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

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shells</td>
<td>Steel, tin over nickel plating</td>
</tr>
<tr>
<td>Insulator</td>
<td>Glass-filled thermoplastic, UL 94V-0</td>
</tr>
<tr>
<td>Contacts</td>
<td>Brass, selected gold in mating area; 2.54µm (100 µ&quot;) min. tin on termination area over 1.27µm (50µ&quot;) min. nickel</td>
</tr>
<tr>
<td>Rear insert</td>
<td>Brass, 2.54µm (100µ&quot;) min. nickel plated</td>
</tr>
<tr>
<td>Boardlock</td>
<td>Phosphor bronze or Brass, 2.54µm (100µ&quot;) min. nickel plated</td>
</tr>
<tr>
<td>Screwlock</td>
<td>Brass, 2.54µm (100µ&quot;) min. nickel plated</td>
</tr>
</tbody>
</table>

Electrical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current rating</td>
<td>3A</td>
</tr>
<tr>
<td>Voltage rating</td>
<td>250V AC/ rms 50Hz</td>
</tr>
<tr>
<td>Withstanding voltage</td>
<td>1000V AC/rms 50Hz for one minute</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>5000MO at 500V DC</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>10mΩ max</td>
</tr>
</tbody>
</table>

Climatic Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>-55°C to +125°C</td>
</tr>
<tr>
<td>Salt spray</td>
<td>24 hours</td>
</tr>
</tbody>
</table>

Mechanical Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single contact insertion</td>
<td>0.34kg (0.75lb) max.</td>
</tr>
<tr>
<td>Single contact withdrawal</td>
<td>0.02kg (0.044lb) min.</td>
</tr>
</tbody>
</table>

Mating and unmating force

<table>
<thead>
<tr>
<th>No. of Cts</th>
<th>Mate (max)</th>
<th>Unmate (min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>3.81 (8.42)</td>
<td>0.52 (1.14)</td>
</tr>
<tr>
<td>26</td>
<td>5.95 (13.16)</td>
<td>1.05 (2.32)</td>
</tr>
<tr>
<td>44</td>
<td>9.26 (20.46)</td>
<td>1.37 (3.02)</td>
</tr>
<tr>
<td>62</td>
<td>13.48 (29.78)</td>
<td>1.76 (3.88)</td>
</tr>
</tbody>
</table>

Standard plating thickness

• Gold flash
• 0.4µm (15µ") Gold
• 0.76 µm (30µ") Gold

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

• Industrial
• Telecom
• Any industry standard I/O connections
**Shell size dimensions**

### Plug

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

### Socket
**P.C.B. Layout**

**TECHNICAL DATA**

**HD / E19**

**Front female screwlock**

<table>
<thead>
<tr>
<th>Type</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>4F / 3F</td>
<td>3.69 (1.45)</td>
</tr>
<tr>
<td>4R / 3R</td>
<td>9.65 (0.380)</td>
</tr>
</tbody>
</table>

**Threaded rear insert**

<table>
<thead>
<tr>
<th>Type</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>4F / 3F</td>
<td>Ø3.05 (0.120)</td>
</tr>
<tr>
<td>4R / 3R</td>
<td>Ø1.19 (0.047)</td>
</tr>
</tbody>
</table>

PCB layout for socket connector, top view

**Panel mounting option**

Front female screwlock

4F / 3F

Threaded rear insert

4R / 3R
How to order

RoHS Compliant
Gold flash
77: tinned shell for receptacle
177: tinned shell for plug

0.4µm (15"")
717: tinned shell + dimples for receptacle
777: tinned shell + dimples for plug

Series
High density

Configuration
E15, A26, B44, C62

Contact type
P = Plug
S = Socket

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

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

Front mounting option
Blank = 3.05mm (.120") rivet
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")

For special request, please consult factory

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Block A3/A4, The 4th Industrial District of Industrial Headquarters, Dong Keng Road Gong Ming Town, Shen Zhen China
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Do not hesitate to contact us for further information
Amphenol:

L177HDA26S L177HDA26SD1CH3F L177HDA26SD1CH3R L177HDA26SD1CH4F L177HDA26SD1CH4R
L177HDA26SOL2 L177HDA26SVF L177HDA26SVFM L177HDAG26S L177HDAG26SOL2 L177HDAG26SOL2RM5
L177HDAG26SOL2RM8 L177HDAG26SOL2RM9 L177HDAG26SOL2RM5 L177HDAG26SOL2RM8
L177HDB44S L177HDB44SD1CH3F L177HDB44SD1CH3R L177HDB44SD1CH4F L177HDB44SD1CH4R
L177HDB44SOL2 L177HDB44SVF L177HDB44SVFM L177HDBG44S L177HDBG44SOL2 L177HDBG44SOL2RM5
L177HDBG44SOL2RM8 L177HDBH44S L177HDBH44SOL2 L177HDBH44SOL2RM5 L177HDBH44SOL2RM8
L177HDC62S L177HDC62SD1CH3F L177HDC62SD1CH3R L177HDC62SD1CH4F L177HDC62SD1CH4R
L177HDC62SOL2 L177HDC62SVF L177HDC62SVFM L177HDCG62S L177HDCG62SOL2 L177HDCG62SOL2RM5
L177HDCG62SOL2RM8 L177HDCG62SOL2RM9 L177HDCG62SOL2RM5 L177HDCG62SOL2RM8
L177HDD78S L177HDD78SOL2 L177HDD78SVF L177HDD78SVFM L177HDDG78S L177HDDG78SOL2
L177HDDG78SOL2RM5 L177HDDG78SOL2RM8 L177HDDH78S L177HDDH78SOL2 L177HDDH78SOL2RM8
L177HDE15S L177HDE15SD1CH3F L177HDE15SD1CH3R L177HDE15SD1CH4F L177HDE15SD1CH4R
L177HDE15SOL2 L177HDE15SVF L177HDE15SVFM L177HDEG15S L177HDEG15SOL2 L177HDEG15SOL2RM5
L177HDEG15SOL2RM8 L177HDEH15S L177HDEH15SOL2 L177HDEH15SOL2RM5 L177HDEH15SOL2RM8
L717HDA26P L717HDA26PC309 L717HDA26PD1CH3F L717HDA26PD1CH3FC309 L717HDA26PD1CH3R
L717HDA26PD1CH3RC309 L717HDA26PD1CH4F L717HDA26PD1CH4FC309 L717HDA26PD1CH4R
L717HDA26PD1CH4RC309 L717HDA26POL2 L717HDA26POL2C309 L717HDA26PVFC309 L717HDA26PVFM
L717HDA26PVFMC309 L717HDAG26P L717HDAG26PC309 L717HDAG26POL2 L717HDAG26POL2C309
L717HDAG26POL2RM5 L717HDAG26POL2RM5C309 L717HDAG26POL2RM8 L717HDAG26POL2RM8C309
L717HDAH26P L717HDAH26PC309