Features

Cinch Connectors 'J' connectors incorporate patented resilient finger contacts.

Twelve fingers engage with each flat plug pin to provide low contract resistance, high current carrying capacity and minimum insertion and withdrawal forces.

These special features help to provide a thoroughly reliable connector, enhanced by Mk.2 shells moulded in grey high impact thermoplastic for appearance and durability.

MK. 2 Shells

No. 4 thread cutting screws with Pozidriv heads are provided loose for assembly of plugs/sockets into Mk. 2 shells.

For uniformity Pozidriv headed screws are now supplied for cable clamp adjustments.

Materials and finishes

<table>
<thead>
<tr>
<th>Mouldings</th>
<th>High impact thermoplastic - green</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug blades</td>
<td>Brass - Tin Plated</td>
</tr>
<tr>
<td>Socket contacts</td>
<td>Copper alloy - Tin Plated</td>
</tr>
<tr>
<td>Shells</td>
<td>High impact thermoplastic colour - Grey</td>
</tr>
</tbody>
</table>

Technical Data

- Number of ways: 4, 8, 12 and 20
- Working voltage: 900 V d.c. or a.c. peak
- Current rating: 5A
- Voltage proof: 3 kV between contacts and 2.8 kV between contacts and frame d.c. or a.c. peak
- Contact resistance: 5,000 megohms min.
- Insulation resistance: 5,000 megohms min.
- Temperature range: -40°C to +100°C
- Mating cycles: 250

Connector sizes and contact arrangements

<table>
<thead>
<tr>
<th>Connector</th>
<th>Plug</th>
<th>Socket</th>
<th>Shell</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>I</td>
<td>I</td>
<td>I</td>
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<tr>
<td>4</td>
<td>77844</td>
<td>77845</td>
<td>83383</td>
</tr>
<tr>
<td>4</td>
<td>000</td>
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</table>

Customer Notes

How to order: Plugs, sockets and shells must be ordered separately.

Contact identification: Contacts are numbered on the termination side of both plugs and sockets.

Please consult factory for further information.
'J' connectors
4, 8, 12 and 20 contact series

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Materials and finishes
Mouldings
High impact thermoplastic–Green
Plug blades
Brass–Silver plated
Socket contacts
Copper alloy–Silver plated
Shells
High impact thermoplastic colour–Grey

Technical data
Number of ways
4, 8, 12 and 20
Working voltage
900 V d.c. or a.c. peak
Current rating
5 A
Voltage proof
3 kV between contacts and 2.8 kV between contacts and frame d.c. or a.c. peak
Contact resistance
5 millichms
Insulation resistance
5,000 megohms min.
Temperature range
-40°C to +100°C
'J' Connectors
4, 8, 12 and 20 contact series

Dimensions
All dimensions are in millimeters

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<tr>
<th>Connector Size</th>
<th>Plug and socket dimensions</th>
<th>Shell dimensions</th>
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<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>4</td>
<td>10.3</td>
<td>7.3</td>
</tr>
<tr>
<td>8</td>
<td>15.8</td>
<td>12.8</td>
</tr>
<tr>
<td>12</td>
<td>21.4</td>
<td>18.4</td>
</tr>
<tr>
<td>20</td>
<td>32.5</td>
<td>29.5</td>
</tr>
</tbody>
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Note: the shell dimensions tabulated above are approximate and intended as a guide only.

Assembly of plug, socket and shell to chassis
'J' Connectors
4, 8, 12 and 20 contact series

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Highly reliable 12 point contacts

Assembly of plug, socket and shell to chassis