The dimensions of the Subminiature - D - Connectors are according to MIL-C-24308 and are compatible with all Sub - D - Connectors on the market. The high number of poles or a small space make these connectors especially suitable for office machines, computers, telecommunication equipment as well as for industrial control and data processing equipment.

Hoods, locking devices and additional accessories give the opportunity of a broad field of application of this worldwide introduced connection system. The trapezium shaped shell provides protection against mechanical impact, EMI shielding and polarization. Special versions, e.g., partly inserted contacts or 180° degree turned, are available on special request.

**TECHNICAL DATA**

**MECHANICAL**
- **Hand Solder**
- **Dip Solder Insight**
- **Dip Solder 50°C**
- **Wire Wrap 0.6 × 0.8mm**
- **Polarization:** by trapezoidal shell
- **Coupling:** by friction, locking by special accessories
- **Withdrawal force:** ca. 0.5 N per contact
- **Material and Finishes:** Shell steel with yellow passivation over zinc plate (standard), steel nickel plated and tin plated
- **Insulators:** Two part mouldings, polyester, Black rear flange according UL 94 V0
- **Contacts:** Copper alloy gold plated over nickel.
- **Inversion Cycles:** 500

**ELECTRICAL**
- **Cautious Current Stability:** 1000V RMS
- **Working Current:** 5A per contact with 20AWG cable
- **Working Voltage:** 300V RMS
- **Test Voltage:** 1000V RMS
- **Contact Resistance:** below 5 × 10⁻³ Ω
- **Insulation Resistance:** over 10MΩ
- **Temperature Range:** minus 55°C to 125°C

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**In2Connect**

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Hampshire, SO24 0WX, UK

Phone: +44 7977 040592
Fax: +44 1962 736726
Email: in2connect@aol.com
### PART NUMBERS

#### STANDARD CONNECTORS
(Turned Contacts)

<table>
<thead>
<tr>
<th>D</th>
<th>P</th>
<th>S</th>
<th>09</th>
<th>15</th>
<th>25</th>
<th>37</th>
<th>50</th>
<th>Z</th>
<th>Y</th>
<th>R</th>
<th>W</th>
<th>N</th>
<th>S</th>
</tr>
</thead>
</table>

#### OPTIONAL EXTRAS

- HBA
- MBE
- MBS
- MBT
- BL
- X
- SBE
- SBT
- SBH
- MBH

<table>
<thead>
<tr>
<th>i</th>
<th>ii</th>
<th>iii</th>
<th>iv</th>
<th>v</th>
<th>vi</th>
<th>vii</th>
<th>viii</th>
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<tbody>
<tr>
<td>‘D’ Connector</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Plug or socket P or S</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Numbers of ways</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type of termination</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Normal zinc shells or screened tin/tin and dimple N or S</td>
<td></td>
<td></td>
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<tr>
<td>Board locks</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>See drawing</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>
TERMINATION TYPES/DIMENSIONS/MOUNTINGS

TYPE Z
Solder bucket for hand soldering, diameter 1.0mm

TYPE Y
Straight pins for flow soldering to PCB, pin diameter 0.6mm

TYPE R
90° right angled pins for flow soldering to PCB, pin diameter 0.6mm

TYPE W
Wire wrap, terminals 0.6mm square, length 12.0mm

SHELL DIMENSIONS

PANEL CUTOUT

<table>
<thead>
<tr>
<th>WAY</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<tbody>
<tr>
<td>9</td>
<td>30.8</td>
<td>25.0</td>
<td>12.4</td>
<td>22.2</td>
<td>13.0</td>
<td>20.5</td>
<td>11.4</td>
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<tr>
<td>15</td>
<td>39.2</td>
<td>33.3</td>
<td>12.4</td>
<td>30.5</td>
<td>13.0</td>
<td>28.8</td>
<td>11.4</td>
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<tr>
<td>25</td>
<td>53.1</td>
<td>47.0</td>
<td>12.4</td>
<td>44.3</td>
<td>13.0</td>
<td>42.5</td>
<td>11.4</td>
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<tr>
<td>37</td>
<td>69.5</td>
<td>63.5</td>
<td>12.4</td>
<td>60.7</td>
<td>13.0</td>
<td>59.1</td>
<td>11.4</td>
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<tr>
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<td>67</td>
<td>61.1</td>
<td>15.4</td>
<td>58.3</td>
<td>13.0</td>
<td>56.3</td>
<td>14.1</td>
</tr>
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</table>

Dimension - mm.
Face view of plug - Rear view of socket.

<table>
<thead>
<tr>
<th></th>
<th>A ± 0.1</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E min.</th>
<th>F</th>
<th>PCB G STRAIGHT</th>
<th>PCB 90°</th>
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<tbody>
<tr>
<td>9 WAY</td>
<td>25.0</td>
<td>10.96</td>
<td>1.37</td>
<td>2.74</td>
<td>3.2</td>
<td>0.9</td>
<td>2.84</td>
<td>2.54</td>
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<tr>
<td>15 WAY</td>
<td>33.3</td>
<td>19.18</td>
<td>1.37</td>
<td>2.74</td>
<td>3.2</td>
<td>0.9</td>
<td>2.84</td>
<td>2.54</td>
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<tr>
<td>25 WAY</td>
<td>47.05</td>
<td>33.12</td>
<td>1.38</td>
<td>2.76</td>
<td>3.2</td>
<td>0.9</td>
<td>2.84</td>
<td>2.54</td>
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<tr>
<td>37 WAY</td>
<td>63.5</td>
<td>49.68</td>
<td>1.38</td>
<td>2.76</td>
<td>3.2</td>
<td>0.9</td>
<td>2.84</td>
<td>2.54</td>
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<tr>
<td>50 WAY</td>
<td></td>
<td>44.16</td>
<td>1.38</td>
<td>2.76</td>
<td>3.2</td>
<td>0.9</td>
<td>2.84</td>
<td>2.54</td>
</tr>
</tbody>
</table>

Dimension - mm.
Female screwlock in steel supplied in pairs. Kit includes 2 posts, 2 spring washers, 4 plain washers, 2 nuts. Inner and outer threads 4.40 UNC (Equivalent to 20418 - 2). Special threads and lengths available.

Male screwlock in steel supplied in pairs. Thread 4.40 UNC (Equivalent to 20419 - 2).

Threaded spacer or stand-off 4.40 UNC. Suitable for cable-cable and straight printed circuit mounting.

One piece mounting bracket, moulded in black glass-filled nylon. Used for right angled, printed circuit connectors.

Steel mounting brackets with a range of hole sizes and thread choices, supplied in pairs.

15 way sub-D-connector shell with moulded insulator for removable miniature co-axials, plug and socket.