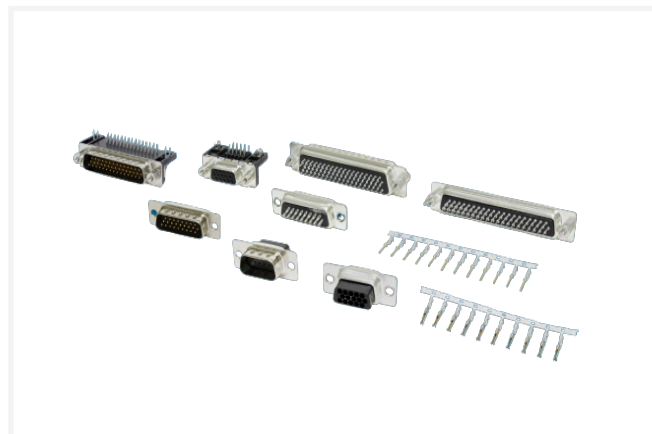


D-SUBMINIATURE HIGH DENSITY CONNECTORS

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

Series

Part Number

Male straight

10090928

Female straight

10090929

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

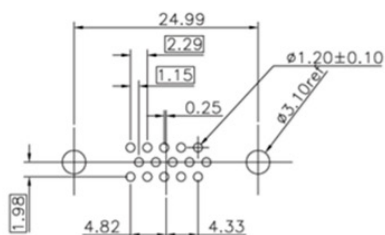
200 mating cycles

4

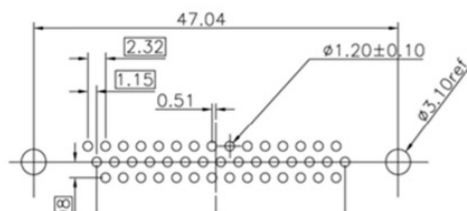
500 mating cycles

6

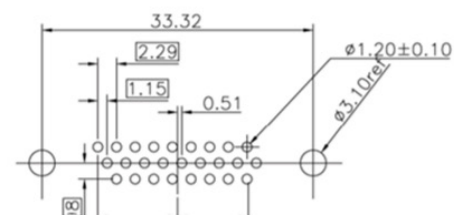
PCB LAYOUT



P.C.B LAYOUT (FOR 15P)



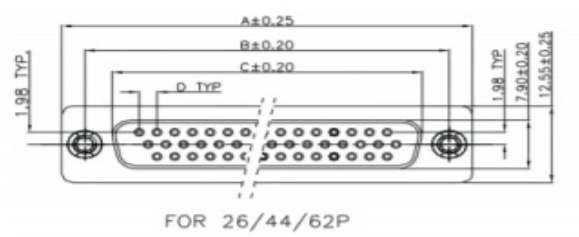
P.C.B LAYOUT (FOR 44P)



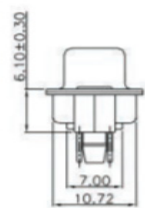
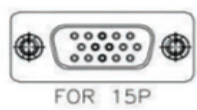
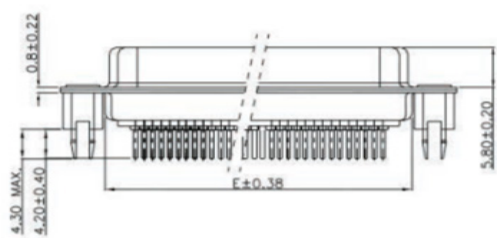
P.C.B LAYOUT (FOR 26P)

► 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



HIGH DENSITY D-SUBMINIATURE RIGHT ANGLE

ORDERING INFORMATION

SERIES

P

YY

4

X

LF

No Of Contacts

15

26

44

Gender

PinP

SocketS

Durability

200 mating cycles4

500 mating cycles6

RoHS status

RoHS compliant

Mounting Options

UNC 4-40 Screw locks with Board locksV

UNC 4-40 Clinch nuts with Board locksX

M3 Clinch nuts with Board locksL

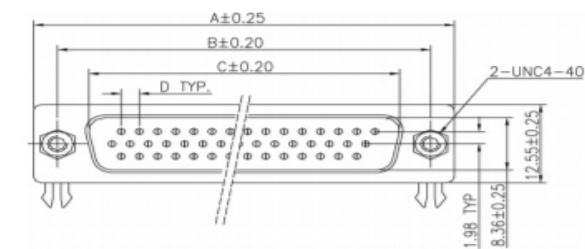
Series

Male Right Angle

Part Number

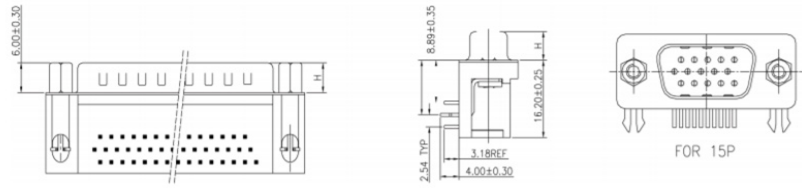
10090926

DIMENSION FOR MOUNTING OPTION ‘V’

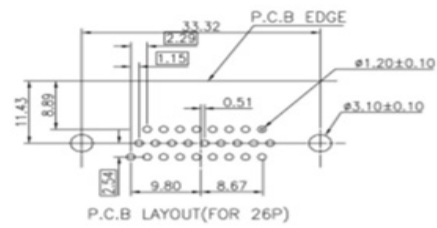
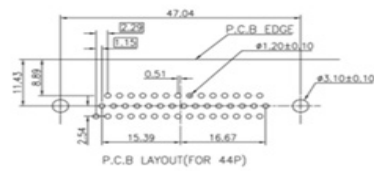
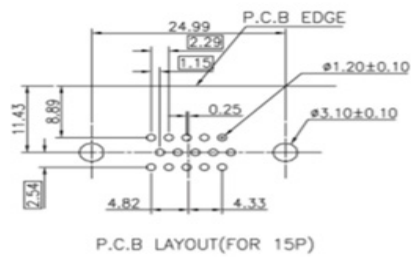


Pos.	Part Number	A	B	C	D	E	F	H
15P	10090926-P15*VLF	30.81	24.99	16.92	2.29	8.19	7.68	5.9 +0.25 -0
26P	10090926-P26*VLF	39.24	33.32	25.25	2.29	8.01	7.02	5.9 +0.25 -0
44P	10090926-P44*VLF	53.04	47.04	38.96	2.29	8.02	7.01	5.9 +0.25 -0

► D-SUBMINIATURE HIGH DENSITY CONNECTORS



PCB LAYOUT



HIGH DENSITY D-SUBMINIATURE RIGHT ANGLE FEMALE

UL RECOGNISED FILE E 118235 (R)



ICD

Series:
ICD

15

No Of Contacts

15

26

44

S

Contacts

Female

S

13E

Termination

Angled spills – US Standard, 3.18mm

13E

4

Durability

Standard class (≥200 mating/unmating)

4

High performance class (≥500 mating/unmating)

6

GX

Options

Standard series, RoHS compliant

00LF

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

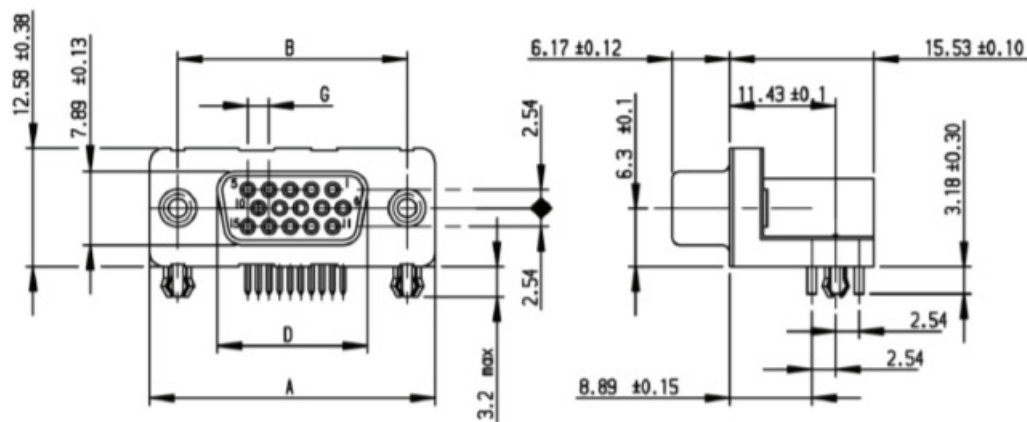
Insert UNC 4–40 + elec. continuity

UX

Female screw UNC 4–40 + elec. continuity

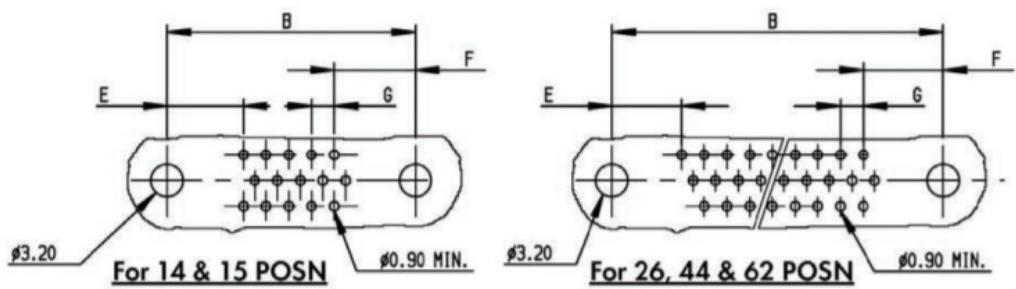
UV

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



HIGH DENSITY D-SUBMINIATURE SOLDER BUCKET

ORDERING INFORMATION

SERIES

P

YY

4

A

LF

No Of Contacts

15

26

44

Gender

PinP

SocketS

Durability

200 mating cycles4

500 mating cycles6

RoHS status

RoHS compliant

Mounting Options

Standard Hole

A

Description	Series
Male Solder Bucket	10090769
Female Solder Bucket	10090770

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[ICD26S13E4GL00LF](#) [ICD26S13E4GV00LF](#) [ICD26S13E4GX00LF](#) [ICD26S13E6GL00LF](#) [ICD26S13E6GV00LF](#)
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[P156XLF](#) [10090926-P264VLF](#) [10090926-P264XLF](#) [10090926-P266VLF](#) [10090926-P266XLF](#) [10090926-P444LLF](#)
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