D-SUBMINIATURE

STRAIGHT PCB & WIRE WRAP PCB TAIL

DPT, DST, DPE & DSE SERIES

INTRODUCTION:
Adam Tech Straight PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost, sturdy, full metal body industry standard connection. These connectors are manufactured with precision stamped or machined turned contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:
Industry standard compatibility
Durable metal shell design
Precision formed contacts
Variety of Mating and mounting options

MATING CONNECTORS:
Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:
Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:
Gold over Nickel underplate on contact area.

Electrical:
Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

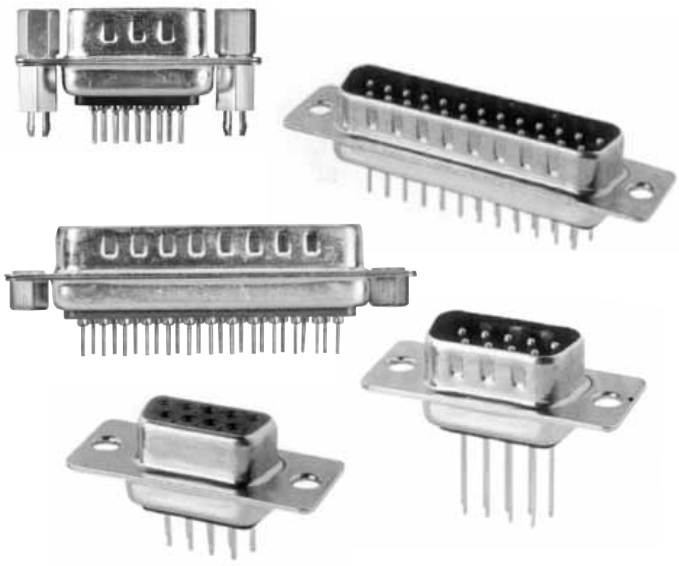
Mechanical:
Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:
UL Recognized & CSA Certified, File no. E224053

c UL us · RoHS COMPLIANT · HI-TEMP INSULATOR AVAILABLE



ORDERING INFORMATION

DB25 — **ST** — **1** — **SL**

SHELL SIZE/ POSITIONS
DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position
DD50 = 50 Position

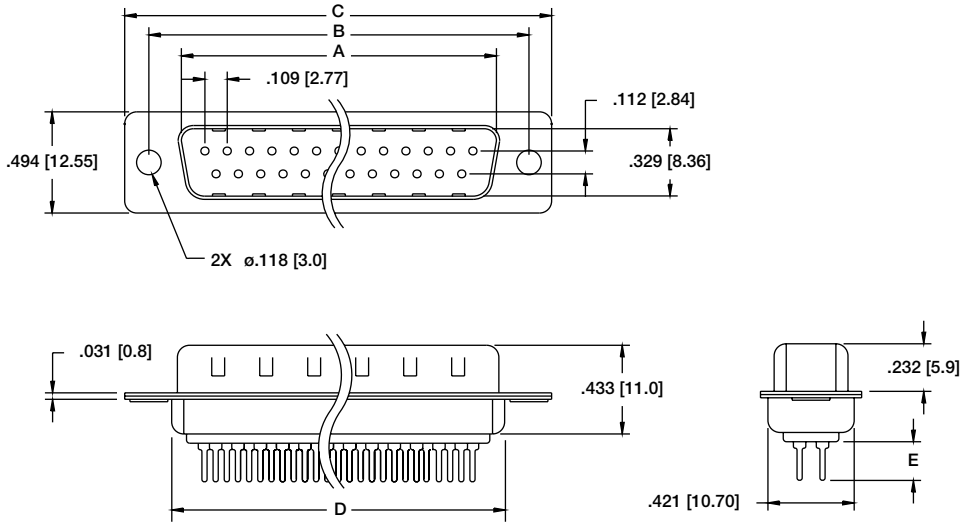
CONTACT TYPE
PT = Plug, Straight PCB Tail, Standard Profile
ST = Socket, Straight PCB Tail, Standard Profile
PE = Plug, Straight PCB Tail, High Profile
SE = Socket, Straight PCB Tail, High Profile

TAIL LENGTH
1 = Standard tail length for .062"-.125" PCB's (**E** = .189")
2 = Wire wrap tail (**E** = .512")

MOUNTING OPTIONS
BLANK = .120"Mounting Holes
SL = Bottom side riveted #4-40 Clinch Nuts
JS = Top side riveted #4-40 Jackscrews
BL = Riveted #4-40 Internal Threaded Standoffs with Boardlocks
R = Riveted Round Jack Screws
JSL = Bottom side riveted #4-40 Clinch Nuts with Jack Screws installed

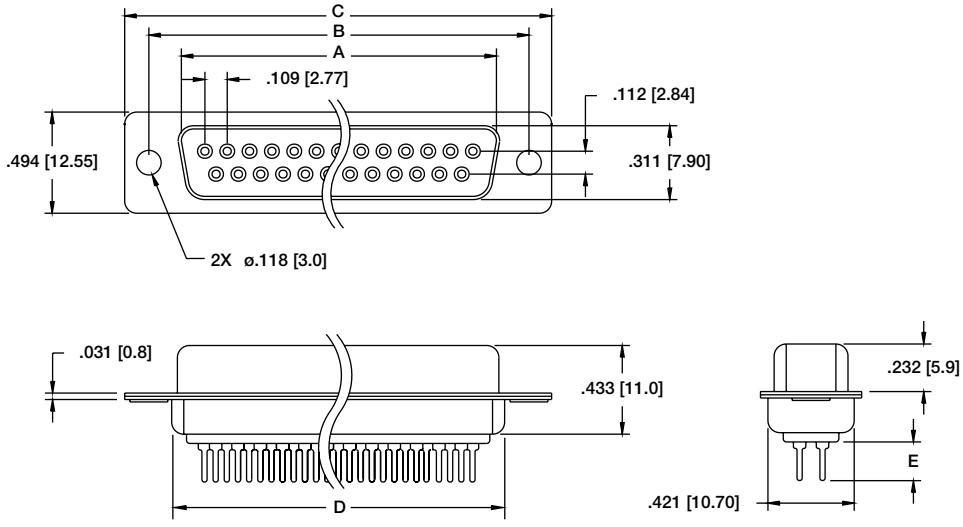
OPTIONS:
Add designator(s) to end of part number
EMI = Ferrite filtered version for EMI / RFI suppression (Page 114)
HT = Hi-Temp insulator for hi-temp soldering processes up to 260°C

PLUG



*E = .189" or .512"

SOCKET



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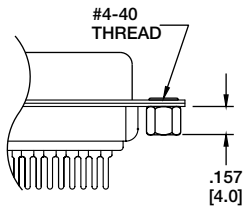
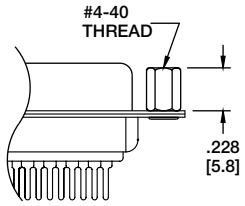
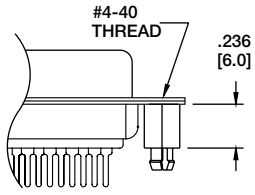
MOUNTING OPTIONS



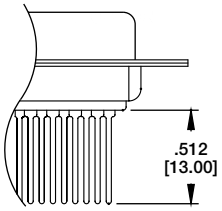
SL Option
Bottom side riveted #4-40
Clinch Nuts



JS Option
Top side riveted #4-40
Jack Screws



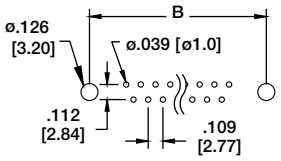
BL Option
#4-40 Threaded Boardlocks



Wire Wrap Tail Option
Tail length 2
wire wrap tail

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]



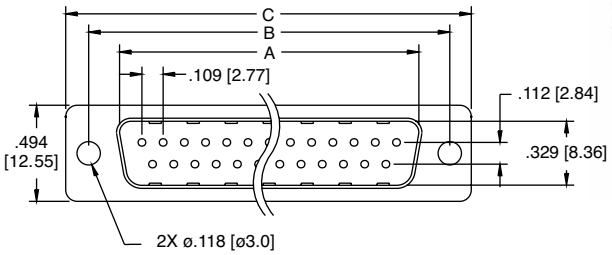
Recommended PCB Layout

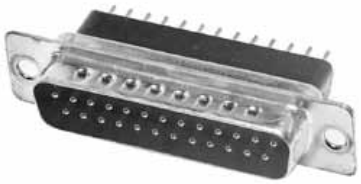
D-SUBMINIATURE

HIGH PROFILE STRAIGHT PCB TAIL

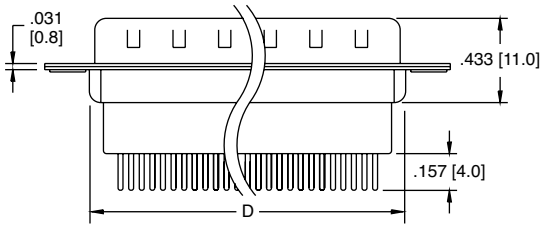
DPE & DSE SERIES

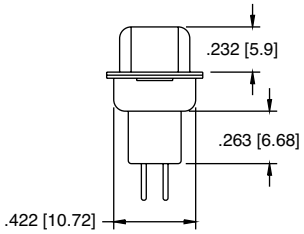
PLUG



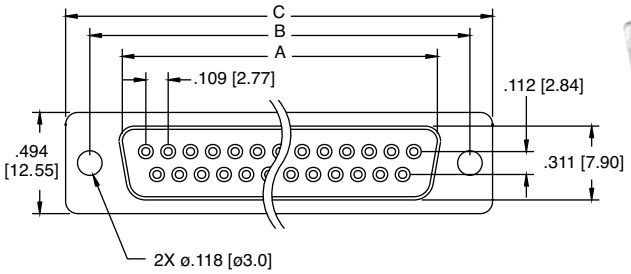


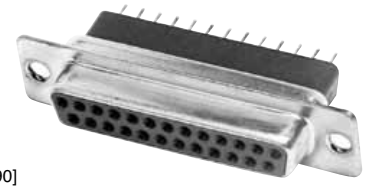
DB25-PE-1



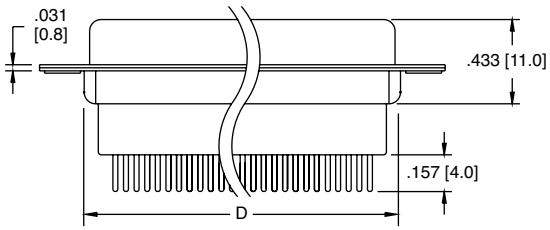


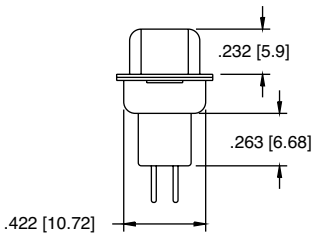
SOCKET





DB25-SE-1





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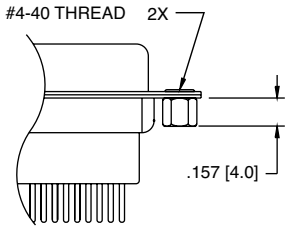

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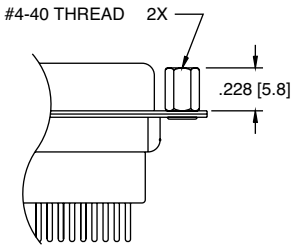

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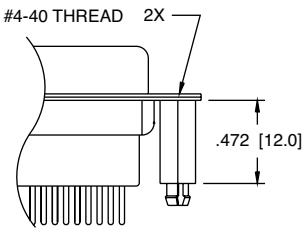

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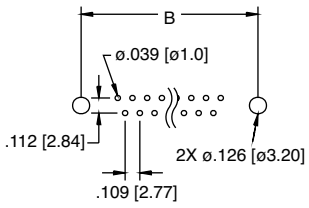
#4-40 Threaded Boardlocks



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