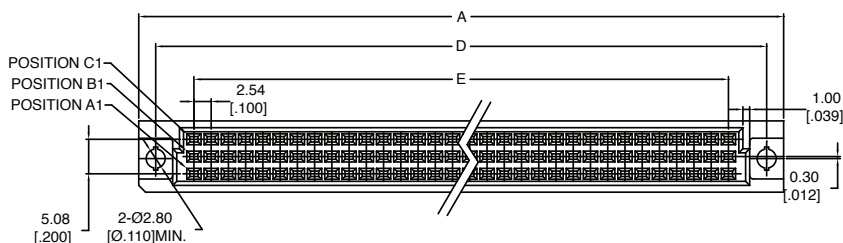
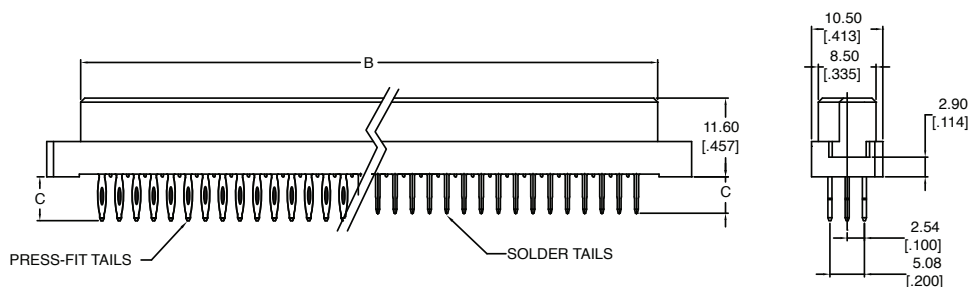
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Table 1

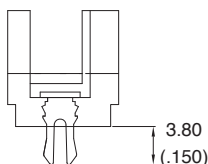
Contact Quantity	Part Number	A	B	D	E
16	DIN-016CSA-XXX-XXXX	54.40 [2.142]	44.40 [1.748]	50.00 [1.969]	38.10 [1.500]
32	DIN-032CSB-XXX-XXXX	54.40 [2.142]	44.40 [1.748]	50.00 [1.969]	38.10 [1.500]
48	DIN-048CSC-XXX-XXXX	54.40 [2.142]	44.40 [1.748]	50.00 [1.969]	38.10 [1.500]
32	DIN-032CSD-XXX-XXXX	54.40 [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

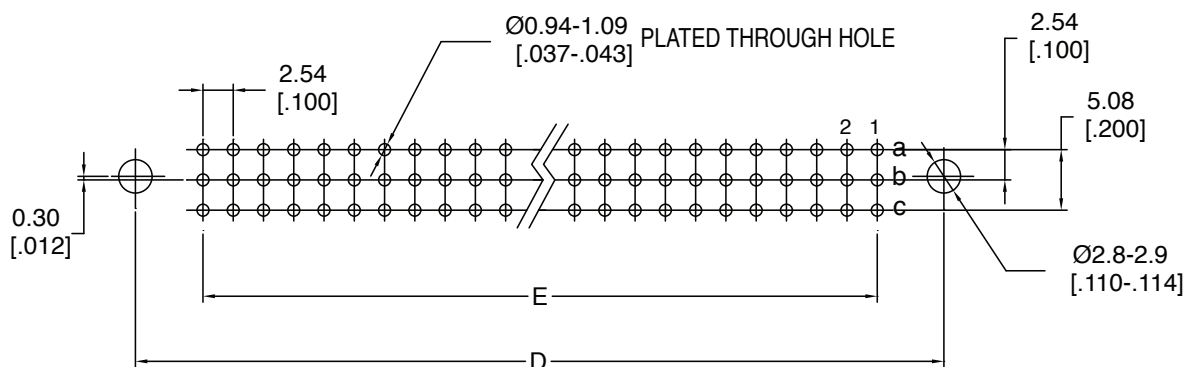


TS-2306-E
Sheet 2 of 3

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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 " 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

KV = 30 μ " Gold on contact area, 1 - 3 μ " 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

TS-2306-E
Sheet 3 of 3



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Interconnect Solutions
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[DIN-032CSA-R1L-KR](#) [DIN-032CSB-R1L-KR](#) [DIN-032CSD-R1L-KR](#) [DIN-032CSE-R1L-KR](#) [DIN-048CSC-R1L-FJ](#) [DIN-](#)
[064CSD-R1L-KR](#) [DIN-096CSC-W-KV](#) [DIN-032CSB-R1L-SH](#) [DIN-048CSC-R1L-SH](#) [DIN-096CSC-S1L-KV](#) [DIN-](#)
[016CSA-R1L-FJ](#) [DIN-016CSA-R1L-SH](#) [DIN-016CSE-R1L-FJ](#) [DIN-016CSE-R1L-SH](#) [DIN-032CSA-R1L-FJ](#) [DIN-](#)
[032CSA-R1L-HM](#) [DIN-032CSA-R1L-SH](#) [DIN-032CSB-R1L-FJ](#) [DIN-032CSD-R1L-FJ](#) [DIN-032CSD-R1L-SH](#) [DIN-](#)
[032CSE-R1L-FJ](#) [DIN-032CSE-R1L-HM](#) [DIN-032CSE-R1L-SH](#) [DIN-064CSB-R1L-FJ](#) [DIN-064CSB-R1L-SH](#) [DIN-](#)
[064CSD-R1L-FJ](#) [DIN-064CSD-R1L-HM](#) [DIN-064CSD-R1L-SH](#) [DIN-096CSC-R1L-FJ](#) [DIN-096CSC-R1L-SH](#) [DIN-](#)
[120CSC-R1L-HS](#) [DIN-120CSC-R1L-MH](#) [DIN-120CSC-S1L-HS](#) [DIN-32CSBCES70305-HM](#) [DIN-064CSB-R1L-KR](#)
[DIN-048CSC-PSL-HM](#) [DIN-096CSC-S1L-HM](#) [DIN-096CSC-S3L-HM](#) [DIN-064CSB-S1L-HM](#) [DIN-096CSC-PW1-HM](#)
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[DIN-016CSE-PSL-KR](#) [DIN-016CSE-PSL-SH](#) [DIN-016CSE-PS-SH](#) [DIN-016CSE-PW1-FJ](#) [DIN-016CSE-PW1-HM](#) [DIN-](#)
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