

INTRODUCTION:

Adam Tech Right Angle .590" footprint PCB D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are an excellent choice for a low cost industry standard connection. They are available with full or half mounting flanges. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Half or Full flange options
- 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 Flash (15 and 30 µin Optional) over Nickel underplate.

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: -65°C to +125°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File No. E224053
CSA Certified File No. LR1578596



ORDERING INFORMATION

DB25

SQ

SA

4

SHELL SIZE/ POSITIONS

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

CONTACT TYPE

PQ = Plug,
.590" Footprint
SQ = Socket,
.590" Footprint

MATING FACE MOUNTING OPTIONS

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

* See Mounting Option
diagrams page 77

PCB MOUNTING OPTIONS

SA = Wrap around
ground straps
with thru holes
on half flange

SB = Wrap around
ground straps
with thru holes
on full flange

SC = Top side only
ground straps
with thru holes
on half flange

SD = Top side only
ground straps
with thru holes
on full flange

F = Forked boardlocks
on half flange

R = Forked boardlocks
on full flange

* See Mounting Option
diagrams page 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

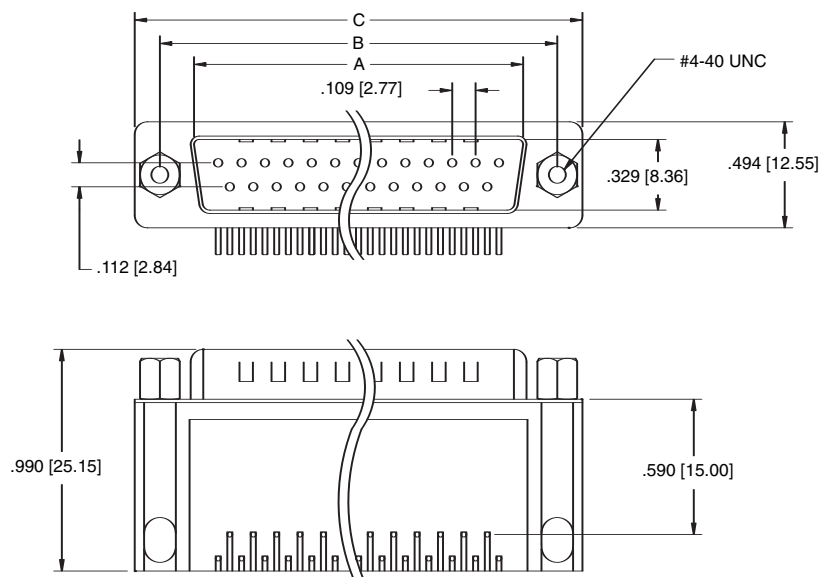
LPJ = Loose packed jackscrews

F = Superior retention 4 prong
boardlocks

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

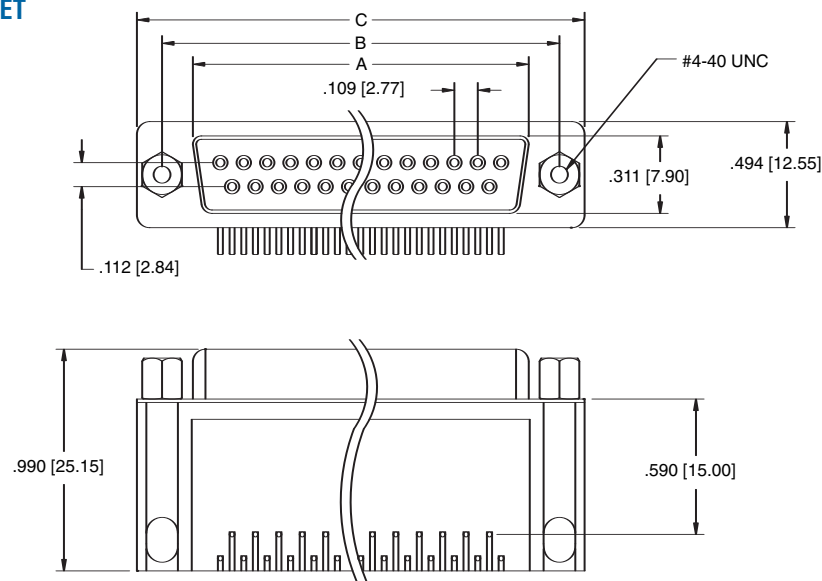
R = Round jackscrews

PLUG



DB25-PQ-SB4

SOCKET

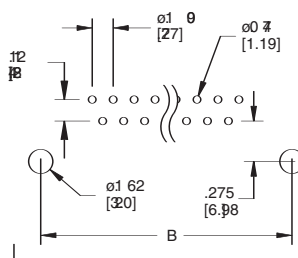


DB25-SQ-R5

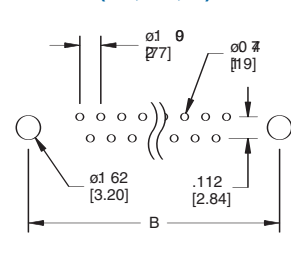
Unit: Inch [mm]

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]

Half Flange PCB Layout for
PCB mounting options
(SA, SC, F)

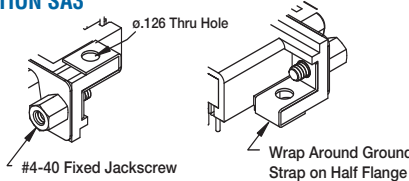
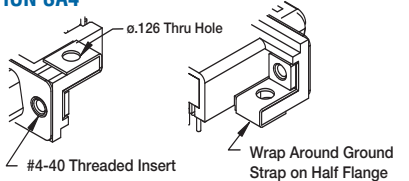
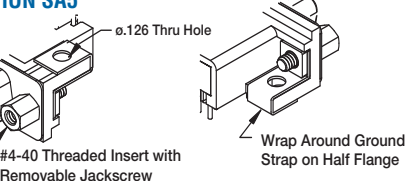
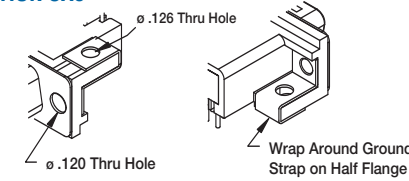
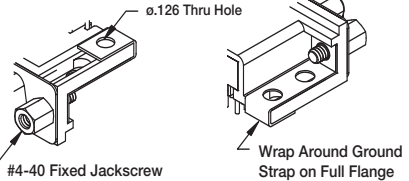
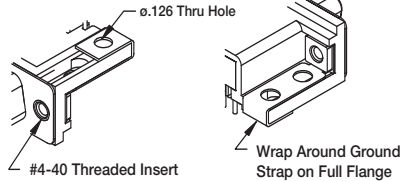
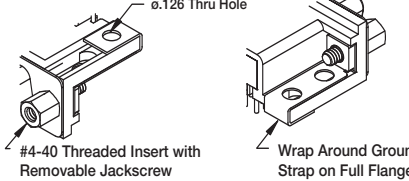
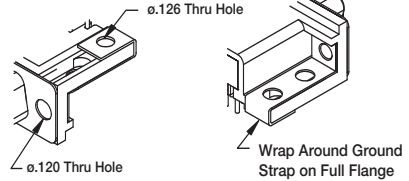
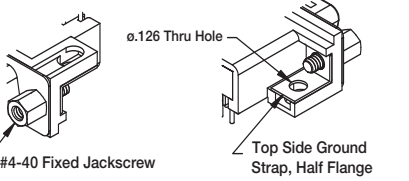
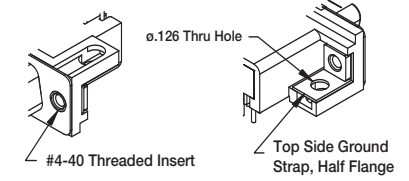
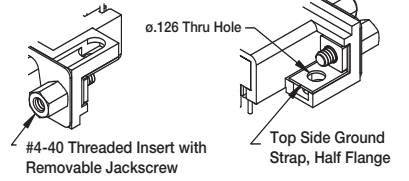
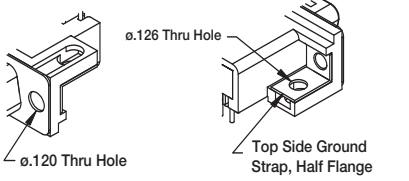
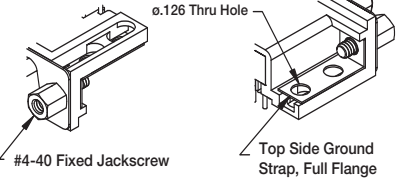
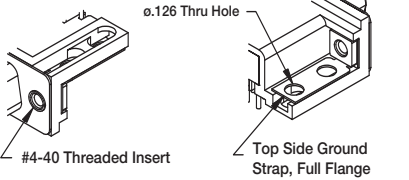
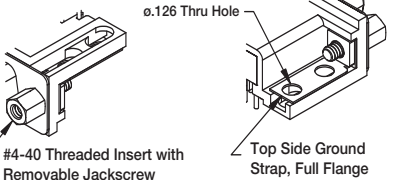
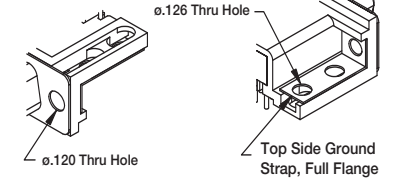
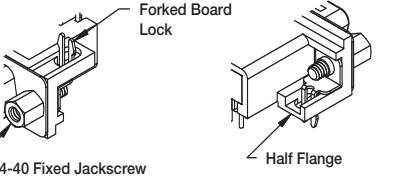
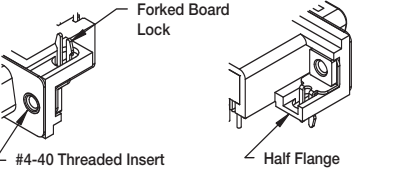
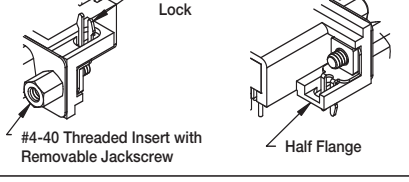
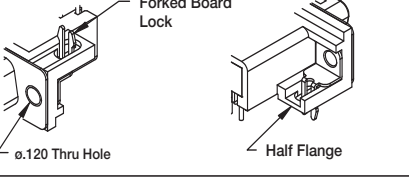
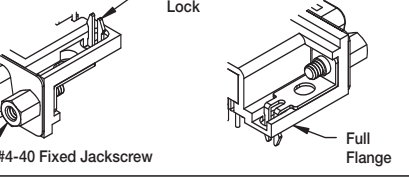
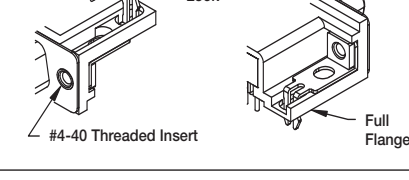
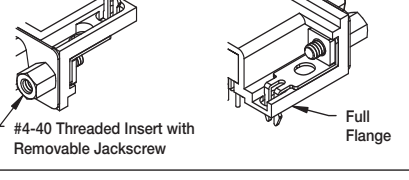
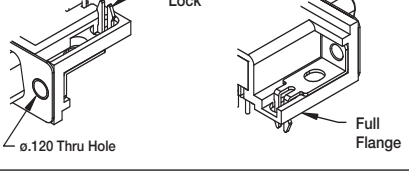


Full Flange PCB Layout
for PCB mounting options
(SB, SD, R)



PCB Edge

MATING FACE & PCB MOUNTING OPTIONS

OPTION SA3  #4-40 Fixed Jackscrew Wrap Around Ground Strap on Half Flange	OPTION SA4  #4-40 Threaded Insert Wrap Around Ground Strap on Half Flange	OPTION SA5  #4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap on Half Flange
OPTION SA6  #4-40 Fixed Jackscrew Wrap Around Ground Strap on Half Flange	OPTION SB3  #4-40 Fixed Jackscrew Wrap Around Ground Strap on Full Flange	OPTION SB4  #4-40 Threaded Insert Wrap Around Ground Strap on Full Flange
OPTION SB5  #4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap on Full Flange	OPTION SB6  #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange	OPTION SC3  #4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange
OPTION SC4  #4-40 Threaded Insert Top Side Ground Strap, Half Flange	OPTION SC5  #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange	OPTION SC6  #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Full Flange
OPTION SD3  #4-40 Fixed Jackscrew Top Side Ground Strap, Full Flange	OPTION SD4  #4-40 Threaded Insert Top Side Ground Strap, Full Flange	OPTION SD5  #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Full Flange
OPTION SD6  #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Full Flange	OPTION F3  #4-40 Fixed Jackscrew Half Flange	OPTION F4  #4-40 Threaded Insert Half Flange
OPTION F5  #4-40 Threaded Insert with Removable Jackscrew Half Flange	OPTION F6  #4-40 Threaded Insert with Removable Jackscrew Full Flange	OPTION R3  #4-40 Fixed Jackscrew Full Flange
OPTION R4  #4-40 Threaded Insert Full Flange	OPTION R5  #4-40 Threaded Insert with Removable Jackscrew Full Flange	OPTION R6  #4-40 Threaded Insert with Removable Jackscrew Full Flange