

# HD

D-Sub connectors - Stamped and Formed Contacts

## RIGHT ANGLE HIGH DENSITY CONNECTORS

### Specifications

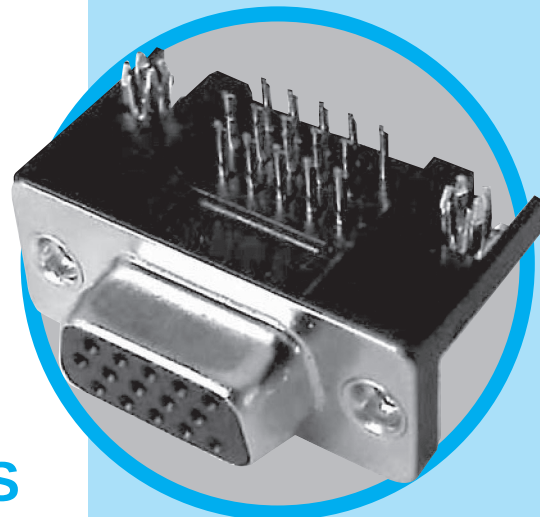
- Connectors according to: MIL C24308

| Materials and Platings |                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Shells</b>          | Steel, tin over nickel plating                                                                                                |
| <b>Insulator</b>       | Glass-filled thermoplastic, UL 94V- 0                                                                                         |
| <b>Pin 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>Socket contact</b>  | Phosphor bronze, selected gold in<br>mating area;2.54µ(100µ") min.tin<br>on 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                                                                                                        |                       |              |
|------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|
| 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                                                                                             |                       |              |
| <ul style="list-style-type: none"><li>• Gold flash</li><li>• 0.4μm (15μ") Gold</li><li>• 0.76 μm (30μ") Gold</li></ul> |                       |              |



### 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

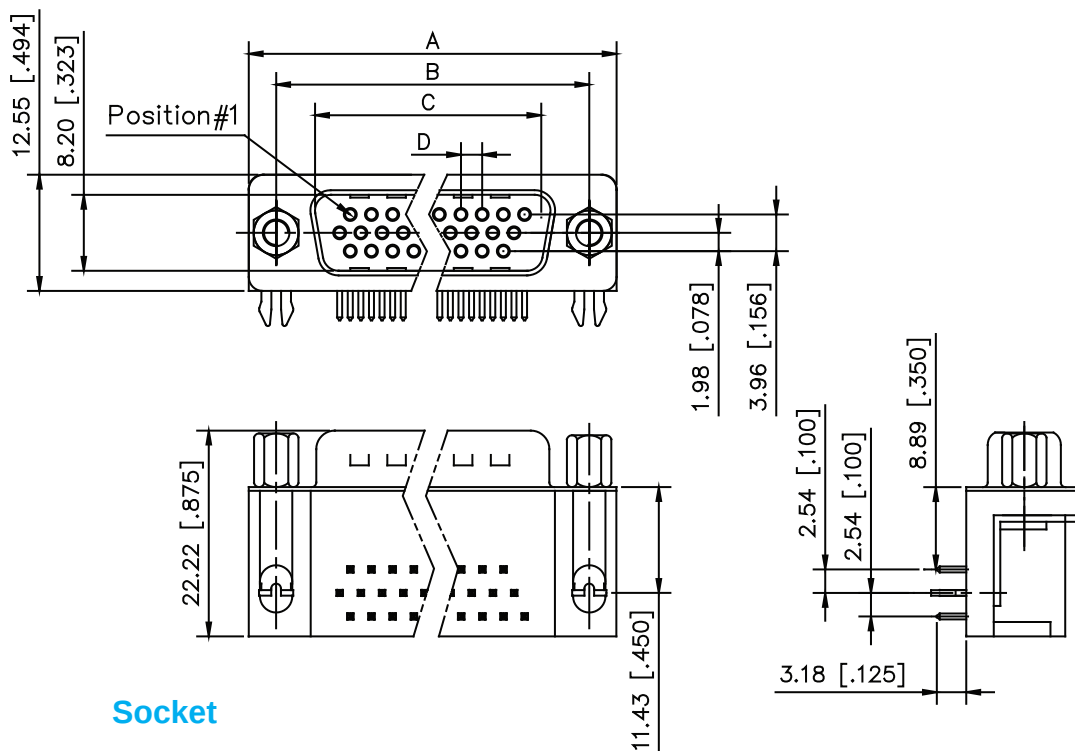


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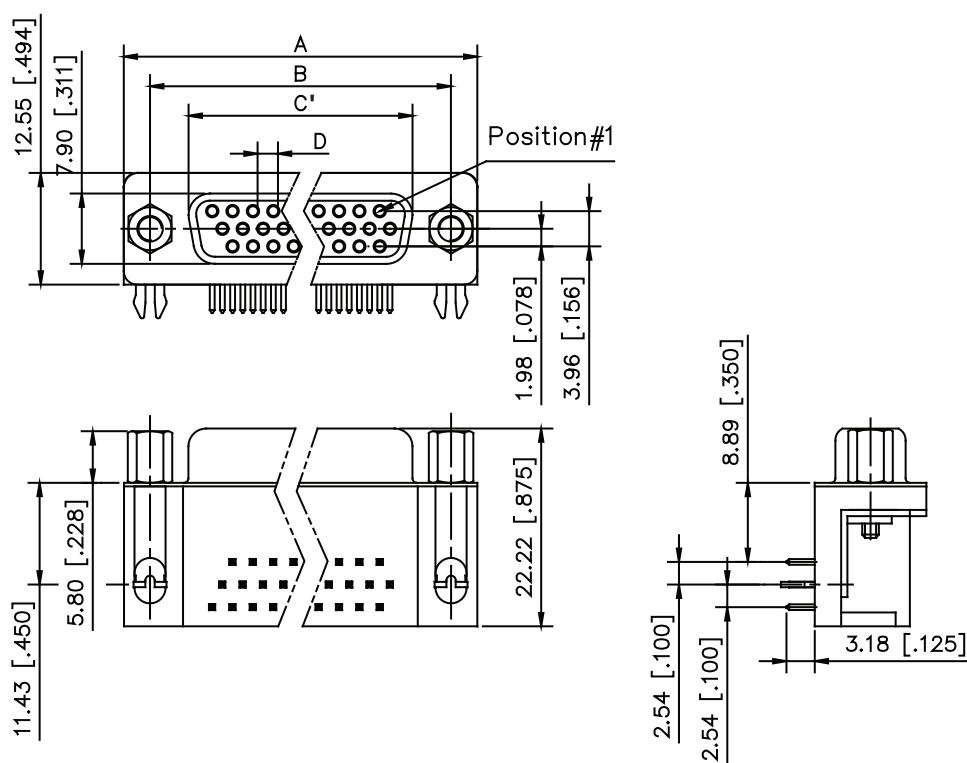
HD / E19

## Shell size dimensions

### Plug

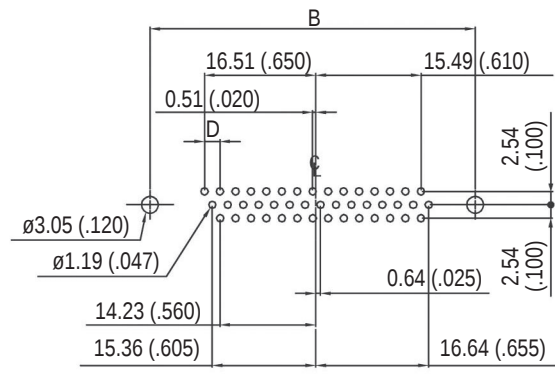
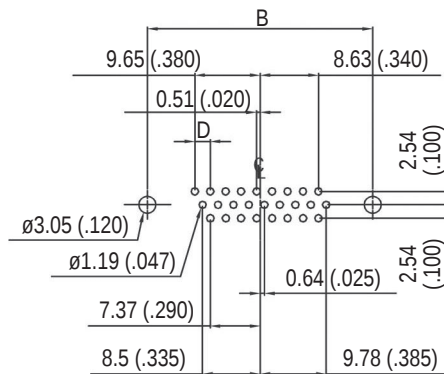
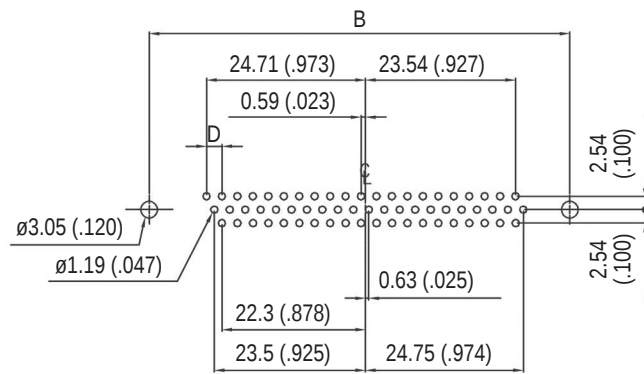
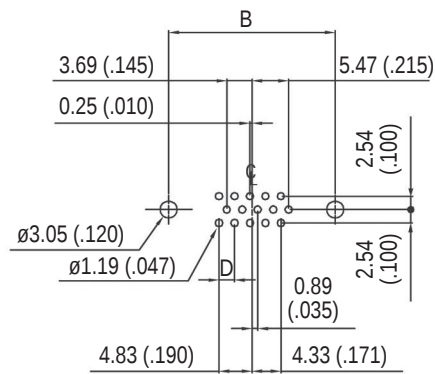


### Socket



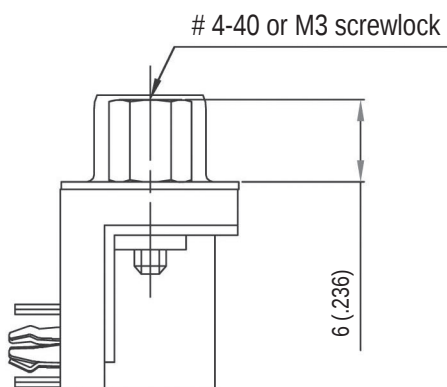
| NB OF CONTACTS | DIMENSIONS mm (inch) |               |               |               |             |
|----------------|----------------------|---------------|---------------|---------------|-------------|
|                | A                    | B             | C             | C'            | D 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

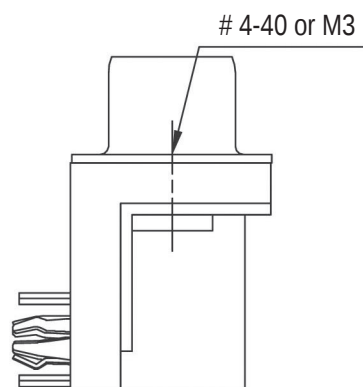


PCB layout for socket connector, top view

## Panel mounting option

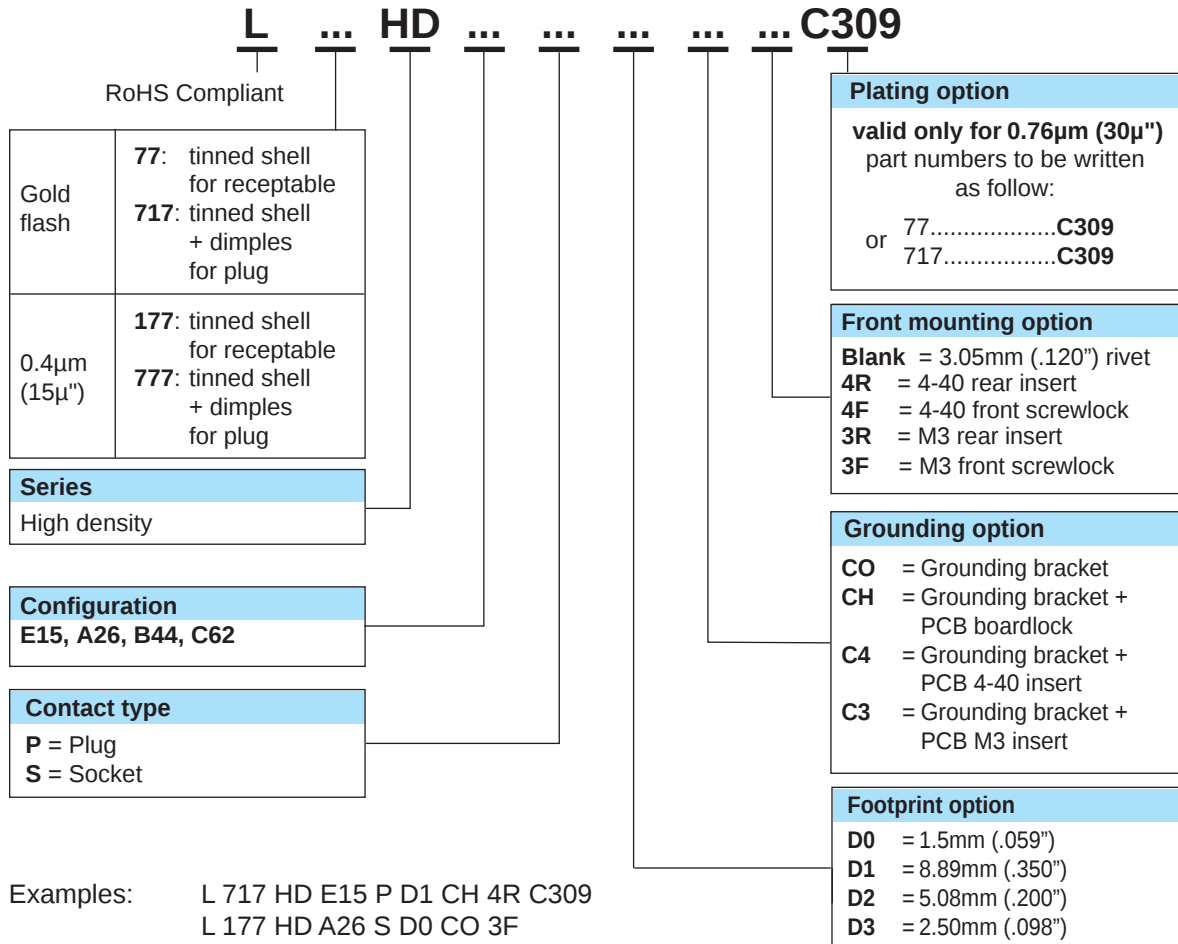


Front female screwlock  
4F / 3F



Threaded rear insert  
4R / 3R

## How to order



*For special request, please consult factory*

Do not hesitate to contact us for further information

# Amphenol

## 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>