The Amphenol "SD" series features precision formed contacts, and insulator with closed entry contacts cavities.

This series gives you Amphenol's high standards of quality and reliability to meet all of your commercial requirements.

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

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>SD / E5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Materials and Platings</strong></td>
<td></td>
</tr>
<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 (100µ&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>Screwlock</td>
<td>Brass, 2.54µm (100µ&quot;) min. nickel plated</td>
</tr>
</tbody>
</table>

**Electrical Data**
- **Current rating**
  - Standard Density: 5A
  - High Density: 3A
- **Voltage rating** 250V AC/rms 50Hz
- **Withstanding voltage** 1000V AC/rms 50Hz for one minute
- **Insulation resistance** 1000ΜΩ at 500V DC
- **Contact resistance** 20mΩ max

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

**Mechanical Data**
- **Single contact insertion force** 0.54kg (1.19lb) max
- **Single contact withdrawal force**
  - SD : 0.06kg (0.13lb) min
  - HD : 0.02kg (0.044lb) min
- **Mating and unmatting force**
  - Unit: kg (lb)
<table>
<thead>
<tr>
<th>No. of Cts</th>
<th>SD</th>
<th>HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD</td>
<td>15</td>
<td>26</td>
</tr>
<tr>
<td>3.05 (6.74)</td>
<td>5.09 (11.24)</td>
<td>8.44 (18.66)</td>
</tr>
<tr>
<td>HD</td>
<td>9</td>
<td>15</td>
</tr>
<tr>
<td>3.81 (8.42)</td>
<td>5.95 (13.16)</td>
<td>9.26 (20.46)</td>
</tr>
</tbody>
</table>

- **Standard plating thickness**
  - gold flash
  - 0.4µm (15µ") gold
  - 0.76 µm (30µ") gold
High Density

OVERALL DIMENSIONS

<table>
<thead>
<tr>
<th>Nb OF CONTACTS</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>30.84 (1.21)</td>
<td>24.99 (.98)</td>
<td>16.92 (.67)</td>
<td>16.24 (.64)</td>
<td>19.28 (.76)</td>
</tr>
<tr>
<td>26</td>
<td>39.24 (1.54)</td>
<td>33.32 (1.31)</td>
<td>24.7 (.972)</td>
<td>24.56 (.97)</td>
<td>27.51 (1.08)</td>
</tr>
<tr>
<td>44</td>
<td>53.04 (2.09)</td>
<td>47.04 (1.85)</td>
<td>38.96 (1.53)</td>
<td>38.38 (1.51)</td>
<td>41.30 (1.63)</td>
</tr>
<tr>
<td>62</td>
<td>69.32 (2.73)</td>
<td>63.50 (2.50)</td>
<td>55.42 (2.18)</td>
<td>54.76 (2.16)</td>
<td>57.71 (2.27)</td>
</tr>
<tr>
<td>78</td>
<td>67 (2.64)</td>
<td>61.11 (2.41)</td>
<td>52.86 (2.08)</td>
<td>52.34 (2.06)</td>
<td>55.3 (2.18)</td>
</tr>
</tbody>
</table>
Panel mounting option

M3 or #4-40 screwlock

Female Screwlock
VF / VFM

Fixed Female Screwlock
4F / 3F

Threaded Rear Insert
H / G

How to order

Examples: L 717 SD E H 09 P VF C309
L 77 SD E 09 S 4F

RoHS Compliant

Gold flash

77: tinned shell for receptacle
717: tinned shell + dimples for plug

0.4µm (15")

177: tinned shell for receptacle
777: tinned shell + dimples for plug

Density:

SD = Standard density
HD = High density

Shell size:

<table>
<thead>
<tr>
<th>E</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>15</td>
<td>25</td>
<td>37</td>
<td>50</td>
</tr>
<tr>
<td>15</td>
<td>26</td>
<td>44</td>
<td>62</td>
<td>78</td>
</tr>
</tbody>
</table>

Rear mounting option:

H = Rear insert 4-40
G = Rear insert M3
H or G required with VF or VFM

Plating option:

valid only for 0.76µm (30")
part numbers to be written as follow:
or

77..............C309
717..............C309

Front mounting option:

no digit = 3.05mm rivet
4F = Fixed screwlock 4-40
3F = Fixed screwlock M3
VF = Screwlock 4-40
VFM = Screwlock M3

Contact type:

P = Plug
S = Socket

Configuration:

09,15,25,37,50 = SD
15,26,44,62,78 = HD

For special request, please consult factory

Do not hesitate to contact us for further information