MULTI-POLE CONNECTORS

Push-Pull Connectors Female Fixed Socket CCM Series
CCM4S1/16 16 Pole

- Premium range of circular connectors
- IP68 sealed using vacuum technology (when connected and using environmental cable clamp)
- Tough, high performance interconnection solution
- Compact panel mounting design
- Ideal for harsh and extreme environments
- Suitable for broadcasting, autosport, military, rail, marine, security, industrial and agricultural applications
- Key coded to prevent misconnection
- Will not disconnect when the cable is under load or stress
- Tool slots for secure and tight mounting
- Tested to IEC 60512-3-5a

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Shell style/model</th>
<th>DEU type fixed socket, female contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codes</td>
<td>Code 1</td>
</tr>
<tr>
<td>Contact type</td>
<td>Solder type</td>
</tr>
<tr>
<td>Contact diameter</td>
<td>0.7mm</td>
</tr>
<tr>
<td>Max. stranded conductor</td>
<td>AWG 21-22</td>
</tr>
<tr>
<td>Max diameter</td>
<td>0.79mm</td>
</tr>
<tr>
<td>Vtest (contact-shell)</td>
<td>1000V(AC) 1600V(DC)</td>
</tr>
<tr>
<td>Vtest (contact-contact)</td>
<td>1500V(AC) 2200V(DC)</td>
</tr>
<tr>
<td>Rated current</td>
<td>4.0A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>≤200V</td>
</tr>
<tr>
<td>Mechanical operation</td>
<td>5000 mating cycles</td>
</tr>
<tr>
<td>Housing material</td>
<td>Brass (natural chrome plated) shell and collet nut, nickel plated brass latch sleeve and mid pieces</td>
</tr>
<tr>
<td>Insulator</td>
<td>PPS</td>
</tr>
<tr>
<td>Contacts</td>
<td>Brass (gold plated)</td>
</tr>
<tr>
<td>Humidity (max)</td>
<td>&lt;=95% [at 60°C / 140°F]</td>
</tr>
<tr>
<td>Vibration</td>
<td>15g [10 Hz - 2000 Hz]</td>
</tr>
<tr>
<td>Shock resistance</td>
<td>100g [6 ms]</td>
</tr>
<tr>
<td>Salt spray corrosion</td>
<td>&gt;72 hr</td>
</tr>
<tr>
<td>Climatical category</td>
<td>50/175/21</td>
</tr>
<tr>
<td>Shielding (min)</td>
<td>75 dB (10 MHz)</td>
</tr>
<tr>
<td>Shielding (min)</td>
<td>40 dB (1 GHz)</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP68 (when connected and using environmental cable clamp)</td>
</tr>
</tbody>
</table>

**TYPE NO.**

| CCM4S1/16 | Female fixed socket | 16 | CCM series |

We operate a constant improvement policy, our products are subject to change without notice.

+44 (0)1638 716101
info@camdenboss.com
www.camdenboss.com
1. Remove CamCirc plug from packaging

2. Fit cable clamp piece parts over cable

3. Strip cable and wires
4. Tinning of wire strands recommended to prepare for soldering

5. Solder each wire to the corresponding contact
6. Slide the ring to the front end
7. Bend cable screen outwards
8. Insert half shell and retain with the ring
9. Slide washer, seal and clamp against the ring and retain the screen between ring and washer
10. Trim protuding screen strands
11. Push the cable assembly into the body, orienting the guides to the slots
12. Screw clamp nut to the body and tighten by means of wrenches.

The assembly is now finished.
CCB SERIES
8.2A
Cable Diameter
2.6-4.3
(mm)

CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm
Non IP68 cable clamps also available

CCA1P1/A03
Panel mount
Low profile
3 contacts
Size 1

CCA1P1/A04
Panel mount
Low profile
4 contacts
Size 1

CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm
Non IP68 cable clamps also available

CCB SERIES
5.5A
Cable Diameter
2.6-4.3
(mm)

CCV2C/CE 3.7 - 4.2 mm
CCV2C/CG 4.2 - 4.7 mm
CCV2C/CH 4.7 - 5.2 mm
CCV2C/CJ 5.2 - 5.7 mm
CCV2C/CJ 5.7 - 6.2 mm
Non IP68 cable clamps also available

CCA2P1/A03
Panel mount
Low profile
3 contacts
Size 2

CCB SERIES
12A
Cable Diameter
3.7-6.2
(mm)
<table>
<thead>
<tr>
<th>Cable Diameter</th>
<th>Size</th>
<th>Contacts</th>
<th>Type</th>
<th>Non IP68 Cable Clamps also available</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7 - 6.2 mm</td>
<td>5.2A</td>
<td>7</td>
<td>Panel mount Low profile 7 contacts</td>
<td></td>
</tr>
<tr>
<td>3.7 - 6.2 mm</td>
<td>5A</td>
<td>7</td>
<td>Panel mount Low profile 7 contacts</td>
<td></td>
</tr>
<tr>
<td>3.7 - 6.2 mm</td>
<td>7A</td>
<td>7</td>
<td>Panel mount Low profile 7 contacts</td>
<td></td>
</tr>
</tbody>
</table>
CCB SERIES

3.8A

3.7 - 6.2 mm

CCB2S1/08
Panel mount
Low profile
8 contacts
Size 2

CCA2P1/A08

CCV2C/CE 3.7 - 4.2 mm
CCV2C/CG 4.2 - 4.7 mm
CCV2C/CH 4.7 - 5.2 mm
CCV2C/CI 5.2 - 5.7 mm
CCV2C/CJ 5.7 - 6.2 mm
Non IP68 cable clamps also available

Panel mount
Low profile
8 contacts
Size 2

CCB SERIES

2.5A

5.7 - 6.7 mm

CCB3S1/19
Panel mount
Low profile
10 contacts
Size 3

CCA3P1/A19

CCU3C/CJ 5.7 - 6.2 mm
CCU3C/CL 6.2 - 6.7 mm
Non IP68 cable clamps also available

Panel mount
Low profile
10 contacts
Size 3

CCM SERIES

2.5A

5.7 - 8.7 mm

CCB4S1/19
Panel mount
Low profile
12 contacts
Size 4

CCA4P1/A19

CCU4C/CK 5.7 - 6.7 mm
CCU4C/CN 6.7 - 7.7 mm
CCU4C/CQ 7.7 - 8.7 mm
Non IP68 cable clamps also available

Panel mount
Low profile
12 contacts
Size 4
CCV2C/CE 3.7 - 4.2 mm
CCV2C/CG 4.2 - 4.7 mm
CCV2C/CH 4.7 - 5.2 mm
CCV2C/Cl 5.2 - 5.7 mm
CCV2C/CJ 5.7 - 6.2 mm

Non IP68 cable clamps also available

CCD SERIES
7A

CCA2P1/A04

Panel mount
Protruding for low light conditions
4 contacts
Size 2

CCD2S1/04

Panel mount
Protruding for low light conditions
4 contacts
Size 2

CCD SERIES
3.7-6.2

CCA1P1/A03

Panel mount
Protruding for low light conditions
3 contacts
Size 1

CCE SERIES
8.2A

CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm

Non IP68 cable clamps also available

CCE SERIES
2.6-4.3

CCA1P1/A05

Panel mount
Protruding for low light conditions
5 contacts
Size 1

CCE SERIES
5.2A

CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm

Non IP68 cable clamps also available
**CCE SERIES 2A**

- **CCE1S1/07**
  - Panel mount
  - Protruding for low light conditions
  - 7 contacts
  - Size 1

- **CCA1P1/A07**

**Cable Diameter**

- 2.6 - 3.1 mm
- 3.1 - 3.6 mm
- 3.6 - 4.1 mm
- 4.1 - 4.3 mm

Non IP68 cable clamps also available

**CCE SERIES 5A**

- **CCE2S1/07**
  - Panel mount
  - Protruding for low light conditions
  - 7 contacts
  - Size 2

- **CCA2P1/A07**

**Cable Diameter**

- 3.7 - 4.2 mm
- 4.2 - 4.7 mm
- 4.7 - 5.2 mm
- 5.2 - 5.7 mm
- 5.7 - 6.2 mm

Non IP68 cable clamps also available

**CCL SERIES 5.2A**

- **CCL2S1/06**
  - Panel mount
  - Utility style
  - 6 contacts
  - Size 2

- **CCA2P1/A06**

**Cable Diameter**

- 3.7 - 4.2 mm
- 4.2 - 4.7 mm
- 4.7 - 5.2 mm
- 5.2 - 5.7 mm
- 5.7 - 6.2 mm

Non IP68 cable clamps also available
CCM SERIES 8.2A
2.6-4.3 (mm)
CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm
Non IP68 cable clamps also available

CCM SERIES 5.2A
2.6-4.3 (mm)
CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm
Non IP68 cable clamps also available

CCM SERIES 2A
2.6-4.3 (mm)
CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm
Non IP68 cable clamps also available
CCM SERIES 1.7A

Cable Diameter

2.6 - 4.3 mm

CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm
Non IP68 cable clamps also available

CCM SERIES 6.8A

Cable Diameter

3.7 - 6.2 mm

CCV2C/CE 3.7 - 4.2 mm
CCV2C/CG 4.2 - 4.7 mm
CCV2C/CH 4.7 - 5.2 mm
CCV2C/CJ 5.2 - 5.7 mm
CCV2C/CJ 5.7 - 6.2 mm
Non IP68 cable clamps also available

CCM SERIES 5A

Cable Diameter

3.7 - 6.2 mm

CCV2C/CE 3.7 - 4.2 mm
CCV2C/CG 4.2 - 4.7 mm
CCV2C/CH 4.7 - 5.2 mm
CCV2C/CJ 5.2 - 5.7 mm
CCV2C/CJ 5.7 - 6.2 mm
Non IP68 cable clamps also available
CCM SERIES
4.5A

CCM3S1/10
Panel mount
Utility style
10 contacts
Size 3

CCA3P1/A10

CCU3C/CJ 5.7 - 6.2 mm
CCU3C/CL 6.2 - 6.7 mm
Non IP68 cable clamps also available

CCM SERIES
4.2A

CCM3S1/12
Panel mount
Utility style
12 contacts
Size 3

CCA3P1/A12

CCU3C/CJ 5.7 - 6.2 mm
CCU3C/CL 6.2 - 6.7 mm
Non IP68 cable clamps also available

CCM SERIES
4A

CCM4S1/16
Panel mount
Utility style
16 contacts
Size 4

CCA4P1/A16

CCU4C/CK 5.7 - 6.7 mm
CCU4C/CN 6.7 - 7.7 mm
CCU4C/CQ 7.7 - 8.7 mm
Non IP68 cable clamps also available
CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm
Non IP68 cable clamps also available

CCA1P1/A04
Cable mount
4 contacts
Size 1
Please note, cable mount receptacles require a cable clamp

CCA1P1/A03
Cable mount
3 contacts
Size 1
Please note, cable mount receptacles require a cable clamp

CCA1P1/A05
Cable mount
5 contacts
Size 1
Please note, cable mount receptacles require a cable clamp

CCV1C/CC 2.6 - 3.1 mm
CCV1C/CD 3.1 - 3.6 mm
CCV1C/CE 3.6 - 4.1 mm
CCV1C/CF 4.1 - 4.3 mm
Non IP68 cable clamps also available

CCA1P1/A03
Cable mount
3 contacts
Size 1
Please note, cable mount receptacles require a cable clamp

CCA1P1/A05
Cable mount
5 contacts
Size 1
Please note, cable mount receptacles require a cable clamp
**CCT SERIES 2A**

<table>
<thead>
<tr>
<th>Cable Diameter</th>
<th>Cable Diameter</th>
<th>Cable Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.6 - 3.1 mm</td>
<td>3.1 - 3.6 mm</td>
<td>4.1 - 4.3 mm</td>
</tr>
</tbody>
</table>

Non IP68 cable clamps also available

Please note, cable mount receptacles require a cable clamp

**CCT SERIES 6.8A**

<table>
<thead>
<tr>
<th>Cable Diameter</th>
<th>Cable Diameter</th>
<th>Cable Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7 - 4.2 mm</td>
<td>4.2 - 4.7 mm</td>
<td>5.2 - 5.7 mm</td>
</tr>
</tbody>
</table>

Non IP68 cable clamps also available

Please note, cable mount receptacles require a cable clamp

**CCT SERIES 5A**

<table>
<thead>
<tr>
<th>Cable Diameter</th>
<th>Cable Diameter</th>
<th>Cable Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7 - 4.2 mm</td>
<td>4.2 - 4.7 mm</td>
<td>5.2 - 5.7 mm</td>
</tr>
</tbody>
</table>

Non IP68 cable clamps also available

Please note, cable mount receptacles require a cable clamp