

# HD

D-Sub connectors - Stamped and Formed Contacts

## RIGHT ANGLE HIGH DENSITY CONNECTORS

### Specifications

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

### Materials and Platings

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

### Electrical Data

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

### Climatic Data

|                              |                 |
|------------------------------|-----------------|
| <b>Operating temperature</b> | -55°C to +125°C |
| <b>Salt spray</b>            | 24 hours        |

### Mechanical Data

|                                        |                       |
|----------------------------------------|-----------------------|
| <b>Single contact insertion force</b>  | 0.34kg (0.75lb) max.  |
| <b>Single contact withdrawal force</b> | 0.02kg (0.044lb) min. |

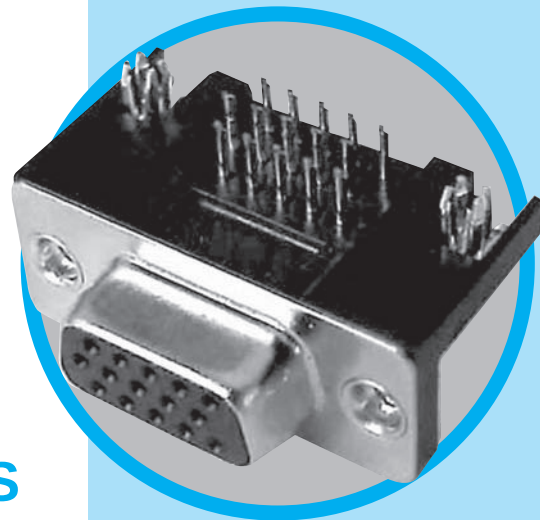
### Mating and unmating force

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

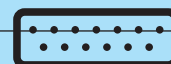
Amphenol's high density D-Sub connectors complement Amphenol's extensive D-Sub connector line. This line offers many superior features, high performance level and low installation cost.

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



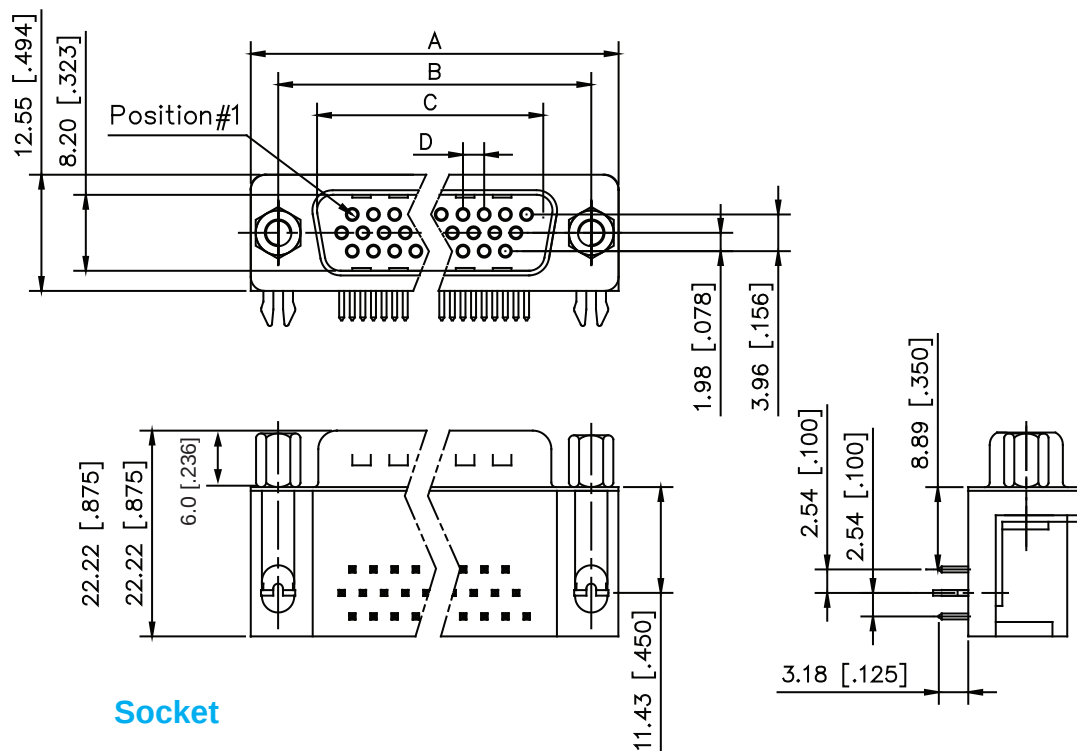
**Amphenol**

HD / E19

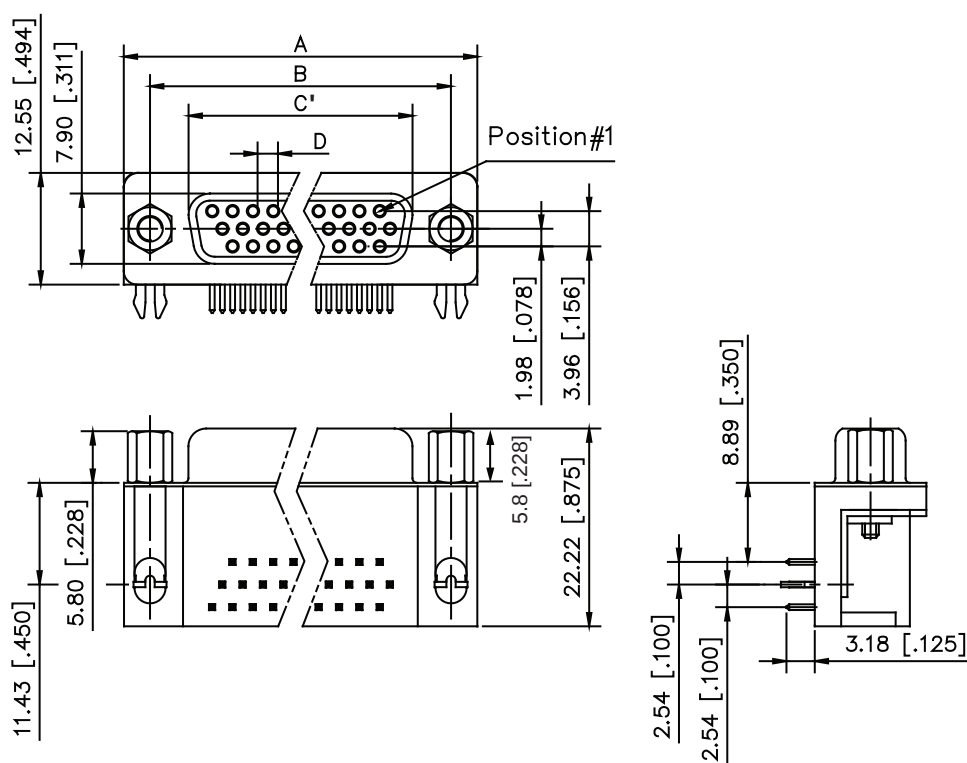
MAIN CHARACTERISTICS

# Shell size dimensions

## Plug

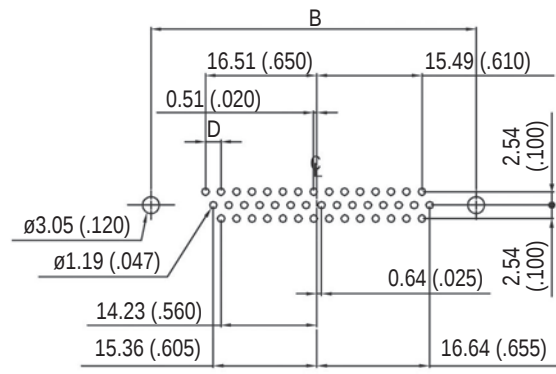
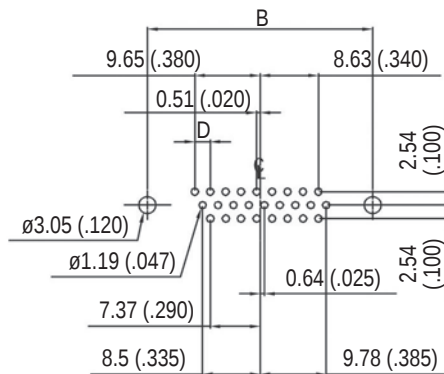
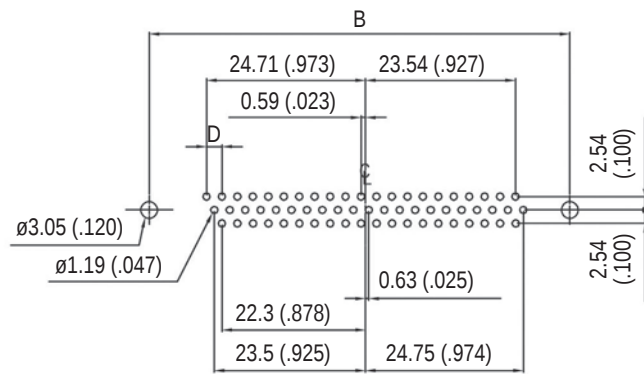
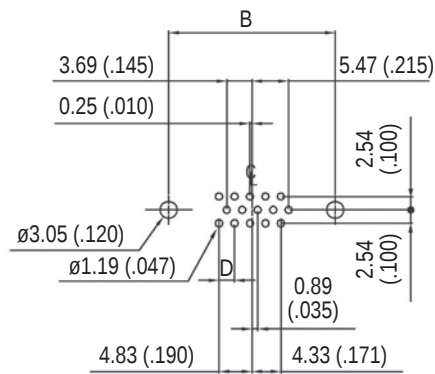


## Socket



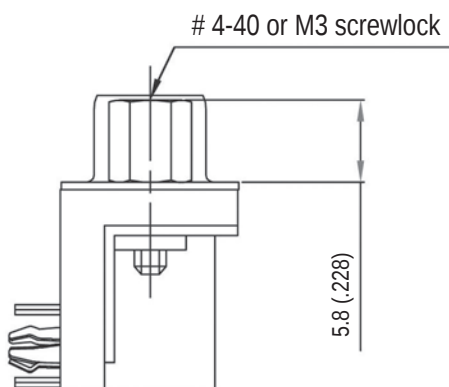
| Nb OF CONTACTS | DIMENSIONS mm (inch) |               |               |               |             |
|----------------|----------------------|---------------|---------------|---------------|-------------|
|                | A                    | B             | C             | C'            | D           |
| 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

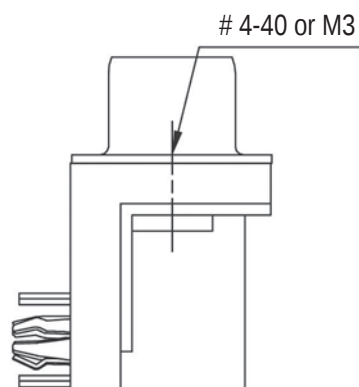


PCB layout for socket connector, top view

## Panel mounting option

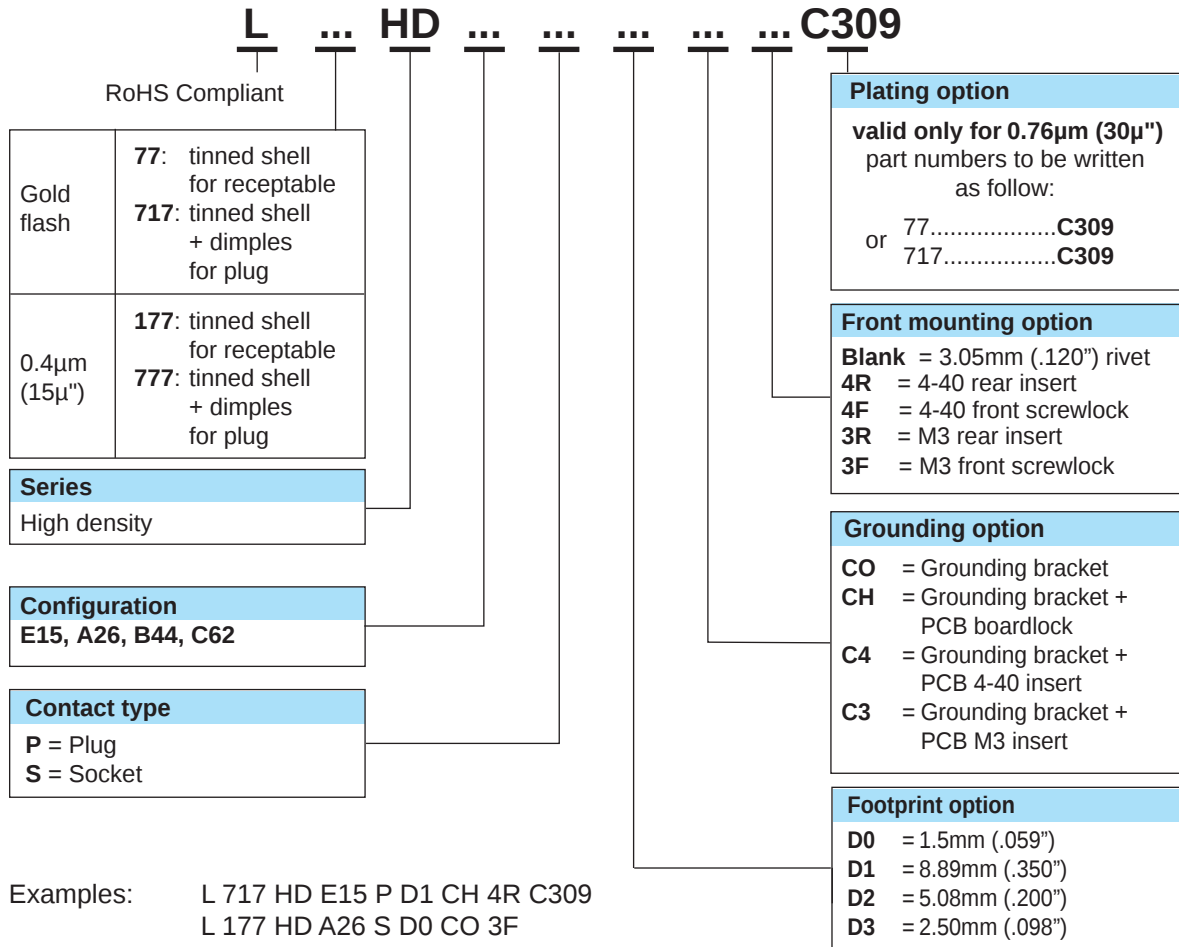


Front female screwlock  
4F / 3F



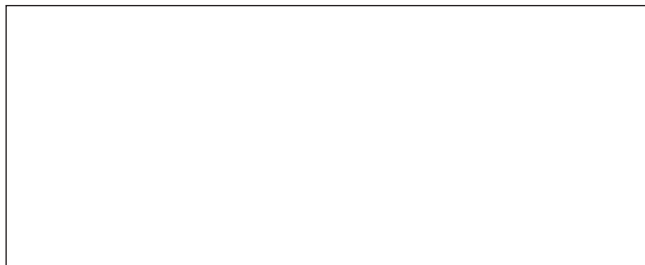
Threaded rear insert  
4R / 3R

## How to order



**For special request, please consult factory**

Do not hesitate to contact us for further information



# Amphenol

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