

INTRODUCTION:

Adam Tech Right Angle .318" footprint PCB 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 Flash (15 and 30 µin Optional) over Nickel underplate on mating area. Tin over copper underplate on PCB tails.

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:

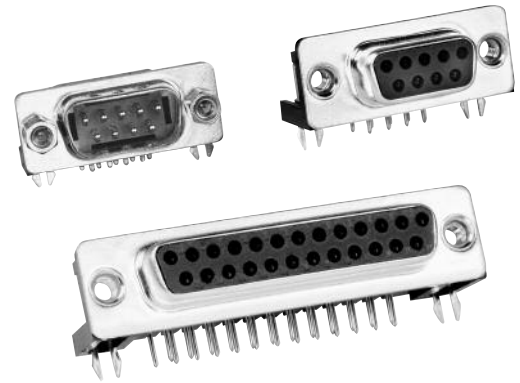
Operating temperature: -65°C to +125°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

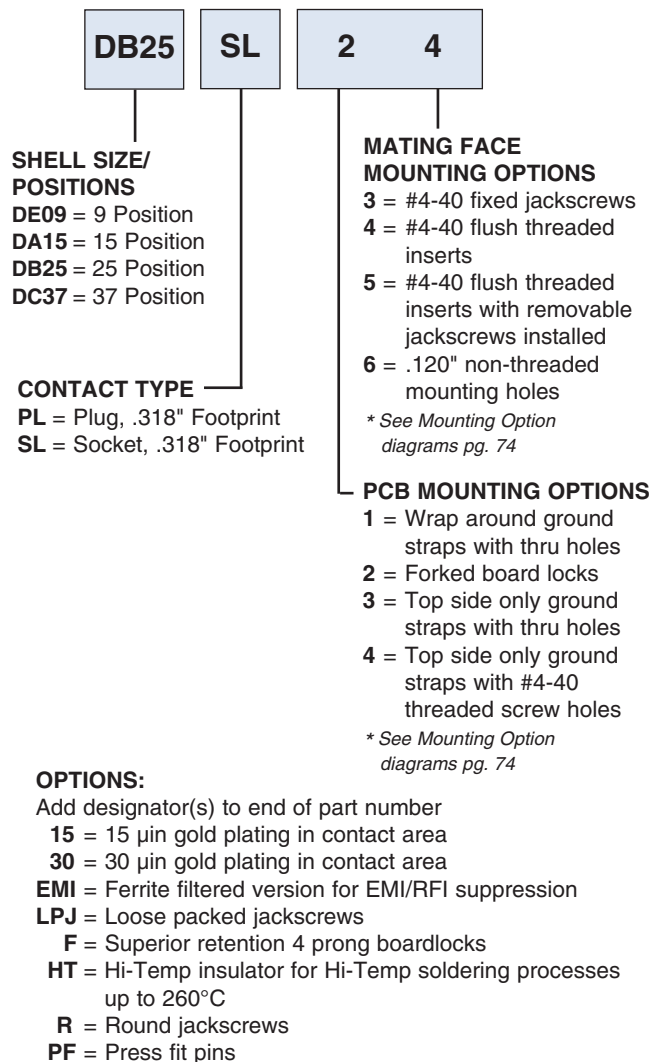
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION

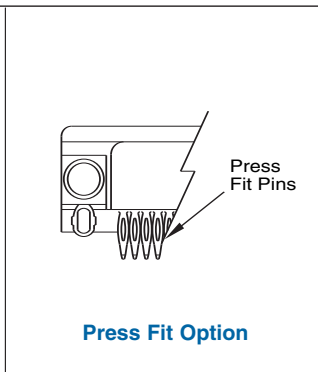
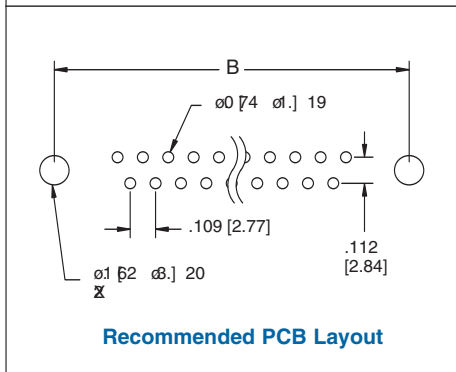


PLUG

DB25-PL-25

SOCKET

DB25-SL-24



| 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

| | | |
|---|---|--|
| <p>OPTION 13</p> <p>#4-40 Fixed Jackscrew Wrap Around Ground Strap ø.126 Thru Hole</p> | <p>OPTION 14</p> <p>#4-40 Threaded Insert Wrap Around Ground Strap ø.126 Thru Hole</p> | <p>OPTION 15</p> <p>#4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap ø.126 Thru Hole</p> |
| <p>OPTION 16</p> <p>#4-40 Threaded Insert Wrap Around Ground Strap ø.126 Thru Hole ø.120 Thru Hole</p> | <p>OPTION 23</p> <p>FORKED BOARD LOCK #4-40 Fixed Jackscrew * Standard Stocked Item</p> | <p>OPTION 23-R OPTION 27</p> <p>#4-40 Riveted Round Jackscrew (Shown) #4-40 Riveted Hex Jackscrew (Not Shown) FORKED BOARD LOCK #4-40 Riveted Round Jackscrew</p> |
| <p>OPTION 24</p> <p>FORKED BOARD LOCK #4-40 Threaded Insert * Standard Stocked Item</p> | <p>OPTION 24-F</p> <p>4 PRONG BOARD LOCK #4-40 Threaded Insert</p> | <p>OPTION 25</p> <p>FORKED BOARD LOCK Removable Jackscrew #4-40 Threaded Insert * Standard Stocked Item</p> |
| <p>OPTION 26</p> <p>FORKED BOARD LOCKS #4-40 Threaded Insert ø.120 Thru Hole</p> | <p>OPTION 33</p> <p>#4-40 Fixed Jackscrew Top Side Ground Strap ø.126 Thru Hole</p> | <p>OPTION 34</p> <p>#4-40 Threaded Insert Top Side Ground Strap ø.126 Thru Hole</p> |
| <p>OPTION 35</p> <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap ø.126 Thru Hole</p> | <p>OPTION 36</p> <p>#4-40 Threaded Insert Top Side Ground Strap ø.126 Thru Hole</p> | <p>OPTION 43</p> <p>#4-40 Threaded Hole #4-40 Fixed Jackscrew Top Side Ground Strap</p> |
| <p>OPTION 44</p> <p>#4-40 Threaded Hole #4-40 Threaded Insert Top Side Ground Strap</p> | <p>OPTION 45</p> <p>#4-40 Threaded Hole #4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap</p> | <p>OPTION 46</p> <p>#4-40 Threaded Hole #4-40 Threaded Insert Top Side Ground Strap</p> |

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:

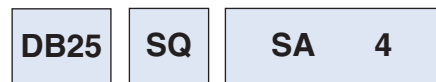
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION



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

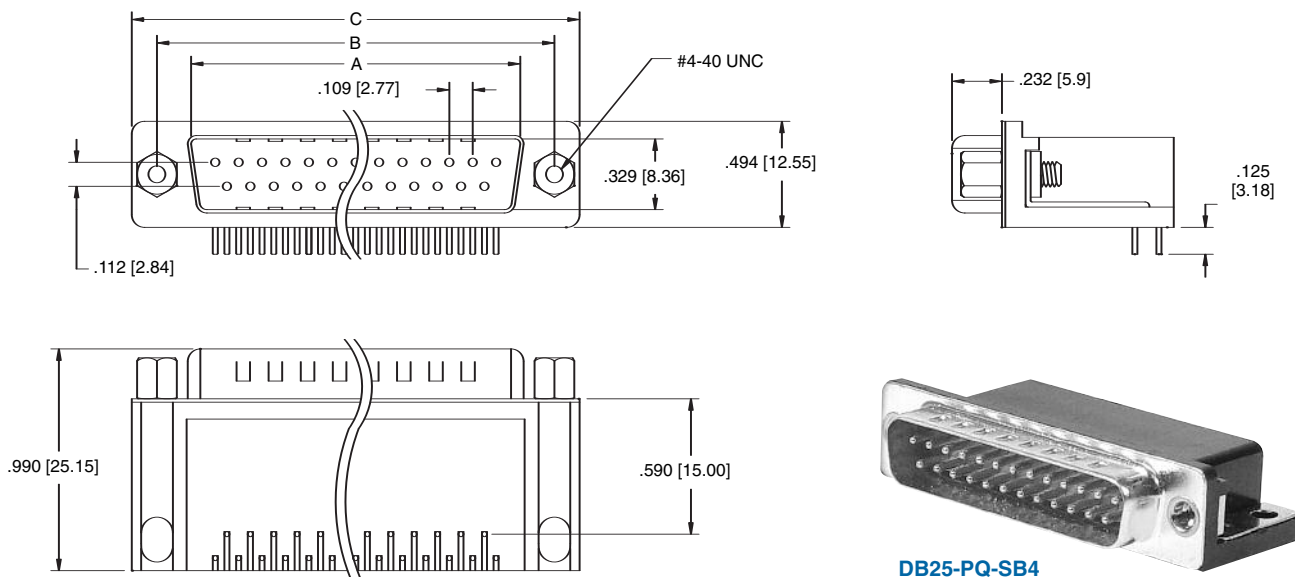
SA = Wrap around ground straps with thru holes on half flange
 SB = Wrap around ground straps with thru holes on full flange
 SC = Top side only ground straps with thru holes on half flange
 SD = Top side only ground straps with thru holes on full flange
 F = Forked boardlocks on half flange
 R = Forked boardlocks on full flange

* See Mounting Option diagrams page 77

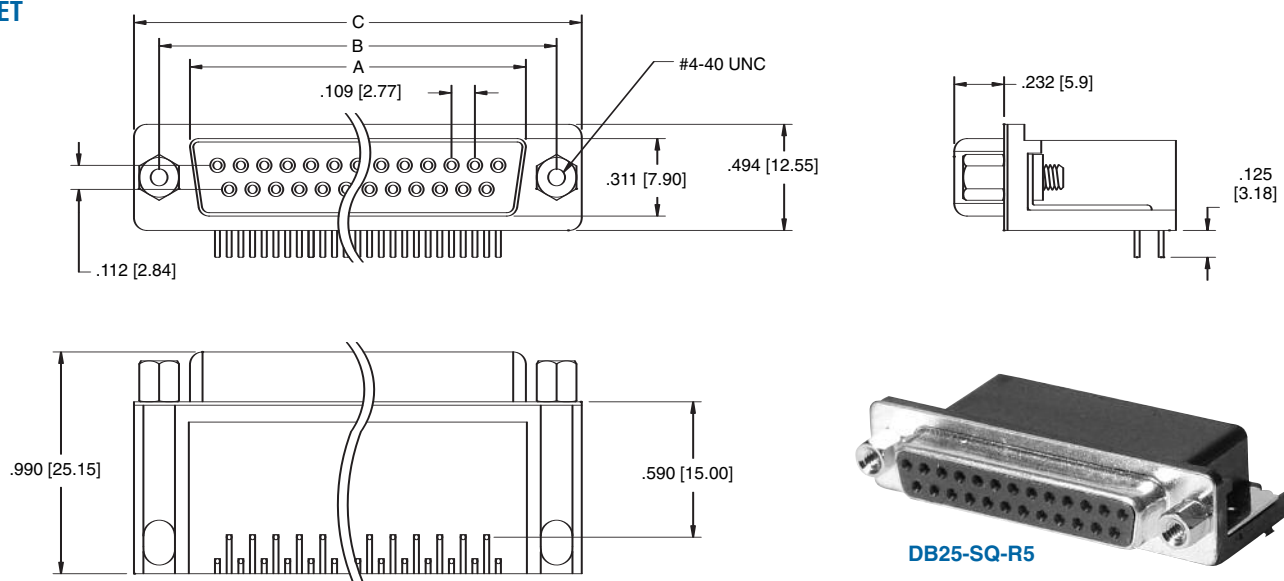
OPTIONS:

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



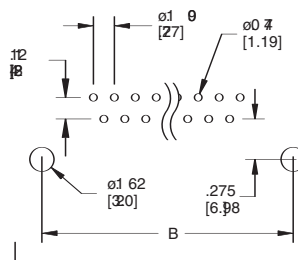
SOCKET



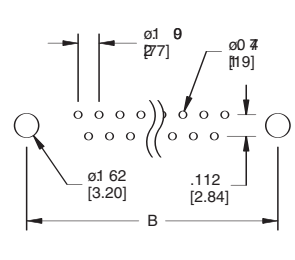
Unit: Inch [mm]

| 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

| | | |
|--|---|--|
| <p>OPTION SA3</p> <p>#4-40 Fixed Jackscrew Wrap Around Ground Strap on Half Flange ø.126 Thru Hole</p> | <p>OPTION SA4</p> <p>#4-40 Threaded Insert Wrap Around Ground Strap on Half Flange ø.126 Thru Hole</p> | <p>OPTION SA5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap on Half Flange ø.126 Thru Hole</p> |
| <p>OPTION SA6</p> <p>#4-40 Fixed Jackscrew Wrap Around Ground Strap on Half Flange ø.126 Thru Hole ø.120 Thru Hole</p> | <p>OPTION SB3</p> <p>#4-40 Fixed Jackscrew Wrap Around Ground Strap on Full Flange ø.126 Thru Hole</p> | <p>OPTION SB4</p> <p>#4-40 Threaded Insert Wrap Around Ground Strap on Full Flange ø.126 Thru Hole</p> |
| <p>OPTION SB5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Wrap Around Ground Strap on Full Flange ø.126 Thru Hole</p> | <p>OPTION SB6</p> <p>#4-40 Fixed Jackscrew Wrap Around Ground Strap on Full Flange ø.126 Thru Hole ø.120 Thru Hole</p> | <p>OPTION SC3</p> <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange ø.126 Thru Hole</p> |
| <p>OPTION SC4</p> <p>#4-40 Threaded Insert Top Side Ground Strap, Half Flange ø.126 Thru Hole</p> | <p>OPTION SC5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange ø.126 Thru Hole</p> | <p>OPTION SC6</p> <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange ø.126 Thru Hole ø.120 Thru Hole</p> |
| <p>OPTION SD3</p> <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Full Flange ø.126 Thru Hole</p> | <p>OPTION SD4</p> <p>#4-40 Threaded Insert Top Side Ground Strap, Full Flange ø.126 Thru Hole</p> | <p>OPTION SD5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Full Flange ø.126 Thru Hole</p> |
| <p>OPTION SD6</p> <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Full Flange ø.126 Thru Hole ø.120 Thru Hole</p> | <p>OPTION F3</p> <p>#4-40 Fixed Jackscrew Forked Board Lock Half Flange ø.126 Thru Hole</p> | <p>OPTION F4</p> <p>#4-40 Threaded Insert Forked Board Lock Half Flange ø.126 Thru Hole</p> |
| <p>OPTION F5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Forked Board Lock Half Flange</p> | <p>OPTION F6</p> <p>#4-40 Fixed Jackscrew Forked Board Lock Half Flange ø.120 Thru Hole</p> | <p>OPTION R3</p> <p>#4-40 Fixed Jackscrew Forked Board Lock Full Flange</p> |
| <p>OPTION R4</p> <p>#4-40 Threaded Insert Forked Board Lock Full Flange</p> | <p>OPTION R5</p> <p>#4-40 Threaded Insert with Removable Jackscrew Forked Board Lock Full Flange</p> | <p>OPTION R6</p> <p>#4-40 Fixed Jackscrew Forked Board Lock Full Flange ø.120 Thru Hole</p> |

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 Flash (15 and 30 µin Optional) over Nickel underplate overall

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:

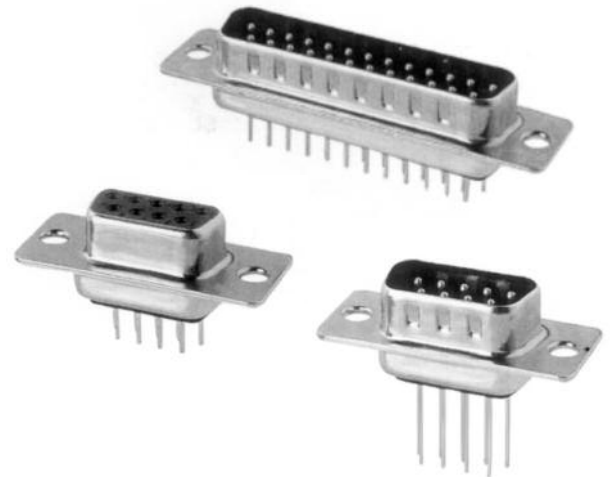
Operating temperature: -65°C to +125°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

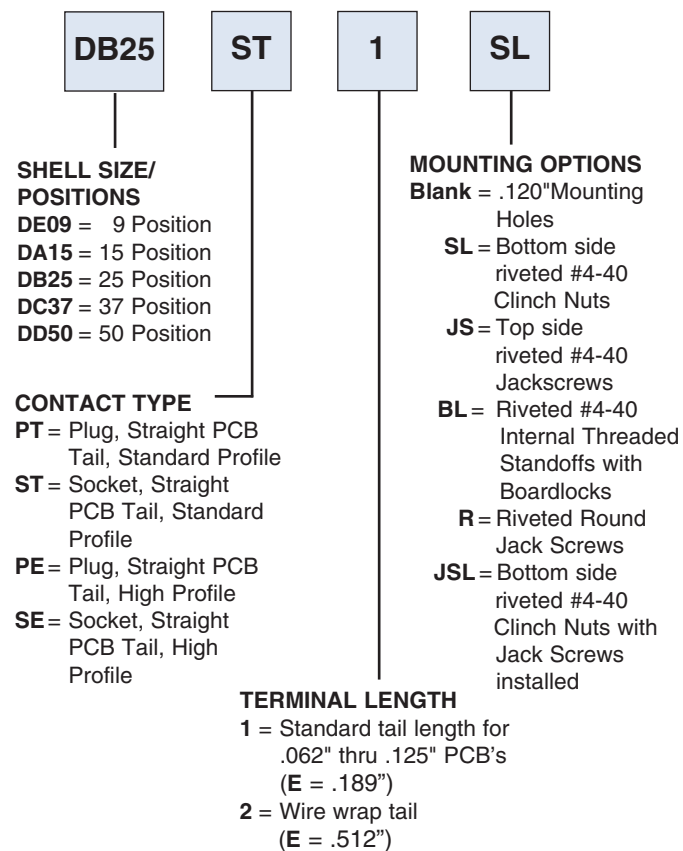
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



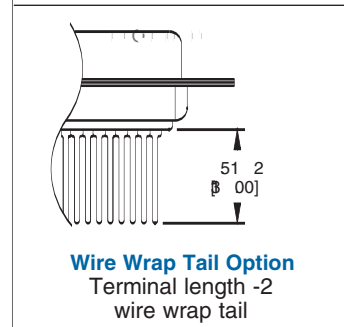
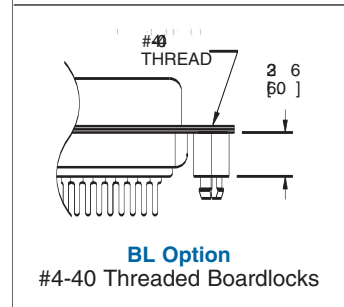
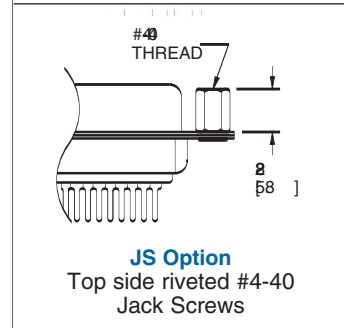
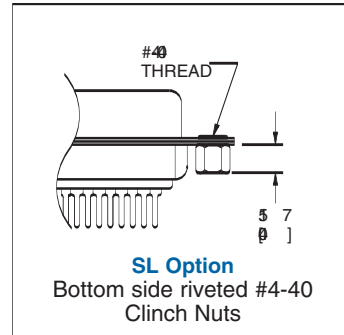
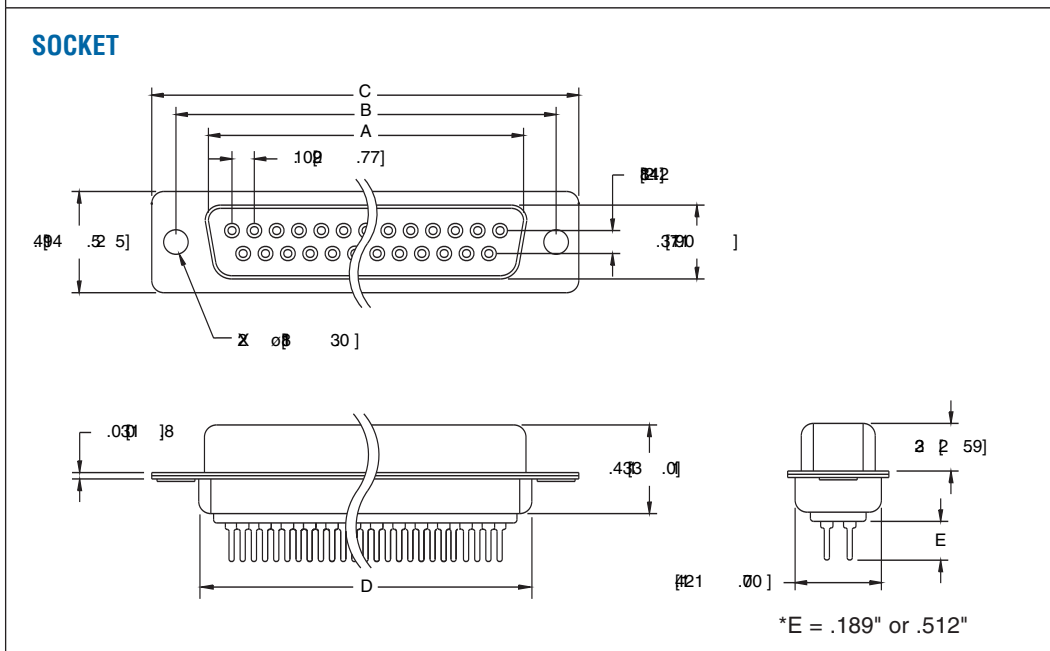
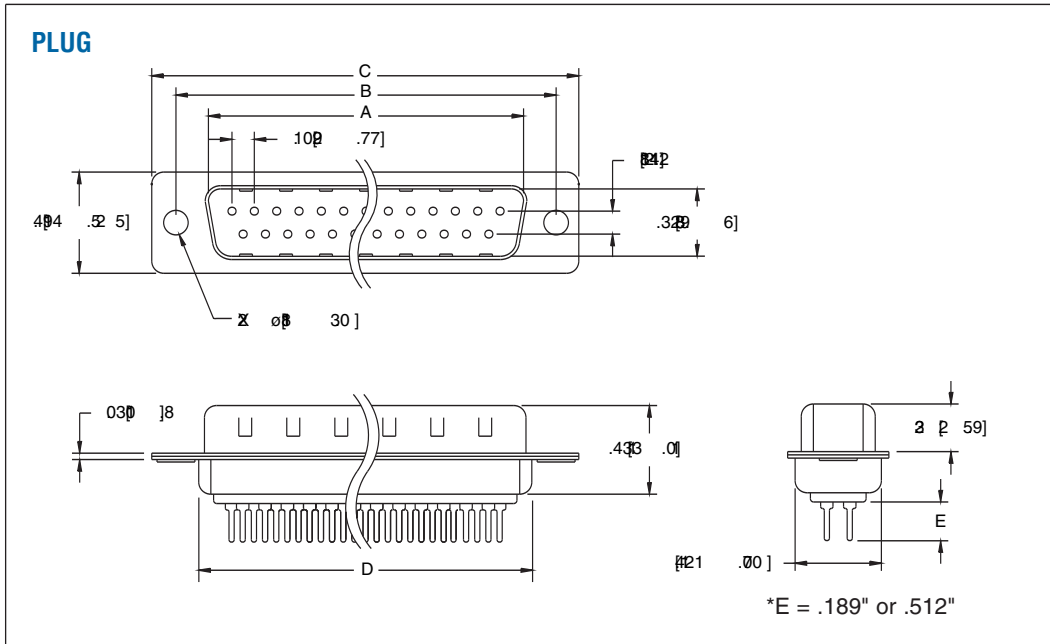
ORDERING INFORMATION



OPTIONS:

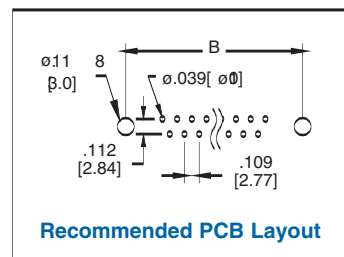
Add designator(s) to end of part number
15 = 15 µin gold plating in contact area
30 = 30 µin gold plating in contact area
EMI = Ferrite filtered version for EMI / RFI suppression (Page 72)
HT = Hi-Temp insulator for hi-temp soldering processes up to 260°C

MOUNTING OPTIONS



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] |



MOUNTING OPTIONS

PLUG

DB25-PE-1

SL Option
Bottom side riveted #4-40 Clinch Nuts

JS Option
Top side riveted #4-40 Jack Screws

BL Option
#4-40 Threaded Boardlocks

SOCKET

DB25-SE-1

Recommended PCB Layout

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] | |

INTRODUCTION:

Adam Tech Combination Signal/Coax D-Sub connectors are a popular interface for many mixed signal I/O applications. Offered in five shell sizes they are a good choice for a low cost industry standard connection that requires utilization of standard signal and high performance, low impedance signals either in signal-coax or signal - power choices. Adam Tech connectors are manufactured with precision stamped standard signal contacts and precision turned coax contacts. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

Electrical:

Operating voltage: 250V AC / DC max.
Signal Current rating: 5 Amps max.
High Power contact current rating: 20 or 40 Amps.
Coaxial Impedance: 50Ω (75Ω optional)
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION

D13W3

SLP

1

2

SHELL CONFIGURATIONS

D1W1, D2W2, D3W3, D5W1, D5W5, D7W2, D8W8, D9W4N, D11W1, D13W3, D13W6, D17W2, D17W5, D21W1, D21W4, D24W7, D25W3, D27W2, D36W4, D43W2

RATING SIGNAL - COAX

1 = 50 Ohm
2 = 75 Ohm

SIGNAL - POWER

3 = 10 Amps
4 = 20 Amps
5 = 30 Amps
6 = 40 Amps
7 = 50 Amps

MOUNTING RIGHT ANGLE

- 1 = 120" non-threaded mounting holes, no bracket
- 2 = Short Bracket with #4-40 flush threaded inserts in mounting holes
- 2A = Short Bracket with #4-40 flush threaded inserts in mounting holes Jack Screws installed
- 3 = Long Bracket with #4-40 flush threaded inserts in mounting holes
- 3A = Long Bracket with #4-40 flush threaded inserts in mounting holes Jack Screws installed

TYPE

SIGNAL-COAX

PT = Plug, Straight PCB
ST = Socket, Straight PCB
PL = Plug, Right Angle PCB
SL = Socket, Right Angle PCB
PD = Plug, Solder Cup
SD = Socket, Solder Cup

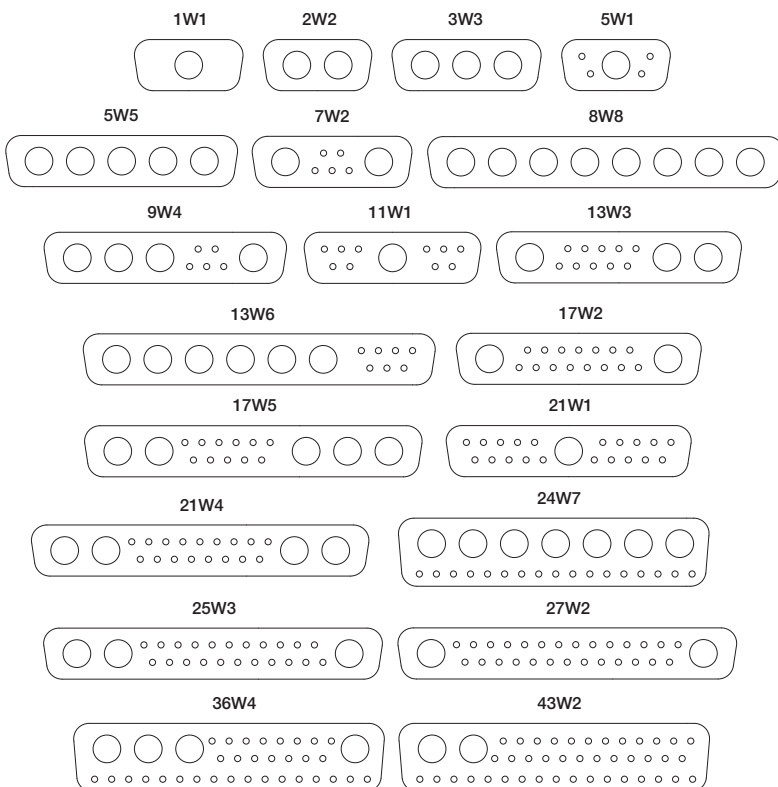
SIGNAL-POWER

PTP = Plug, Straight PCB, Power Contacts
STP = Socket, Straight PCB, Power Contacts
PLP = Plug, Right Angle PCB, Power Contacts
SLP = Socket, Right Angle PCB, Power Contacts
PDP = Plug, Solder Cup Power Contacts
SDP = Socket, Solder Cup Power Contacts

MOUNTING STRAIGHT

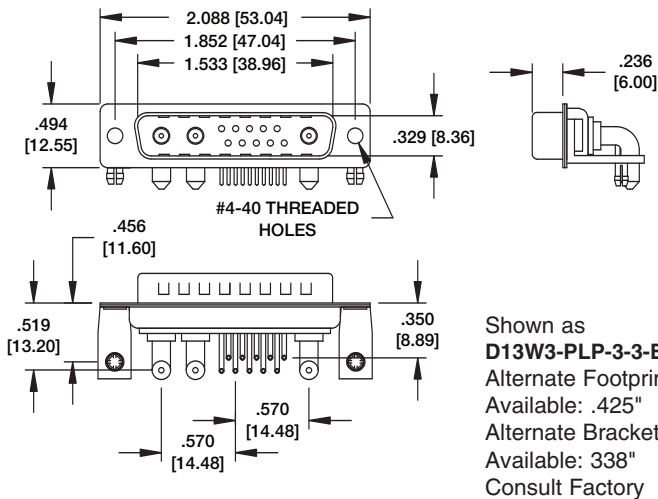
- JS = Riveted #4-40 Jack Screws on top of flange
- SL = Riveted #4-40 clinch nuts on bottom of flange
- BL = Riveted Board Locks

SHELL CONFIGURATIONS

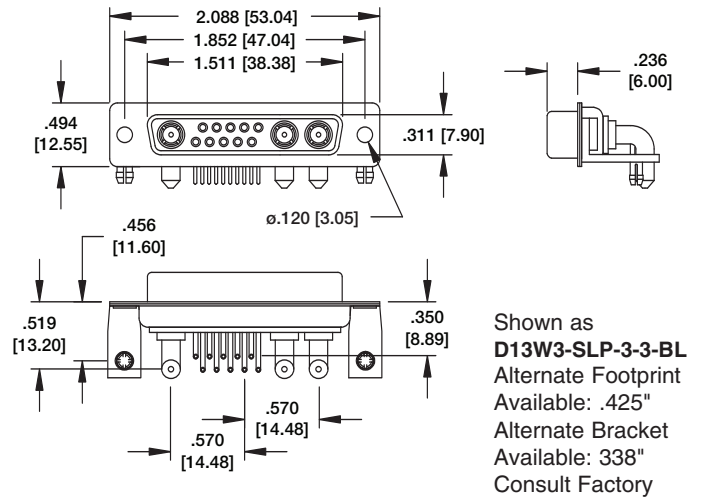


| | |
|--|--|
| <p>PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-COAX</p> <p>Shown as D13W3-PL-1-3-BL Alternate Footprint Available: .425" Alternate Bracket Available: 338" Consult Factory</p> | <p>SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-COAX</p> <p>Shown as D13W3-SL-1-3-BL Alternate Footprint Available: .425" Alternate Bracket Available: 338" Consult Factory</p> |
| <p>PLUG - STRAIGHT PCB MOUNT SIGNAL-COAX</p> <p>Shown as D13W3-PT-1-1 Available in multiple shell configurations and mounting options</p> | <p>SOCKET - STRAIGHT PCB MOUNT SIGNAL-COAX</p> <p>Shown as D13W3-ST-1-1 Available in multiple shell configurations and mounting options</p> |
| <p>PLUG - STRAIGHT SOLDER CUP SIGNAL-COAX</p> <p>Shown as D13W3-PD-1-1 Available in multiple shell configurations and mounting options</p> | <p>SOCKET - STRAIGHT SOLDER CUP SIGNAL-COAX</p> <p>Shown as D13W3-SD-1-1 Available in multiple shell configurations and mounting options</p> |

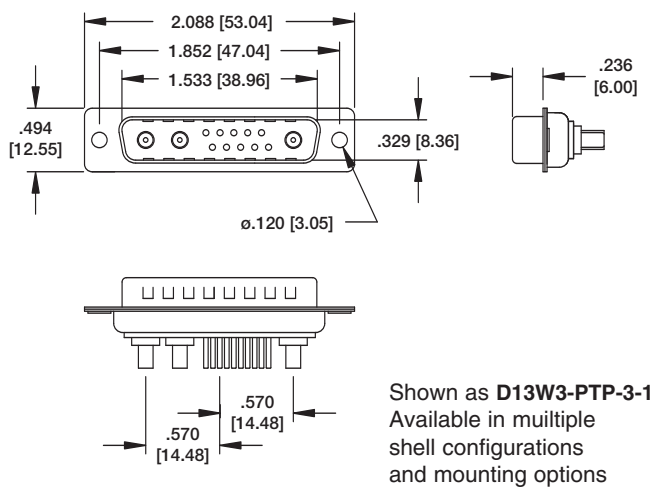
PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



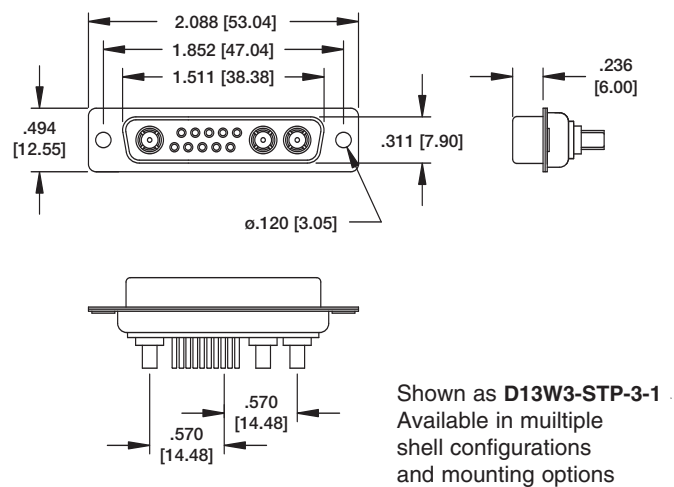
SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



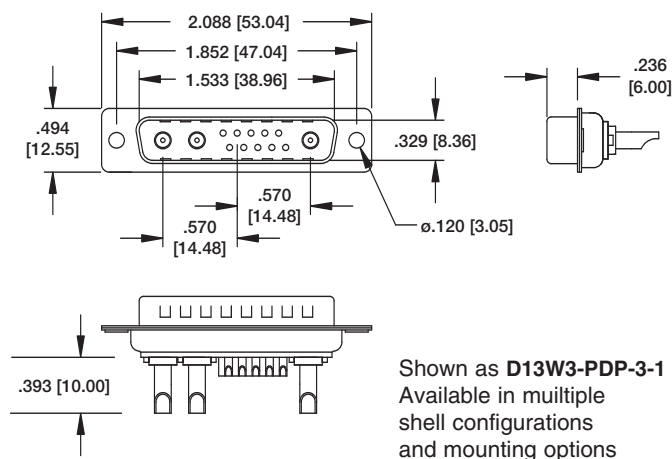
PLUG - STRAIGHT PCB MOUNT SIGNAL-POWER



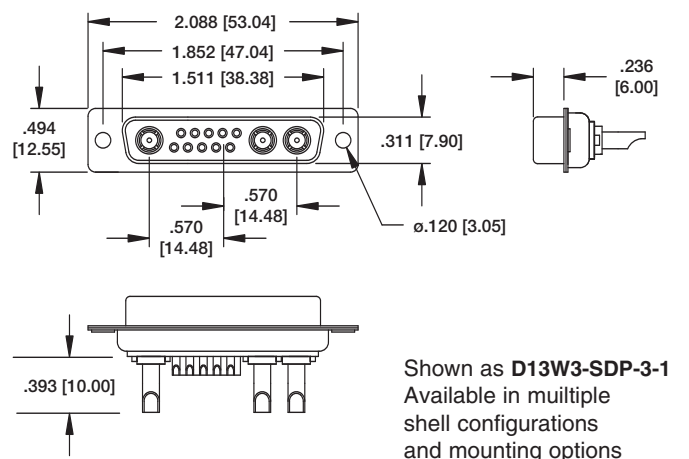
SOCKET - STRAIGHT PCB MOUNT SIGNAL-POWER



PLUG - STRAIGHT SOLDER CUP SIGNAL-POWER



SOCKET - STRAIGHT SOLDER CUP SIGNAL-POWER



INTRODUCTION:

Adam Tech Flush Mount Straight PCB tail D-Sub connectors are a popular interface for many limited space I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. 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:

- Low profile space saving design
- 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 μ m optional) over Nickel underplate overall.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 m Ω max. Initial
 Insulation resistance: 5000 M Ω min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

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

Temperature Rating:

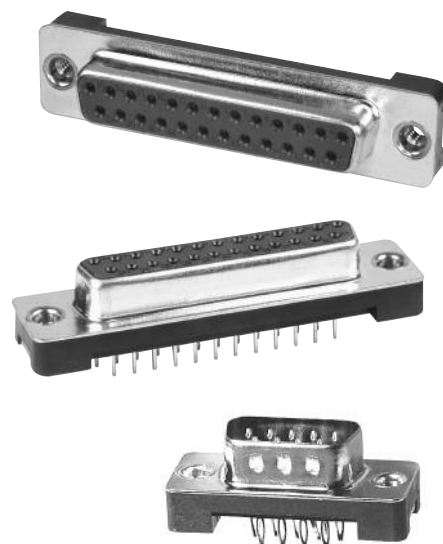
Operating temperature: -65°C to +125°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION

DB25

SA

M2

SHELL SIZE/ POSITIONS

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

CONTACT TYPE

PA = Plug, Flush mount,
Straight PCB Tail
SA = Socket, Flush Mount,
Straight PCB Tail

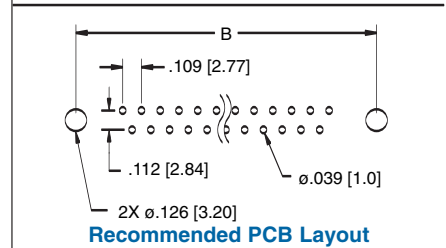
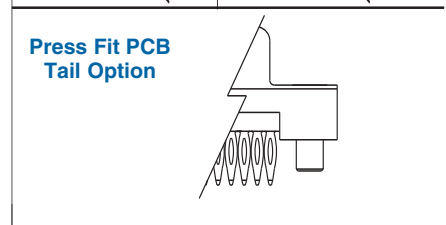
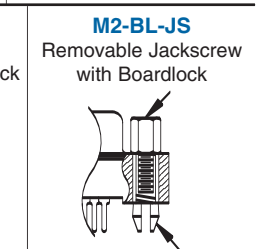
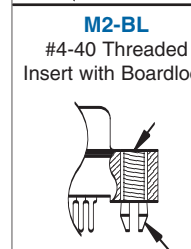
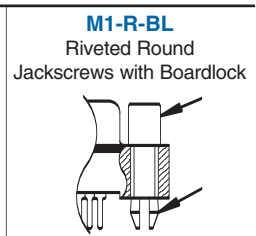
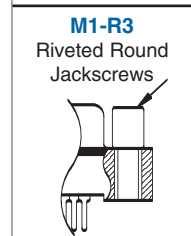
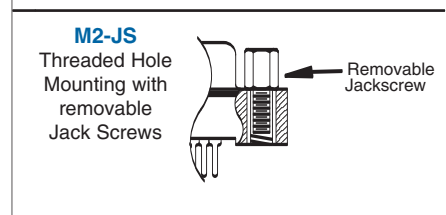
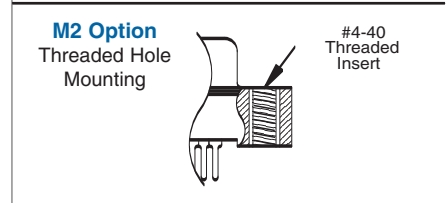
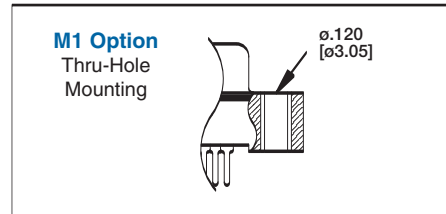
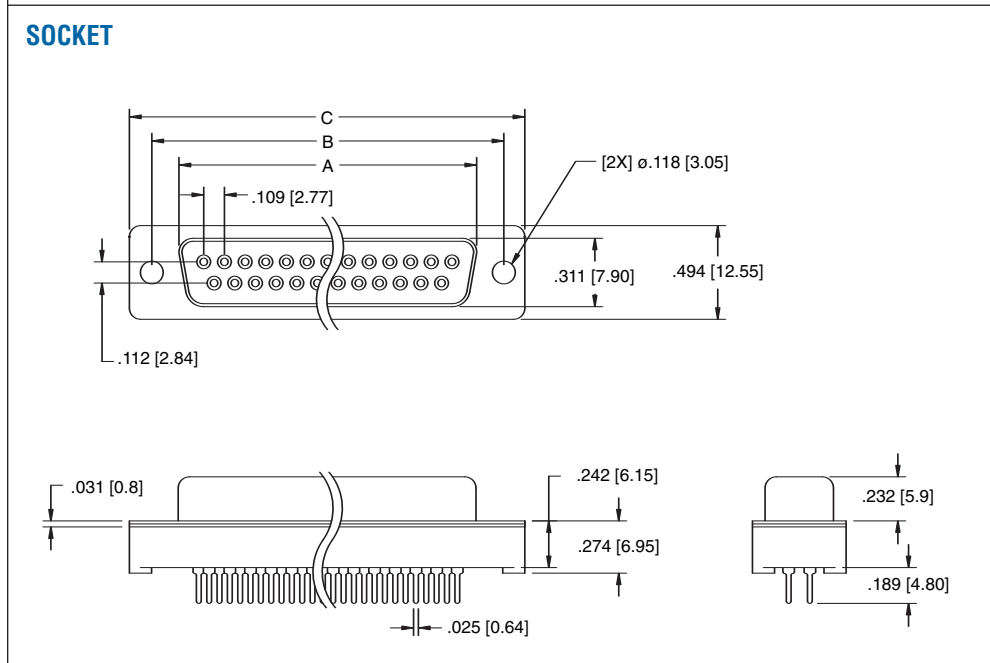
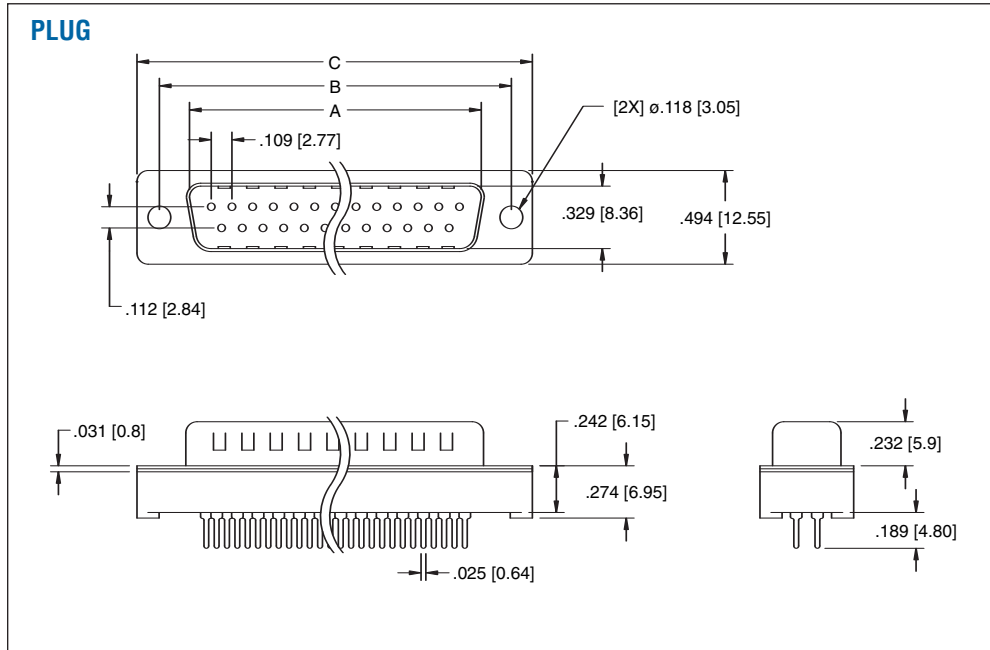
MOUNTING OPTIONS

M1 = Thru Holes
Mounting
M2 = Threaded Holes
Mounting
M1-R3 = Riveted Round
Jackscrews
M1-R-BL = Riveted Round
Jackscrews with
Boardlock
M2-JS = Threaded Hole
Mounting with
removable
Jackscrews
M2-BL = Riveted #4-40
Internal Threaded
Standoffs with
Boardlocks
M2-BL-JS = Removable
Jackscrew with
Boardlock

OPTIONS:

Add designator(s) to end of part number
15 = 15 μ m gold plating in contact area
30 = 30 μ m gold plating in contact area
PF = Press Fit Pins
HT = Hi-Temp insulator for hi-temp soldering
processes up to 260°C

MOUNTING OPTIONS



Unit: Inch [mm]

| Positions | 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] |

INTRODUCTION:

Adam Tech Right Angle slimline PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. 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:

- Short profile space saving design
- 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 μ m Optional) over Nickel underplate overall.

Electrical:

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

Mechanical:

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

Temperature Rating:

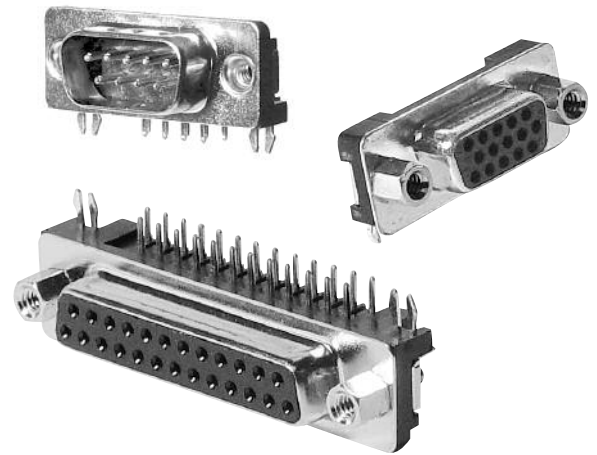
Operating temperature: -65°C to +125°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION

DB25

SN

24

SHELL SIZE/ POSITIONS

DE09 = 9 Positions
DB25 = 25 Positions
HD15 = High Density
15 Positions

MOUNTING OPTIONS

24 = Forked Boardlocks
for PCB Retention and
#4-40 threaded inserts
in mounting holes
25 = Forked Boardlocks
for PCB retention and
#4-40 threaded inserts
in mounting holes with
installed jackscrews

CONTACT / TYPE

PN = Plug, .197" Slimline
SN = Socket, .197" Slimline

OPTIONS:

Add designator(s) to end of part number

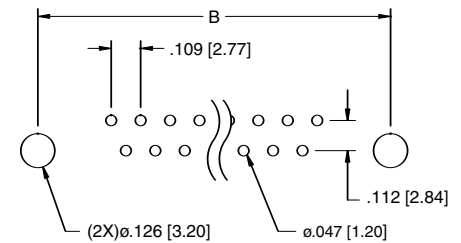
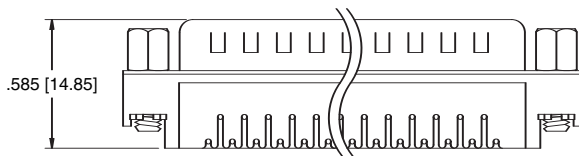
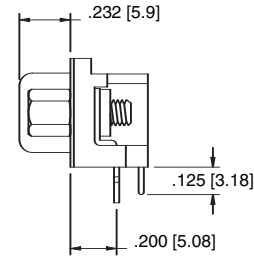
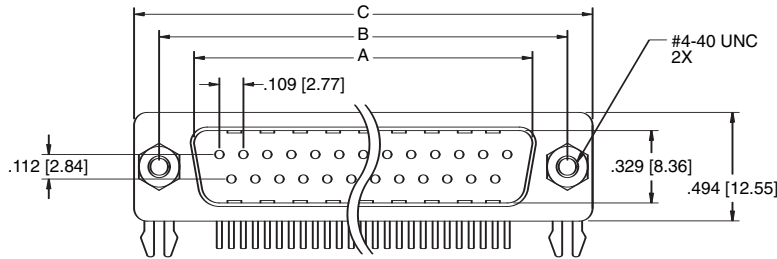
15 = 15 μ m gold plating in contact area
30 = 30 μ m gold plating in contact area

LPJ = Loose packed jackscrews

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

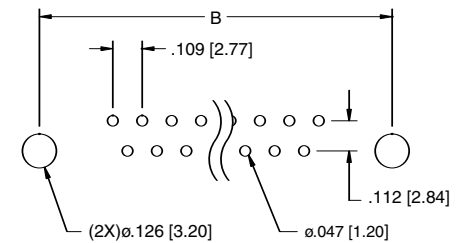
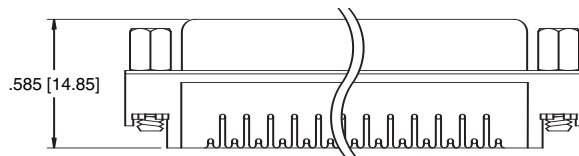
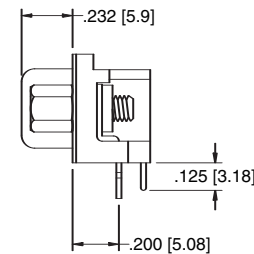
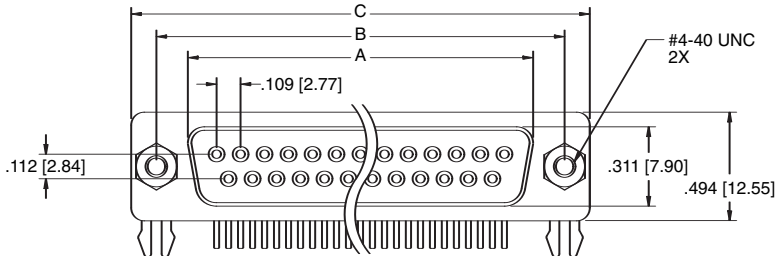
R = Round jackscrews installed

PLUG



Recommended PCB Layout

SOCKET



Recommended PCB Layout

Unit: Inch [mm]

| Positions | 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] |

INTRODUCTION:

Adam Tech Right Angle slimline SMT D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. 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:

- Short profile space saving design
- 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:

Insulator: Hi-Temperature thermoplastic, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze or Brass
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 µin Optional) over Nickel underplate on mating area, Tin over Copper underplate on SMT tails.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 1 Amp 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: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION

DB25

SS

24

SHELL SIZE/ POSITIONS

DE09 = 9 Positions
 DB25 = 25 Positions
 HDL15 = High Density
 15P

MOUNTING OPTIONS

24 = Forked Boardlocks
 for PCB Retention and
 #4-40 threaded inserts
 in mounting holes
 25 = Forked Boardlocks
 for PCB retention and
 #4-40 threaded inserts
 in mounting holes with
 installed jackscrews

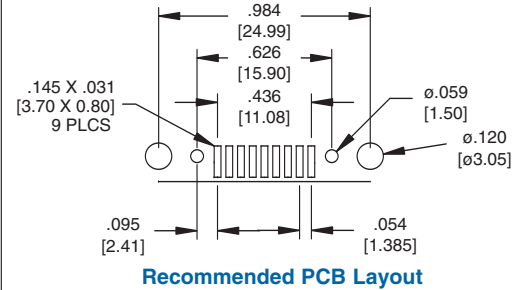
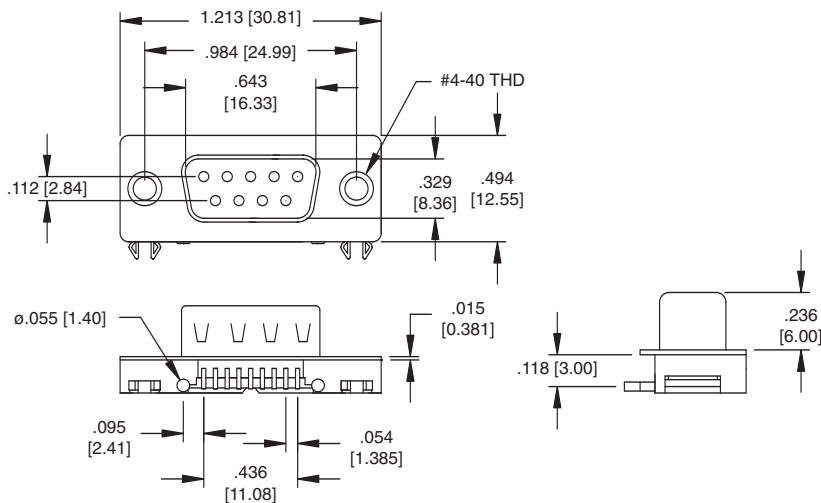
CONTACT / TYPE

PS = Plug Surface Mount
 SS = Socket Surface Mount

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
 R = Round jackscrews

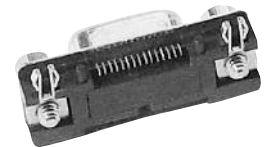
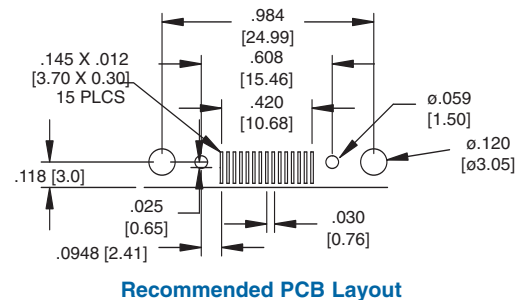
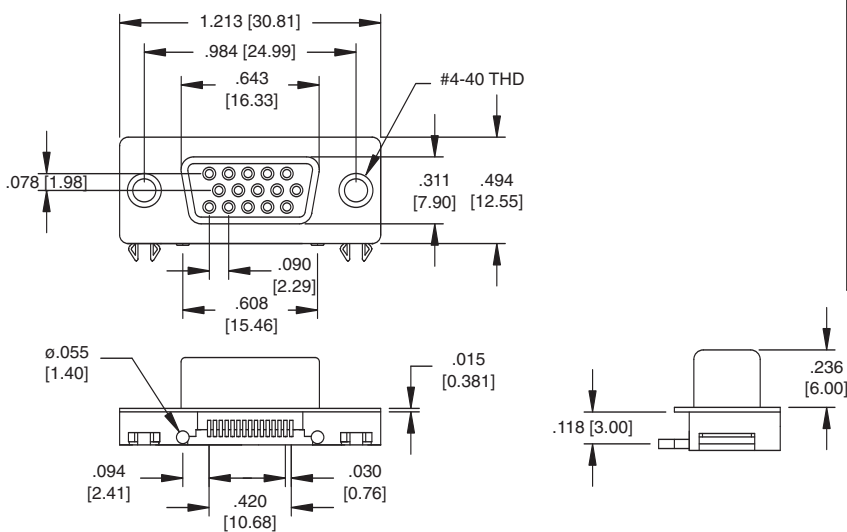
9P PLUG



DE09-SS-24

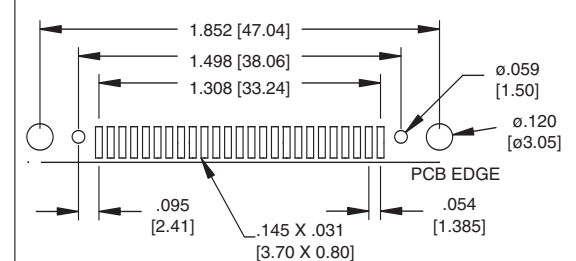
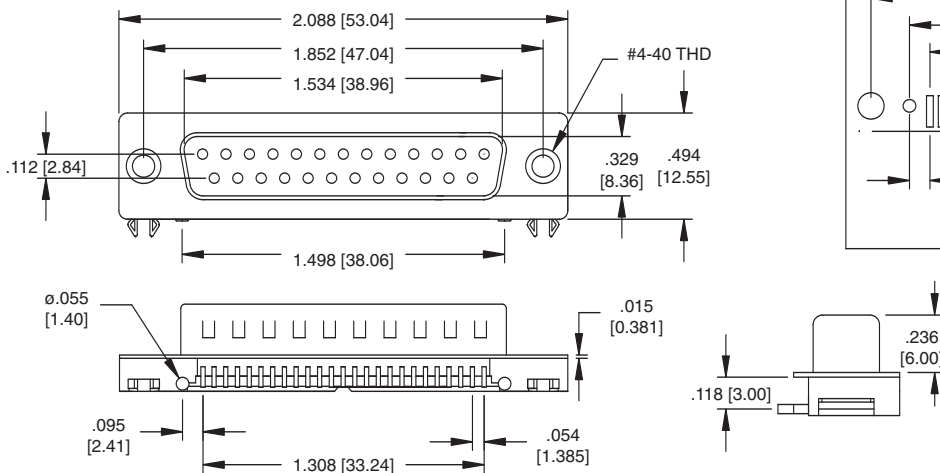
DE09-PS-25

HD15 SOCKET



HDL15-SS-25

25P PLUG



DB25-PS-24

INTRODUCTION

Adam Tech Right Angle .283" footprint Machine Contact PCB 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 high reliability industry standard connection. These connectors are manufactured with precision machine turned contacts and offer an exceptional high reliability connection. They are available in a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Exceptional Machine Contact connection
- Industry standard compatibility
- Durable metal shell design
- Precision turned screw machined 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 rated UL94V-0
 Insulator Colors: White (Black optional)
 Contacts: Phosphor Bronze
 Shell: Steel, Tin 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:

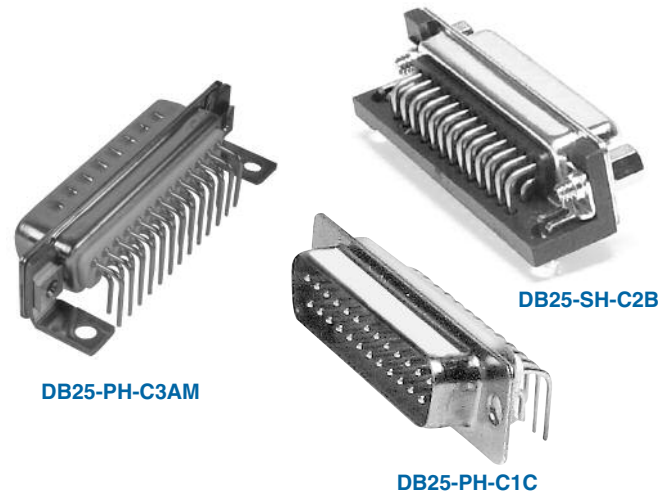
Operating temperature: -65°C to +125°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

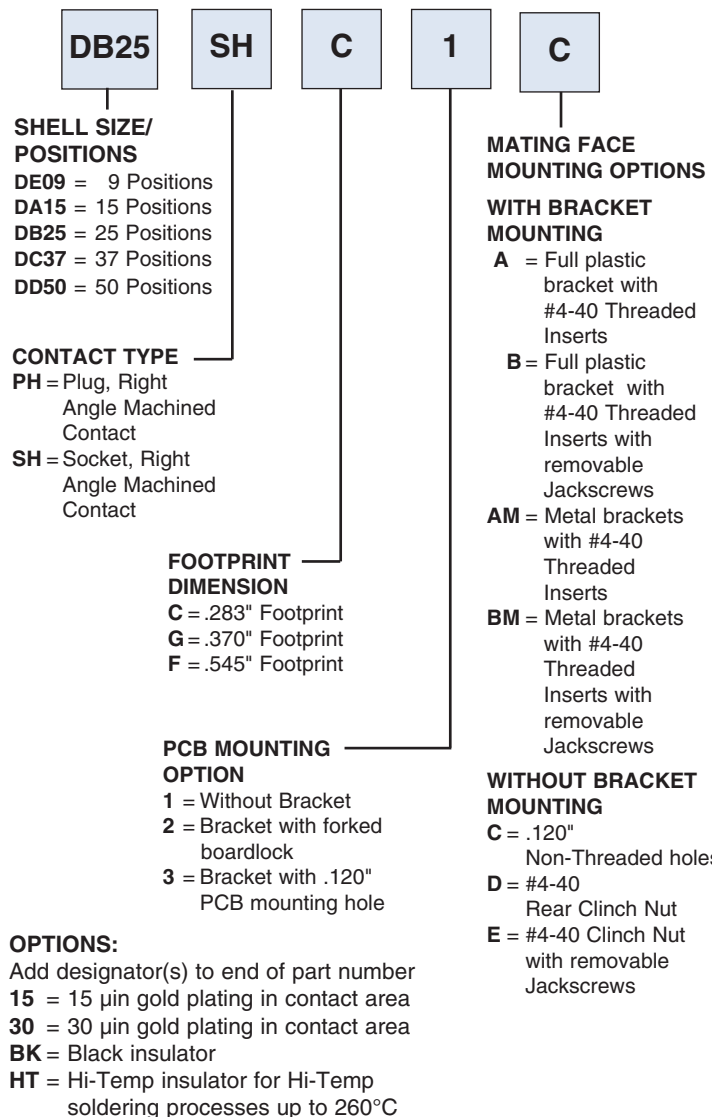
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION



PLUG

$.112$ [2.84]
 $.405$ [10.28]
 $\phi .120$ [3.05]
 $\phi .125$ [3.18]
 $.329$ [8.36]
 $.494$ [12.55]
 $.235$ [5.97]
 $.125$ [3.18]
 $.112$ [2.84]

#4-40 UNC
 X = FO OTPRINT DISTANCE
 C = .283 [7.20] FOOTPRINT
 G = .370 [9.40] FOOTPRINT
 F = .545 [13.84] FOOTPRINT

Choice of Plastic or Metal Bracket
Metal Bracket version shown

PCB MOUNTING OPTIONS

Option 1: Without Bracket
Option 2: Bracket with Board Lock
Option 3: Bracket with .120" Mounting Hole
Option 4: Bracket with .125" Mounting Hole

SOCKET

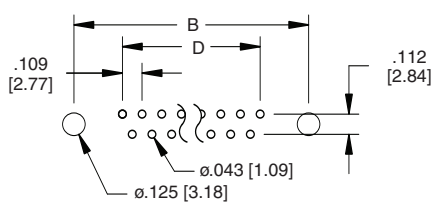
$.112$ [2.84]
 $.405$ [10.28]
 $\phi .120$ [3.05]
 $\phi .125$ [3.18]
 $.329$ [8.36]
 $.494$ [12.55]
 $.235$ [5.97]
 $.125$ [3.18]
 $.112$ [2.84]

#4-40 UNC
 X = FO OTPRINT DISTANCE
 C = .283 [7.20] FOOTPRINT
 G = .370 [9.40] FOOTPRINT
 F = .545 [13.84] FOOTPRINT

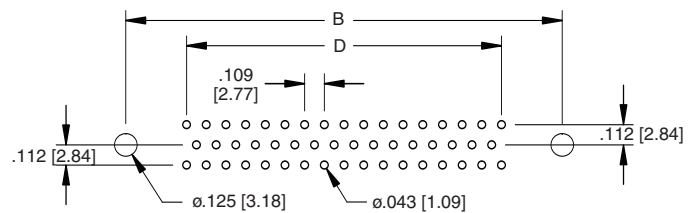
Choice of Plastic or Metal Bracket
Metal Bracket version shown

MATING FACE MOUNTING OPTIONS

Option C: .120" Mounting Hole
Option D: #4-40 Threaded Insert
Option E: #4-40 Threaded Insert with removable Jack Screws



Recommended PCB Layout 9, 15, 25 & 37 Position



Recommended PCB Layout 50 Position

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] | .436 [11.08] |
| 15 | .994 [25.25] | .971 [24.66] | 1.312 [33.32] | 1.541 [39.14] | .763 [19.39] |
| 25 | 1.534 [38.96] | 1.511 [38.38] | 1.852 [47.04] | 2.088 [53.04] | 1.310 [33.24] |
| 37 | 2.182 [55.43] | 2.159 [54.84] | 2.500 [63.50] | 2.729 [69.32] | 1.963 [49.86] |
| 50 | 2.790 [52.80] | 2.016 [52.34] | 2.402 [61.00] | 2.646 [67.20] | 1.744 [44.32] |

ADAM TECH

Adam Technologies, Inc.

INTRODUCTION:

Adam Tech Flat Cable IDC D-Sub connectors are a popular interface for many I/O and cable assembly applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost industry standard connection that terminates .050" flat cable quickly, easily and compactly. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Quickly terminates to flat cable
- Industry standard compatibility
- Durable metal shell design
- Integral strain relief available
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

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

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (Blue optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μm Optional) over Nickel underplate, Nickel over copper underplate on IDC area

Electrical:

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

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min
Recommended cable size: 28 to 30 Awg.

Temperature Rating:

Operating temperature: -65°C to +125°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

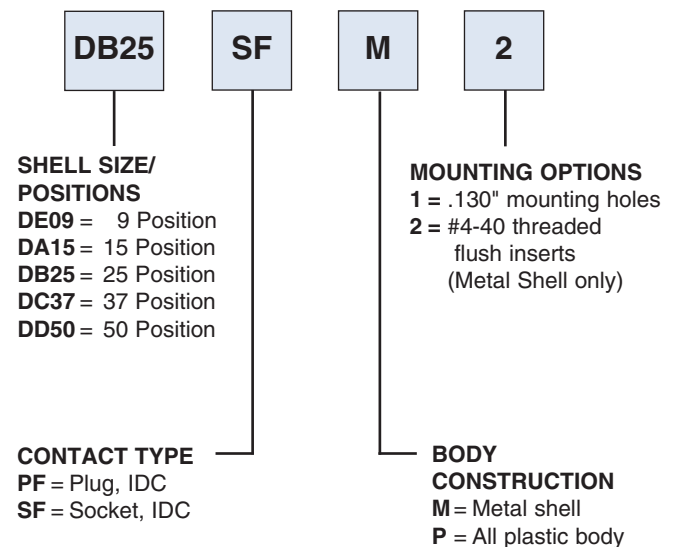
UL Recognized File No. E224053
CSA Certified File No. LR1578596



D-SUBMINIATURE IDC FLAT CABLE TERMINATION DPF & DSF SERIES



ORDERING INFORMATION



Strain Relief

Part No.:

DSR - xx

(xx = No. of Positions)

OPTIONS:

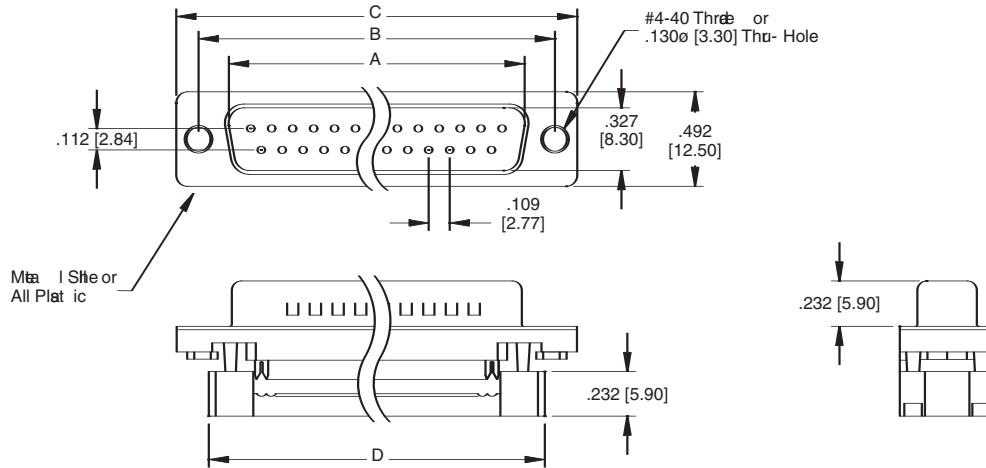
Add designator(s) to end of part number

15 = 15 μm . gold in contact area

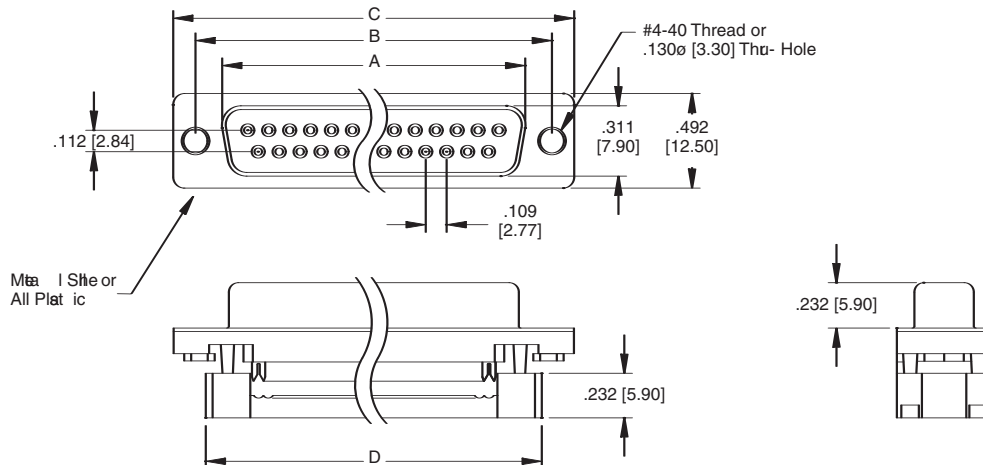
30 = 30 μm . gold in contact area

BU = Blue color insulator

PLUG



SOCKET



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] | .883 [22.44] |
| 15 | .994 [25.25] | .971 [24.66] | 1.312 [33.32] | 1.541 [39.14] | 1.213 [30.81] |
| 25 | 1.534 [38.96] | 1.511 [38.38] | 1.852 [47.04] | 2.088 [53.04] | 1.755 [44.57] |
| 37 | 2.182 [55.43] | 2.159 [54.84] | 2.500 [63.50] | 2.729 [69.32] | 2.414 [61.32] |

INTRODUCTION:

Adam Tech Solder Cup 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 industry standard connection. These connectors are manufactured with precision stamped contacts, and offer a wide selection of mating and mounting options. Adam Tech Solder Cup connectors can be soldered to cable ends or mounted directly to a PCB card edge.

FEATURES:

- Cable or edge card mounting
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Mating and mounting options

MATING CONNECTORS:

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

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate underall.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω 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

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION

DB25

PD

SL

SHELL SIZE/ POSITIONS

DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position
DD50 = 50 Position

MOUNTING OPTIONS

Blank = .120" Mounting Holes
SL = Bottom Side
Riveted, #4-40
clinch nuts
JS = Top Side
Riveted, #4-40
Jack Screws

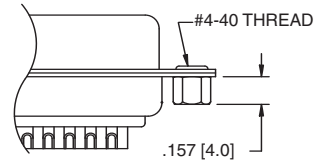
CONTACT TYPE

PD = Solder Cup, Plug
SD = Solder Cup, Socket

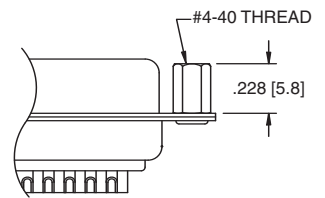
OPTIONS:

Add designator(s) to end of part number
15 = 15 μ m gold plating in contact area
30 = 30 μ m gold plating in contact area
EMI = Ferrite filtered version for EMI / RFI
suppression (Page 72)
WT = White Color Insulator

MOUNTING OPTIONS

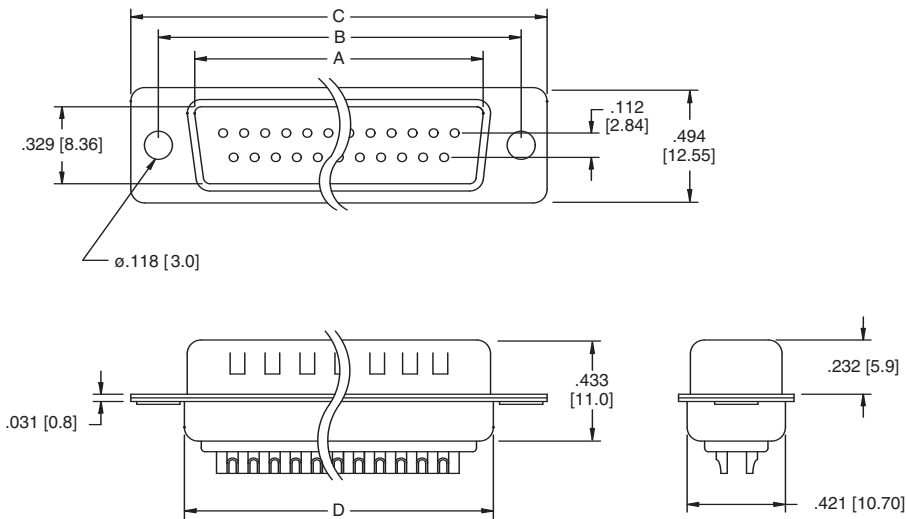


SL Option
Bottom side riveted #4-40
Clinch Nuts

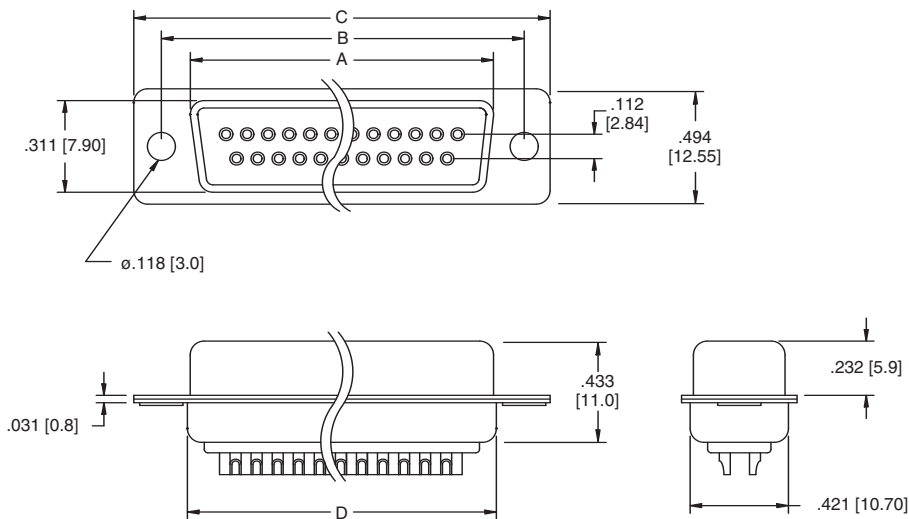


JS Option
Top side riveted #4-40
Jack Screws

PLUG



SOCKET



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] |

ADAM TECH

Adam Technologies, Inc.

D-SUBMINIATURE CRIMP AND POKE SYSTEM DPR / DSR SERIES

INTRODUCTION:

Adam Tech Crimp and Poke D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a low cost alternative to soldering a connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

FEATURES:

- Low cost no solder alternative
- 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:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω 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

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION HOUSING

DB25

SR

SL

SHELL SIZE/ POSITIONS

DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position
DD50 = 50 Position

MOUNTING OPTIONS

Blank = .120" diameter mounting holes
SL = Riveted #4-40 clinch nuts
JS = Riveted #4-40 jackscrews

CONTACT TYPE

PR = Plug, Crimp and Poke
SR = Socket, Crimp and Poke

CONTACTS

DCP

01

R

CONTACT WIRE RANGE

DCP = Plug Contact
DCS = Socket Contact

CONTACT TYPE

01 = 24-26 AWG
02 = 20-22 AWG
03 = 28-30 AWG

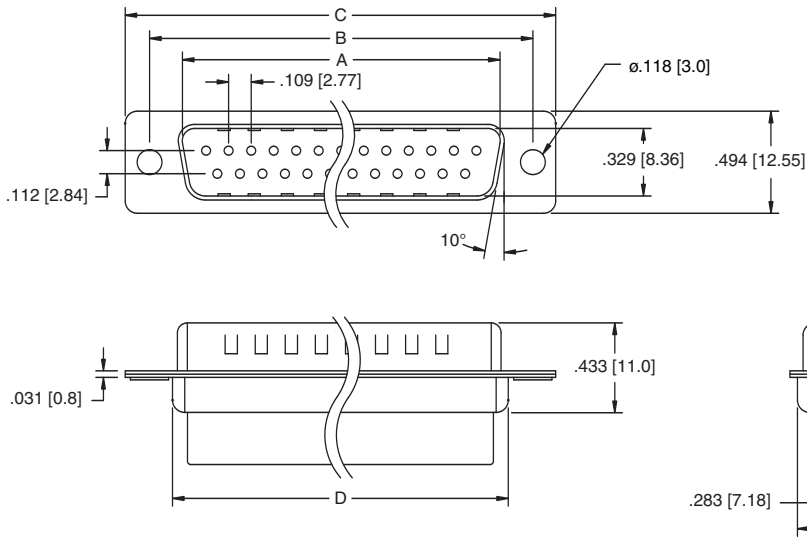
PACKAGING

R = 10,000 piece reel
B = 1000 pieces loose cut

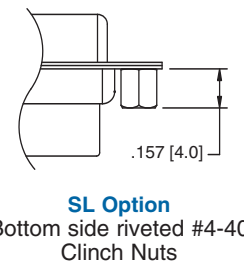
OPTIONS:

Add designator(s) to end of part number
15 = 15 μ m gold plating in contact area on crimp contacts
30 = 30 μ m gold plating in contact area on crimp contacts

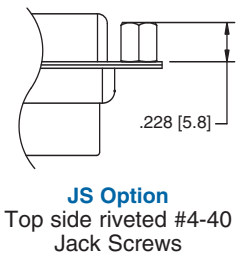
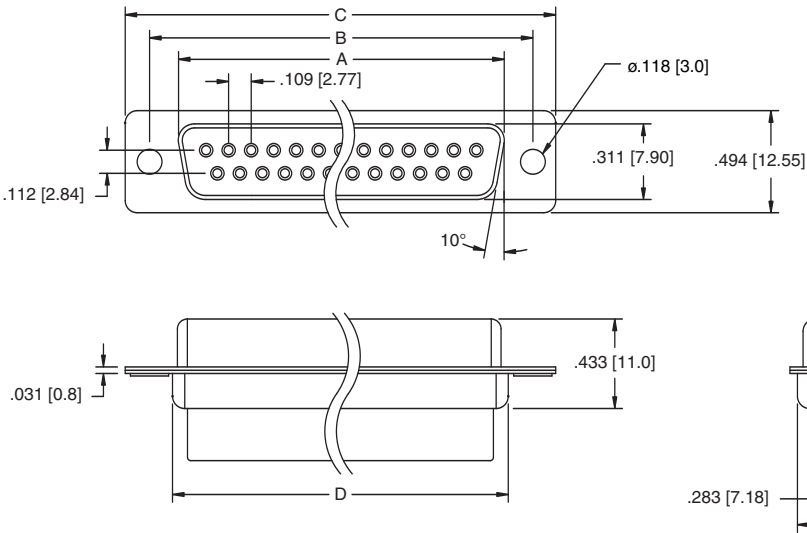
PLUG HOUSING



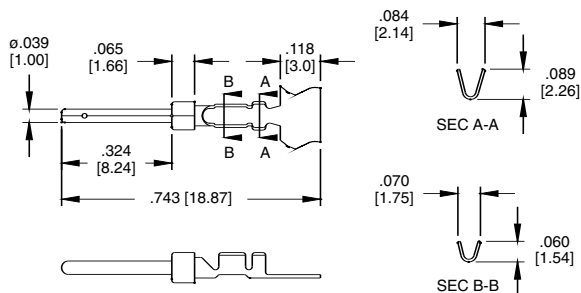
MOUNTING OPTIONS



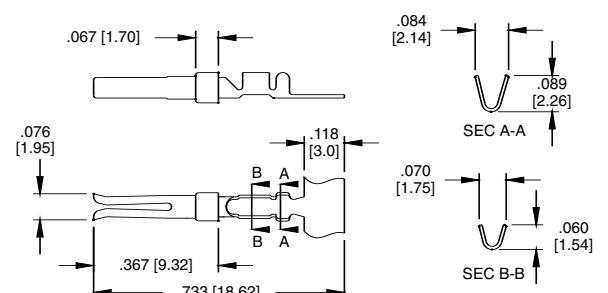
SOCKET HOUSING



PLUG CRIMP CONTACTS



SOCKET CRIMP CONTACTS



INTRODUCTION:

Adam Tech Dual Port D-Sub connectors are a popular space saving interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a good choice for a low cost industry standard connection and are ideal for PCB space saving applications. These connectors are manufactured with precision stamped contacts and are available in a number of connector combinations including same and mixed gender, mixed density and mixed interface. Options include a choice of contact plating and a variety of mating, mounting and grounding options.

FEATURES:

- Stacked space saving design
- 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:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
 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 overall.

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:

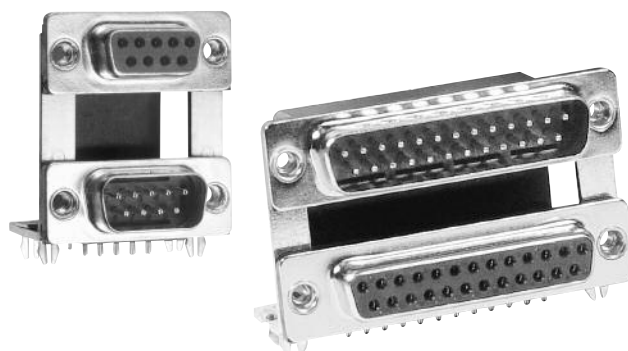
Operating temperature: -65°C to +125°C

PACKAGING:

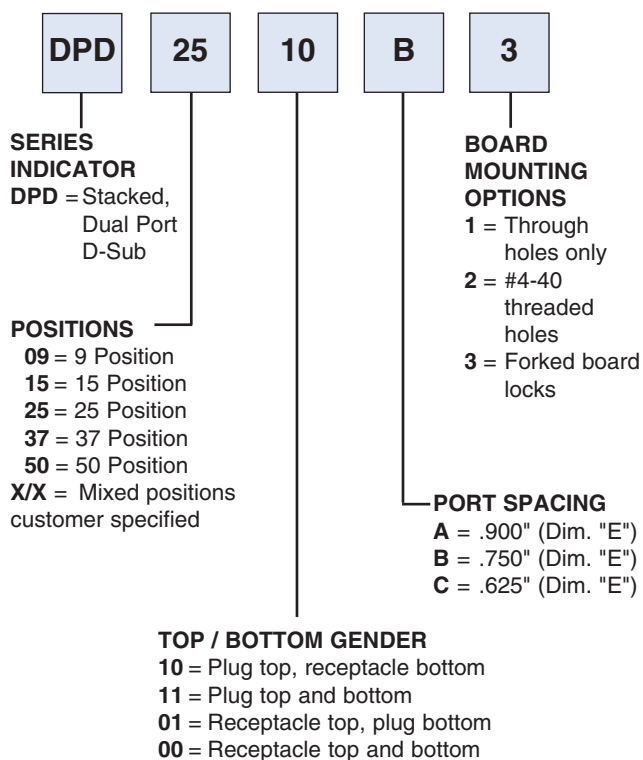
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



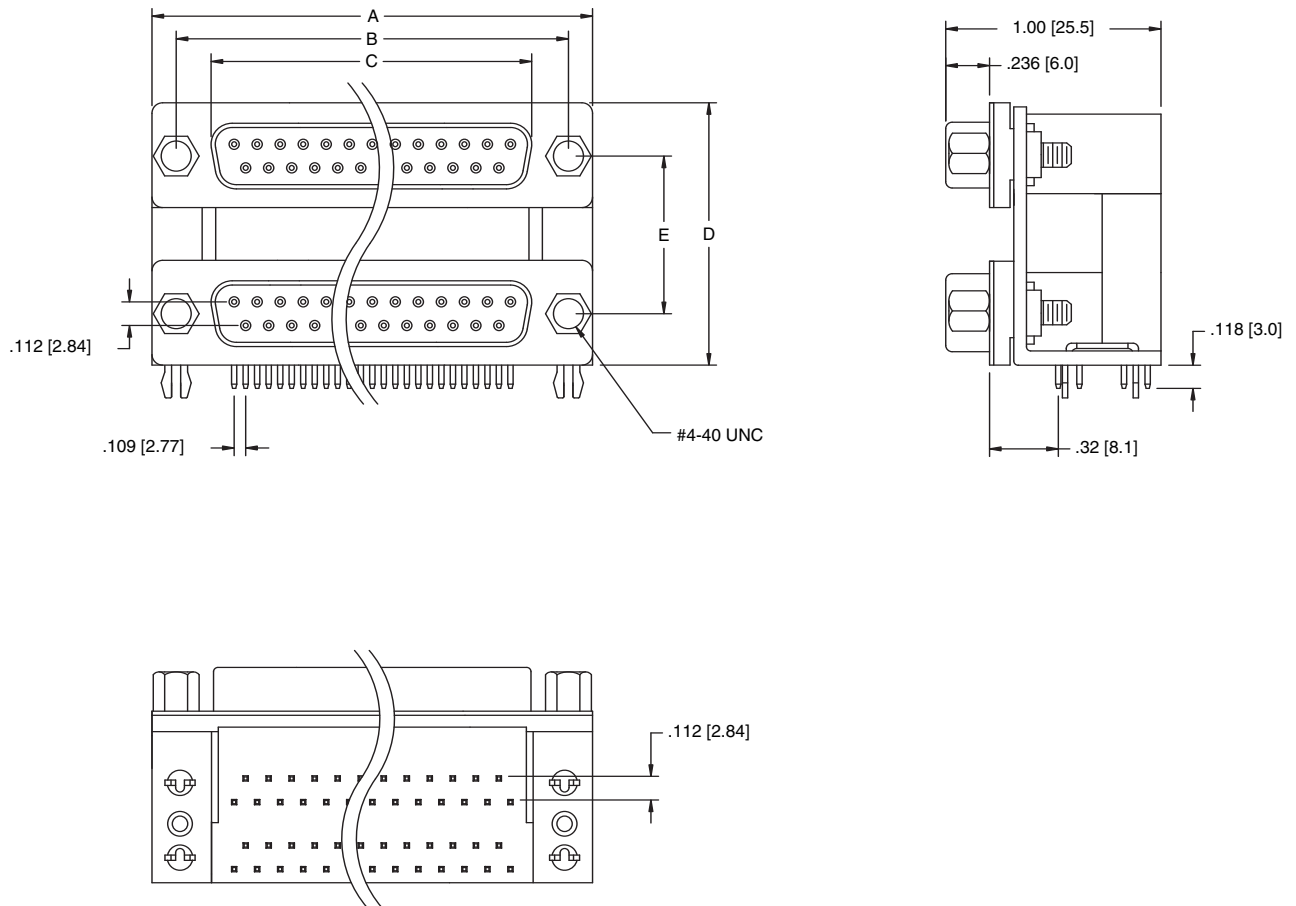
ORDERING INFORMATION



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
 JS = #4-40 Jackscrews installed
 R = Rear boardlocks only
 F = Four prong board lock

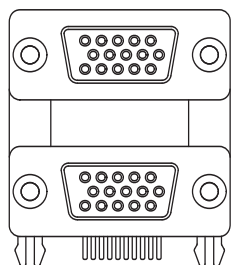
DUAL PORT, STACKED RIGHT ANGLE



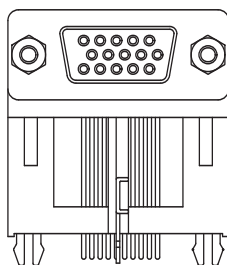
See page 100 for examples of various types we manufacture

Unit: Inch [mm]

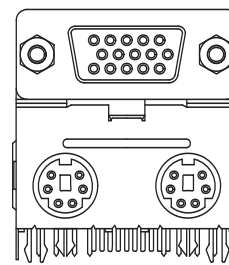
| Positions | PLUG | SOCKET | DIMENSIONS | | | | | |
|-----------|---------------|---------------|---------------|---------------|--------------|-------------------------|---------------|--------------|
| | A | A | B | C | D | E | | |
| 9 | .666 [16.92] | .643 [16.33] | .984 [24.99] | 1.213 [30.81] | PORT HEIGHTS | PORT TO PORT CENTERLINE | | |
| 15 | .994 [25.25] | .971 [24.66] | 1.312 [33.32] | 1.541 [39.14] | | | 1.394 [35.41] | .900 [22.86] |
| 25 | 1.534 [38.96] | 1.511 [38.38] | 1.852 [47.04] | 2.088 [53.04] | | | 1.244 [31.60] | .750 [19.05] |
| 37 | 2.182 [55.43] | 2.159 [54.84] | 2.500 [63.50] | 2.729 [69.32] | | | 1.119 [28.42] | .625 [15.88] |
| 50 | 2.079 [52.81] | 2.064 [52.43] | 2.406 [61.11] | 2.637 [67.00] | | | | |



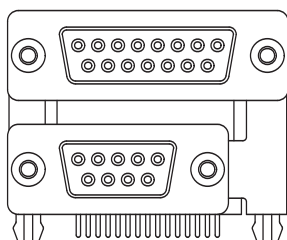
15P HD D-Sub over 15P HD D-Sub



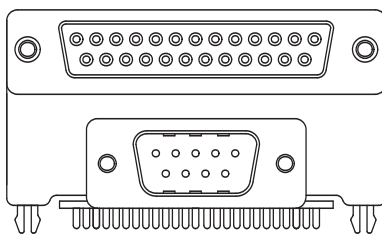
15P HD D-Sub Elevated



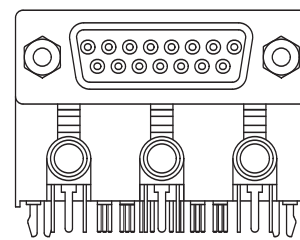
15P HD D-Sub over Dual Mini DINs



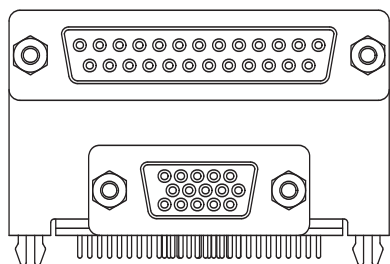
15P D-Sub over 9P D-Sub



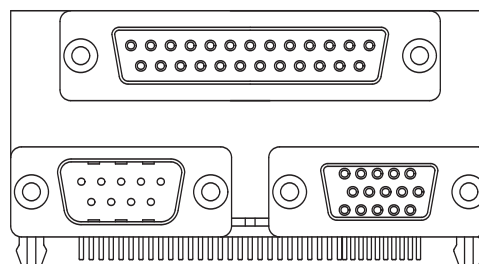
25P D-Sub over 9P D-Sub



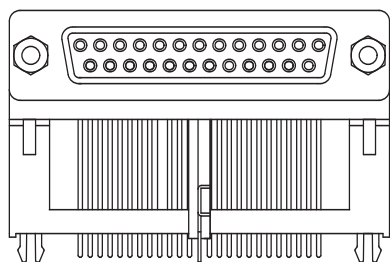
15P D-Sub over Ganged Stereo Jacks



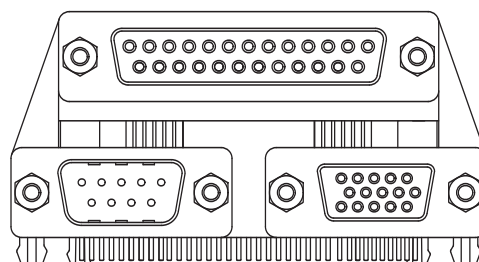
25P D-Sub over HD 15P D-Sub



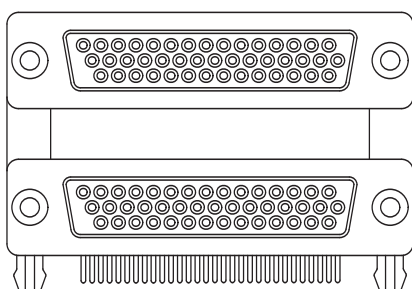
25P D-Sub over 9P D-Sub & HD 15P D-Sub



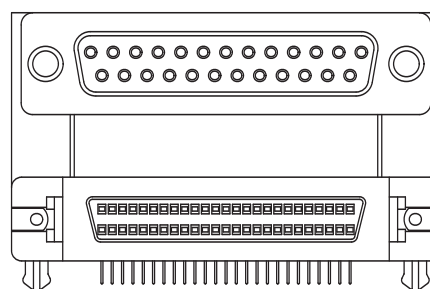
25P D-Sub Elevated



25P D-Sub over 9P D-Sub & HD 15P D-Sub



44P HD D-Sub over 44P HD D-Sub



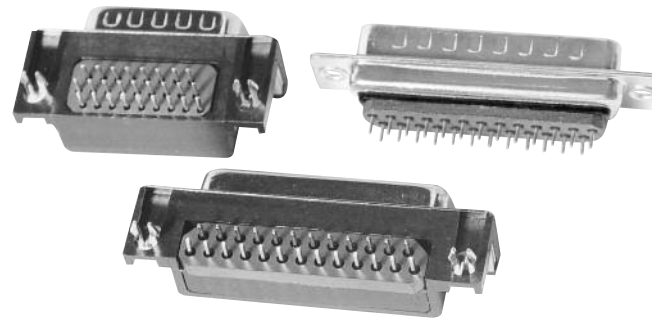
25P D-Sub over 50P SCSI II

INTRODUCTION:

Adam Tech EMI filtered D-Sub option includes the addition of a high performance Ferrite Filter which surrounds each contact and provides a low cost EMI answer for high frequency interference. Our ferrite filtered D-Subs are direct drop-in replacements with our standard unfiltered D-Subs with the same footprint.

FEATURES:

Direct replacement for standard non-filtered parts
 Low cost alternative to passive component types
 Significant reduction of noise at high frequencies

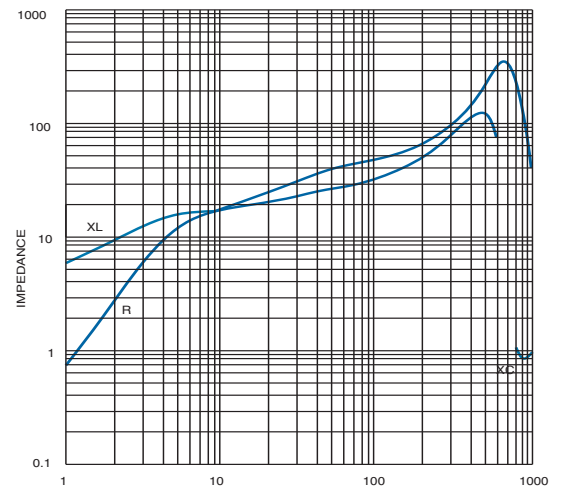


See pgs. 72,75,78,94,104,106,108 for ordering information

AdamTech offers a complete range of ferrite filtered D-Subs to satisfy EMI/RFI emissions in most applications. This series offers filtered connectors in a multitude of terminations, mating and mounting options.

- Drop in replacement for standard D-Subs
- Low applied cost
- Significant reduction of noise at high frequencies

Typical Performance



* Consult factory for specific part number impedance performance.

9 Position

FREQ (MHZ)

| | 1 | 5 | 10 | 25 | 30 | 40 | 50 | 100 | 200 |
|-----|-------|----|----|----|----|----|----|-----|-----|
| XC- | | | | | | | | | |
| XL- | 5.4 | 15 | 18 | 23 | 25 | 26 | 28 | 34 | 51 |
| R- | 0.656 | 11 | 18 | 29 | 32 | 37 | 40 | 50 | 64 |

| | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|-----|-----|-----|-----|-----|------|-------|-------|-------|
| XC- | | | | | 1.27 | 0.807 | 0.856 | 0.977 |
| XL- | 73 | 101 | 122 | 57 | | | | |
| R- | 84 | 121 | 199 | 342 | 344 | 170 | 77 | 40 |

25 Position

FREQ (MHZ)

| | 1 | 5 | 10 | 25 | 30 | 40 | 50 | 100 | 200 |
|-----|-------|-----|----|----|----|----|----|-----|-----|
| XC- | | | | | | | | | |
| XL- | 4 | 14 | 18 | 22 | 24 | 26 | 27 | 35 | 55 |
| R- | 0.309 | 8.4 | 15 | 26 | 29 | 33 | 36 | 46 | 59 |

| | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| XC- | | | | | 0.983 | 0.762 | 0.851 | 0.986 |
| XL- | 81 | 115 | 147 | 65 | | | | |
| R- | 79 | 119 | 210 | 394 | 356 | 150 | 65 | 34 |

15 Position

FREQ (MHZ)

| | 1 | 5 | 10 | 25 | 30 | 40 | 50 | 100 | 200 |
|-----|-------|------|----|----|----|----|----|-----|-----|
| XC- | | | | | | | | | |
| XL- | 3.6 | 15.9 | 19 | 24 | 25 | 27 | 28 | 36 | 54 |
| R- | 0.116 | 8.4 | 16 | 28 | 31 | 35 | 39 | 49 | 62 |

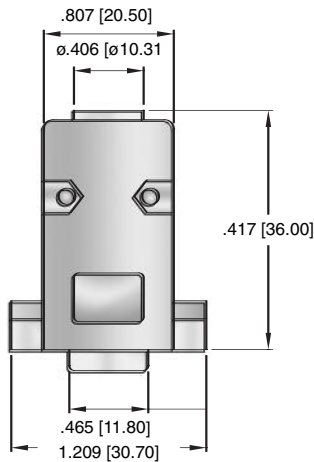
| | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|-----|-----|-----|-----|-----|-------|------|-------|-------|
| XC- | | | | | 0.998 | 0.78 | 0.864 | 0.996 |
| XL- | 80 | 112 | 138 | 48 | | | | |
| R- | 83 | 124 | 215 | 389 | 339 | 147 | 64 | 33 |

37 Position

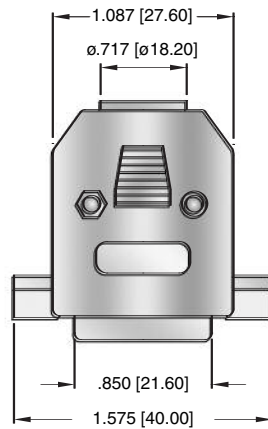
FREQ (MHZ)

| | 1 | 5 | 10 | 25 | 30 | 40 | 50 | 100 | 200 |
|-----|------|-----|----|----|----|----|----|-----|-----|
| XC- | | | | | | | | | |
| XL- | 4.9 | 16 | 20 | 25 | 27 | 28 | 30 | 36 | 53 |
| R- | 0.45 | 8.4 | 15 | 26 | 29 | 33 | 36 | 46 | 59 |

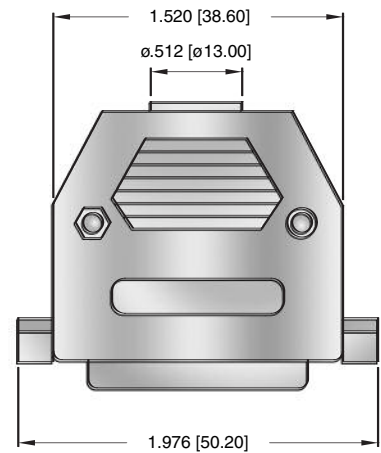
| | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
|-----|-----|-----|-----|-----|-------|-------|-------|------|
| XC- | | | | | 1.082 | 0.814 | 0.879 | 1 |
| XL- | 76 | 105 | 122 | 29 | | | | |
| R- | 80 | 122 | 224 | 424 | 332 | 131 | 56 | 29 |



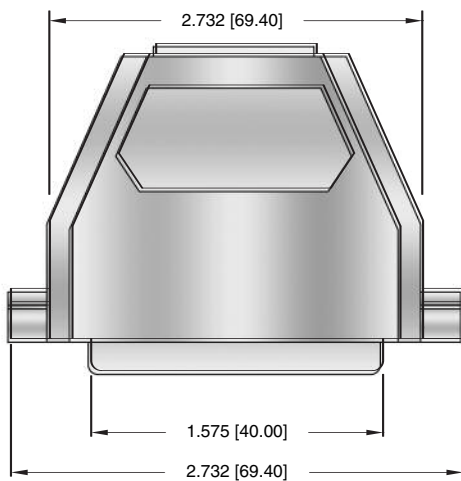
DE09-HD-PN-(SS or TS)



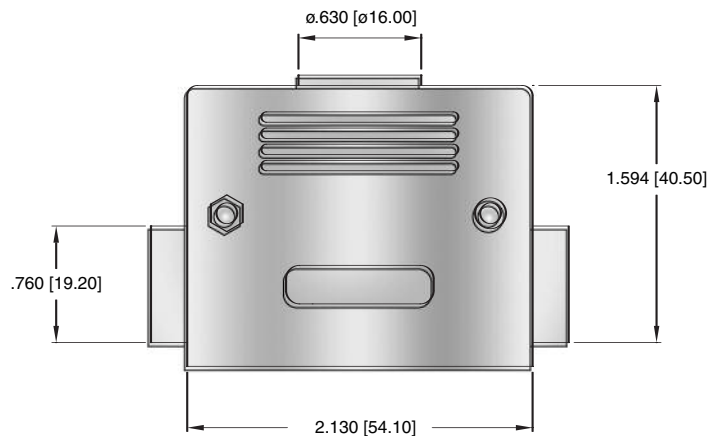
DA15-HD-PN-(SS or TS)



DB25-HD-PN-(SS or TS)



DC37-HD-PN-(SS or TS)

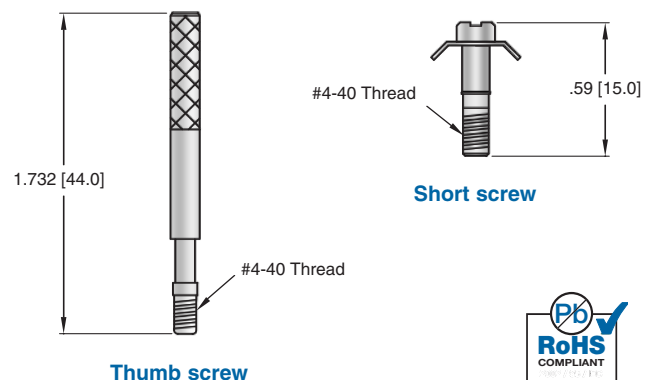


DD50-HD-PN-(SS or TS)

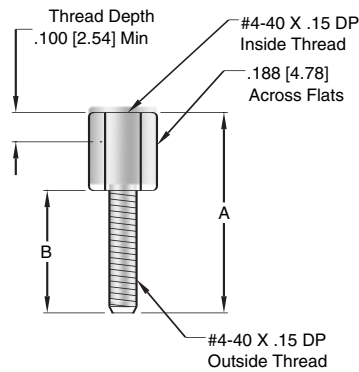
ORDERING INFORMATION

choose one from each category as shown in sample below

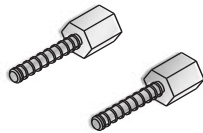
| Hood Size | Hood Color | Hardware |
|--------------------|-----------------------------------|------------------|
| DE09-HD | PY | TS |
| DE09-HD - 9P Hood | PY - Gray Plastic | SS - Short Screw |
| DA15-HD - 15P Hood | PB - Black Plastic | TS - Thumb Screw |
| DB25-HD - 25P Hood | PN - Bright Chrome Plated Plastic | |
| DC37-HD - 37P Hood | | |
| DD50-HD - 50P Hood | AL - Aluminum Cast | |



Jackscrews

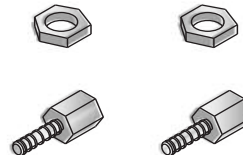


| JACKSCREW DIMENSIONS | | |
|----------------------|--------------|-------------|
| PART NUMBER | A | B |
| JS-01 | .416 [10.60] | .226 [5.70] |
| JS-02 | .467 [11.86] | .270 [6.86] |
| JS-03 | .500 [12.70] | .313 [7.95] |
| JS-04 | .465 [11.81] | .226 [5.70] |



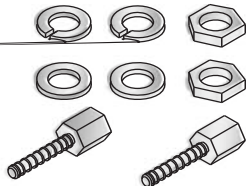
HDW-031

Set includes 2 #4-40 female jackscrews



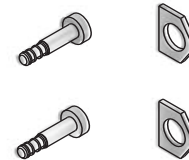
HDW-024

Set includes 2 #4-40 female jackscrews and 2 hex nuts



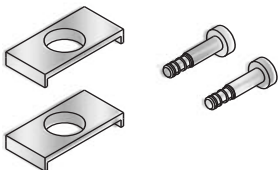
HDW-023

Set includes 2 #4-40 female jackscrews 2 flat washers, 2 split washers and 2 hex nuts



HDW-028

Screw retainer clip set includes 2 screw retainer clips and retainer screws



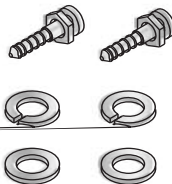
HDW-029

Screw lock kit includes 2 screw locks and retainer screws



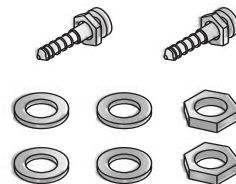
HDW-044

Sliding lock posts Set of 2



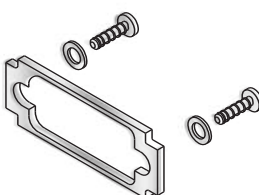
HDW-043A

Slide lock post set includes 2 posts, washers and lock-washers



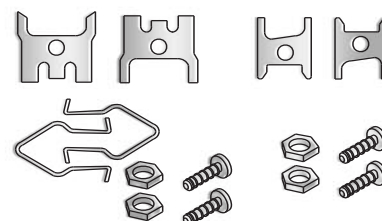
HDW-045

Slide lock post kit includes 2 posts, washers and hex nuts



HDW-043-XX

Slide lock assembly kit includes slide lock, screws and washers, Specify 9, 15, 25 or 37 position



HDW-041

Spring latch set includes 1 pair of spring latches, with holding hardware and 1 pair of notch clips, with holding hardware

INTRODUCTION:

Adam Tech Solder Cup High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions, they are a good choice for a low cost industry standard high density connection. 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:

- High Density pin count in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

- Insulator: PBT, 30% glass reinforced, rated UL94V-0
- Insulator Colors: Black (White optional)
- Contacts: Phosphor Bronze
- Shell: Steel, Tin or Zinc plated
- Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall.

Electrical:

- Operating voltage: 250V AC / DC max.
- Current rating: 5 Amps max.
- Contact resistance: 20 m Ω max. initial
- Insulation resistance: 5000 M Ω min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

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

Temperature Rating:

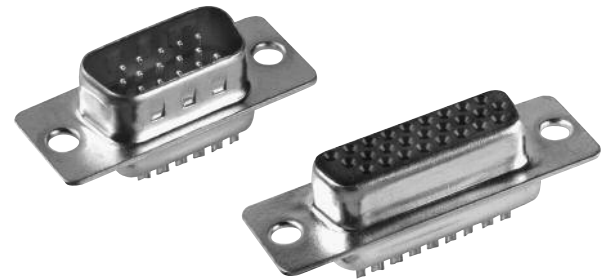
Operating temperature: -65°C to +125°C

PACKAGING:

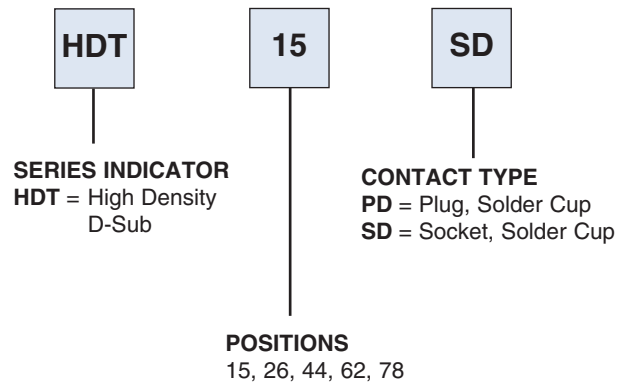
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION

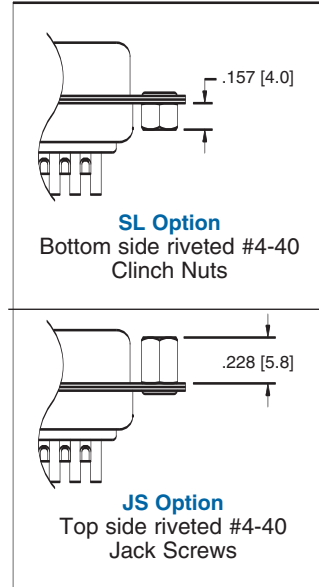


OPTIONS:

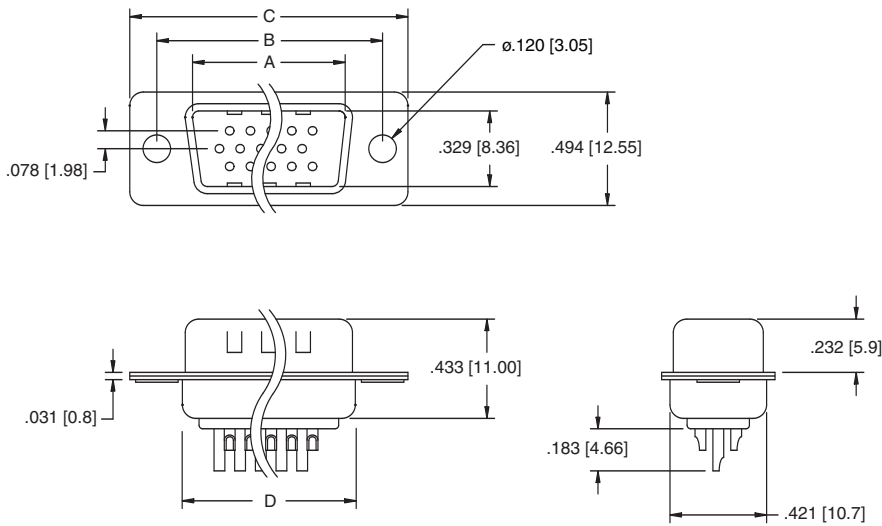
Add designator(s) to end of part number

- 15 = 15 μ m gold plating in contact area
- 30 = 30 μ m gold plating in contact area
- WT = White color insulator
- SL = Bottom side Riveted #4-40 Clinch Nuts
- JS = Top side riveted #4-40 Jack Screws
- EMI = Ferrite filtered version for EMI / RFI suppression (Page 101)

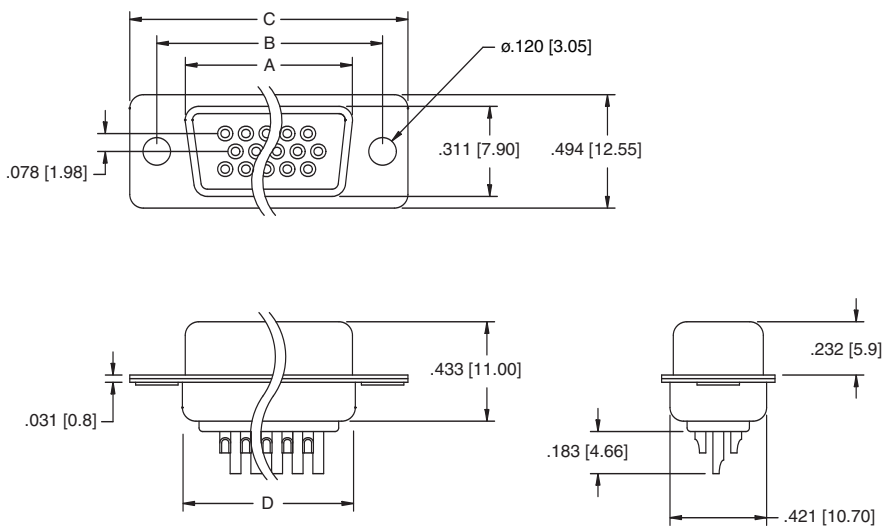
MOUNTING OPTIONS



PLUG



SOCKET



Unit: Inch [mm]

| Positions | PLUG | SOCKET | DIMENSIONS | | |
|-----------|---------------|---------------|---------------|---------------|---------------|
| | A | A | B | C | D |
| 15 | .666 [16.92] | .643 [16.33] | .984 [24.99] | 1.213 [30.81] | .759 [19.28] |
| 26 | .994 [25.25] | .971 [24.66] | 1.312 [33.32] | 1.541 [39.14] | 1.083 [27.51] |
| 44 | 1.534 [38.96] | 1.511 [38.38] | 1.852 [47.04] | 2.088 [53.04] | 1.626 [41.30] |
| 62 | 2.182 [55.43] | 2.159 [54.84] | 2.500 [63.50] | 2.729 [69.32] | 2.271 [57.70] |
| 78 | 2.079 [52.81] | 2.064 [52.43] | 2.406 [61.11] | 2.635 [66.93] | 2.099 [55.32] |

INTRODUCTION:

Adam Tech Straight PCB tail High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. 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:

- High Density pin count in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

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

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall.

Electrical:

- Operating voltage: 250V AC / DC max.
- Current rating: 5 Amps max.
- Contact resistance: 20 m Ω max. initial
- Insulation resistance: 5000 M Ω min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

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

Temperature Rating:

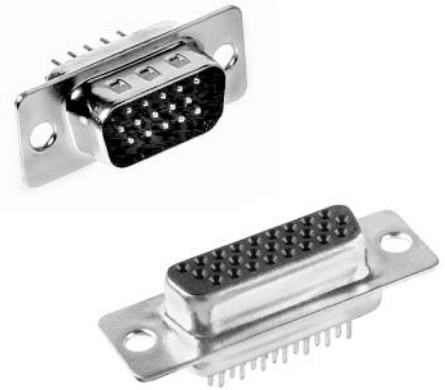
- Operating temperature: -65°C to +125°C
- Soldering process temperature:
 - Standard insulator: 235°C
 - Hi-Temp insulator: 260°C

PACKAGING:

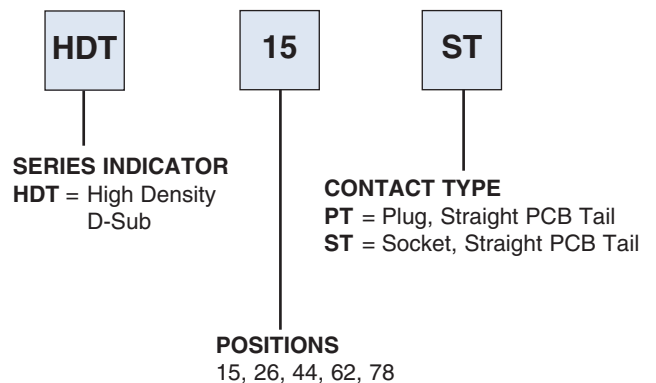
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

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



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

WT = White color insulator

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

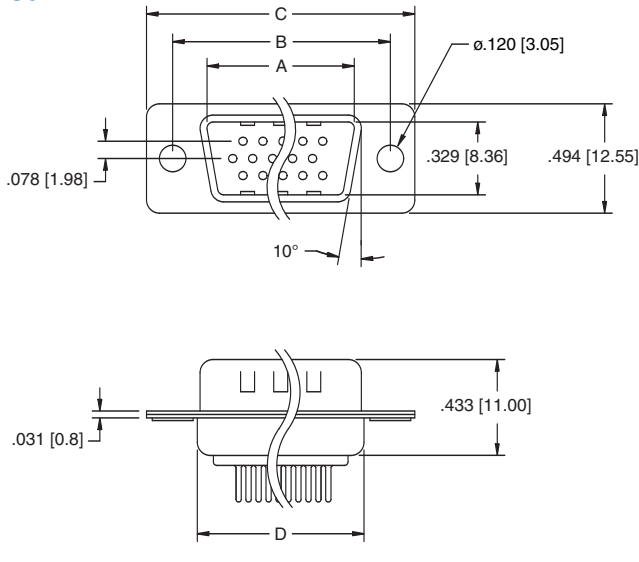
SL = Riveted #4-40 Clinch Nuts

JS = Riveted #4-40 Jackscrews

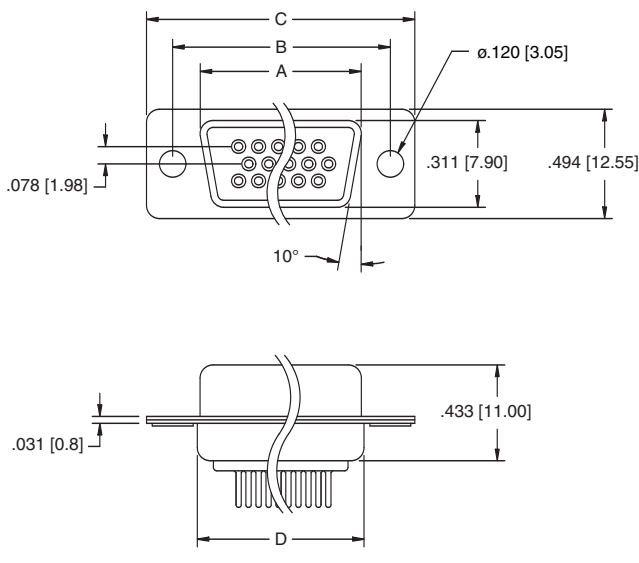
BL = Riveted #4-40 Internal Threaded Standoffs with Boardlocks

EMI = Ferrite filtered version for EMI / RFI suppression (Page 101)

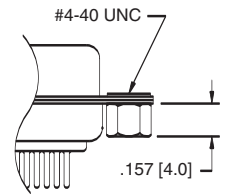
PLUG



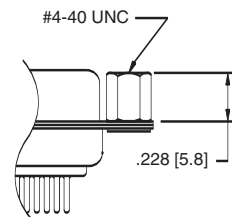
SOCKET



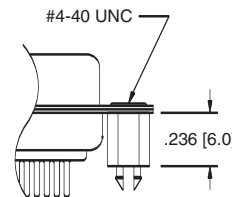
MOUNTING OPTIONS



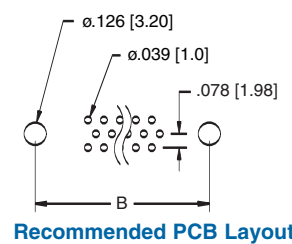
SL Option
Bottom side riveted #4-40 Clinch Nuts



JS Option
Top side riveted #4-40 Jack Screws



BL Option
Bottom side riveted #4-40 Clinch Nuts with PCB Boardlocks



Recommended PCB Layout

Unit: Inch [mm]

| Positions | PLUG | SOCKET | DIMENSIONS | | |
|-----------|---------------|---------------|---------------|---------------|---------------|
| | A | A | B | C | D |
| 15 | .666 [16.92] | .643 [16.33] | .984 [24.99] | 1.213 [30.81] | .759 [19.28] |
| 26 | .994 [25.25] | .971 [24.66] | 1.312 [33.32] | 1.541 [39.14] | 1.083 [27.51] |
| 44 | 1.534 [38.96] | 1.511 [38.38] | 1.852 [47.04] | 2.088 [53.04] | 1.626 [41.30] |
| 62 | 2.182 [55.43] | 2.159 [54.84] | 2.500 [63.50] | 2.729 [69.32] | 2.271 [57.70] |
| 78 | 2.079 [52.81] | 2.064 [52.43] | 2.406 [61.11] | 2.635 [66.93] | 2.099 [55.32] |

INTRODUCTION:

Adam Tech Right Angle PCB High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. 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:

- High Density in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0

Optional Hi-Temp insulator: Nylon 6T rated UL94V-0

Insulator Colors: HDL Series: Black
HDVG Series: Blue

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 overall.

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



SERIES INDICATOR

HDL = High Density D-Sub

HDVG = High Density VESA connector with recessed #9 pin and blue insulator

POSITIONS

15, 26, 44, 62, 78

MOUNT OPTIONS

A = #4-40 Jackscrews and forked boardlocks

B = #4-40 Flush threaded inserts and forked boardlocks

C = #4-40 Flush threaded inserts with removable jackscrews and forked boardlocks

D = Topside ground straps with screw holes

CONTACT TYPE

PL = Plug, Right Angle Mount

SL = Socket, Right Angle Mount

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

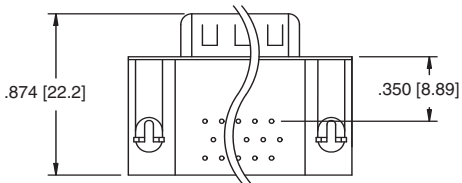
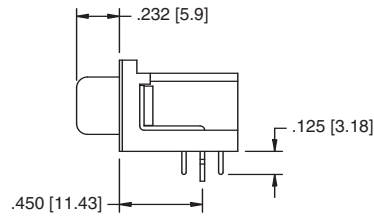
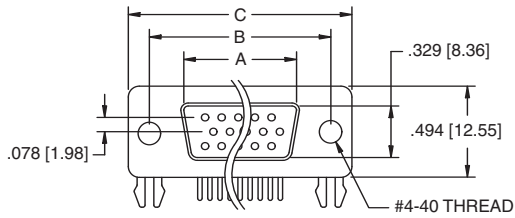
EMI = Ferrite filtered version for EMI / RFI suppression (Page 101)

F = Retention 4 prong boardlocks

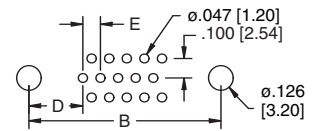
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

R = Round Riveted Jackscrews

PLUG

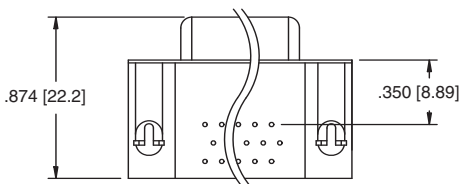
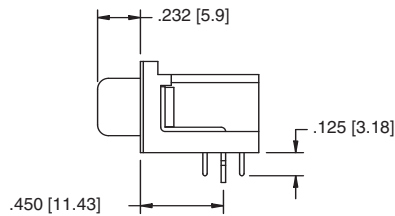
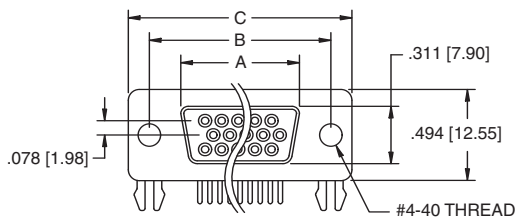


HDL15-PL-B

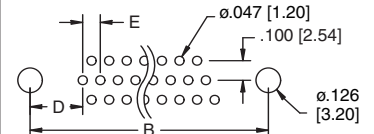


15 Position PCB Layout

SOCKET

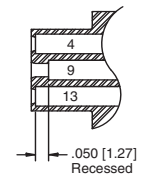


HDL15-SL-B



26, 44, 62 Position PCB Layout

Hi Density Video Graphics Connector



HDVG-15-SL-B

Unit: Inch [mm]

| Positions | PLUG | SOCKET | DIMENSIONS | | | |
|-----------|---------------|---------------|---------------|---------------|-------------|-------------|
| | A | A | B | C | D | E |
| 15 | .666 [16.92] | .643 [16.33] | .984 [24.99] | 1.213 [30.81] | .277 [7.04] | .090 [2.29] |
| 26 | .994 [25.25] | .971 [24.66] | 1.312 [33.32] | 1.541 [39.14] | .277 [7.04] | .090 [2.29] |
| 44 | 1.534 [38.96] | 1.511 [38.38] | 1.852 [47.04] | 2.088 [53.04] | .277 [7.04] | .090 [2.29] |
| 62 | 2.182 [55.43] | 2.159 [54.84] | 2.500 [63.50] | 2.729 [69.32] | .276 [7.00] | .095 [2.41] |
| 78 | 2.079 [52.81] | 2.064 [52.43] | 2.406 [61.11] | 2.635 [66.93] | .300 [7.63] | .095 [2.41] |

INTRODUCTION:

Adam Tech Crimp and Poke High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a low cost alternative to soldering a high density connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

FEATURES:

- High Density in standard size shell
- Low cost no solder alternative
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
 Insulator Colors: Black (White optional)
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold Flash (15 and 30 μ m Optional) over Nickel underplate overall.

Electrical:

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

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min
 Recommended wire size: 22 to 28 Awg

Temperature Rating:

Operating temperature: -65°C to +125°C

PACKAGING:

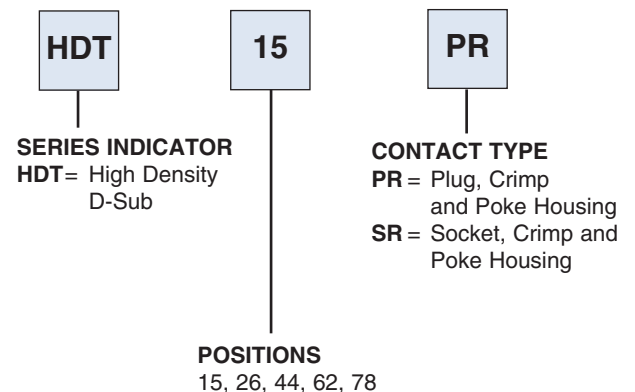
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

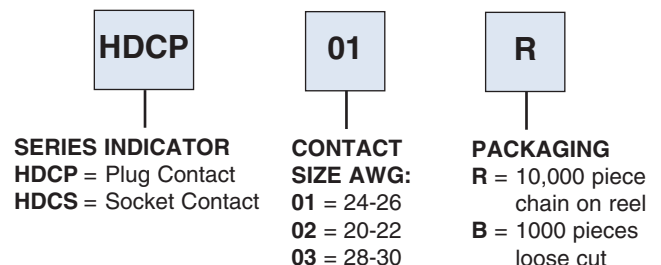
UL Recognized File No. E224053
 CSA Certified File No. LR1578596



ORDERING INFORMATION HOUSING



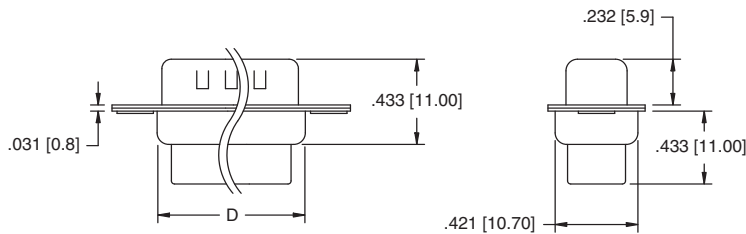
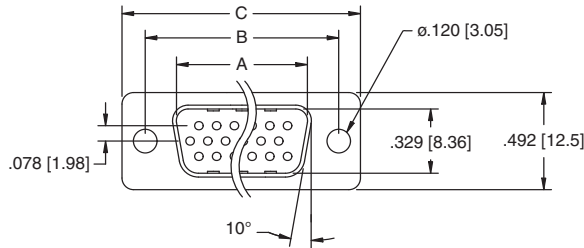
CRIMP CONTACT



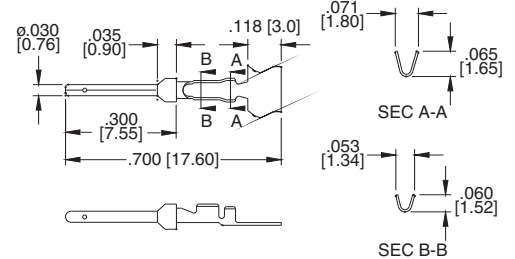
OPTIONS:

Add designator(s) to end of part number
15 = 15 μ m gold plating in contact area
30 = 30 μ m gold plating in contact area
WT = White color insulator.
SL = Riveted #4-40 Clinch Nuts
JS = Riveted #4-40 Jackscrews

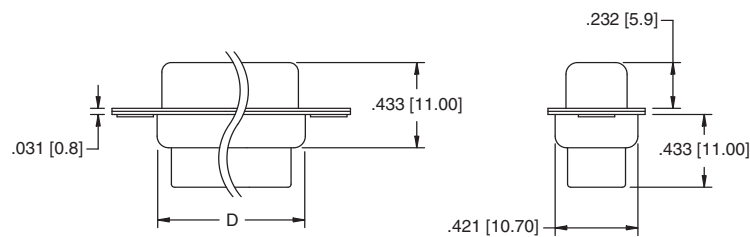
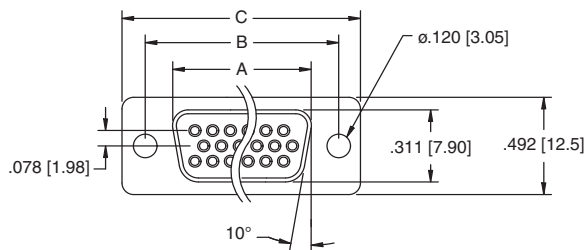
PLUG



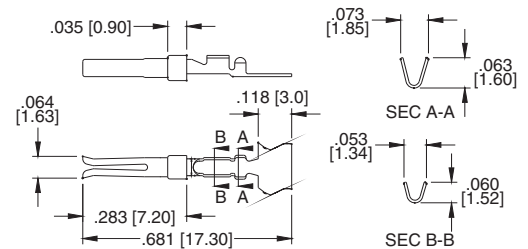
Plug Contact



SOCKET



Socket Contact



Unit: Inch [mm]

| Positions | PLUG | SOCKET | DIMENSIONS | | |
|-----------|---------------|---------------|---------------|---------------|---------------|
| | A | A | B | C | D |
| 15 | .666 [16.92] | .643 [16.33] | .984 [24.99] | 1.213 [30.81] | .759 [19.28] |
| 26 | .994 [25.25] | .971 [24.66] | 1.312 [33.32] | 1.541 [39.14] | 1.083 [27.51] |
| 44 | 1.534 [38.96] | 1.511 [38.38] | 1.852 [47.04] | 2.088 [53.04] | 1.626 [41.30] |
| 62 | 2.182 [55.43] | 2.159 [54.84] | 2.500 [63.50] | 2.729 [69.32] | 2.271 [57.70] |
| 78 | 2.079 [52.81] | 2.064 [52.43] | 2.406 [61.11] | 2.635 [66.93] | 2.099 [55.32] |