

DIN 41612 Circuit Board Connectors



HEADERS & SOCKETS AND MASS-TERMINATED

IDC Connectors



RJ Modular Jacks



FCC Filtered Connectors

Amphenol°



Amphenol miniature-ribbon connector

Miniature Ribbon Connectors

Amphenol[®]

Data / Telecom Products

20 Melford Drive Scarborough, Ontario Canada M1B 2X6

Telephone: (416) 754-5656 Facsimile: (416) 754-8668 Email: sales@amphenolcanada.com Website: www.amphenolcanada.com © Amphenol Canada Corp. Specifications subject to change without notice. Designed by K Jasper Marketing Communications Inc.



GENERAL DESCRIPTION:

Amphenol's line of D-Subminiature rack and panel connectors is part of an industry standard for applications requiring reliable, rugged, connectors. These connectors are designed to accommodate rack and panel, cable to panel and cable to cable applications. D-Subminiature connectors are pin and socket devices that employ contacts encased in a molded dielectric insert surrounded by a "D" shaped shell for polarization.

MARKETS:

Amphenol D-Subminiature connectors can be used in commercial, industrial or military markets. We offer a broad selection of dielectric materials and contact styles and configurations to meet all of your design requirements.

APPLICATIONS INCLUDE:

- Business equipment
- Electronic office systems
- Data communications
- Medical equipment
- Mobile communications
- Consumer electronics

AMPHENOL D-SUB FEATURES:

- Industry standard interfacing RS232 and RS449 mating configurations per EIA standards.
- UL Component Recognition File number E64911 (617, 841, 17, 17D, 17HD, ED, 17RR, 17SD, 117DF, 17BH, 17TW
- Variations available:

 Solder cup

 Straight pc mount solder
 Right angle pc mount solder
 Solderless wire wrap
 Crimp
 High Density Right Angle
 High Density Straight
 Stacked Right Angle PC mount
 Surface mount
- Five shell sizes offer widest choice of contact positions:
 9, 15, 25, 37 and 50 in standard density and 15, 26, 44, 62 and 78 positions in high-density.
- Inserts are flame-retardant thermoplastic.
- Accessories for all applications are available including strain reliefs, cable clamps, shielded backshells, mating hardware and connector to pc board mounting hardware.
- Automatic and manual tooling is available for both crimp and IDC versions.
- Contact Amphenol for lease information.

Dimensions and characteristics are subject to change without notice.

Shells

Steel, tin plated, grounding indents on plug.

Copper alloy

Contact Material Contact Plating

Engagement area: gold (see ordering information). 150µ" (3.81µm) tin/lead

Termination End Nickel Underplate

50μ" (1.27μm) entire contact

ELECTRICAL DATA

Current Rating Voltage Rating

Dielectric Withstanding Voltage 1000 VAC (minimum) Dielectric

Insulation Resistance Contact Resistance

3 Amps maximum per contact 125 VAC

Glass filled thermoplastic, black, UL 94 VO

5,000 Megaohms (minimum) 15 Milliohms (maximum)

CLIMATIC DATA

Operating Temperature -67°F (-55°C) to 221°F (105°C) 17E BH/HD SERIES



Amphenol's High Density D-Subminiature connectors compleme nt Amphenol's extensive D-Subminiature connector line. This line of connectors offers many superior features, high performance level and low installation cost.

The connector configurations are available in 15, 26, 44, 62 and 78 positions.

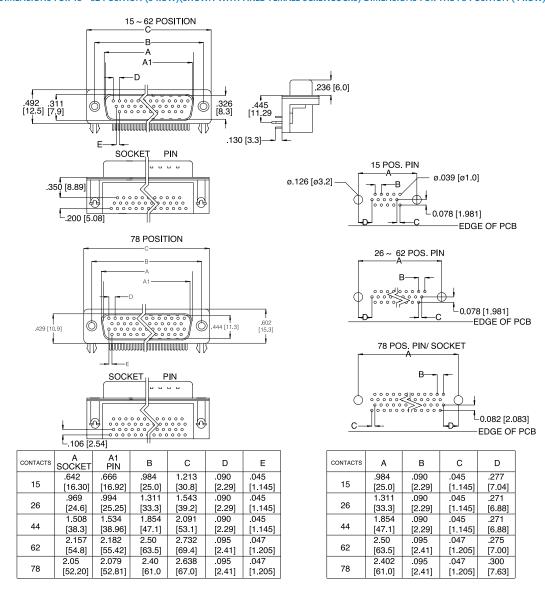
The product offering includes PCB mount connectors in both straight or right angle termination styles. Straight PCB mount are available in both Fixed Screw Machine and Stamped and Formed contacts, while Right Angle PCB mount are only available with Stamped and Formed contacts.

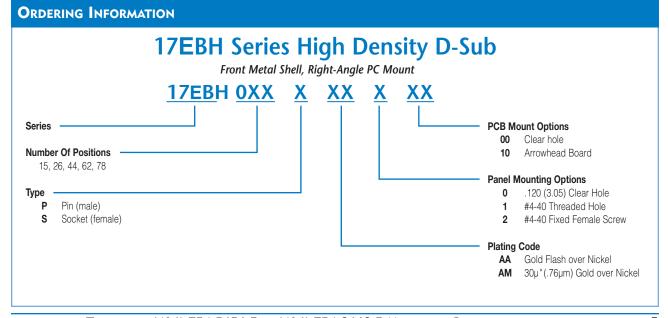
A cable mount version with solder terminations is also available, which can be combined with Amphenol's standard line of shielded or unshielded backshells.

- Industrial
- Telecom
- Any industry standard I / O connections

INCHES (MM)

DIMENSIONS FOR 15 - 62 POSITION (3 ROW)(SHOWN WITH FIXED FEMALE SCREWLOCKS) DIMENSIONS FOR THE 78 POSITION (4 ROW)





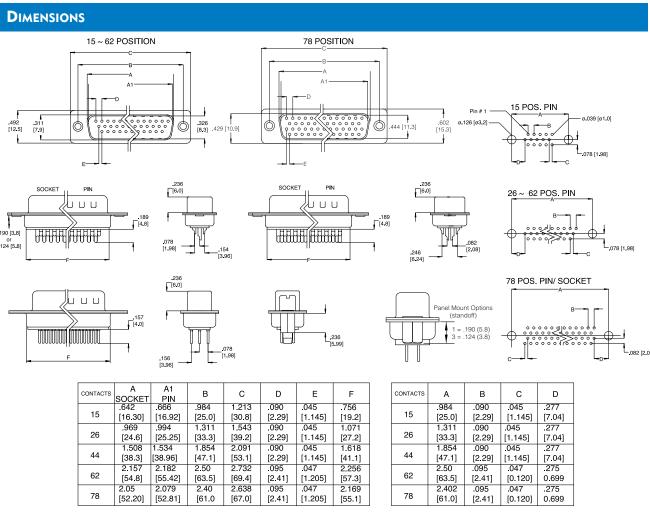
TELEPHONE: (416) 754-5656 FAX: (416) 754-8668 E-MAIL: SALES@AMPHENOLCANADA.COM

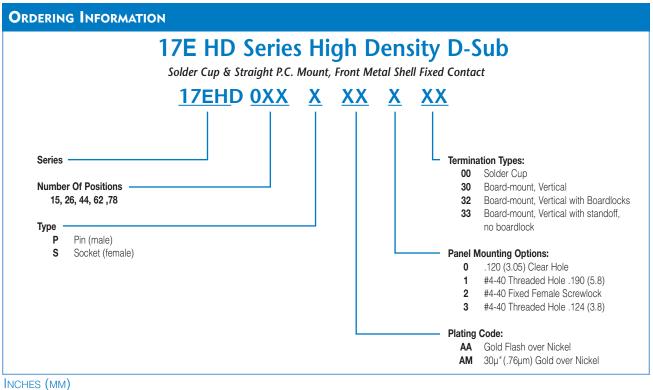




High Density

17EHD SERIES
Solder Cup And Straight P.C. Mount / Double Metal Shell Fixed Contact





Right-Angle Board Mount Connectors Front Metal Shell

SPECIFICATIONS:

MATERIALS AND PLATINGS

Steel, tin plated Precision formed copper alloy Shells Contacts

Contact Plating Gold over nickel

Engagement: 12 oz. max. (340.2 g) Separation: .75 oz. min. (21.26 g) **Contact Forces**

ELECTRICAL DATA

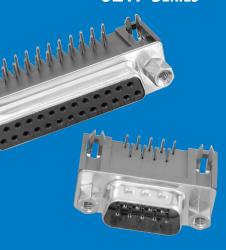
Current Rating Dielectric Withstanding Voltage Dielectric

5 amps 1000 VAC/60 sec. Glass filled thermoplastic, black, UL 94 VO 15 milliohms max.

Contact Resistance

CLIMATIC DATA

Temperature Range -67°F (-55°C) to 221°F (105°C) **6E17 SERIES**

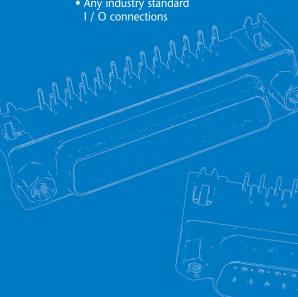


Amphenol's 6E17 series of right angle commercial connectors provide high performance at competitive prices.

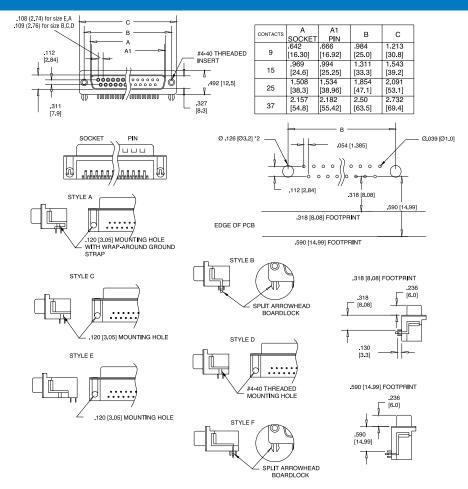
The front metal shell helps to provide reduced EMI/ RFI emissions, and the contacts are selectively plated to provide additional high performance. The 6E17 series are available in a variety of board mounting and grounding options including arrowhead boardlocks and #4-40 threaded inserts.

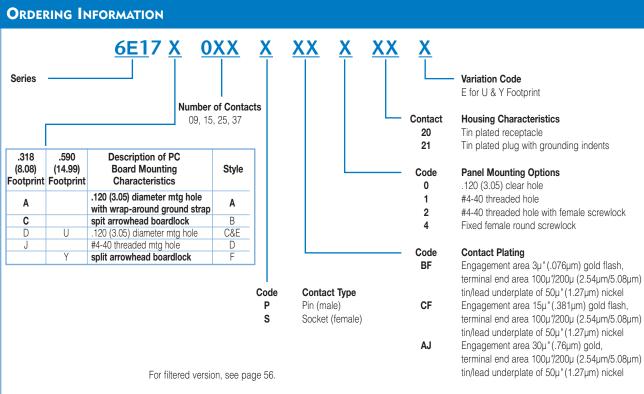
Front mounting holes are also available threaded, un-threaded and with installed female hex screwlocks.

- Industrial
- Telecom
- Any industry standard









Dual Port Connectors

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells Contacts

Steel, tin plated Precision formed copper alloy **Contact Plating** Gold over nickel

Engagement: 12 oz. max. (340.2 g) Separation: .75 oz. min. (21.26 g) **Contact Forces**

ELECTRICAL DATA

Current Rating
Dielectric Withstanding Voltage
Dielectric

5 amps
1000 VAC/60 sec.
Glass filled thermoplastic,
black, UL 94 VO

Contact Resistance 15 milliohms max.

CLIMATIC DATA

Temperature Range -67°F (-55°C) to 221°F (105°C)



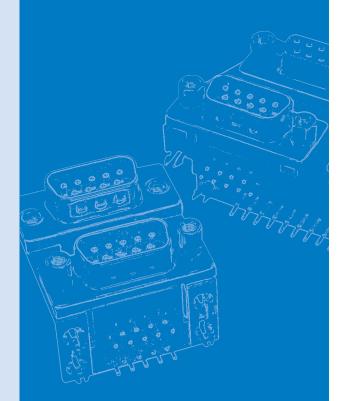


Amphenol's 61E7 series dual port connectors are a state of the art design. The front metal shell helps reduce EMI/RFI emissions.

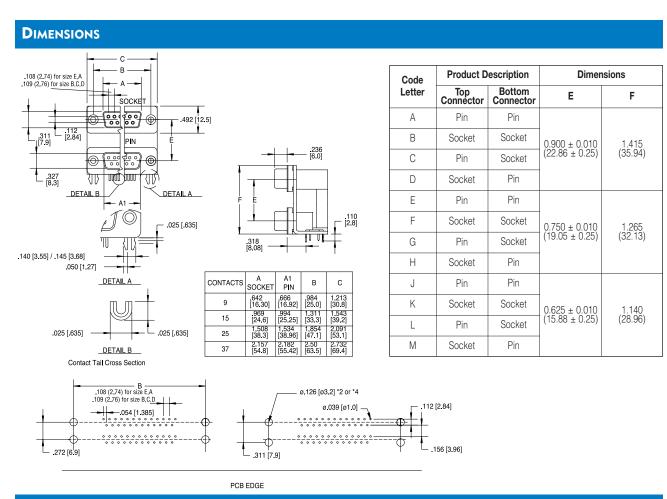
Contacts are selectively plated for high performance at a low cost.

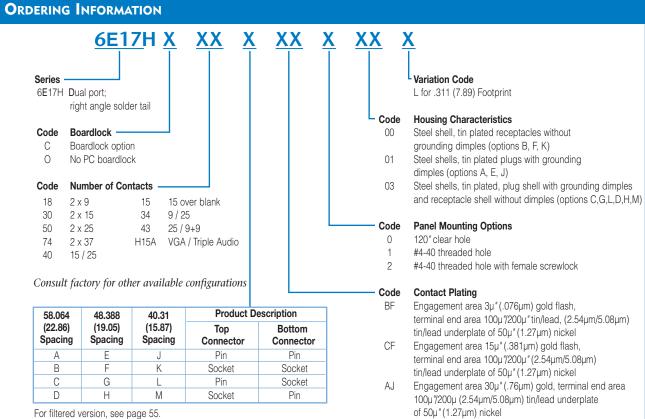
Designed to save PC board space, Amphenol's dual port "D" provides two input output connectors in a minimal amount of board space.

These connectors are available with various stacking options: same gender, mixed gender and multiple pin counts.



6E17 H SERIES Dual Port Connectors





TELEPHONE: (416) 754-5656 FAX: (416) 754-8668 E-MAIL: SALES@AMPHENOLCANADA.COM

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High Temperature Straight Board Mount Connectors

SPECIFICATIONS:

MATERIALS AND PLATINGS

Steel/nickel plated Precision formed copper alloy Gold over nickel Shells Contacts **Contact Plating**

ELECTRICAL DATA

Current Rating Voltage Rating Dielectric 5 amps 600 V

Glass filled thermoplastic, black, UL 94 VO 10 milliohms (max.) **Contact Resistance**

CLIMATIC DATA

Temperature Range

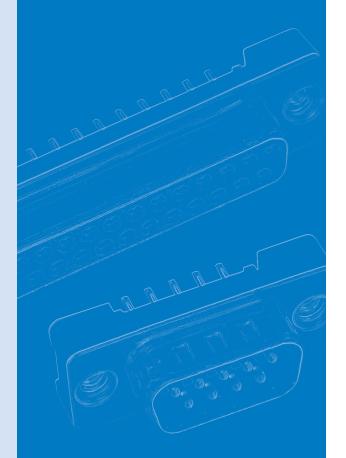
Environmental: -67°F (-55°C) to 302°F (150°C) IR-Air Convection 500°F (260°C) for 20 seconds

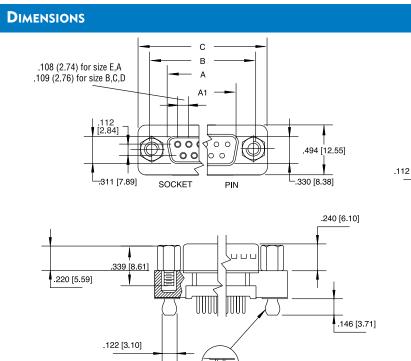
Process Compatibility

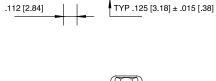
6E17S SERIES



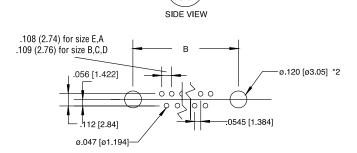
Amphenol's high temperature, low profile D-Sub connector gives you a high quality, reliable commercial connector to meet today's market demands.

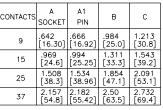


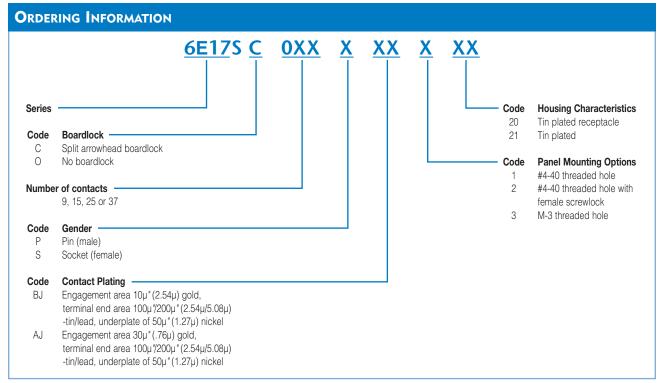




.237 [6.02]







ED-EHD

D-Sub connectors - Screw-machined contacts

STANDARD AND HIGH DENSITY WATERPROOF CONNECTORS

| | Materials and Platings | | | | |
|-----------|--|--|--|--|--|
| Shells | Steel 2.5µm(100µ") min tin over 1.25µm(50µ") min nickel | | | | |
| Body | Glass-filled thermoplastic | | | | |
| | Flame retardant to UL94 V-0 Color Black | | | | |
| Contacts | Copper alloy(Brass for plug, Phospher bronze for socket) | | | | |
| | gold over 1.25µm(50µ") min nickel | | | | |
| Boardlock | Copper alloy, 100µ" min. sn over 50µ" min. nickel. | | | | |
| Standoff | Copper alloy, 100µ" min. sn over 50µ" min. nickel. | | | | |

| | Electrical Data |
|-----------------------|------------------|
| Current rating | 5.0A |
| Voltage rating | 300V rms at 50Hz |
| Insulation resistance | >5000MΩ |
| Contact resistance | $20m\Omega$ Max. |
| Contact resistance | 2011122 IVIAX. |

| | Climatic Data |
|-----------------------|----------------|
| Operating temperature | -55°C to +85°C |
| Salt spray | 48 hours |
| Waterproof rating | IP 67 minimum |

Mechanical Data

Mating and unmating force

Unit: kg (lb)

| No. o | f Cts | ED | | El | HD. |
|-------|-------|--------------|--------------|--------------|--------------|
| ED | EHD | Mate (max) | Unmate (min) | Mate (max) | Unmate (min) |
| 9 | 15 | 3.05 (6.74) | 0.36 (0.79) | 3.81 (8.42) | 0.52 (1.14) |
| 15 | 26 | 5.09 (11.24) | 0.46 (1.01) | 5.95 (13.16) | 1.05 (2.32) |
| 25 | 44 | 8.44 (18.66) | 0.81 (1.80) | 9.26 (20.46) | 1.37 (3.02) |

 $\begin{array}{ccc} \textbf{Mating cycles} & & \text{Gold flash} & : 100 \text{ cycles} \\ & & 0.76 \mu\text{m} \ (30 \mu^{"}) & : 500 \text{ cycles} \end{array}$

suita

The 17ED and 17EHD series are suitable for waterproof applications.

The machined contacts provide robustness and reliability.

This series offers:

- Panel mount connectors with solder cup, straight and right angle PCB terminations.

Connectors are waterproof unmated.

Harsh environment connectors

• Marine electronic devices

Industrial electricalSecurity Monitoring

Robotics

Lighting systems

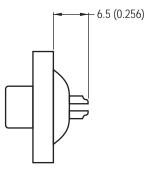
ED-EHD

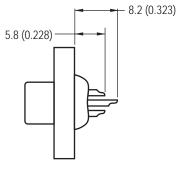




remination

Solder cup (blank):

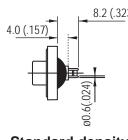


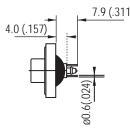


Standard density

High density

Straight PCB with standoff and boardlocks:

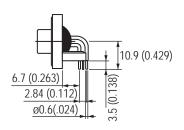


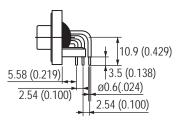


Standard density

High density

Right angle PCB with brackets and boardlocks:

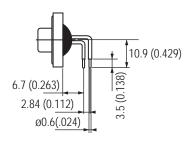


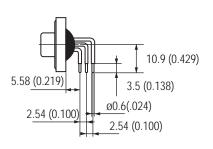


Standard density

High density

Right angle PCB without brackets and boardlocks:



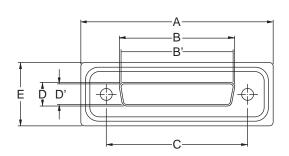


Standard density

High density

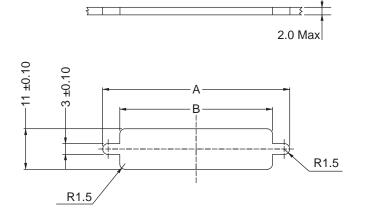
ED-EHD

Shell Size Difficusions



| SHELL | Contact | Α | В | B' | С | D | D' | Е | F | F' |
|-------|---------------------|------------------|---------------------|------------------------|------------------|----------------------|------------------------|------------------|----------------------------|------------------|
| SIZE | P: pin S: socket | ±0.25 (±.010) | 0 / -0.20 (0/008 | +0.20 / 0 (+.008/0) | ±0.10 (±.004) | 0 / -0.25 (0/010) | +0.25 / 0 (+.010/0) | ±0.25 (±.010) | +0.10/-0.20 (+.004/008) | ±0.10 (±.004) |
| _ | Р | 39.4 | | 16.8(0.661) | 25.0 | | 8.2(0.325) | 21.0 | | 5.9(0.232) |
| E | S | (1.551) | 16.4(0.646) | | (0.984) | 8.0(0.315) | | (0.827) | 6.2(0.244) | |
| | Р | 47.7 | | 25.1(0.988) | 33.3 | | 8.2(0.325) | 21.0 | | 5.9(0.232) |
| Α | S | (1.878) | 24.8(0.976) | | (1.311) | 8.0(0.315) | | (0.827) | 6.2(0.244) | |
| 0 | Р | 64.5 | | 28.8(1.528) | 47.0 | | 8.2(0.325) | 21.0 | | 5.9(0.232) |
| В | S | (2.539) | 38.5(1.513) | | (1.850) | 8.0(0.315) | | (0.827) | 6.2(0.244) | |

Panel cutouts

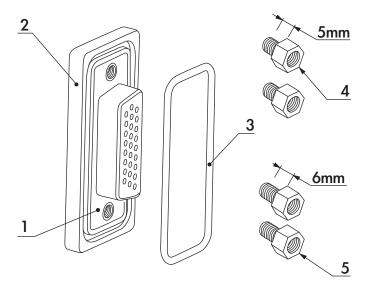


PANEL THICKNESS

| SHELL | Α | В |
|-------|--------------|-------------------|
| SIZE | ±0.10(±.004) | 0 / -0.10(0 /004) |
| E | 28.8 (1.111) | 20.0 (0.788) |
| Α | 36.5 (1.438) | 28.0 (1.103) |
| В | 51.0 (2.009) | 41.5 (1.635) |

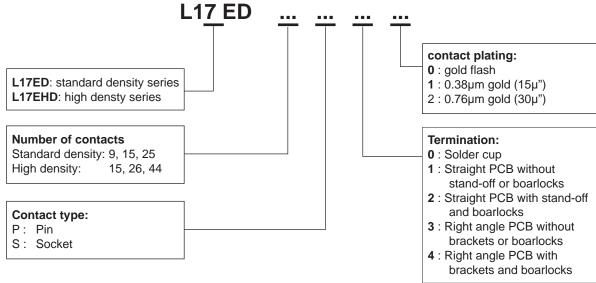
Ampheno





| NO | Description | Material | Qty |
|----|------------------------|------------------------------|-----|
| 2 | Housing | Black thermoplastic UL 94-VO | 1 |
| 1 | Front shell | Steel tin plated | 1 |
| 3 | Ring | Silicone | 1 |
| 4 | #4-40 Front screw lock | Brass tin plated | 2 |
| 5 | #4-40 Front screw lock | Brass tin plated | 2 |

How to order



For special request, please consult factory



Amphenol

Amphenol IT & Communication Products

Block A3/A4, The 4th Industrial District of Industrial Headquarters, Dong Keng Road Gong Ming Town, Shen Zhen China Fax:+86(0)755 2754 9955

Technical Support
Tel:+86(0)755 2717 7945
Info-dsub@amphenol.com.cn
http://www.dsubconnector.com

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| ## PLD/E /Binformation given in this document are as a guideline only. We | | | | |



Hybrid D'Sub series



Specifications

Stand-off

• Connectors according to: MIL C24308 - NFC93425 - HE507

| M | aterials and platings | Electrical D | ata |
|---|---|--|---|
| Shells | · • | | diu |
| Insulators | Steel-Tin plating High temperature black thermoplastic | Current rating Signal contacts | 7.5 A. with 10 A. peak |
| Signal contacts Material Plating finish Or | Female: machined bronze Male: machined brass 16µ "Au over 79µ" Ni min. 30µ" Au over 79µ" Ni min. | Power contacts PCB terminations Solder cup terminations Crimp terminations Shielded contacts | 10 to 40 A 10 to 40 A 10 to 40 A 0.5 A |
| Shielded contacts Material Plating Inner conductor | Male: machined brass 16μ "Au or 30μm Au over 79μ" Ni | Voltage rating Signal and power contacts Shielded contacts Shielded contacts | 300 V.R.M.S. at 50 H 150 V.R.M.S. at 50 H |
| Outer ring Terminations Except solder cu Power contacts | 10μ "Au over 79μ" Ni Tinned up and crimp terminations gold flash Female: machined bronze | Frequency range Attenuation V. S. W. R. | 0-1 GH 0.2dl 1.4(+0.04/GHz |
| Material | Male: machined brass | Characteristic impedance Dielectric withstanding | 50 Ohm |
| Plating Contacts Terminations Except solder cu | 16µ "Au or 30µ" Au over 79µ" Ni Tinned up and crimp terminations gold flash | 3 | ≥ 1000 V.R.M.S. at 50H 000 M Ohms at 500 VD0 ≤ 5m Ohm |
| Brackets Front jackscrews | Steel-Tin plating Brass-Tin plating | Shell resistance (electrical grounding) | ≤1m Ohr |
| Rear clinch nuts Boardlocks | Brass-Tin plating Bronze-Tin plating | | |

Brass-Tin plating

Shells

| Climati | c Data |
|-------------------------|---|
| Operating temperature | -55°C + 155°C (with peaks up to 180°C) |
| Damp heat Salt spray | 56 days (40°C - 95% HR) 48 hours |



| Contact retention force in dielectric material > 40N | | | | |
|--|-------------------|------------------------------------|--|--|
| Maximum mating | and unmating fo | rce | | |
| With dimples | | E size = 70 N | | |
| | | A size = 80 N | | |
| | | B size = 100 N | | |
| | | C size = 150 N | | |
| | | D size = 180 N | | |
| Without dimples | | E size = 30 N | | |
| | | A size = 50 N | | |
| | | B size = 80 N | | |
| | | C size = 120 N | | |
| | | D size = 160 N | | |
| Compatible with | process | | | |
| IR - Air convection | ned | 260° for 20 s . | | |
| Resistance to so | lder iron heat | 260°C for 30 s. | | |
| Mating cycles | ≥ 200 (classe l | l) or 500 (classe I) | | |
| Blind mating sys | tem Avail | able upon request | | |
| Polarization | Available with lo | cking accessories | | |

Mechanical data

With or without dimples

Consult factory

Amphenol D'Sub TW Hybrid Series permits a mix of contacts including signal, power, shielded, high voltage and fiber optics in the same housing with 18 different contacts arrangements.

This economic series was fist developed from our military series, and has improved features:

- new contacts
- new high temperature black thermoplastic insert
- PCB configurations come preloaded with fixed contacts and brackets.

These connectors are supplied with screw machined contacts which are fixed in the insulator.

Acomplete range of housings are also available for cable application.

A full range of arrangements compatible with reflow process

- Commercial
- Medical
- Industrial
- Telecom
- Any application requiring optimization of space







Shell and contacts plating

CLASS II
0.4µm (16µ") Au contacts gold plating
200 mating cycles

| Types | Shells and plating |
|--------|--|
| 77 TW | Tin plated shell *Male and female |
| 717 TW | Tin plated shell with dimples Male only |

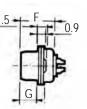
CLASS I 0.76μm (30μ") Au contacts gold plating 500 mating cycles

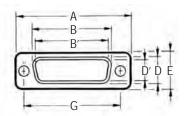
| Types | Shells and plating |
|--------|---|
| 177 TW | Tin plated shell *Male and female |
| 777 TW | Tin plated shell with dimples Male only |

Housing arrangements

Male front view

| Arrangement | 5W1 | 7W2 | 11W1 |
|------------------------|------|-----------|-----------|
| Shell size | E | A | A |
| Arrangement | 3W3 | 5W5 | 9W4 |
| Shell size | A | B | B |
| Arrangement Shell size | 13W3 | 17W2 | 21W1 |
| | B | B | B |
| Arrangement Shell size | 27W2 | 13W6 C | 17W5 C |
| Arrangement Shell size | 21W4 | 8W8 C | 25W3 |
| Arrangement | 24W7 | 36W4 | 43W2 |
| Shell size | D | D | |

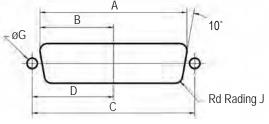


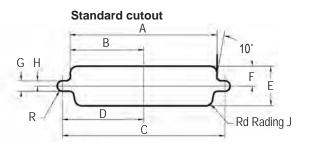


| Shell size | Contact P: Pin S: Socket | A ±0.25 (±.010) | B 0/-0.20 (0/008) | B' +0.20/0 (+.008/0) | C ±0.10 (±.004) | D 0/-0.25 (0/010) | D' +0.25/0 (+.010/0) | E ±0.20 (±.008) | F +0.05/-0.20 (+.002/008) | F' +0.10/-0.20 (+.004/008) | +0.10/-0.20 (+.004/008) | G' ±0.10 (±.004) | +0.10/-0.40 (+.004/016) | 0/-0.50 (0/020) |
|---------------|--------------------------------|-----------------------|-------------------------|----------------------------|-----------------------|-------------------------|----------------------------|-----------------------|---------------------------------|----------------------------------|----------------------------|------------------------|----------------------------|--------------------|
| Е | Р | 30.7 | | 16.8 (.661") | 25.0 | | 8.2 (.323") | 12.4 | | 10.9 (.429") | | 5.9 (.232") | 19.4 | 11.0 |
| | S | (1.209") | 16.4 (.646") | | (.984") | 8.0 (.315") | | (.488") | 11.1 (.437) | | 6.2 (.244") | | (.764") | (.433") |
| _ | Р | 39.0 | | 25.1 (.988") | 33.3 | | 8.2 (.323") | 12.4 | | 10.9 (.429") | | 5.9 (.232") | 27.7 | 11.0 |
| Α | S | (1.535") | 24.8 (.976") | | (1.311") | 8.0 (.315") | | (.488") | 11.1 (.437) | | 6.2 (.244") | | (1.091") | (.433") |
| | Р | 52.9 | | 38.8 (1.528") | 47.0 | | 8.2 (.323") | 12.4 | | 11.0 (.433") | | 5.8 (.228") | 41.4 | 11.0 |
| В | S | (2.083") | 38.5 (1.513") | | (1.850") | 8.0 (.315") | | (.488") | (.437) | | 6.2 (.244") | | (1.630") | (.433") |
| | Р | 69.2 | | 55.3 (2.177") | 63.5 | | 8.2 (.323") | 12.4 | | 11.0 (.433") | | 5.8 (.228") | 57.9 | 11.0 |
| С | S | (2.724") | 54.9 (2.161") | | (2.500") | 8.0 (.315") | | (.488") | 11.1 (.437) | | 6.2 (.244") | | (2.280") | (.433") |
| | Р | 66.8 | | 52.7 (2.075") | 61.1 | | 11.0 (.433") | 15.2 | | 11.0 (.433") | · | 5.8 (.228") | 55.5 | 13.8 |
| D | S | (2.630") | 52.5 (2.067") | | (2.406") | 10.9 (.429") | | (.598") | 11.1 (.437) | | 6.2 (.244") | | (2.185") | (.543") |

Panel cutouts

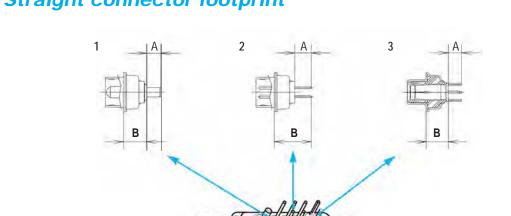






| Shell size | Mounting method | A ±0.20 (±.008) | B ±0.20 (±.008) | C ±0.20 (±.008) | D ±0.20 (±.008) | E ±0.20 (±.008) | F ±0.20 (±.008) | G ±0.20 (±.008) | H ±0.20 (±.008) | ±0.20 (±.008) |
|---------------|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------|
| _ | Front | 22.2 (.874") | 11.1 (.437") | 25.0 | 12.5 | 13.0 (.512") | 6.5 (.256") | 3.0 | 1.5 | 2.1 (.083") |
| E | Rear | 20.5 (.807") | 10.2 (.402") | (.984") | (.492") | 11.4 (.449") | 5.7 (.224") | (.118") | (.059") | 3.4 (.0134") |
| Δ. | Front | 30.5 (1.201") | 15.3 (.602") | 33.3 | 16.7 | 13.0 (.512") | 6.5 (.256") | 3.0 | 1.5 | 2.1 (.083") |
| A | Rear | 28.8 (1.134") | 14.4 (.567") | (1.311") | (.657") | 11.4 (.449") | 5.7 (.224") | (.118") | (.059") | 3.4 (.0134") |
| | Front | 44.3 (1.744") | 22.1 (.870") | 47.0 | 23.5 | 13.0 (.512") | 6.5 (.256") | 3.0 | 1.5 | 2.1 (.083") |
| В | Rear | 42.5 (1.673") | 21.3 (.839") | (1.850") | (.925") | 11.4 (.449") | 5.7 (.224") | (.118") | (.059") | 3.4 (.0134") |
| 0 | Front | 60.7 (2.390") | 30.4 (1.197") | 63.5 | 31.7 | 13.0 (.512") | 6.5 (.256") | 3.0 | 1.5 | 2.1 (.083") |
| С | Rear | 59.1 (2.327") | 29.5 (1.161") | (2.500") | (1.248") | 11.4 (.449") | 5.7 (.224") | (.118") | (.059") | 3.4 (.0134") |
| | Front | 58.3 (2.295") | 29.2 (1.150") | 61.1 | 30.6 | 15.8 (.622") | 7.9 (.311") | 3.0 | 1.5 | 2.1 (.083") |
| D | Rear | 56.3 (2.217") | 28.2 (1.110") | (2.406") | (1.205") | 14.1 (.555") | 7.1 (.280") | (.118") | (.059") | 3.4 (.0134") |





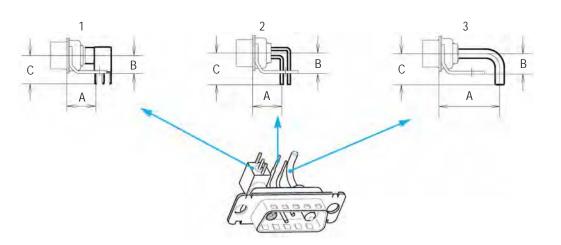
Signal tail 0.6 mm Dia. (.0236") 1.6 mm (.063")PCB For other PCB thickness: consult factory.

| Description | | Dimensions | | | |
|--------------------------|---|--------------------|---------------------|--|--|
| Description | | а | b | | |
| Power (.126" tail dia.) | 1 | 4.80 mm (.198") | 7.2 mm (.283") | | |
| Power (.0787" tail dia.) | 1 | 4.80 mm (.198") | 7.2 mm (.283") | | |
| Shielded | 3 | 4.00 mm (.157") | 7.2 mm (.283") | | |
| Signal | 2 | 5.00 mm (.196") | 11.50 mm (.453") | | |

Straight contact combinations

| Arrangement v | vith signal contacts | Arrangement without signal contacts 3W3 - 5W5 - 8W8 | | | | |
|----------------------|---|--|---|--|--|--|
| See above dimensions | Size 8 and 20 Contacts | See above dimensions | Size 8 Contacts | | | |
| + | | — | · | | | |
| P 3SY | Power 3.2 mm DIA. (.126") (20 to 40 A) and signal | P 3Y | Power only 3.2 mm DIA. (.126") (20 to 40 A) | | | |
| P 2SY | Power 2 mm DIA. (.0787") (10 to 20 A) and signal | | Power only | | | |
| | (10 to 2011) and original | P 2Y | 2 mm DIA. (.0787") | | | |
| CSY | Shielded and signal | | (10 to 20 A) | | | |
| SY | Signal only | СУ | Shielded only | | | |
| No reference | Signal (Size 20) with solder cup terminations Housing preloaded with contacts | | | | | |

Right angle connector rootprint



| Signal tail 0.6 mm Dia. (.0236") 1.6 mm (.063") PCB | | | Europe |) | | Mix | | | MIL | | |
|--|---|---|-------------------|--------------------|---|-------------------|--------------------|--|-------------------|--------------------|--|
| For other PCB thickness: consult factory. | | HE 5 pattern = - Europ. height - Europ. footprint pitch between 2 rows: .100" | | | Mixed pattern = - MIL height - Europ. footprint pitch between 2 rows: .100" | | | MIL pattern = - MIL height - MIL footprint pitch between 2 rows: .112" | | | |
| Description | | a | b | С | а | b | С | a | b | С | |
| Shielded | 1 | - | - | - | 10.30mm (.406") | 6.30mm (.248") | 10.00mm (.394") | 10.30mm (.406") | 6.30mm (.248") | 10.00mm (.394") | |
| Signal | 2 | 10.30mm (.406") | 7.20mm (.283") | 11.20mm (.441") | 10.30mm (.406") | 6.30mm (.248") | 9.50mm (.374") | 8.10mm (.319") | 6.30mm (.248") | 9.50mm (.374") | |
| Power (.0787" tail dia.) | 3 | 11.57mm (.456") | 7.20mm (.283") | 10.50mm (.413") | 11.57mm (.456") | 6.30mm (.248") | 9.50mm (.374") | 9.52mm (.375") | 6.30mm (.248") | 9.50mm (.374") | |
| Power (.126" tail dia.) | 3 | 21.46mm (.845") | 7.20mm (.283") | 10.50mm (.413") | 21.46mm (.845") | 6.30mm (.248") | 9.50mm (.374") | 21.46mm (.845") | 6.30mm (.248") | 9.50mm (.374") | |

Note: above dimensions correpond to sizes E to C. Consult factory for D sizes. Connector comes equiped with contacts and brackets.

Right angle contacts combinations

Arrangement with signal contacts

Arrangement without signal contacts 3W3 - 5W5 - 8W8

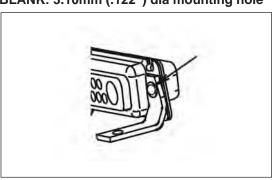
| European footprint | Mixed footprint | MIL (U.S.) footprint | Size 8 and 20 Contacts | European footprint | Mixed footprint | MIL (U.S.) footprint | Size 8 contacts only |
|--------------------|--------------------|-------------------------|---|--------------------|--------------------|-------------------------|--|
| Ţ | Ţ | 1 | | 1 | ↓ | \ | |
| EP3SV | HP3SV | MP3SV | Power 3.2 mm DIA. (.126") (20 to 40 A) and signal | EP3V | HP3V | MP3V | Power only 3.2 mm DIA. (.126") (20 to 40 A) |
| EP2SV | HP2SV | MP2SV | Power 2 mm DIA. (.0787") (10 to 20 A) and signal | EP2V | HP2V | MP2V | Power only 2.0 mm DIA. (.0787") (10 to 20 A) |
| - | HCSV | MCSV | Shielded and signal | - | HCV | MCV | Shielded only |
| ESV | HSV | MSV | Signal only | • | | | |



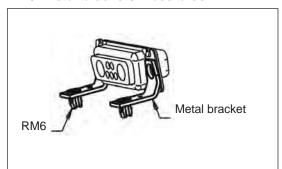
woulding options

Right angle version
Connectors come equiped with metal brackets

BLANK: 3.10mm (.122") dia mounting hole

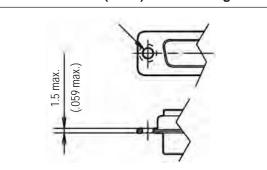


RM6: metal brackets + boardlock

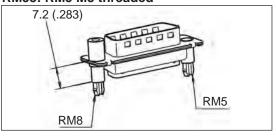


Straight version

BLANK: 3.10mm (.122") dia mounting hole

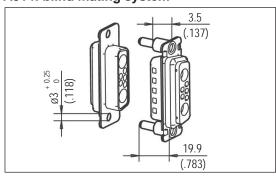


RM54: RM5 4.40 threaded RM53: RM5 M3 threaded

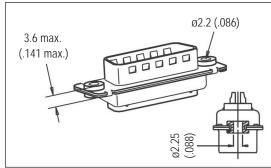


RM84: RM8 4.40 threaded RM83: RM8 M3 threaded

A514: blind mating system

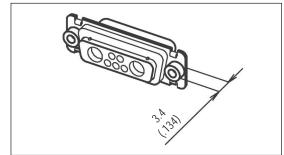


FM: float mounting system

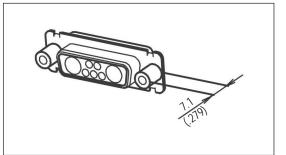


Straight and right angle version

4R: 4.40 rear nut 3R: M3 rear nut

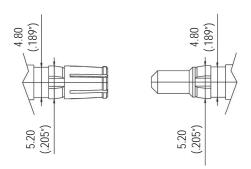


4F: 4.40 front female screwlock 3F: M3 front female screwlock

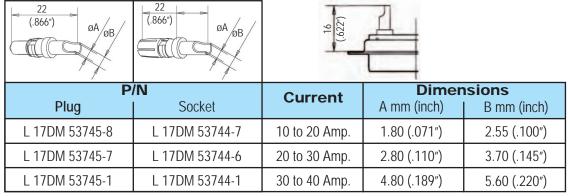


Ambuenoi

nigii powei contac

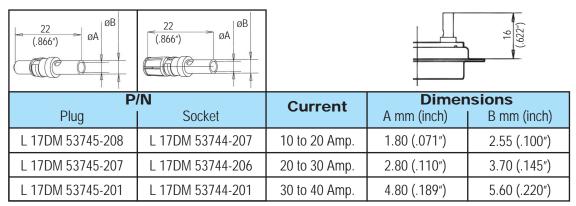


Solder cup version

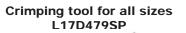


Trim dimensions: 7.5 mm (.295")

Crimp version



Trim dimensions: 7.5 mm (.295")





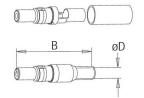
Extraction tool for sizes 8 cts

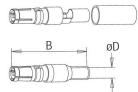


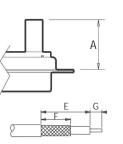


Straight Shielded Contacts

Crimp ferrule and inner solder

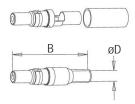


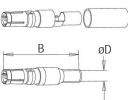


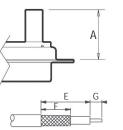


| Туре | P/N | Dimensions (inch) | | | Cable - RG | Trim di | mensions | (inch) |
|--------|---------------|-------------------|--------------|-------------|-----------------|-------------|-------------|-----------|
| | | A Max | В | D | | Е | F | G |
| plug | L17DM 53740 | 18.8 (740") | 23.6 (.929") | 1.0 (.039") | 178 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| plug | L17DM 53740-1 | 18.8 (740") | 23.6 (.929") | 1.7 (.066") | 179 B/U 316 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| plug | L17DM 53740-3 | 21.5 (846") | 23.6 (.929") | 2.8 (.110") | 180 B/U | 9.5 (.374") | 7.9 (.311") | 2 (.078") |
| plug | L17DM 53740-5 | 21.5 (846") | 23.6 (.929") | 3.2 (.126") | 58 C/U | 9.5 (.374") | 7.9 (.311") | 2 (.078") |
| socket | L17DM 53742 | 18.8 (740") | 23.6 (.929") | 1.0 (.039") | 178 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| socket | L17DM 53742-1 | 18.8 (740") | 23.6 (.929") | 1.7 (.066") | 179 B/U 316 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| socket | L17DM 53742-3 | 21.5 (846") | 23.6 (.929") | 2.8 (.110") | 180 B/U | 9.5 (.374") | 7.9 (.311") | 2 (.078") |
| socket | L17DM 53742-5 | 21.5 (846") | 23.6 (.929") | 3.2 (.126") | 58 C/U | 9.5 (.374") | 7.9 (.311") | 2 (.078") |

Ferrule and inner solder





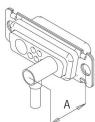


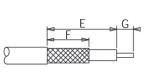
| Type | P/N | Dimensions (inch) | | | Cable - RG | Trim dir | nensions | (inch) |
|--------------|-------------------|-------------------|---------------|-------------|-----------------|-------------|-------------|-----------|
| | | A Max | В | D | | Е | F | G |
| short plug | L17DM 53740-5000 | 17.0 (669") | 21.8 (.858") | 1.0 (.039") | 178 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| plug | L17DM 53740-5001 | 18.8 (740") | 23.6 (.929") | 1.7 (.066") | 179 B/U 316 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| plug | L17DM 53740-5002 | 21.5 (846") | 26.3 (1.035") | 2.8 (.110") | 180 B/U | 9.5 (.374") | 7.9 (.311") | 2 (.078") |
| plug | L17DM 53740-5005 | 21.5 (846") | 26.3 (1.035") | 3.2 (.126") | 58 C/U | 9.5 (.374") | 7.9 (.311") | 2 (.078") |
| plug | L17DM 53740-5008 | 18.8 (740") | 23.6 (.929") | 1.0 (.039") | 178 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| short socket | L17DM 53742-5000 | 17.0 (669") | 21.8 (.858") | 1.0 (.039") | 178 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| socket | L17DM 53742-5001 | 18.8 (740") | 23.6 (.929") | 1.7 (.066") | 179 B/U 316 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |
| socket | L17DM 53742-5002 | 21.5 (846") | 26.3 (1.035") | 2.8 (.110") | 180 B/U | 9.5 (.374") | 7.9 (.311") | 2 (.078") |
| socket | L17DM 53742-5004 | 21.5 (846") | 26.3 (1.035") | 3.2 (.126") | 58 C/U | 9.5 (.374") | 7.9 (.311") | 2 (.078") |
| socket | L17DM 53742-50060 | 18.8 (740") | 23.6 (.929") | 1.0 (.039") | 178 B/U | 7.9 (.311") | 6.3 (.248") | 2 (.078") |

Amphenol _∞

Right angled Shielded Contact

Crimp ferrule and inner solder



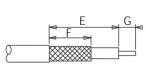


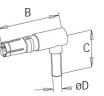


| Туре | P/N | Dim | ensions (i | nch) | Cable - RG | Trim di | mensions | (inch) |
|--------|---------------|--------------|--------------|-------------|-----------------|--------------|-------------|-------------|
| | | A Max | В | D | | Е | F | G |
| plug | L17DM 53741 | 13.5 (.531") | 18.6 (.732") | 1.0 (.039") | 178 B/U | 9.5 (.374") | 5.9 (.232") | 1.6 (.062") |
| plug | L17DM 53741-1 | 13.5 (.531") | 18.6 (.732") | 1.7 (.066") | 179 B/U 316 B/U | 9.5 (.374") | 5.9 (.232") | 1.6 (.062") |
| plug | L17DM 53741-3 | 13.5 (.531") | 18.6 (.732") | 2.8 (.110") | 180 B/U | 10.7 (.421") | 7.9 (.311") | 2.4 (.094") |
| plug | L17DM 53741-4 | 13.5 (.531") | 18.6 (.732") | 3.2 (.126") | 58 C/U | 10.7 (.421") | 7.9 (.311") | 2.4 (.094") |
| socket | L17DM 53743-2 | 13.5 (.531") | 18.6 (.732") | 1.0 (.039") | 178 B/U | 9.5 (.374") | 5.9 (.232") | 1.6 (.062") |
| socket | L17DM 53743-3 | 13.5 (.531") | 18.6 (.732") | 1.7 (.066") | 179 B/U 316 B/U | 9.5 (.374") | 5.9 (.232") | 1.6 (.062") |
| socket | L17DM 53743-5 | 13.5 (.531") | 18.6 (.732") | 2.8 (.110") | 180 B/U | 10.7 (.421") | 7.9 (.311") | 2.4 (.094") |
| socket | L17DM 53743-6 | 13.5 (.531") | 18.6 (.732") | 3.2 (.126") | 58 C/U | 10.7 (.421") | 7.9 (.311") | 2.4 (.094") |

Ferrule and inner solder







| Type | P/N | Dimensions (inch) | | | Trim d | limension | s (inch) | |
|--------|------------------|-------------------|--------------|-------------|-----------------|--------------|-------------|-------------|
| | | A Max | В | D | Cable - RG | Е | F | G |
| plug | L17DM 53741-5000 | 13.5 (.531") | 18.6 (.732") | 1.0 (.039") | 178 B/U | 9.5 (.374") | 5.9 (.232") | 1.6 (.062") |
| plug | L17DM 53741-5001 | 13.5 (.531") | 18.6 (.732") | 1.7 (.066") | 179 B/U 316 B/U | 9.5 (.374") | 5.9 (.232") | 1.6 (.062") |
| plug | L17DM 53741-5003 | 13.5 (.531") | 18.6 (.732") | 2.8 (.110") | 180 B/U | 10.7 (.421") | 7.9 (.311") | 2.4 (.094") |
| plug | L17DM 53741-5004 | 13.5 (.531") | 18.6 (.732") | 3.2 (.126") | 58 C/U | 10.7 (.421") | 7.9 (.311") | 2.4 (.094") |
| socket | L17DM 53743-5000 | 13.5 (.531") | 18.6 (.732") | 1.0 (.039") | 178 B/U | 9.5 (.374") | 5.9 (.232") | 1.6 (.062") |
| socket | L17DM 53743-5001 | 13.5 (.531") | 18.6 (.732") | 1.7 (.066") | 179 B/U 316 B/U | 9.5 (.374") | 5.9 (.232") | 1.6 (.062") |
| socket | L17DM 53743-5003 | 13.5 (.531") | 18.6 (.732") | 2.8 (.110") | 180 B/U | 10.7 (.421") | 7.9 (.311") | 2.4 (.094") |
| socket | L17DM 53743-5004 | 13.5 (.531") | 18.6 (.732") | 3.2 (.126") | 58 C/U | 10.7 (.421") | 7.9 (.311") | 2.4 (.094") |

Crimping tool

Hand crimp tool

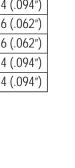
227-0944 (without dies) (M 22 520/5-01)

| RG cables | MIL reference Amphenol P/N dim. between | | 2 flat surface | |
|------------|---|-------------|----------------|----------|
| | | | cavity A | cavity B |
| RG 58 C/U | M 22 520/5-05 | 227 1221-05 | 5.41 | - |
| RG 178 B/U | M 22 520/5-03 | 227 1221-03 | - | 2.67 |
| RG 179 B/U | M 22 520/5-03 | 227 1221-03 | 3.25 | - |
| RG 180 B/U | M 22 520/5-05 | 227 1221-05 | - | 4.52 |

Extraction tool

Extraction tool for sizes 8 cts L17D429SP



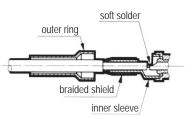


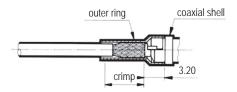


Cability instructions for silienced contacts

Straight crimp shielded contacts:

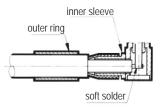
inner solder contact outer crimp contact

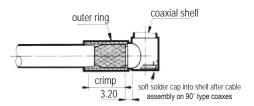




Right angle crimp shielded contacts:

inner solder contact outer crimp contact

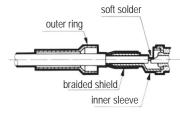


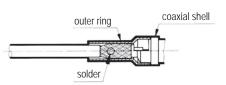


Assembly method

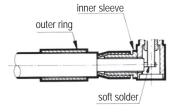
- Slide the outer ring over the cable jacket. Trim the cable according to the recommended dimensions.
- Insert the cable dielectric and the center conductor inside the inner sleeve.
- Solder the central conductor to the shielded center contacts.
- Slide the outer ring towards the inner sleeve ans recover
- Using crimp hand tool equipped with the appropriate dies, crimp in the area defined.

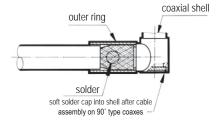
Solder straight shielded contacts:





Solder right angle shielded contacts:





Assembly method

- Slide the outer ring over the cable jacket. Trim the cable according to the recommended dimensions.
- Insert the cable dielectric and the center conductor inside Solder by introducing metal through the outer ring hole. the inner sleeve.
- Solder the central conductor to the shielded center contacts.
- Slide the outer ring towards the inner sleeve ans recover

| Contacts and Shell | | | | |
|--------------------|--------|-----------------------------|--|--|
| Contact Plating | Shell | | | |
| | Tinned | Tinned & Indents; Plug only | | |
| 0.4μm(16μ″) Au | 77 | 717 | | |
| 0.76µm(30µ") Au | 177 | 777 | | |

Shell size and Configuration:

E5W1, A3W3, A7W2, A11W1, B5W5, B9W4, B13W3, B17W2, B21W1, C8W8, C13W6, C17W5, C21WA4 C25W3, C27W2, D24W7, D36W4, D43W2

Gender:

P: Pin

S: Socket

Contacts:

For straight

BLANK: Solder-cup signal contacts only P3SY: 20-40 Amp power & signal mix P2SY: 10-20 Amp power & signal mix

CSY: Coax & signal mix SY: Signal only

P3Y: 20-40 Amp power only (3W3, 5W5, 8W8)

P2Y: 10-20 Amp power only (3W3, 5W5, 8W8)

CY: Coax only (3W3, 5W5, 8W8)

For right angle

MP3SV: US Footprint, 20-40 Amp power & signal mix MP2SV: US Footprint, 10-20 Amp power & signal mix

MCSV: US Footprint, Coax & signal mix

MSV: US Footprint, Signal only

MP3V: US Footprint, 20-40 Amp power only (3W3, 5W5, 8W8) MP2V: US Footprint, 10-20 Amp power only (3W3, 5W5, 8W8)

MCV: US Footprint, Coax only (3W3, 5W5, 8W8)

EP3SV: European Footprint, 20-40 Amp power & signal mix EP2SV: European Footprint, 10-20 Amp power & signal mix

ESV: European Footprint, Signal only

EP3V: European Footprint, 20-40 Amp power only (3W3, 5W5, 8W8) EP2V: European Footprint, 10-20 Amp power only (3W3, 5W5, 8W8)

HP3SV: Mixed Footprint, 20-40 Amp power & signal mix HP2SV: Mixed Footprint, 10-20 Amp power & signal mix

HCSV: Mixed Footprint, Coax & signal mix

HSV: Mixed Footprint, Signal only

HP3V: Mixed Footprint, 20-40 Amp power only (3W3, 5W5, 8W8) HP2V: Mixed Footprint, 10-20 Amp power only (3W3, 5W5, 8W8)

HCV: Mixed Footprint, Coax only (3W3, 5W5, 8W8)

Special Deviations

Please consult factory

Board Mounting Options

For Straight

Blank: .120"(3.05mm) Clear Hole RM53: M3 Threaded (panel side)

standoff with boarlock

RM54: 4-40UNC Threaded (panel side)

standoff with boardlock

RM84: Non-Removable M3 screwlock, with standoff and boardlock

For Right Angle

RM6: Metal bracket with boardlocks

Panel Mounting Options

For right angle & cable mount

Blank: .120"(3.05mm) Clear Hole

3F: M3 Front Screwlock

3R: M3 Rear Threaded Insert

4F: #4-40 Front Screwlock

4R: #4-40 Threaded Rear Insert

FM: Float mount system

A514: Blind Mate Guide Pin





D-Sub connectors - Stamped and Formed Contacts

SURFACE MOUNT CONNECTORS



Specifications

• Connectors according to MIL C24308 - NFC 93425-HE5

| | Materials and Platings |
|----------------|---|
| Shells | Steel with tin plating |
| Insulator | High temperature (peak at 260°C) glass-filled thermoplastic, UL 94V-0 |
| Socket contact | Stamped and formed brass, selected gold in mating area; 2.54 μ m (100 μ ") min. tin on termination area, with entire contact under-plated 1.27 μ m (50 μ ") min. nickel |
| Rear insert | Brass, $3\mu m$ up to $5\mu m$ (118μ " up to 197μ ") tinned over nickel $2\mu m$ up to $3\mu m$ (78μ " to 118μ ") |
| Boardlock | Tin plating $4\mu m$ up to $6\mu m$ (157μ " up to 236μ ") over nickel $2\mu m$ up to $3\mu m$ (78μ " up to 118μ "), insertion force: |
| | Low Insertion Force = LIF (bronze) |
| | Zero Insertion Force = ZeFo (bronze) |
| Screwlock | Brass, $6\mu m$ up to $10\mu m$ (236μ " up to 394μ ") tinned over nickel $2\mu m$ up to $3\mu m$ (78μ " up to 118μ ") |
| Grounding | Grounding strap: brass, 4µm up to 6µm tin plating over nickel 2µm up to 3µm (78µ" up to 118µ") |

| | Electrical Data |
|-----------------------|----------------------------------|
| Current rating | 3A |
| Voltage rating | 300V AC/rms 50Hz |
| Withstanding voltage | 1000V AC/rms 50Hz for one minute |
| Insulation resistance | 5000ΜΩ |
| Contact resistance | 10mΩ max |

| | Climatic Data |
|-----------------------|-------------------------|
| Operating temperature | 85°C, peak at 105°C |
| Damp heat | 56 days (40°C - 95% HR) |

| Mechanical Data | | | | |
|---------------------------------|----------------------|--|--|--|
| Single contact insertion force | 1.2N < F < 2.5N | | | |
| Single contact withdrawal force | 0.4N min | | | |
| LIF boardlock | 8N max per connector | | | |
| Coplanarity of contacts | 0.2mm (.008") max | | | |
| | , | | | |

Mating and unmating force Unit: N

| No. of Cts | Mate (max) | Unmate (min) |
|-------------|------------|--------------|
| 9 (size E) | 30 | 3.5 |
| 15 (size A) | 50 | 4.5 |
| 25 (size B) | 83 | 8.0 |

Amphenol SMT D-Sub is offered in right angle, receptacle with brackets, as an industry standard for I / O connections.

Boardlock features:

пишишишиши

- -LIF (Low Insertion Force) boardlock especially designed to be fully compatible with pick and place machine.
- -ZeFo (Zero Force Insertion) boardlock has been designed so that once placed and expanded, secures a safe locking.

Designed for Pick and Place SMT process

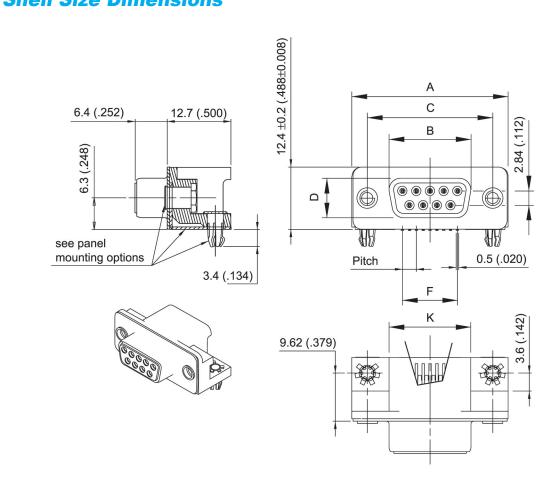
Industrial

- Telecom
- Any industry standard I / O connections

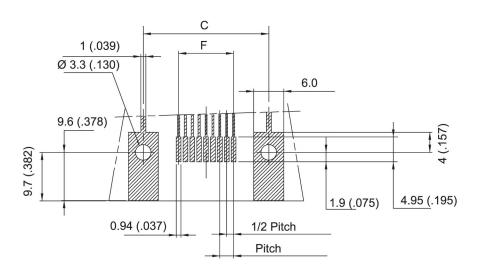
SM2 / E2







PCB LAYOUT

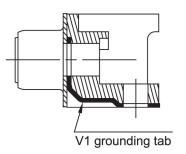


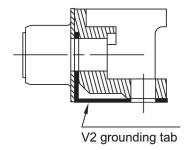
| SHELL mm (inch) | | | | | | | |
|-----------------|-----------------------------|------------------|--------------|------------------|--------------|---------------|--------------|
| SIZE | Α | В | С | D | PITCH | F | K |
| | +0.05 (.002) -0.1 (.004) | 0 -0.2 (.008) | ±0.1 (.004) | 0 -0.25 (.01) | | | |
| E | 31.15 (1.226) | 16.4 (.645) | 25 (.984) | 8.03 (.316) | 2.74 (.1078) | 10.97 (.432) | 16.3 (.642) |
| Α | 39.4 (1.551) | 24.8 (.976) | 33.3 (1.311) | 8.03 (.316) | 2.74 (.1078) | 19.2 (.756) | 24.6 (.968) |
| В | 53.3 (2.098) | 38.5 (1.515) | 47 (1.850) | 8.03 (.316) | 2.76 (.1086) | 33.12 (1.304) | 38.3 (1.508) |

Amphenol

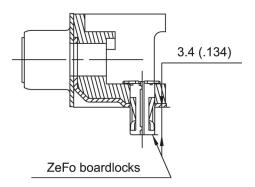
| 0,1 | |
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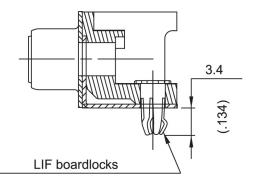
GROUNDING TABS:

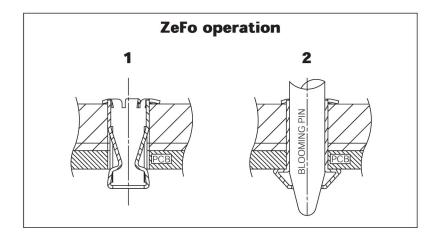




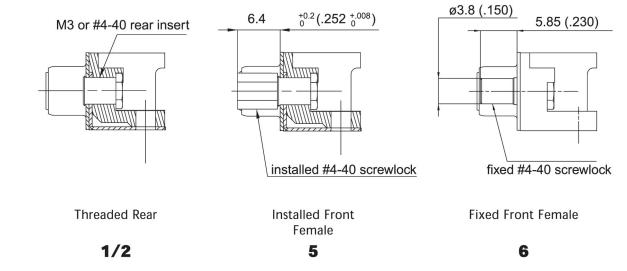
BOARDLOCKS:







FLANGES ACCESSORIES:

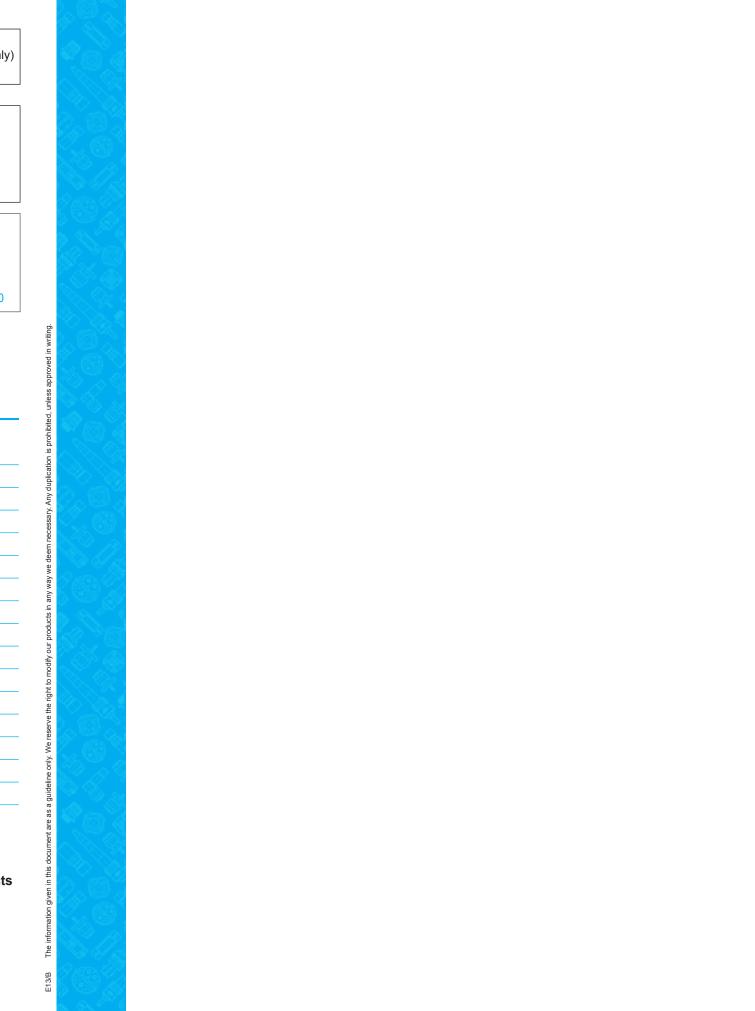


SM2 / E2

now to order L 17 SM2 ... S RoHS Compliant packaging: **R** = reel (100 / reel, 9 Pos only) configuration: 09 15 contact plating: 25 **1** = $0.2\mu m Au (7.9\mu")$ **2** = 0.4μm Au (15.7μ") $3 = 0.5 \mu \text{m Au} (19.7 \mu^{\circ})$ **4** = 0.8μm Au (31.5μ") board locks / grounding tab: $6 = 1.27 \mu m Au (50 \mu")$ **1** = V1 grounding tab +ZeFo boardlocks (PCB = 1.6) **4** = ZeFo boardlocks only mounting options: (PCB = 1.6)**1** = rear insert 4-40 **7** = V1 grounding tab only 2 = rear insert M3 **8** = no grounding tab and no **5** = installed front screwlock boardlocks B = V2 grounding tab + LIF boardlocks (PCB = 1.6) **6** = fixed front screwlock 4-40 : Standard options For special request, please consult factory Memo **Amphenol** Do not hesitate to contact us for further information **Amphenol IT & Communication Products** Block A3/A4, The 4th Industrial District of Industrial Headquarters, Dong Keng Road Gong Ming Town, Shen Zhen China

Fax:+86(0)755 2754 9955

Technical Support Tel:+86(0)755 2717 7945 Info-dsub@amphenol.com.cn http://www.dsubconnector.com



Stamped And Formed Contacts Solder-Cup And Straight PCB Termination

Standards: UL File: E149426

Connectors according to: MIL C24308 - NFC 93425-HE5

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells

Steel

Insulator Pin Contact Glass-filled thermoplastic, UL 94V-0 Brass, selected gold in mating area; 100µ" (2.54µm) min. tin-lead on

Socket Contact

termination area over 50µ" (1.27µm) min.nickel phosphor bronze, selected gold in mating area; 100µ" (2.54µ) min. tin-lead on termination area over 50µ" (1.27µm) min. nickel Brass, 100µ" (2.54µm) min. nickel plated

Rear Insert Boardlock Screwlock

Brass, 100µ" (2.54µm) min. nickel plated Brass, 100µ" (2.54µm) min. nickel plated

ELECTRICAL DATA

Current Rating
Voltage Rating
Withstanding Volta

Standard Density: 5A per contact 250V AC/ rms 50Hz

Withstanding Voltage Insulation Resistance Contact Resistance 1000V AC/ rms 50Hz for one minute

1000M Ω at 500V DC 20 m Ω max.

CLIMATIC DATA

Operating Temperature

-67°F (-55°C) to +257°F (125°C)

MECHANICAL DATA

Single Contact Insertion Force Single Contact Withdrawal Force 1.19 lb. (0.54 kg.) max. 0.13 lb. (0.06 kg.) min.

Mating and Unmating Force Unit: lb. (kg.)

| No. of Pos | SD | | | | |
|------------|---------------|---------------|--|--|--|
| SD | Mate (max.) | Unmate (min.) | | | |
| 9 | 3.05 (6.74) | 0.36 (0.79) | | | |
| 15 | 5.09 (11.24) | 0.46 (1.01) | | | |
| 25 | 8.44 (18.66) | 0.81 (1.8) | | | |
| 37 | 12.51 (27.65) | 1.1 (2.47) | | | |
| 50 | 14.65 (32.38) | 1.6 (3.56) | | | |

Standard plating thicknesses

- gold flash
- 15µ" (0.381µm) gold
- 30µ" (0.76 µm) gold

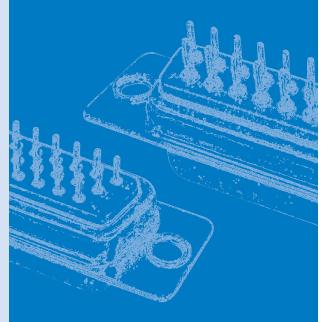




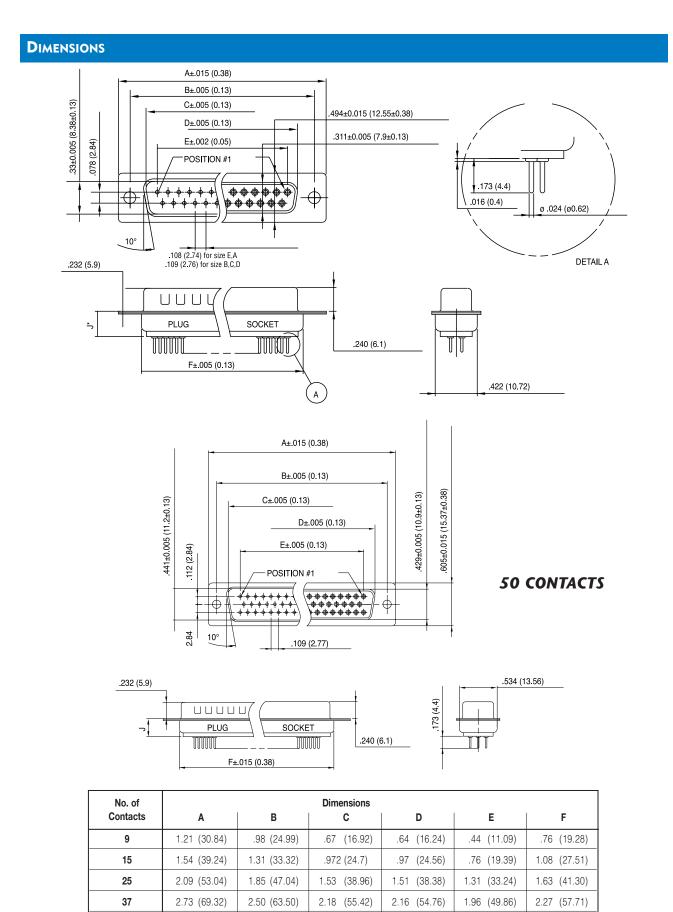
Amphenol's SD series, features precision stamped and formed contacts with closed entry contact cavities in insulator.

This series provides Amphenol's high standard of quality and reliability, to meet all of your commercial requirements.

- Industrial
- Telecom
- Any industry standardI / O connections



INCHES (MM)



2.08 (52.86)

2.06 (52.34)

50

2.64 (67.06)

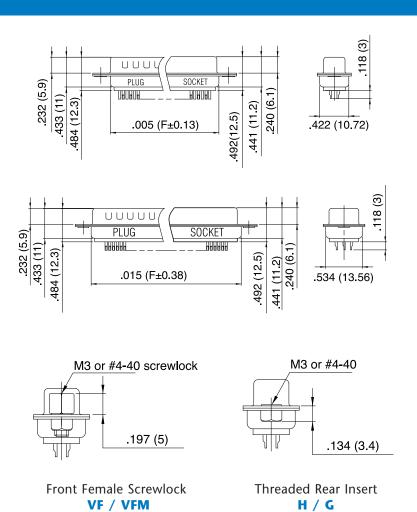
2.41 (61.11)

2.18 (55.3)

1.75 (44.32)

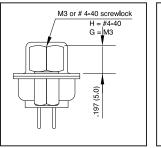
Stamped And Formed Contacts Solder-Cup And Straight PCB Termination **SD SERIES**

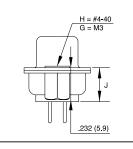
50 CONTACTS

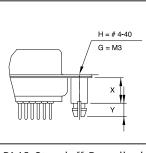


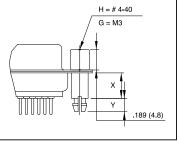
PANEL MOUNTING OPTION

PRINTED CIRCUIT BOARD TERMINATIONS









Front Female Screwlock

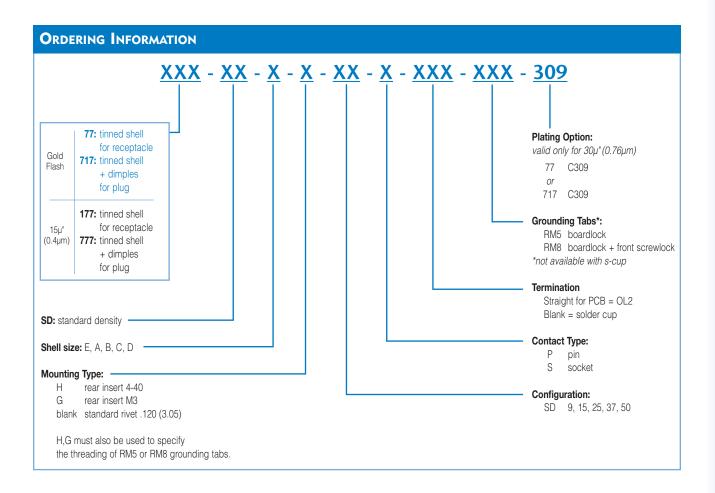
Threaded Rear Insert

RM5 Standoff Boardlock

RM8 Standoff Boardlock

| | RM5 RM8 | RM5G RM8G |
|---|------------|--------------|
| Χ | .236 (6.0) | .500 (12.7) |
| Υ | .126 (4.2) | .126 (3.2) |
| J | .244 (6.2) | .465 (11.8) |

INCHES (MM)



For Filtered D-Sub, see page 56.

Fixed Machined Contact Connector

Standards: • UL File: E119881

• Connectors according to MIL C24308

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells Steel yellow chromated over zinc or tinned steel with or without dimples on plug connector

Glass-filled thermoplastic, UL 94V-0 Brass, 118µ" up to 197µ" (3µm up to 5µm) tinned over nickel 78µ" up to 118µ" Insulator **Rear Insert**

(2μm up to 3μm)
Tin-lead plating 157μ" up to 236μ"
(4μm up to 6μm) over nickel **Boardlock**

78μ" up to 118μ" (2μm up to 3μm) Brass, 236μ" up to 394μ" Screwlock

(6μm up to 10μm) tinned over nickel 78μ" up to 118μ" (2μm up to 3μm)

D: brass Contacts

DF: pin = brass

Socket = copper alloy

Right Angle Version Selective gold in mating area over 78µ"

up to 118µ"

(2μm up to 3μm) nickel; 118μ" up to 197μ" (3μm up to 5μm) tin-lead on termination area over 78μ" up to 118μ" (2μm up to 3μm) nickel Full gold plating over 78μ" up to 118μ" (2μm up to 3μm) nickel

Straight Version

ELECTRICAL DATA

Current Rating 7.5 A

300 V AC/rms 50Hz **Voltage Rating**

1000V AC/rms 50Hz for one minute Withstanding Voltage

Insulation Resistance $5000 \mathrm{M}\Omega$

Contact Resistance D: $8.5 \text{m}\Omega$ max. DF: $5m\Omega$ max.

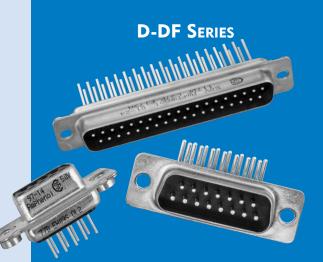
CLIMATIC DATA

Operating Temperature D: -67°F (-55°C) to +185°F (85°C),

peak at 257°F (125°C) DF: -67°F (-55°C) to + 257°F (125°C)

MECHANICAL DATA

| No. of Contacts | Mate (max.) | Unmate (min.) |
|-----------------|---------------|---------------|
| 9 (size E) | 6.74 (3.05) | 0.79 (0.36) |
| 15 (size A) | 11.24 (5.09) | 1.01 (0.46) |
| 25 (size B) | 18.66 (8.44) | 1.8 (0.81) |
| 37 (size C) | 27.65 (12.51) | 2.47 (1.1) |
| 50 (size D) | 32.38 (14.65) | 3.56 (1.6) |



The Amphenol SD series features precision formed contacts, and 4 finger boardlocks.

This series gives you Amphenol's high standards of quality and reliability to meet all of your commercial requirements.

- Industrial
- Telecom
- Any industry standard
 I / O connections

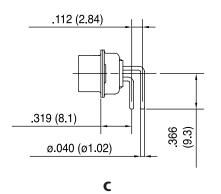
INCHES (MM)

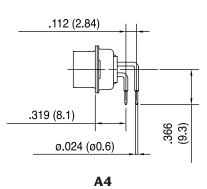
20

D-DF SERIES

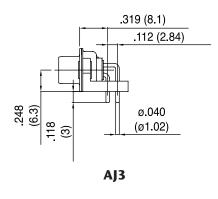
Fixed Machined Contact Connector

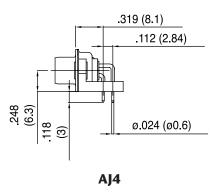
Without bracket



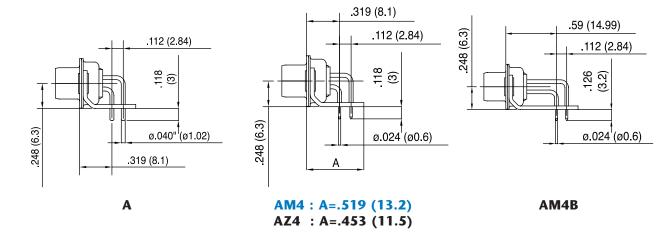


Plastic bracket

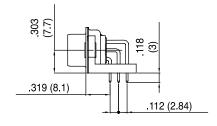




Metal bracket



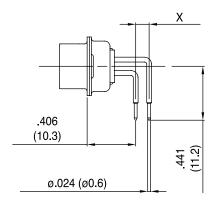
50 contacts





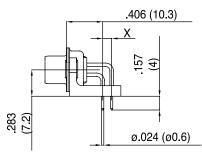
D-DF SERIES

Without bracket

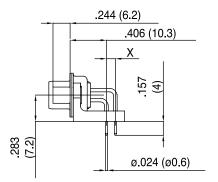


1AON: X= .100 (2.54) 1BON: X= .112 (2.84)

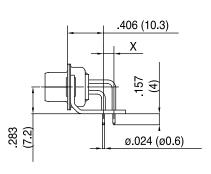
Plastic bracket



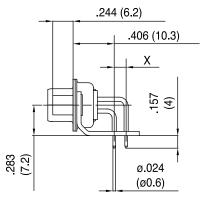
1APN: X= .100 (2.54) 1BPN: X= .112 (2.84)



1AUN: X= .100 (2.54) 1BUN: X= .112 (2.84)

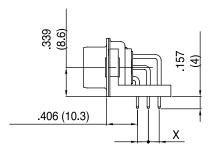


1AMN: X= .100 (2.54) 1BMN: X= .112 (2.84)



1ATN: X= .100 (2.54) 1BTN: X= .112 (2.84)

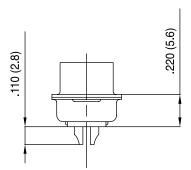
50 contacts



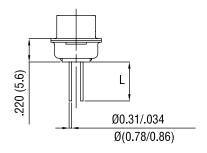
D-DF SERIES

Fixed Machined Contact Connector

Solder cup

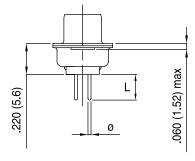


Wire Wrap



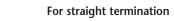
| Termination | Nb of wraps | L | | |
|-------------|-------------|------------|--|--|
| F179 | 2 | .378 (9.6) | | |
| F179A | 3 | .512 (13) | | |

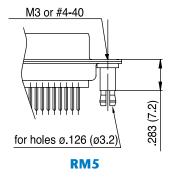
Straight PCB

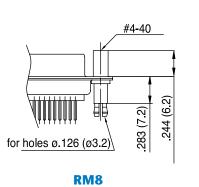


| Termination | Ø | L | | |
|-------------|-------------|------------|--|--|
| U | .024 (0.6) | .126 (3.2) | | |
| ٧ | .040 (1.02) | .095 (2.4) | | |
| T | .024 (0.6) | .157 (4) | | |
| OL2 | .02 (0.6) | .217 (5.5) | | |

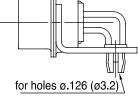
Grounding tabs







For R/A termination

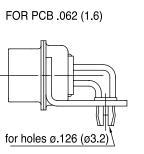


RM6





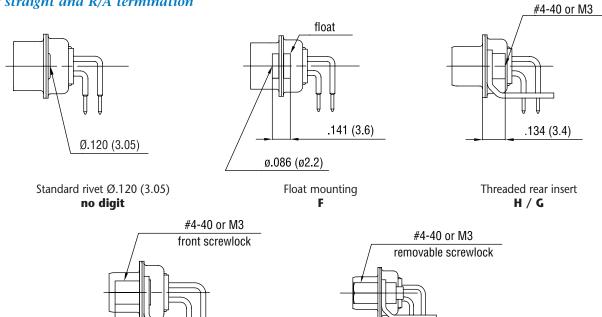




Screw-Machined Contacts Fixed Machined Contact Connector

D-DF SERIES





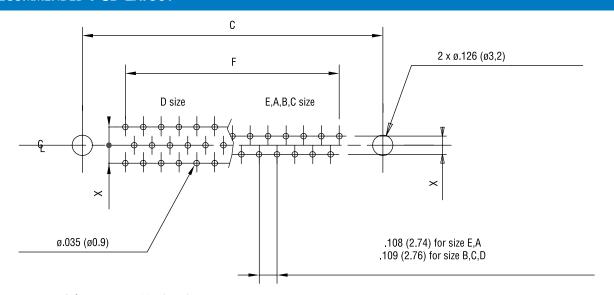
Fixed front female screwlock VF / VFM

.244 (6.2)

Removable female screwlock

VF2 / VFM2

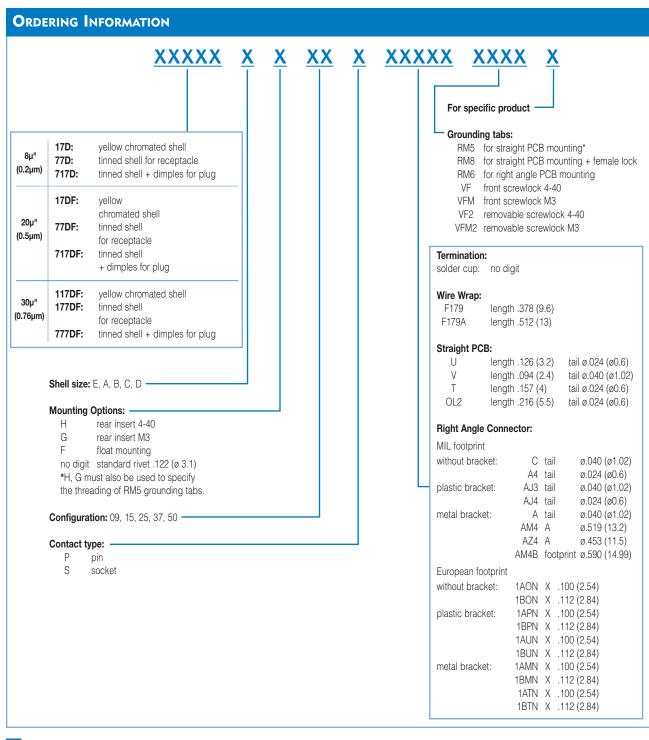
RECOMMENDED PCB LAYOUT



For straight PCB: X = .112 (2.84) For right angle PCB: MIL: X = .112 (2.84) European: X = .100 (2.54), .112 (2.84) in option

| | size E | size A | size B | size C | size D |
|-----------------|--------------|--------------|---------------|---------------|--------------|
| C ± .004 (0.1) | .984 (25) | 1.311 (33.3) | 1.85 (47) | 2.5 (63.5) | 2.406 (61.1) |
| F ± .002 (0.05) | .431 (10.96) | .755 (19.18) | 1.304 (33.12) | 1.956 (49.68) | 1.74 (44.2) |

25



: Standard options

For special request, please consult factory

For Filtered D-Sub, see page 56.

Screw Termination

SPECIFICATIONS:

MATERIALS AND PLATINGS

Shells

Steel Tin plated Glass filled thermoplastic, UL94V-0 Machined brass, full gold Insulator Contacts

ELECTRICAL DATA

7,5 A max. **Current Rating**

Voltage Rating 300 V RMS at 50 Hz Withstanding Voltage 1000 V RMS at 50 Hz **Insulation Resistance** > 5000 Ω at 500 V DC

Contact Resistance < 5 Ω

CLIMATIC DATA

Operating Temperature -67°F (-55°C) to +185°F (85°C),

peak at 257°F (125°C)

21 days 219°F(104°C - 95% HR) 48 hours Damp Heat

Salt Spray

MECHANICAL DATA

Cable Type Solid or stranded

0,75 mm² max. (AWG 18) Cable Gauge

- For bigger wire, please consult factory

0,05 mN max. **Screw Torque**

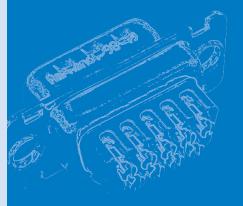
Mating Cycles 100 (class II) or 500 (class I) **D-ST SERIES**



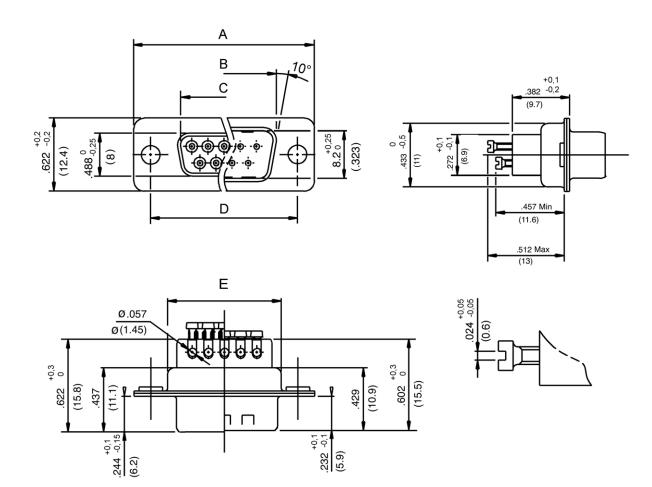
The Amphenol Screw Termination D-Sub series is especially designed for field applications.

These new connectors permit easy wiring without any specific tool; only a standard electrician's screwdriver is required. Due to their reduced overall dimensions, these connectors are compatible with all standard hoods and accessories.

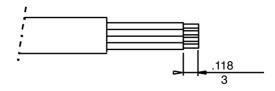
- Industry control of speed variators and calculators.
- Houses and public buildings control of heating, air conditioning, lighting, shutters and fire safety.
 Infrastructures fluids
- control, motorway tolls and street lighting.



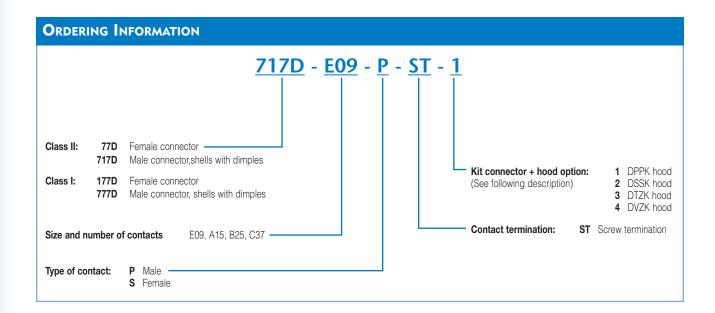
D-ST Series Screw Termination



Cable stripping



| SIZE | A +.010 (0.25) 010 (0.25) | B 0 008 (0.2) | +.008 (0.2) | +.004 (0.1) 004 (0.1) | +.004 (0.1) 016 (0.4) | |
|------|--|----------------------------|-------------|--------------------------|--------------------------|--|
| 9 | 1.209 | .646 | .661 | .984 | .370 | |
| | (30.7) | (16.4) | (16.8) | (25) | (19.4) | |
| 15 | 1.535 .976 | | .988 | 1.311 | 1.091 | |
| | (39) (24.8) | | (25.1) | (33.3) | (27.7) | |
| 25 | 2.083 | 1.516 1.528 | | 1.850 | 1.630 | |
| | (52.9) | (38.5) (38.8) | | (47) | (41.4) | |
| 37 | 2.724 | 2.161 | 2.177 | 2.500 | 2.280 | |
| | (69.2) | (54.9) | (55.3) | (63.5) | (57.9) | |



PLASTIC HOODS







DSSK Angled cable entry

METALLIC HOODS



DTZK Straight cable entry



DVZK Angled cable entry

RR-HR SERIES



Designed for high volume production, Amphenol's rear release crimp connector and contacts provide significant cost savings.

- EMI / RFI shell configuration.
- Removable, reusable contacts.
- Automatic and manual tooling available.
 - Industrial
 - Telecom
 - Any industry standard I / O connections



Stamped And Formed Contacts Rear Release Crimp Connectors

Standards: • RR: UL File: E64911

• HR: UL File : E149426 • Connectors according to MIL C24308

SPECIFICATIONS:

Insulator

Rear Insert

MATERIALS AND PLATINGS

Shells Steel yellow chromated over zinc or tinned steel

with or without dimples on plug connector Black glass-filled thermoplastic, UL 94V-0 Brass, 118µ" up to 197µ" (3µm up to 5µm) tinned over nickel 78µ" up to 118µ"

(2µm up to 3µm)

Brass, 236μ" up to 394μ" (6μm up to 10μm) tinned over nickel 78μ" up to 118μ" Screwlock

(2µm up to 3µm)

| Contacts | Under plating | Crimp side | | |
|--------------------|-------------------|-------------------|--|--|
| 8μ" (0.2μm) gold | 78μ" (2μm) nickel | gold flash or tin | | |
| 20μ" (0.5μm) gold | 78µ"(2µm) nickel | gold flash or tin | | |
| 30μ" (0.76μm) gold | 78μ" (2μm) nickel | gold flash or tin | | |

ELECTRICAL DATA

Current Rating

500V AC/rms 50Hz **Voltage Rating**

Withstanding Voltage RR: 1000V AC/rms 50Hz for 1 minute HR: 1000V AC/rms 60Hz for 1 minute

RR: $5000M\Omega$

Insulation Resistance

HR: $1000M\Omega$ **Contact Resistance** $10m\Omega$ max.

Wire Size 20-28 AWG max. insulation out

.05 (Ø1.27)

CLIMATIC DATA

Operating Temperature 67°F to 221°F (-55°C to +105°C)

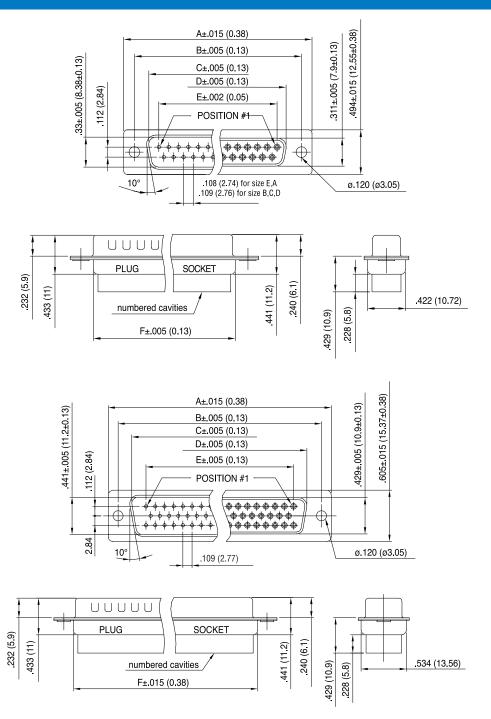
MECHANICAL DATA

Mating and Unmating Force

Unit: lb. (kg.)

| No. of C | ontacts | Mate (| max.) | Unmate (min.) | | |
|-------------|-------------|---------------|---------------|---------------|-------------|--|
| RR | HR | RR HR | | RR | HR | |
| 9 (size E) | 15 (size E) | 6.74 (3.05) | 8.42 (3.81) | 0.79 (0.36) | 1.14 (0.52) | |
| 15 (size A) | 26 (size A) | 11.24 (5.09) | 13.16 (5.95) | 1.01 (0.46) | 2.32 (1.05) | |
| 25 (size B) | 44 (size B) | 18.66 (8.44) | 20.46 (9.26) | 1.8 (0.81) | 3.02 (1.37) | |
| 37 (size C) | 62 (size C) | 27.65 (12.51) | 29.78 (13.48) | 2.47 (1.1) | 3.88 (1.76) | |
| 50 (size D) | 78 (size D) | 32.38 (14.65) | 34.96 (15.82) | 3.56 (1.6) | 4.46 (2.02) | |

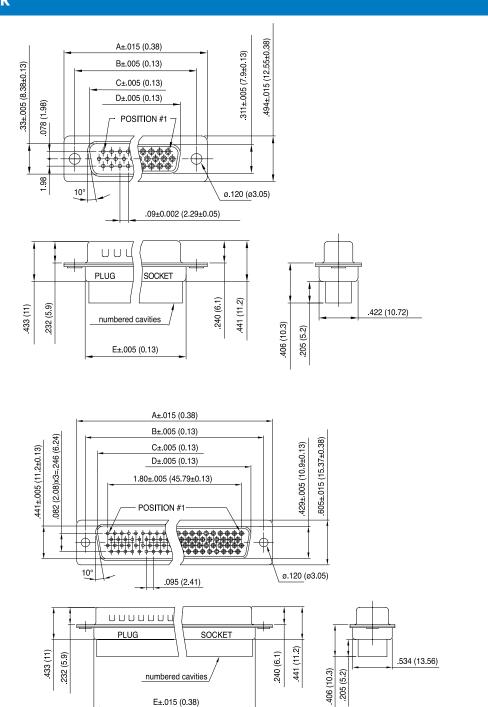
STANDARD DENSITY RR



| No. of Contacts | | Dimensions | | | | | | | |
|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|--|
| No. of Contacts | Α | В | С | D | E | F | | | |
| 9 | 1.21 (30.84) | .98 (24.99) | .67 (16.92) | .64 (16.24) | .44 (11.09) | .76 (19.28) | | | |
| 15 | 1.54 (39.24) | 1.31 (33.32) | .972 (24.7) | .97 (24.56) | .76 (19.39) | 1.08 (27.51) | | | |
| 25 | 2.09 (53.04) | 1.85 (47.04) | 1.53 (38.96) | 1.51 (38.38) | 1.31 (33.24) | 1.63 (41.30) | | | |
| 37 | 2.73 (69.32) | 2.50 (63.50) | 2.18 (55.3) | 2.16 (54.76) | 1.96 (49.86) | 2.27 (57.71) | | | |
| 50 | 2.64 (67) | 2.41 (61.11) | 2.08 (52.86) | 2.06 (52.34) | 1.75 (44.32) | 2.18 (55.3) | | | |

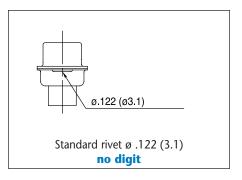
INCHES (MM)

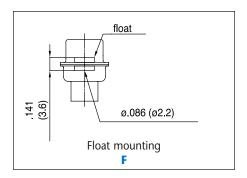
HIGH DENSITY HR

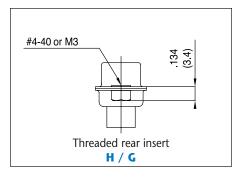


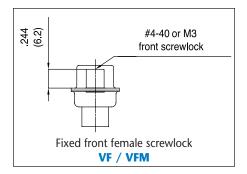
| No. of Contacts | | Dimensions | | | | | | |
|-----------------|--------------|--------------|--------------|--------------|--------------|--|--|--|
| | Α | В | С | D | E | | | |
| 15 | 1.21 (30.84) | .98 (24.99) | .67 (16.92) | .64 (16.24) | .76 (19.28) | | | |
| 26 | 1.54 (39.24) | 1.31 (33.32) | .972 (24.7) | .97 (24.56) | 1.08 (27.51) | | | |
| 44 | 2.09 (53.04) | 1.85 (47.04) | 1.53 (38.96) | 1.51 (38.38) | 1.63 (41.30) | | | |
| 62 | 2.73 (69.32) | 2.50 (63.50) | 2.18 (55.42) | 2.16 (54.76) | 2.27 (57.71) | | | |
| 44 | 2.64 (67) | 2.41 (61.11) | 2.08 (52.86) | 2.06 (52.34) | 2.18 (55.3) | | | |

PANEL MOUNTING OPTION

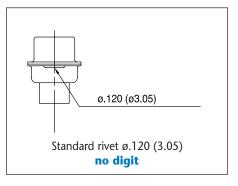


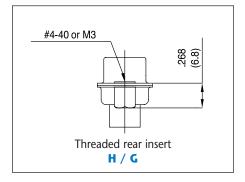


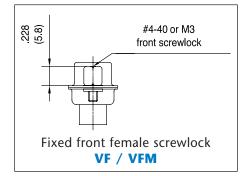




HIGH DENSITY

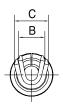




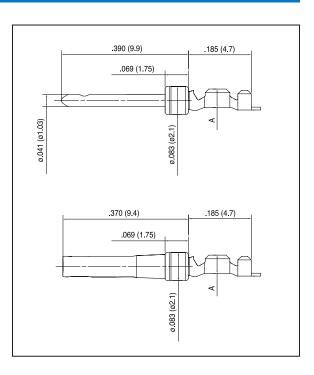


CONTACTS

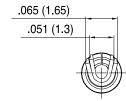
Standard density

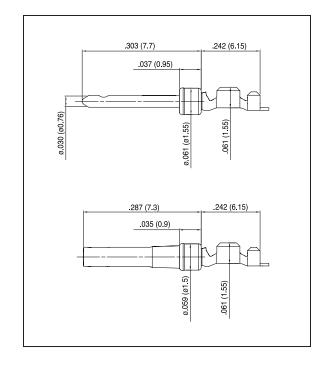


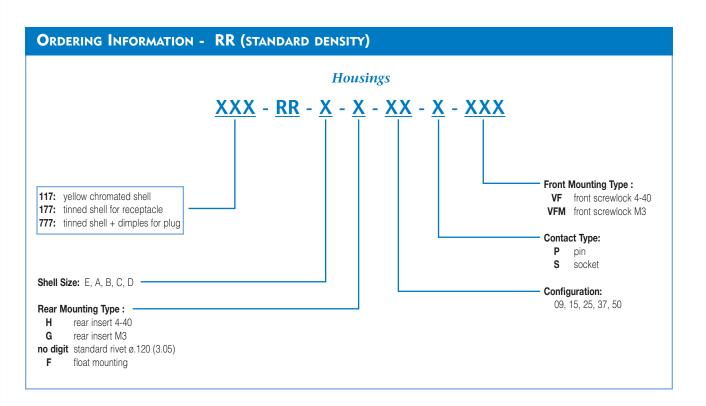
| AWG | Α | В | С |
|-------|------------|------------|------------|
| 20-24 | .071 (1.8) | .075 (1.9) | .098 (2.5) |
| 24-28 | .055 (1.4) | .059 (1.5) | .066 (1.7) |

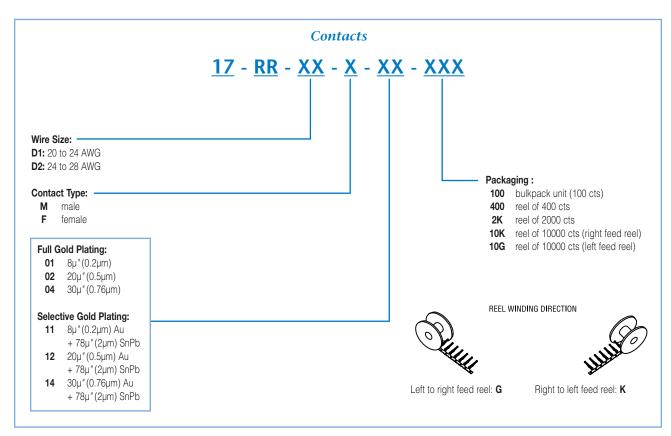


High density

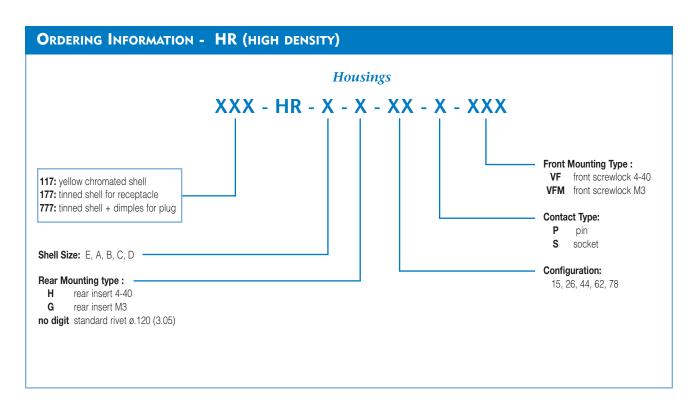


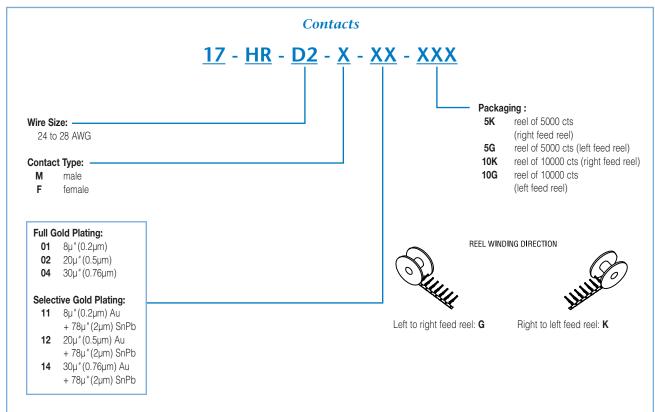






For special request, please consult factory





For special request, please consult factory

Stamped And Formed Contacts Rear Release Crimp Connectors

RR-HR SERIES

TOOLING FOR CRIMP CONTACTS

For standard density crimp contacts: 17RR series

| Contact insertion and removal tool | 17D 438 SP |
|---|-------------|
| Hand crimp tool for single contacts AWG 20 to 28 | 17D 440 SP |
| Hand crimp tool for reels of 400 contacts | FA 0000 762 |
| crimp dies: AWG 20 to 24 | FA 0000 104 |
| crimp dies: AWG 24 to 28 | FA 0000 102 |
| Stripping box | FE 0400 |
| Automatic crimp machine for reels of 2000 to 10000 contacts | 970 MC |
| crimp dies: AWG 20 to 24 | 968 MC |
| crimp dies: AWG 24 to 28 | 972 MC |

For high density crimp contacts: 17HR series

| • Automatic crimp machine for reels of 2000 to 10000 contacts | 970 M |
|---|-------|
| crimp dies: AWG 24 to 28 | 973 M |

SD308



For Sea, Air or Land, these connectors are SEALED! Amphenol's SD308 Sealed D-Subminiature Connectors are available in the full range of standard density and hi-density insert arrangements, pin and socket contacts. These connectors are supplied with fixed screw machine contacts and are available in Solder Cup, Straight PCB, and Right Angle PCB terminations.

- Ruggedized Computers and Peripheral Equipment
- Industrial Controllers
- 21st Century Soldier
- Ideal For Retrofit Applications Or Late Design-In

SPECIFICATIONS:

PRODUCT FEATURES

- One piece machined Aluminum Shell
- Gold Plated Screw Machine Contacts
- Hi Grade Thermoplastic Inserts -67°F to +257°F (-55°C to +125°C)
- Integrated Blind Panel Mounts
- Supplied with Conductive Panel Seal Gasket

MATERIALS AND PLATINGS

Shells Machined aluminum alloy, tin plated

Inserts High temperature resistant polyethersulfone per mil-p-46185
Contacts Copper alloy, 20µ" (0.51µm) gold plated over nickel.
Seal Silicone elastomer with nickel plated graphite flake

ELECTRICAL DATA

Current Rating Insulation Resistance Working Voltage

5 GIGOHM @ 500 VDC 120 VAC

ing Voltage 120 V

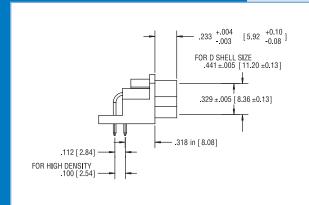
D.W.V.

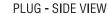
1,000 VAC pin to pin & pin to shell

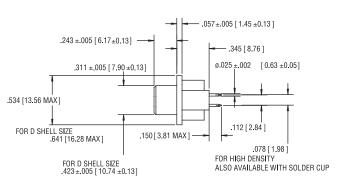
Sealed D-Sub Connectors

CLIMATIC DATA

Operating Temperature $-67^{\circ}F$ to $+257^{\circ}F$ ($-55^{\circ}C$ to $+125^{\circ}C$)

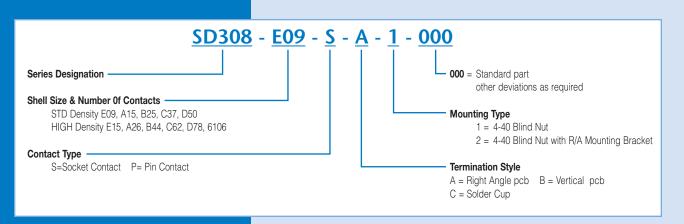






RECEPTACLE - SIDE VIEW

53



TELEPHONE: (416) 754-5656 FAX: (416) 754-8668 E-MAIL: SALES@AMPHENOLCANADA.COM

Filtered D-Sub Connectors, Ruggedized

FD308

SPECIFICATIONS:

DESCRIPTION

- Hi reliability filtering in multi row arrangements
- Stamped and Formed shells
- Screw Machine Contacts and Hi Reliability inserts
- Available in all Hi-Density insert patterns

MATERIALS AND PLATINGS

Shells Stamped steel shell, tin plated

InsertsHigh temperature resistant polyethersulfone per MIL-P-46185ContactsMachined copper alloy, 20μ" (0.51μm) gold plated over nickelCapacitorBarium titanate ceramic array

ELECTRICAL DATA

Current Rating 5 A

Insulation Resistance 5 GIGOHM @ 500 VDC

Working Voltage 200 VDC

D.W.V. 500 VDC pin to pin & pin to shell +/- 20% (see P/N description)

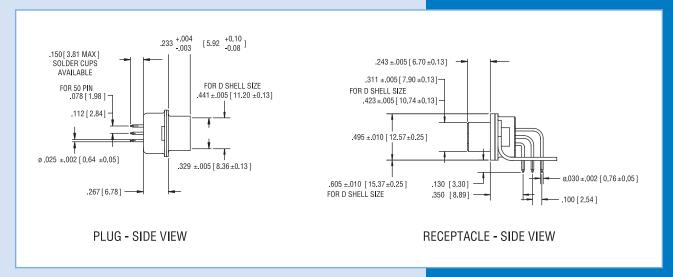
CLIMATIC DATA

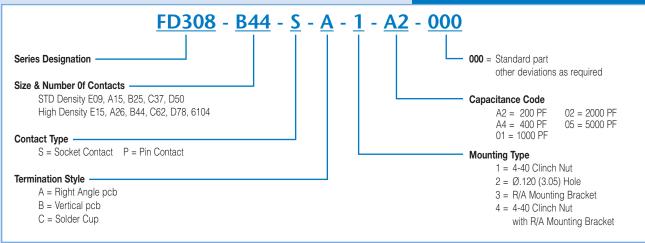
54

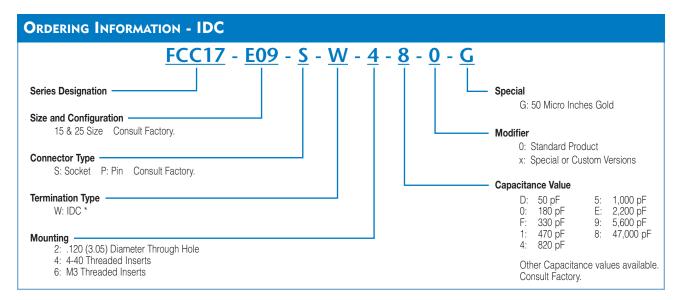
Operating Temperature -67°F to +257°F (-55°C to +125°C)

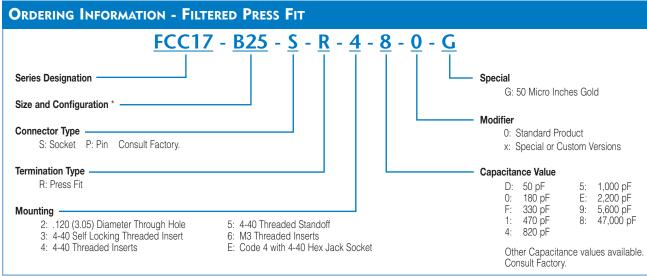
For 50 position and all high density versions. Amphenol's FD308 Filtered D-Subminiature connectors are available in the full range of hidensity insert arrangements, pin and socket contacts, plus the 50 position standard density. These connectors are supplied with fixed screw machine contacts and are available in Straight and Right Angle PCB terminations and Solder Cup.

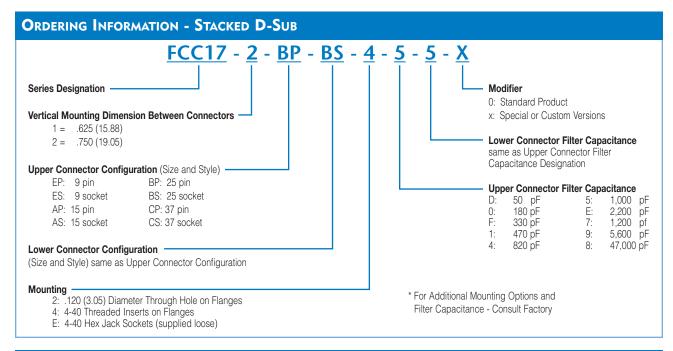
- Computers and Peripheral Equipment
- Avionics Systems Ideal For Retrofit Applications Or Late Design-In

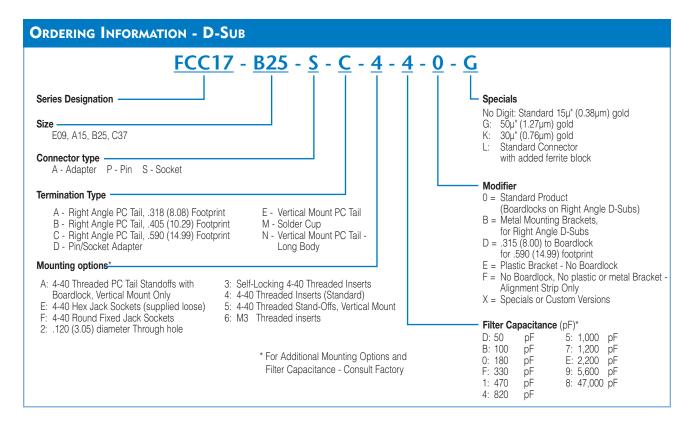


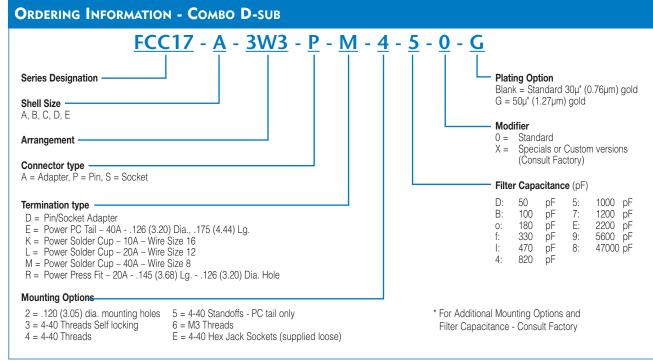












ACCESSORIES



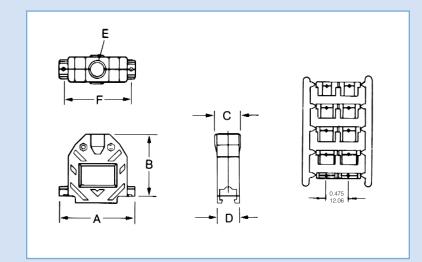
Amphenol's black plastic backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for most cable assemblies. This version is economical and highly durable. The split-grommet insert provides cable strain relief while making it easy to assemble.

Plastic Backshell

SPECIFICATIONS:

Housing Material: Grommet Material: Mounting Hardware: Styrene (UL 94 VO)

Polypropylene Steel, clear zinc finish *RoHS Compliant



DIMENSIONS AND ORDERING INFORMATION

| Shell | Standard # | Hi-Density # | Part | | | Dimer | nsions | | | Cable Diam | eter Range |
|-------|-------------|------------------|------------|---------|---------|---------|---------|---------|---------|------------|------------|
| Size | of Contacts | of Contacts | # | Α | В | С | D | E | F | Minimum | Maximum |
| Е | F 0 15 | | 17E-1724-1 | 1.217 | 1.547 | 0.640 | 0.640 | 0.400 | 0.984 | 0.210 | 0.350 |
| Е | 9 | 15 | 1/E-1/24-1 | (30.91) | (39.29) | (16.26) | (16.26) | (10.16) | (24.99) | (5.33) | (8.89) |
| Α | 15 | 26 | 17E-1725-1 | 1.545 | 1.505 | 0.640 | 0.640 | 0.400 | 1.312 | 0.210 | 0.350 |
| А | 15 20 | 15 26 1/E-1/25-1 | 1/E-1/20-1 | (39.24) | (38.23) | (16.26) | (16.26) | (10.16) | (33.32) | (5.33) | (8.89) |
| В | 25 | 44 | 475 4700 4 | 2.090 | 1.655 | 0.710 | 0.640 | 0.522 | 1.857 | 0.230 | 0.450 |
| Ь | | | 17E-1726-1 | (53.08) | (42.04) | (18.03) | (16.26) | (13.26) | (47.17) | (5.84) | (11.43) |
| | 37 | 62 | 17E-1727-1 | 2.734 | 1.830 | 0.906 | 0.640 | 0.726 | 2.500 | 0.350 | 0.640 |
| C | 37 | 02 | | (69.44) | (46.48) | (23.01) | (16.26) | (18.44) | (63.50) | (8.89) | (16.26) |
| | 50 | 78 | 17E-1728-1 | 2.645 | 1.855 | 0.940 | 0.770 | 0.726 | 2.406 | 0.350 | 0.640 |
| D | 30 | /0 | | (67.18) | (47.12) | (23.88) | (19.56) | (18.44) | (61.11) | (8.89) | (16.26) |

Plated Plastic Backshell

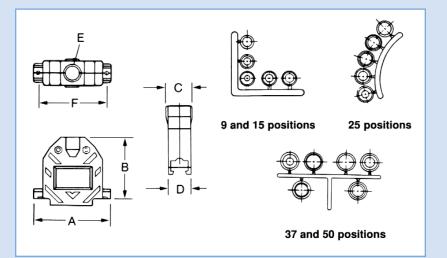
SPECIFICATIONS:

Housing Material: ABS Polymer
Plating: Nickel over copper
Grommet Material: PVC (UL 94 VO)

Mounting Hardware: Steel, clear zinc finish *RoHS Compliant

ASSEMBLY INSTRUCTIONS

- 1. Select the tightest insert that will fit over the cable and thread the cable through it, placing the end with the smaller O.D. (the end without the washer) towards the connector.
- 2. Cut the jacket, fold the shielding back over the outside of the insert and cut it just short of the washer.
- 3. Install jackscrews and connector.
- 4. Place the washer in the outermost depression in the exit area of the hood and screw the cover closed.



ACCESSORIES



Amphenol's plated plastic backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for cable assemblies requiring compliance to FCC 20780. This version is highly durable and provides EMI/RFI protection. The rubber grommet compression insert forces the cable's shielding against the inside of the cable exit area, assuring shielding.

DIMENSIONS AND ORDERING INFORMATION

| Shell | Standard # | Hi-Density # | Part | | | Dimer | Cable Diameter Range | | | | |
|-------|-------------|--------------|------------|---------|---------|---------|----------------------|---------|---------|---------|---------|
| Size | of Contacts | of Contacts | # | Α | В | С | D | E | F | Minimum | Maximum |
| Е | 9 | 15 | 17E-1724-2 | 1.217 | 1.547 | 0.640 | 0.640 | 0.400 | 0.984 | 0.210 | 0.320 |
| | | | | (30.91) | (39.29) | (16.26) | (16.26) | (10.16) | (24.99) | (5.33) | (8.13) |
| A | 15 | 26 | 17E-1725-2 | 1.545 | 1.505 | 0.640 | 0.640 | 0.400 | 1.312 | 0.210 | 0.320 |
| A | | | | (39.24) | (38.23) | (16.26) | (16.26) | (10.16) | (33.32) | (5.33) | (8.13) |
| В | 25 | 44 | 17E-1726-2 | 2.000 | 1.655 | 0.710 | 0.640 | 0.522 | 1.857 | 0.230 | 0.450 |
| Ь | | | | (50.8) | (42.04) | (18.03) | (16.26) | (13.26) | (47.17) | (5.84) | (11.43) |
| 0 | 37 | 62 | 17E-1727-2 | 2.730 | 1.830 | 0.906 | 0.640 | 0.726 | 2.500 | 0.350 | 0.650 |
| | | | | (69.34) | (46.48) | (23.01) | (16.26) | (18.44) | (63.50) | (8.89) | (16.51) |
| D | 50 | 78 | 17E-1728-2 | 2.645 | 1.855 | 0.940 | 0.440 | 0.726 | 2.406 | 0.350 | 0.650 |
| U | | | | (67.18) | (47.12) | (23.88) | (11.18) | (18.44) | (61.11) | (8.89) | (16.51) |

ACCESSORIES



Amphenol's plated plastic backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for cable assemblies requiring compliance to FCC 20780. This version is highly durable and provides EMI/RFI protection. The rubber grommet compression insert forces the cable's shielding against the inside of the cable exit area, assuring shielding. The 45° cable exit helps save space behind equipment.

45° Plated Plastic Backshell

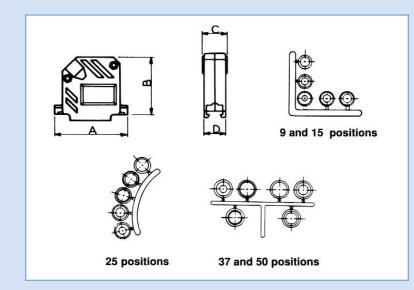
SPECIFICATIONS:

Housing Material: ABS Polymer
Plating: Nickel over copper
Grommet Material: PVC (UL 94 VO)

Mounting Hardware: Steel, clear zinc finish *RoHS Compliant

ASSEMBLY INSTRUCTIONS

- 1. Select the tightest insert that will fit over the cable and thread the cable through it, placing the end with the smaller O.D. (the end without the washer) towards the connector.
- 2. Cut the jacket, fold the shielding back over the outside of the insert and cut it just short of the washer.
- 3. Install jackscrews and connector.
- 4. Place the washer in the outermost depression in the exit area of the hood and screw the cover closed.



DIMENSIONS AND ORDERING INFORMATION

| Sh | ell | Standard # | Hi-Density # | Part | | | Dime | Cable Diameter Range | | | | |
|-----|-----|-------------|--------------|------------|---------|---------|---------|----------------------|---------|---------|---------|---------|
| Siz | ze | of Contacts | of Contacts | # | Α | В | С | D | E | F | Minimum | Maximum |
| Е | _ | 9 | 15 | 17E-1824-2 | 1.217 | 1.430 | 0.640 | 0.640 | 0.400 | 0.984 | 0.210 | 0.320 |
| | - | | | | (30.91) | (36.32) | (16.26) | (16.26) | (10.16) | (24.99) | (5.33) | (8.13) |
| / | 、 I | 15 | 26 | 17E-1825-2 | 1.545 | 1.568 | 0.640 | 0.640 | 0.400 | 1.312 | 0.210 | 0.320 |
| - | ١ | | | | (39.24) | (39.83) | (16.26) | (16.26) | (10.16) | (33.32) | (5.33) | (8.13) |
| E | , | 25 | 44 | 17E-1826-2 | 2.090 | 1.735 | 0.710 | 0.640 | 0.522 | 1.857 | 0.230 | 0.450 |
| | · | | | | (53.09) | (44.07) | (18.03) | (16.26) | (13.26) | (47.17) | (5.84) | (11.43) |
| | , | 37 | 62 | 17E-1827-2 | 2.734 | 1.976 | 0.906 | 0.640 | 0.726 | 2.500 | 0.350 | 0.650 |
| | C | | | | (69.44) | (50.19) | (23.01) | (16.26) | (18.44) | (63.5) | (8.89) | (16.51) |

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Two-Piece Die Cast Shielded Backshells

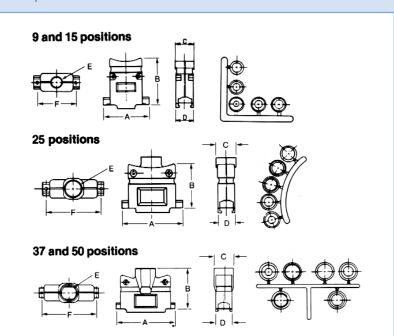
SPECIFICATIONS:

Housing Material: Die cast zinc PVC (UL 94 VO) **Grommet Material:**

Steel, clear zinc finish *RoHS Compliant Mounting Hardware:

ASSEMBLY INSTRUCTIONS

- 1. Select the tightest insert that will fit over the cable and thread the cable through it, placing the end with the smaller O.D. (the end without the washer) towards the connector.
- 2. Cut the jacket, fold the shielding back over the outside of the insert and cut it just short of the washer.
- 3. Install jackscrews and connector.
- 4. Place the washer in the outermost depression in the exit area of the hood and screw the cover closed.



ACCESSORIES



Amphenol's metal backshell accommodates most standard and high-density D-Subminiature connectors and is appropriate for cable assemblies requiring compliance to FCC 20780. This version is highly durable and provides EMI/RFI protection. The rubber grommet compression insert forces the cable's shielding against the inside of the cable exit area, assuring shielding.

DIMENSIONS AND ORDERING INFORMATION

| Shell | Standard # | Hi-Density # of Contacts | Part # | | | Dimer | Cable Diameter Range | | | | |
|-------|-------------|--------------------------|-------------|---------|---------|---------|----------------------|---------|---------|---------|---------|
| Size | of Contacts | | | Α | В | С | D | E | F | Minimum | Maximum |
| Е | 9 | 15 | 17E-1657-09 | 1.217 | 1.430 | 0.640 | 0.640 | 0.400 | 0.984 | 0.210 | 0.320 |
| | | | | (30.91) | (36.32) | (16.26) | (16.26) | (10.16) | (24.99) | (5.33) | (8.13) |
| A | 15 | 26 | 17E-1657-15 | 1.545 | 1.568 | 0.640 | 0.640 | 0.400 | 1.312 | 0.210 | 0.320 |
| A | | | | (39.24) | (39.83) | (16.26) | (16.26) | (10.16) | (33.32) | (5.33) | (8.13) |
| В | 25 | 44 | 17E-1657-25 | 2.090 | 1.735 | 0.710 | 0.640. | 0.522 | 1.857 | 0.230 | 0.450 |
| | | | | (53.09) | (44.07) | (18.03) | (16.26) | (13.26) | (47.17) | (5.84) | (11.43) |
| С | 37 | 62 | 17E-1657-37 | 2.734 | 1.976 | 0.906 | 0.640 | 0.726 | 2.500 | 0.350 | 0.640 |
| | | | | (69.44) | (50.19) | (23.01) | (16.26) | (18.44) | (63.5) | (8.89) | (16.26) |

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