

#### INTRODUCTION:

Adam Tech right angle PCB mount .318" footprint D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a low cost industry standard connection. These connectors are manufactured with precision stamped 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 color: Black  
 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:

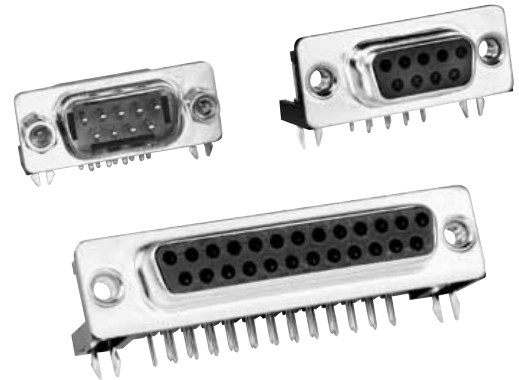
Insertion force: 0.75 lbs max  
 Extraction force: 0.44 lbs min  
 Temperature Rating:  
 Operating temperature: -55°C to +105°C  
 Soldering process temperature:  
 Standard insulator: 235°C  
 Hi-Temp insulator: 260°C

##### Packaging:

Anti-ESD plastic trays

##### Approvals and Certifications:

UL Recognized & CSA Certified, File no. E224053



#### ORDERING INFORMATION

DB25	SL	2	4
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##### SHELL SIZE/ POSITIONS

DE09 = 9 Position  
 DA15 = 15 Position  
 DB25 = 25 Position  
 DC37 = 37 Position

##### CONTACT TYPE

PL = Plug, .318" Footprint  
 SL = Socket, .318" Footprint

##### MATING FACE MOUNTING OPTIONS

3 = #4-40 fixed jackscrews  
 4 = #4-40 flush threaded inserts  
 5 = #4-40 flush threaded inserts with removable jackscrews installed  
 6 = .120" non-threaded mounting holes

\* See Mounting Option diagrams pg. 77

##### PCB MOUNTING OPTIONS

1 = Wrap around ground straps with thru holes  
 2 = Forked board locks  
 3 = Top side only ground straps with thru holes  
 4 = Top side only ground straps with #4-40 threaded screw holes

\* See Mounting Option diagrams pg. 77

##### OPTIONS:

Add designator(s) to end of part number

15 = 15 μin gold plating in contact area

30 = 30 μin gold plating in contact area

EMI = Ferrite filtered version for EMI/RFI suppression

LPJ = Loose packed jackscrews

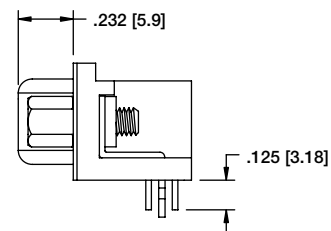
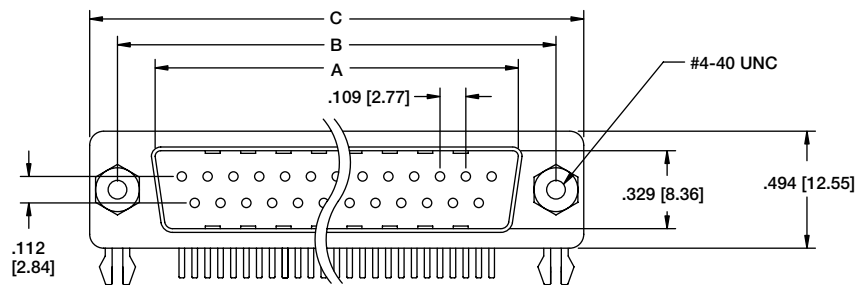
F = Superior retention 4 prong boardlocks

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

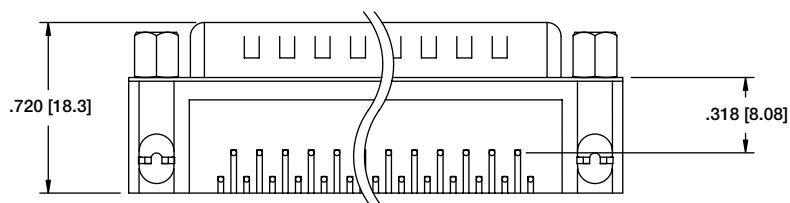
R = Round jackscrews

PF = Press fit pins

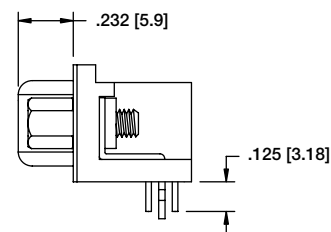
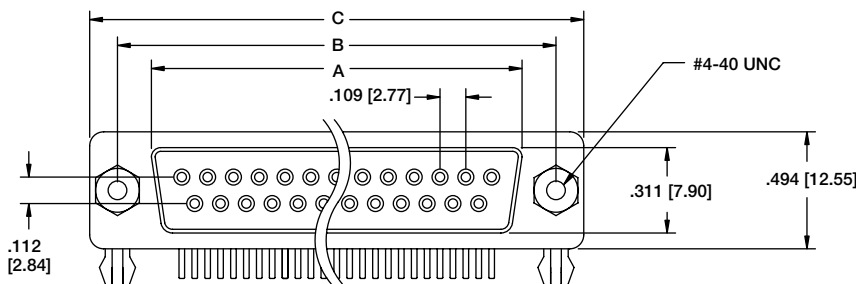
#### PLUG



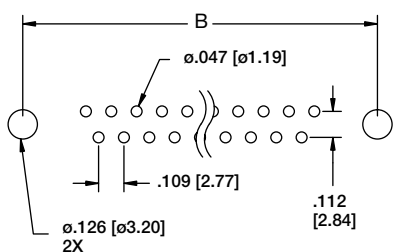
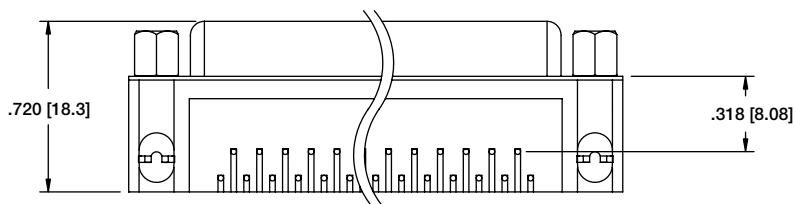
DB25-PL-25



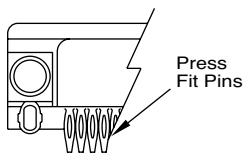
#### SOCKET



DB25-SL-24



Recommended PCB Layout



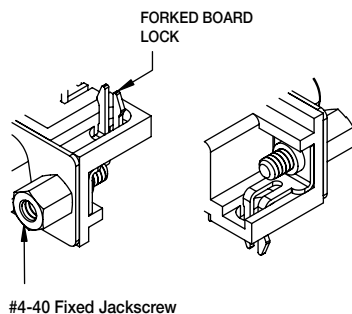
Press Fit Option

Unit: Inch [mm]

Pos.	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]

### MATING FACE & PCB MOUNTING OPTIONS

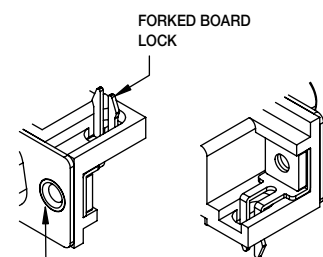
#### OPTION 23



#4-40 Fixed Jackscrew

\* Standard Stocked Item

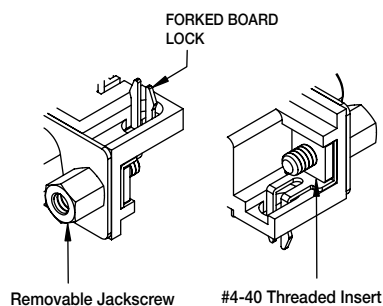
#### OPTION 24



#4-40 Threaded Insert

\* Standard Stocked Item

#### OPTION 25



Removable Jackscrew

#4-40 Threaded Insert

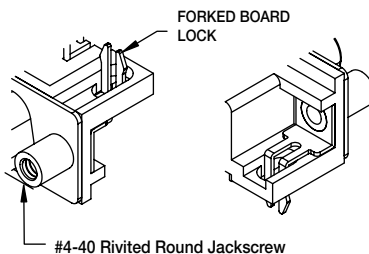
\* Standard Stocked Item

#### OPTION 23-R

#4-40 Rivited Round Jackscrew (Shown)

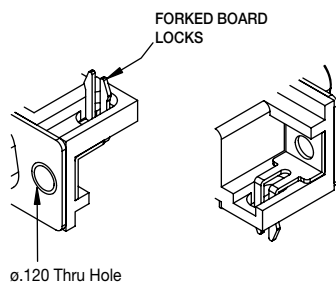
#### OPTION 27

#4-40 Rivited Hex Jackscrew (Not Shown)



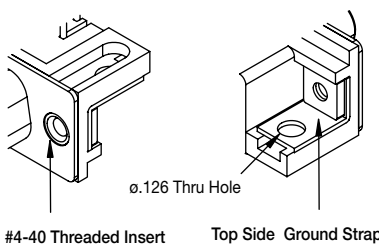
#4-40 Rivited Round Jackscrew

#### OPTION 26



ø.120 Thru Hole

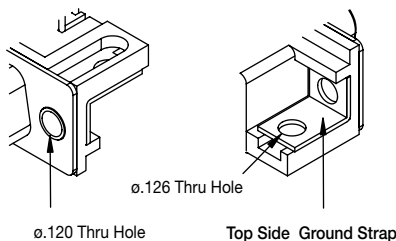
#### OPTION 34



#4-40 Threaded Insert

Top Side Ground Strap

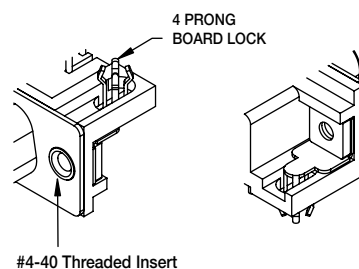
#### OPTION 36



ø.120 Thru Hole

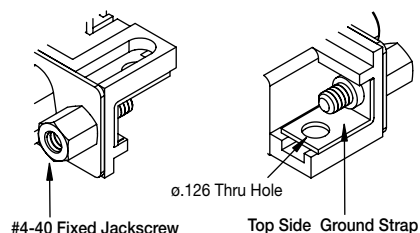
Top Side Ground Strap

#### OPTION 24-F



#4-40 Threaded Insert

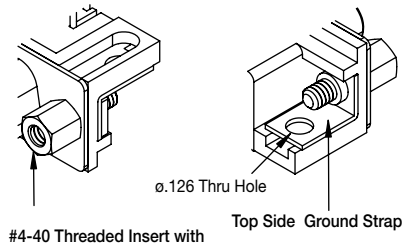
#### OPTION 33



#4-40 Fixed Jackscrew

Top Side Ground Strap

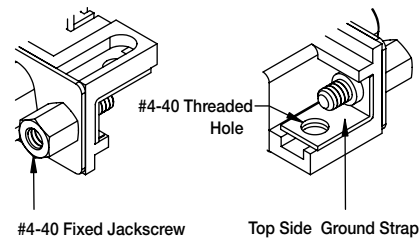
#### OPTION 35



#4-40 Threaded Insert with Removable Jackscrew

Top Side Ground Strap

#### OPTION 43



#4-40 Fixed Jackscrew

Top Side Ground Strap