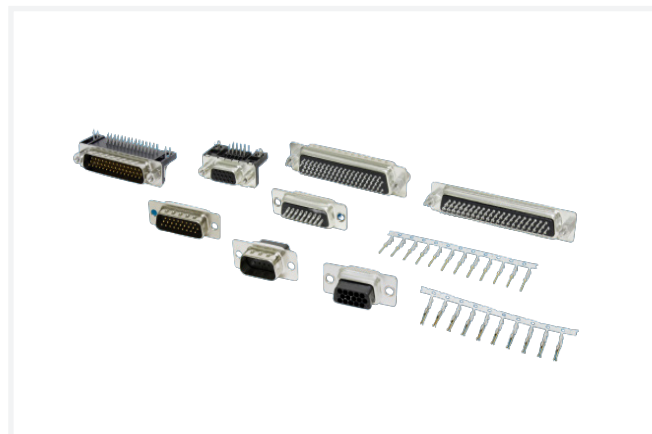


D-SUBMINIATURE HIGH DENSITY CONNECTORS

The new High Density D-Subminiature range is part of Amphenol's I/O-Connector portfolio which provides customers access to a wide range of industry standard and application specific I/O interconnect solutions. Amphenol's I/O connector solutions complete your board and system designs by providing high-density and high-speed interfaces to enable interconnect technologies for networking, storage and memory and complementary products for power distribution. Our range of standardized I/O solutions enables full compliance to industry standards, such as Ethernet, SFF, Infiniband, USB, PCMCIA or HDMI. Amphenol also has the capability to provide customized I/O solutions optimized to address application specific requirements.

Through Amphenol's high-speed, power, assembly and mechanical packaging expertise, you gain the advantage of getting your signals out of the box at optimal cost and performance. Amphenol's I/O connectors – coupled with Amphenol's extensive range of backplane and board-to-board connectors and cable assembly products—enable complete link solutions for your equipment designs.

Amphenol's D-Subminiature connectors are part of an industry standard for applications requiring robust and reliable connectors. These D-Subminiature connectors are one of the most popular Input – Output interconnects, addressing a wide variety of applications in Telecommunications, Data, Consumer, Industrial, Military, Instrumentation and Medical markets. Since many years Amphenol offers a wide range of D-Subminiature connectors to meet all design requirements, and to address increasing needs for high density packaging, Amphenol developed the D-Subminiature High Density Range.



TARGET MARKETS



FEATURES

- High density Dsub connectors can accommodate more number of contacts in the basic shell sizes
- Selected layouts are also available in Press-fit and Pin-in-Paste versions
- Pin-in-Paste connectors comes in Tape & Reel packaging
- Various PCB and Panel mounting accessory options available
- Hoods available in plastic, metalized and metallic form with locking screws
- Lead-free and RoHS compliant

BENEFITS

- Answer to the increasing need for higher density packaging
- Meets different termination needs
- Time saving as it can be automatically positioned on the board using pick and place processes
- Wide variety of choices for secure connection
- Supports cable connection; Prevents risks of pulling up and accidental un-mating
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Insulator: Glass filled thermoplastic (UL94V-0) black
- Contact: Copper alloy
- Shell: SPCC steel

ELECTRICAL PERFORMANCE

- Current Rating: Rated current: 2.5A
- Rated Voltage: 250V
- Contact Resistance: 25mΩ max. Initial and 40mΩmax. after
- Insulation Resistance: 5000mΩ min. at 500V DC
- Dielectric Strength: 750V RMS
- Operating Temperature Range: 55°C to +105°C

MECHANICAL PERFORMANCE

- Mating/Un-mating Cycles: 200/500
- Insertion/Extraction Force per contact: 5N max. / 0.2N min.

TARGET MARKETS/APPLICATIONS



Asymmetric Digital Subscriber Line (ADSL)
Base Station
Switching
Transmission



Set-top Box



Desktop and Laptop
Storage System
Router and Server



Automotive Diagnostics
Control Drives
Energy Meter
Gaming Machine
Test Equipment
Office Automation
POS & Handheld terminal
Power Supplies
Parking Meter
Printer and Copier
Renewable Energy
Robotics
Surveillance Camera
Avionics



Medical Instrument



Military Equipment

HIGH DENSITY D-SUBMINIATURE STRAIGHT

ORDERING INFORMATION

| | | | | | | |
|---------------|----------|-----------|----------|----------|-----------|----------------|
| SERIES | P | YY | 4 | X | LF | RoHS status |
| | | | | | | RoHS compliant |

| Gender | |
|--------|---|
| Pin | P |
| Socket | S |

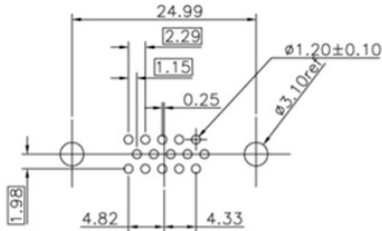
| No Of Contacts | |
|----------------|----|
| | 15 |
| | 26 |
| | 44 |

| Mounting Options | |
|---------------------------------------|---|
| UNC 4-40 Screw locks with Board locks | V |
| UNC 4-40 Clinch nuts with Board locks | X |
| M3 Clinch nuts with Board locks | L |

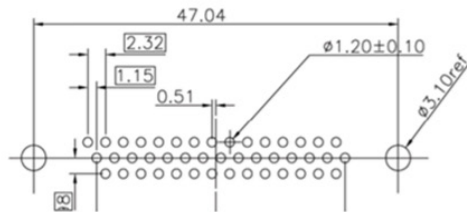
| Durability | |
|-------------------|---|
| 200 mating cycles | 4 |
| 500 mating cycles | 6 |

| Series | Part Number |
|-----------------|-------------|
| Male straight | 10090928 |
| Female straight | 10090929 |

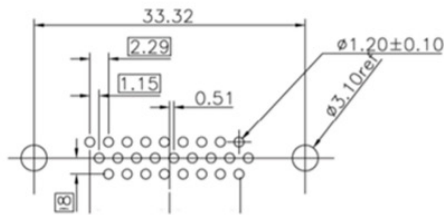
PCB LAYOUT



P.C.B LAYOUT (FOR 15P)



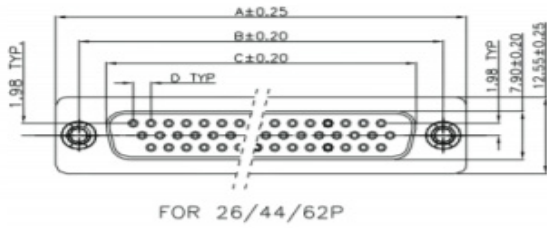
P.C.B LAYOUT (FOR 44P)



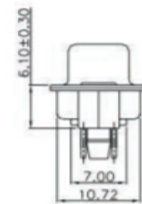
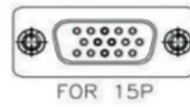
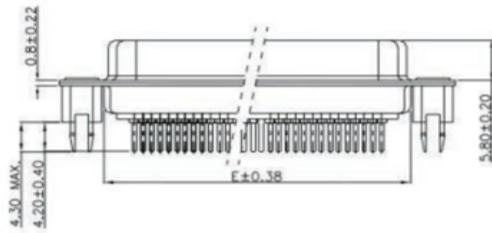
P.C.B LAYOUT (FOR 26P)

▶ D-SUBMINIATURE HIGH DENSITY CONNECTORS

DIMENSION FOR MOUNTING OPTION 'X/L'



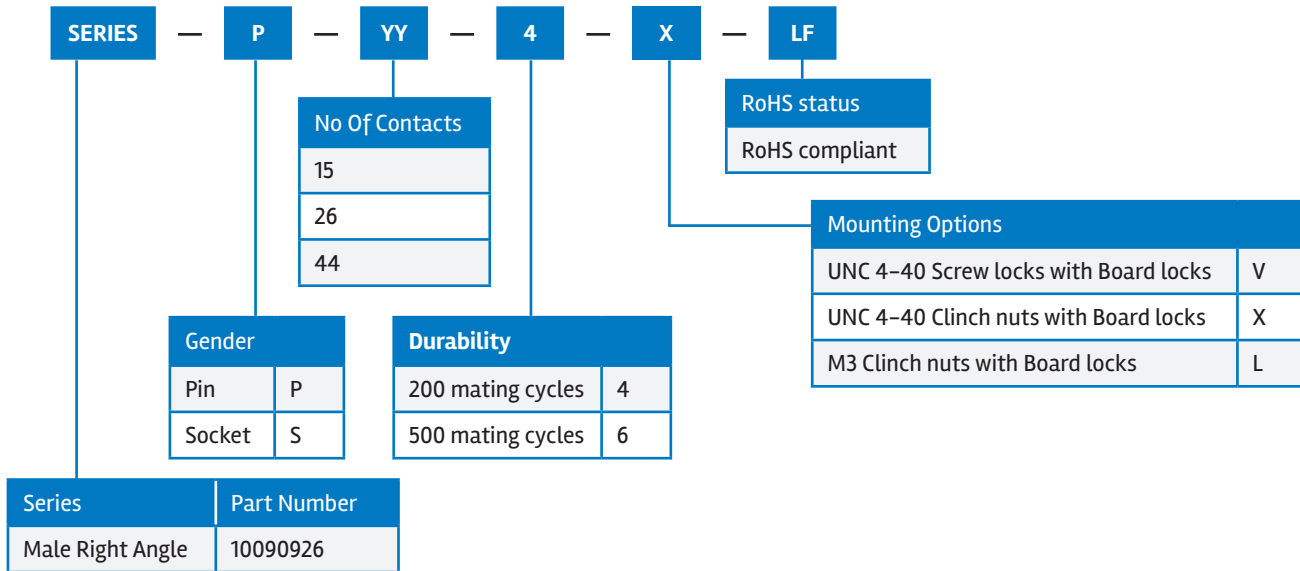
| Pos. | Part Number | A | B | C | D | E |
|------|------------------|-------|-------|-------|------|-------|
| 15P | 10090929-S15**LF | 30.81 | 24.99 | 16.33 | 2.29 | 19.10 |
| 26P | 10090929-S26**LF | 39.24 | 33.32 | 24.66 | 2.29 | 27.75 |
| 44P | 10090929-S44**LF | 53.04 | 47.04 | 38.38 | 2.29 | 41.30 |



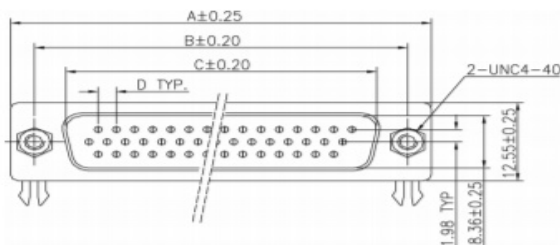
▶ D-SUBMINIATURE HIGH DENSITY CONNECTORS

HIGH DENSITY D-SUBMINIATURE RIGHT ANGLE

ORDERING INFORMATION

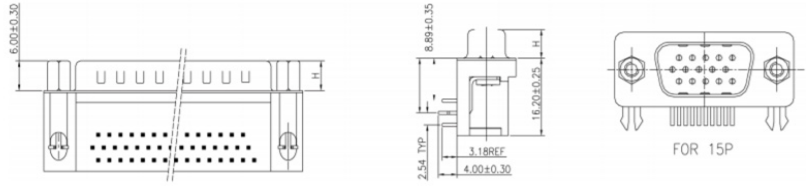


DIMENSION FOR MOUNTING OPTION 'V'

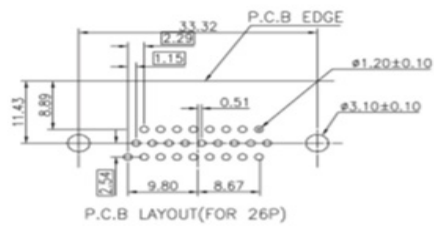
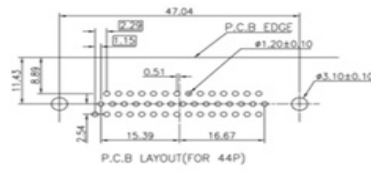
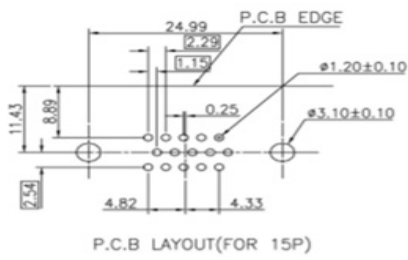


| Pos. | Part Number | A | B | C | D | E | F | H |
|------|------------------|-------|-------|-------|------|------|------|-----------------|
| 15P | 10090926-P15*VLF | 30.81 | 24.99 | 16.92 | 2.29 | 8.19 | 7.68 | 5.9 +0.25 -0 |
| 26P | 10090926-P26*VLF | 39.24 | 33.32 | 25.25 | 2.29 | 8.01 | 7.02 | 5.9 +0.25 -0 |
| 44P | 10090926-P44*VLF | 53.04 | 47.04 | 38.96 | 2.29 | 8.02 | 7.01 | 5.9 +0.25 -0 |

▶ D-SUBMINIATURE HIGH DENSITY CONNECTORS



PCB LAYOUT



▶ D-SUBMINIATURE HIGH DENSITY CONNECTORS

HIGH DENSITY D-SUBMINIATURE RIGHT ANGLE FEMALE

UL RECOGNISED FILE E 118235 (R)



ICD – **15** – **S** – **13E** – **4**

Series:
ICD

Contacts
Female S

| No Of Contacts |
|----------------|
| 15 |
| 26 |
| 44 |

| Termination | |
|-------------------------------------|-----|
| Angled spills – US Standard, 3.18mm | 13E |

| Durability | |
|---|---|
| Standard class (≥200 mating/unmating) | 4 |
| High performance class (≥500 mating/unmating) | 6 |

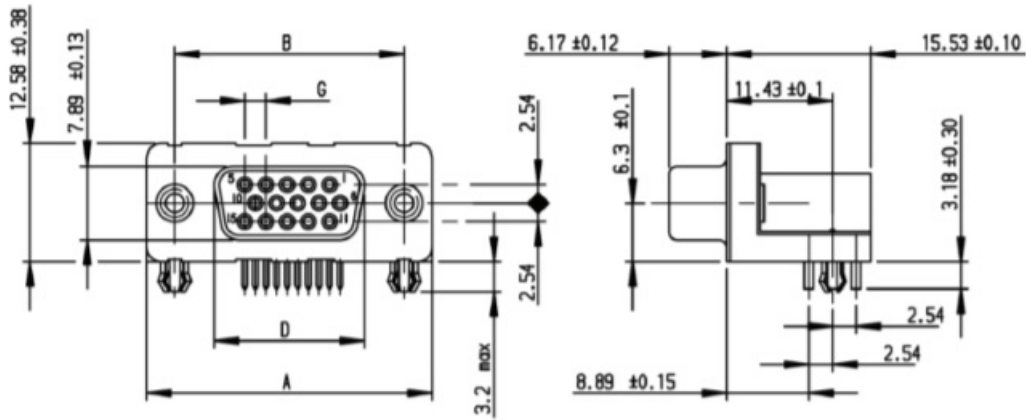
GX – **00LF**

| Options | |
|---------------------------------|------|
| Standard series, RoHS compliant | 00LF |

| Mounting Options | |
|---|----|
| Standard holes | PA |
| Threaded insert (M3) | PL |
| Threaded insert (UNC 4-40) | PX |
| Female screw (UNC 4-40) | PV |
| Harpoons + insert M3 + elec. continuity | GL |
| Harpoons + insert UNC 4-40 + elec. continuity | GX |
| Harpoons + female (UNC 4-40) + elec. continuity | GV |
| Insert M3 + elec. continuity | UL |
| Insert UNC 4-40 + elec. continuity | UX |
| Female screw UNC 4-40 + elec. continuity | UV |

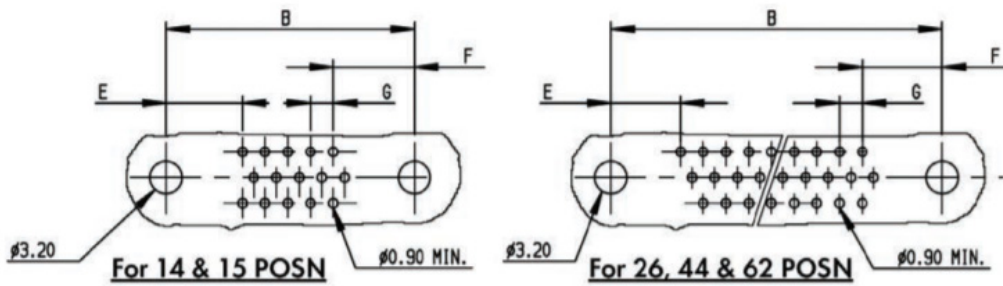
▶ D-SUBMINIATURE HIGH DENSITY CONNECTORS

HIGH DENSITY D-SUBMINIATURE 3 ROWS (15/26/44 POS)



| Size | Dimensions | | | | | | |
|------|------------|----------|----------|----------|------|------|-------|
| | A + 0.38 | B + 0.12 | C + 0.10 | D + 0.25 | E | F | G |
| 15 | 30,81 | 24,99 | 16,96 | 16,21 | 7,68 | 8,19 | 2,285 |
| 26 | 39,14 | 33,32 | 25,18 | 24,54 | 7,02 | 8,01 | 2,285 |
| 44 | 53,03 | 47,04 | 39,12 | 38,25 | 7,01 | 8,02 | 2,285 |

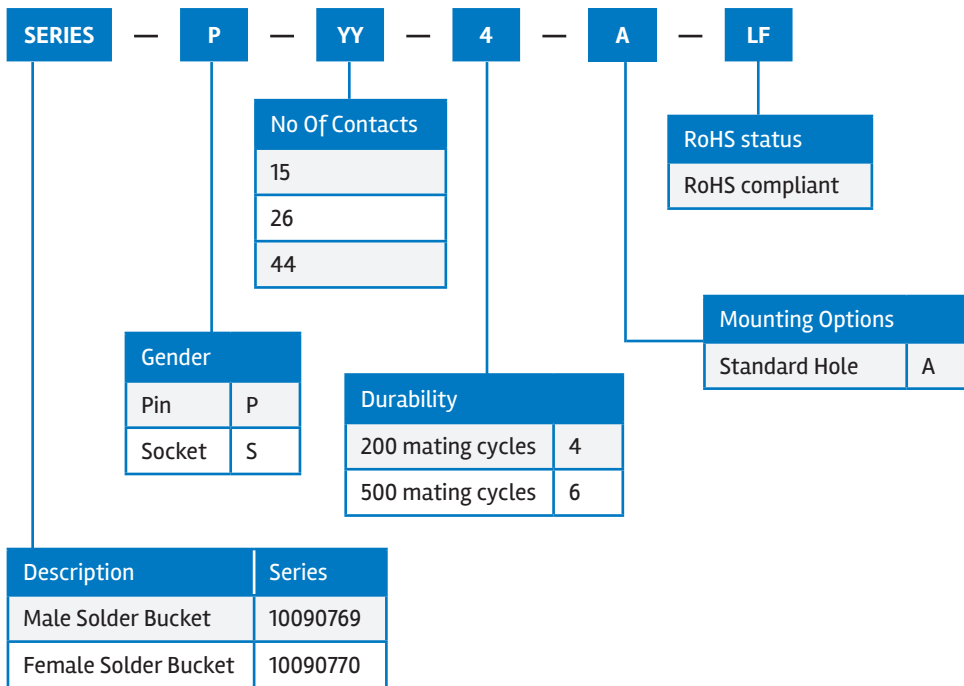
PCB DRILLING DIMENSIONS



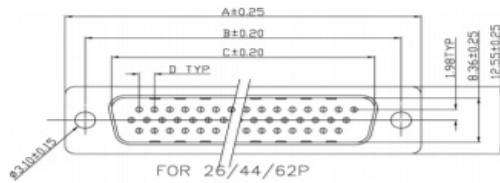
▶ D-SUBMINIATURE HIGH DENSITY CONNECTORS

HIGH DENSITY D-SUBMINIATURE SOLDER BUCKET

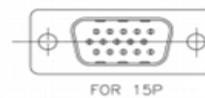
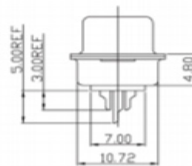
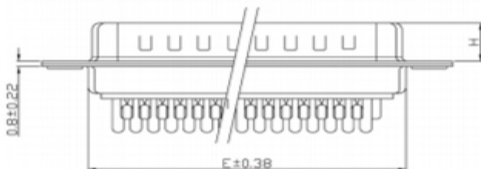
ORDERING INFORMATION



DIMENSION



| Pos. | Part Number | A | B | C | D | E | H |
|------|------------------|-------|-------|-------|-------|------|-----------------|
| 15P | 10090769-P15*ALF | 30.81 | 24.99 | 16.92 | 19.10 | 2.29 | 5.9 +0.25 -0 |
| 26P | 10090769-P26*ALF | 39.24 | 33.32 | 25.25 | 27.75 | 2.29 | 5.9 +0.25 -0 |
| 44P | 10090769-P44*ALF | 53.04 | 47.04 | 38.96 | 41.30 | 2.29 | 5.9 +0.25 -0 |



ACCESSORIES (HOODS)

| Plastic: Core Range PNs | Metalised: Core Range PNs | Metallic: Core Range PNs |
|-------------------------|---------------------------|--------------------------|
| 86303637BLF | 863093C09MLF | 8655MH0901BLF |
| 86303638BLF | 863093C15MLF | 8655MH1501BLF |
| 86303639BLF | 863093C25MLF | 8655MH2501BLF |

| Part Description | Part Number |
|--|------------------|
| Dsub High density straight 15 way solder pin | 10090928-P154VLF |
| Dsub High density straight 26 way solder pin | 10090928-P264VLF |
| Dsub High density straight 44 way solder pin | 10090928-P444VLF |
| Dsub High density straight 15 way solder socket | 10090929-S154VLF |
| Dsub High density straight 26 way solder socket | 10090929-S264VLF |
| Dsub High density straight 44 way solder socket | 10090929-S444VLF |
| Dsub High density straight 15 way solder pin | 10090928-P154XLF |
| Dsub High density straight 26 way solder pin | 10090928-P264XLF |
| Dsub High density straight 44 way solder pin | 10090928-P444XLF |
| Dsub High density straight 15 way solder socket | 10090929-S154XLF |
| Dsub High density straight 26 way solder socket | 10090929-S264XLF |
| Dsub High density straight 44 way solder socket | 10090929-S444XLF |
| Dsub High density right angle 15 way solder pin | 10090926-P154VLF |
| Dsub High density right angle 26 way solder pin | 10090926-P264VLF |
| Dsub High density right angle 44 way solder pin | 10090926-P444VLF |
| Dsub High density right angle 15 way solder socket | ICD15S13E4GV00LF |
| Dsub High density right angle 26 way solder socket | ICD26S13E4GV00LF |
| Dsub High density right angle 44 way solder socket | ICD44S13E4GV00LF |
| Dsub High density right angle 15 way solder pin | 10090926-P154XLF |
| Dsub High density right angle 26 way solder pin | 10090926-P264XLF |
| Dsub High density right angle 44 way solder pin | 10090926-P444XLF |

PART NUMBER LIST

| Part Description | Part Number |
|--|------------------|
| Dsub High density right angle 15 way solder socket | ICD15S13E4GX00LF |
| Dsub High density right angle 26 way solder socket | ICD26S13E4GX00LF |
| Dsub High density right angle 44 way solder socket | ICD44S13E4GX00LF |
| Dsub High density 15 way solder bucket pin | 10090769-P154ALF |
| Dsub High density 26 way solder bucket pin | 10090769-P264ALF |
| Dsub High density 44 way solder bucket pin | 10090769-P444ALF |
| Dsub High density 15 way solder bucket socket | 10090770-S154ALF |
| Dsub High density 26 way solder bucket socket | 10090770-S264ALF |
| Dsub High density 44 way solder bucket socket | 10090770-S444ALF |

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