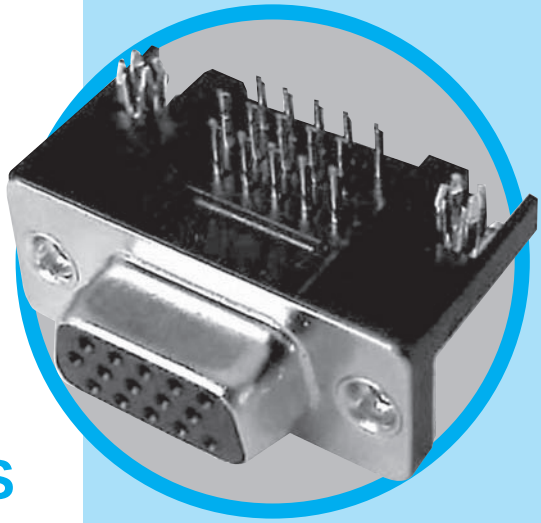
HD

D-Sub connectors - Stamped and Formed Contacts



RIGHT ANGLE
HIGH DENSITY CONNECTORS

MAIN CHARACTERISTICS

Specifications
- **Connectors according to: MIL C24308**
- **UL File:** E149426

Materials and Platings	
Shells	Steel, tin over nickel plating
Insulator	Glass-filled thermoplastic, UL 94V- 0
Contacts	Brass, selected gold in mating area; 2.54µm (100 µ") min.tin on termination area over 1.27µm (50µ") min.nickel
Rear insert	Brass, 2.54µm (100µ") min.nickel plated
Boardlock	Phosphor bronze or Brass, 2.54µm (100µ") min.nickel plated
Screwlock	Brass, 2.54µm (100µ") min.nickel plated

Electrical Data	
Current rating	3A
Voltage rating	250V AC/ rms 50Hz
Withstanding voltage	1000V AC/rms 50Hz for one minute
Insulation resistance	5000MΩ at 500V DC
Contact resistance	10mΩ max

Climatic Data	
Operating temperature	-55°C to +125°C
Salt spray	24 hours

Mechanical Data

Single contact insertion force 0.34kg (0.75lb) max.
Single contact withdrawal force 0.02kg (0.044lb) min.

Mating and unmating force
Unit: kg (lb)

No. of Cts	Mate (max)	Unmate (min)
15	3.81 (8.42)	0.52 (1.14)
26	5.95 (13.16)	1.05 (2.32)
44	9.26 (20.46)	1.37 (3.02)
62	13.48 (29.78)	1.76 (3.88)

Standard plating thickness
- Gold flash
- 0.4µm (15µ") Gold
- 0.76 µm (30µ") Gold

DESCRIPTION

Amphenol's high density D-Sub connectors complement Amphenol's extensive D-Sub connector line. This line offers many superior features, high performance level and low installation cost.

The decreased contact spacing accommodates greater signal density in comparison to conventional D-Sub connectors.

Economical right angle PCB mount connectors

APPLICATIONS

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

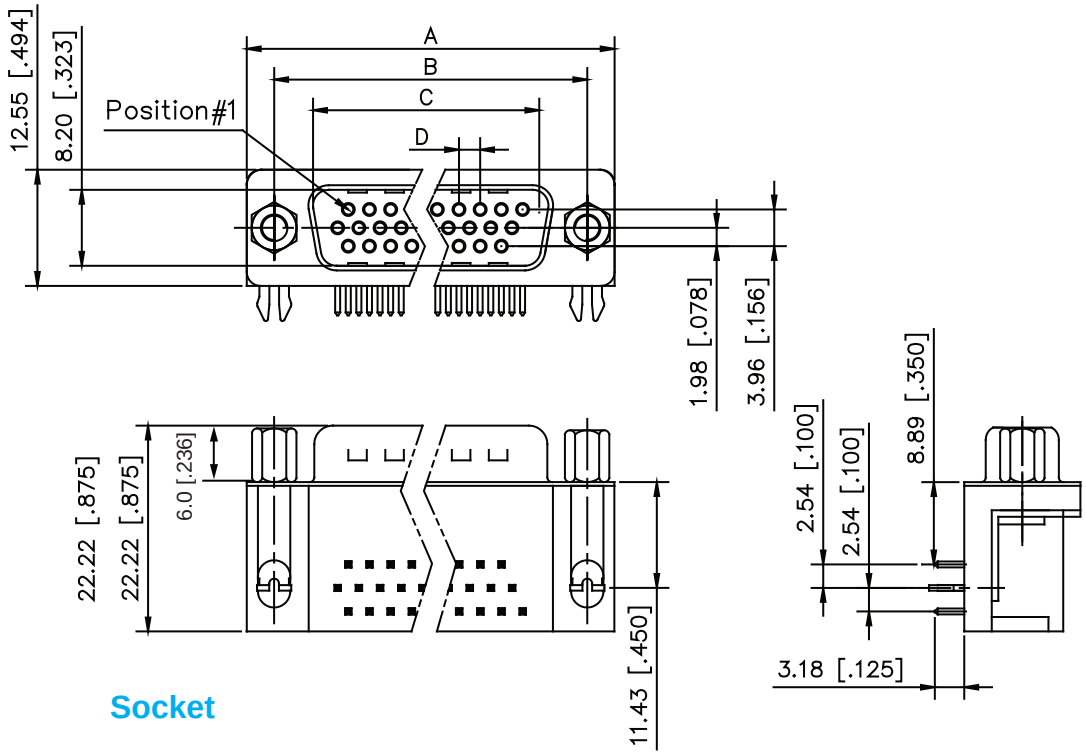
HD / E19

Amphenol RoHS Compliant EU 2002/95/EC

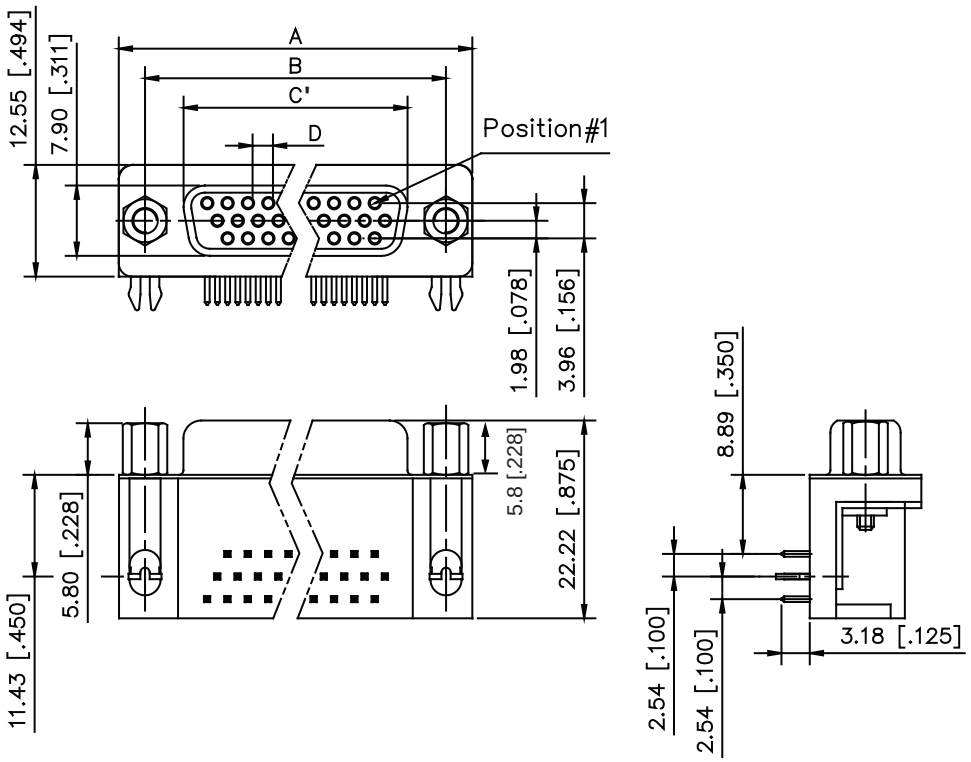
Amphenol

Shell size dimensions

Plug

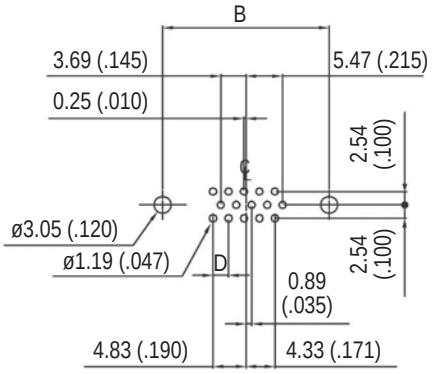


Socket

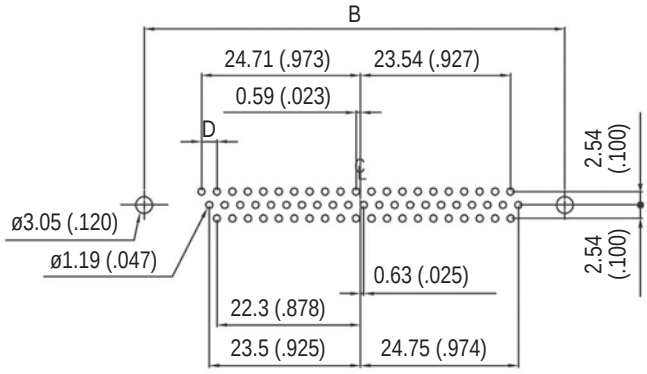


Nb OF CONTACTS	DIMENSIONS mm (inch)				
	A	B	C	C'	D
15	30.84 (1.214)	24.99 (.984)	16.92 (.661)	16.26 (.640)	2.29 (.090)
26	39.24 (1.545)	33.32 (1.312)	25.25 (.994)	24.56 (.967)	2.29 (.090)
44	53.04 (2.088)	47.04 (1.852)	38.96 (1.534)	38.30 (1.508)	2.29 (.090)
62	69.34 (2.730)	63.50 (2.500)	55.42 (2.182)	54.76 (2.156)	2.41 (.095)

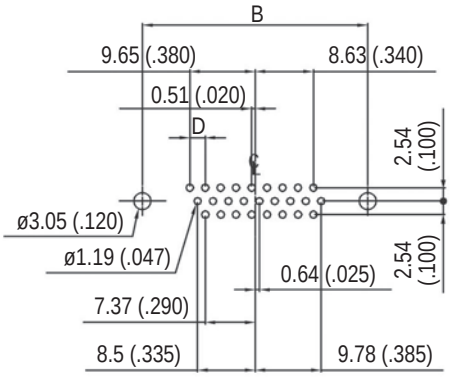
P.C.B. Layout



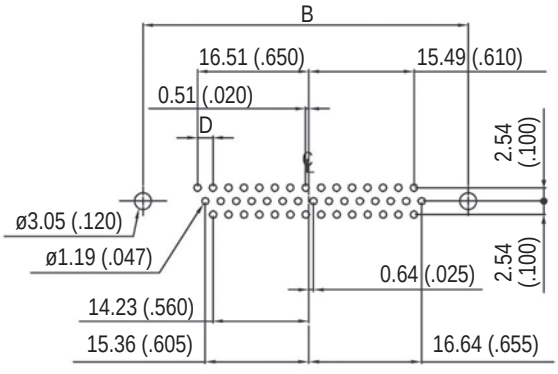
15 PIN



62 PIN



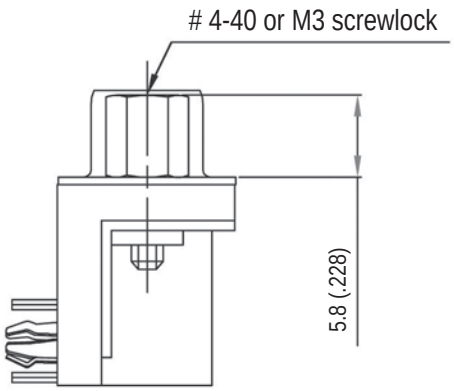
26 PIN



44 PIN

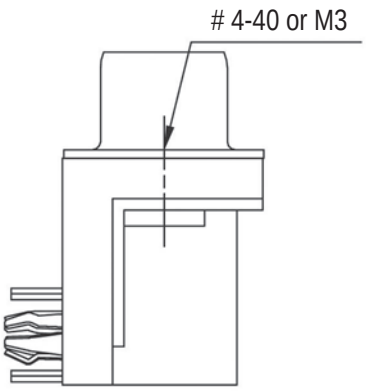
PCB layout for socket connector, top view

Panel mounting option



Front female screwlock

4F / 3F



Threaded rear insert

4R / 3R

How to order

L ... HD C309

RoHS Compliant

Gold flash	**77**: tinned shell for receptable **717**: tinned shell + dimples for plug
0.4µm (15µ")	**177**: tinned shell for receptable **777**: tinned shell + dimples for plug

Series
High density

Configuration
E15, A26, B44, C62

Contact type
P = Plug
S = Socket

Plating option
valid only for 0.76µm (30µ") part numbers to be written as follow:
or 77.....**C309**
717.....**C309**

Front mounting option
Blank = 3.05mm (.120") rivet
4R = 4-40 rear insert
4F = 4-40 front screwlock
3R = M3 rear insert
3F = M3 front screwlock

Grounding option
CO = Grounding bracket
CH = Grounding bracket + PCB boardlock
C4 = Grounding bracket + PCB 4-40 insert
C3 = Grounding bracket + PCB M3 insert

Footprint option
D0 = 1.5mm (.059")
D1 = 8.89mm (.350")
D2 = 5.08mm (.200")
D3 = 2.50mm (.098")

Examples: L 717 HD E15 P D1 CH 4R C309
L 177 HD A26 S D0 CO 3F

For special request, please consult factory

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

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