**PCB layouts**

Plug viewed from above, socket viewed from below.

**High Density D only**

Plug viewed from above, socket viewed from below.

---

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Contact Arrangement</th>
<th>A CRS</th>
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<tbody>
<tr>
<td>9</td>
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<tr>
<td>15</td>
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<td>37</td>
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<td>50</td>
<td>61.10</td>
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</tbody>
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**DIMENSIONS**

<table>
<thead>
<tr>
<th>Contact Arrangement</th>
<th>Straight p.c.</th>
<th>90° p.c.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>1.98</td>
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<tr>
<td>26</td>
<td>1.98</td>
<td>2.54</td>
</tr>
<tr>
<td>44</td>
<td>1.98</td>
<td>2.54</td>
</tr>
<tr>
<td>62</td>
<td>1.98</td>
<td>2.54</td>
</tr>
<tr>
<td>78</td>
<td>2.08</td>
<td>2.54</td>
</tr>
</tbody>
</table>
## Accessory Information

A range of accessories are available including automatic and hand crimp tools, insertion and extraction tools - ask our sales office for details.

*Due to our policy of continuous product development, ITW McMurdo Connectors retain the right to change the specification at any time without prior notice. Designed & printed in the UK.*
D range

Special D
- COMMERCIAL D SUB-MINIATURE

Standard D
- HIGH PERFORMANCE D SUB-MINIATURE

Crimp D
- FLEXIBLE AND FAST ASSEMBLY D SUB-MINIATURE

High Density D
- INCREASED DENSITY D SUB-MINIATURE

D Accessories

ITW McMurdo Connectors
Special D

A range of D connectors utilising stamped and formed or turned contacts to provide a low cost option for commercial applications.

FEATURES

Choice of three termination styles – solder bucket, straight p.c. and 90° p.c.

Threaded inserts on 90° p.c. versions as standard – accepts a wide range of mounting hardware.

Tinned and dimpled shell options – for EMI/RFI shielding.

Optional solderable boardlock features for 90° p.c. types - reduces installation time.

Standard D

Designed for demanding industrial applications, McMurdo’s D connectors offer precision turned contacts in two performance levels: Standard D offers a minimum of 500 operations. Budget D has been developed for harsh industrial applications offering 300 operations.

FEATURES

Standard D meets the most demanding requirements.

Precision turned contacts.

Available in five shell sizes, providing up to 50 contacts.

Solder bucket, straight p.c., 90° p.c. and wire wrapping termination styles – to suit all your applications.

Tinned and dimpled shell options – for EMI/RFI shielding.

Wide range of accessories – greater user flexibility.

All ranges: male
### Technical Data

#### FEATURES
- Shell: Steel plated zinc/yellow passivate or tin
- Insulator: Thermoplastic rated UL94V-O
- Contact: Copper alloy plated hard acid gold

#### MECHANICAL
- Temperature range: -55°C to +105°C

#### ELECTRICAL
- Current – individual contact (in isolation) at 70°C: 3A, 2A
- All contacts (simultaneously) at 70°C: 6.5A, 3.3A
- Working voltage (DC or AC PEAK): 350V, 1500V
- Proof voltage (DC or AC PEAK): 1500V, 1000V
- Contact resistance: 15mΩ max, 10mΩ max
- Insulation resistance: 5000mΩ min, 1000mΩ min

#### Contact Arrangement

<table>
<thead>
<tr>
<th>Shell size</th>
<th>No of Contacts</th>
<th>E Std</th>
<th>F Std</th>
<th>R Std</th>
<th>E Float</th>
<th>F Float</th>
<th>R Float</th>
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<tbody>
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<td>25.00</td>
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<tr>
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<td>3.50</td>
<td>44.14</td>
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<td>3.50</td>
<td>58.21</td>
<td>57.02</td>
<td>2.25</td>
</tr>
</tbody>
</table>

#### Rear Panel Mounting

![Rear Panel Mounting Diagram](image)

#### Front Panel Mounting

![Front Panel Mounting Diagram](image)
Crimp D

FLEXIBLE AND FAST ASSEMBLY D SUB-MINIATURE

Maximum flexibility and reduced assembly costs are achieved through full or partial loading of selectively plated stamped and formed contacts.

**FEATURES**

- Replaceable contacts – no connector wastage.
- Complete selection of crimp tooling enables quick assembly.
- Two contact performance levels – Budget for commercial and Standard for industrial applications.
- Wire strip length 2.4 ± 0.2mm.
- Accepts wire sizes of 20 to 28 AWG – offers greater flexibility.
- Tinned and dimpled shell options – for effective EMI/RFI shielding.

ASSEMBLY TOOLS AND HAND TOOLS

Hand Crimp Tool MP600-D/HD
Insertion/extraction tool MP601-D or MP601-HD

High Density D

INCREASED DENSITY D SUB-MINIATURE

Increased contact density is provided in five industry standard shell sizes providing up to 78 contacts. A choice of four termination styles including crimp are available making this range one of the most versatile.

**FEATURES**

- Tinned and dimpled shell as standard for enhanced electrical continuity and effective EMI/RFI shielding.
- Threaded inserts - enable quick assembly of mounting hardware to 90° p.c. versions.
- Solder bucket, straight p.c. 90° p.c. and crimp termination styles.
- Optional screwlocks and solderable boardlocks fitted to 90° p.c. versions.
- Compatible with Standard D range accessories.

All ranges: female