Original MC4-Evo 2

Renewable Energy | Solar Photovoltaics
Female and male cable coupler MC4-Evo 2

Female and male cable coupler as individual part (including insulating part)

PV-KBT4-EVO 2A/...

PV-KST4-EVO 2A/...

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MA

Assembly instructions see MA298
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Internationally certified with IEC, UL, JET, cTÜVus. Approved for DC 1500 V (IEC, JET), DC 1500 V (UL) unrestricted access. MULTILAM Technology, has proven the quality and durability several 100 million times since 2004. Suited for all climatic environments due to UV resistance, ammonia and high IP degree. Available as a field and preassembled connector, standard crimping tools can be used. Mating compatibility with MC4 connector family.

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<th>Technical data</th>
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<tbody>
<tr>
<td>Connector system</td>
<td>Ø 4 mm</td>
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<tr>
<td>Ambient temperature range</td>
<td>-40 °C ... +85 °C (IEC/UL)</td>
</tr>
<tr>
<td>Transportation/storage temperature range</td>
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<td>Transportation/storage relative humidity</td>
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<td>IP2X</td>
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<td>Temperature Level according to IEC TS 63126</td>
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## Female and male cable coupler MC4-Evo 2

Female and male cable coupler as individual part (including insulating part)

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<th>Order No.</th>
<th>Type</th>
<th>Socket</th>
<th>Plug</th>
<th>Outer diameter of cable</th>
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<th>Approvals</th>
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Female and male cable coupler MC4-Evo 2

Contacts on carrier band (including insulating part)

PV-KBT4-EVO 2A/...

PV-KST4-EVO 2A/...

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Assembly instructions see MA298

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Female and male panel receptacle MC4-Evo 2

Female and male panel receptacles as individual part (including insulating part)

PV-AD84-EVO 2A/...

PV-ADS4-EVO 2A/...

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Assembly instructions see MA713
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MC4-Evo 2 panel-receptacle connectors are the interface between the inverter or the distributor housing and string. Assembly directly via the threads or in the perforated plate with the plastic nut (contained in scope of delivery). Thanks to the D-shape thread the connection is secured against twisting. For 1500 DC V (IEC), 1500 DC V (UL) approved without constraints. Degree of protection IP66/IP68 (1 m, 1 h) guarantees highest connection safety. Fast and clean connection. Plug compatible with the original MC4 plug connector family. With preassembled flat seal.

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| Degree of protection, unmated               | IP2X             |
| Overvoltage category                        | III              |
| Locking system                              | Locking type     |
| Contact system                              | MULTILAM         |
| Type of termination                         | Crimping         |
| Contact material                            | Copper, tin plated |
| Insulation material                         | PA               |
| Flame class                                 | UL94-V0          |
| TÜV Rheinland certified according to IEC 62852:2014+Amd.1:2020 | R 60127171 |
| UL recognized component in accordance with UL6703 | E343181 |
| Maximum altitude above sea level for operation | 5000 m         |
| Temperature level according to IEC TS 63126 | Level 2          |</p>
<table>
<thead>
<tr>
<th>Order No.</th>
<th>Type</th>
<th>Socket Width of crimp opening</th>
<th>IEC 60352</th>
<th>UL 6703</th>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>b (mm)</td>
<td>mm²</td>
<td>DC V</td>
<td>A</td>
</tr>
<tr>
<td>32.0344P0001</td>
<td>PV-ADB4-EVO 2A/2.5</td>
<td>x</td>
<td>4.0</td>
<td>2.5</td>
<td>1500</td>
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<tr>
<td>32.0345P0001</td>
<td>PV-ADS4-EVO 2A/2.5</td>
<td>x</td>
<td>4.0</td>
<td>2.5</td>
<td>1500</td>
</tr>
<tr>
<td>32.0346P0001</td>
<td>PV-ADB4-EVO 2A/6</td>
<td>x</td>
<td>5.8</td>
<td>4</td>
<td>1500</td>
</tr>
<tr>
<td>32.0347P0001</td>
<td>PV-ADS4-EVO 2A/6</td>
<td>x</td>
<td>5.8</td>
<td>6</td>
<td>1500</td>
</tr>
<tr>
<td>32.0352P0001</td>
<td>PV-ADB4-EVO 2A/10</td>
<td>x</td>
<td>6.5</td>
<td>10</td>
<td>1500</td>
</tr>
<tr>
<td>32.0353P0001</td>
<td>PV-ADS4-EVO 2A/10</td>
<td>x</td>
<td>6.5</td>
<td>10</td>
<td>1500</td>
</tr>
</tbody>
</table>

**Note:**
For more detailed information concerning the suitable cable gland range, please consult MA713.

**Note:**
When using panel receptacles in housings (e.g. inverter maker) confirm that the minimum plastic wall thickness shall be between 1 mm and 6 mm; on metal housings, wall thickness shall be between 1 mm and 4 mm. In case of wall thickness undercut or exceedance, the panel receptacle usage in the end-application has to be verified by the installer.
Female and male panel receptacle MC4-Evo 2

Contacts on carrier band (including insulating part)

PV-ADB4-EVO 2A/...

PV-ADS4-EVO 2A/...

Sealing caps see catalog tools and accessories, page 19
Tools see catalog tools and accessories, page 4 – 15

www.staubli.com/re-downloads.html → English → Catalog → Tools and accessories

Assembly instructions see MA713

www.staubli.com/re-downloads.html → English → Assembly info → MA713
MC4-Evo 2 panel-receptacle connectors are the interface between the inverter or the distributor housing and string. Assembly directly via the threads or in the perforated plate with the plastic nut (contained in scope of delivery). Thanks to the D-shape thread the connection is secured against twisting. For 1500 DC V(IEC), 1500 DC V (UL) approved without constraints. Degree of protection IP66/IP68 (1 m, 1 h) guarantees highest connection safety. Fast and clean connection. Plug compatible with the original MC4 plug connector family. With preassembled flat seal.

### Technical data

<table>
<thead>
<tr>
<th><strong>Connector system</strong></th>
<th>Ø 4 mm</th>
</tr>
</thead>
</table>
| **Ambient temperature range** | -40 °C...+85 °C (IEC)  
-40 °C...+90 °C (UL) |
| **Upper limiting temperature** | 115 °C |
| **Degree of protection, mated** | IP66/IP68 (1 m, 1 h) |
| **Degree of protection, unmated** | IP2X |
| **Overvoltage category** | III |
| **Locking system** | Locking type |
| **Contact system** | MULTILAM |
| **Type of termination** | Crimping |
| **Contact material** | Copper, tin plated |
| **Insulation material** | PA |
| **Flame class** | UL94-V0 |
| **TÜV Rheinland certified according to IEC 62852:2014+Amd.1:2020** | R 60127171 |
| **UL recognized component in accordance with UL6703** | E343181 |
| **Maximum altitude above sea level for operation** | 5000 m |
| **Temperature level according to IEC TS 63126** | Level 2 |
### Table: Order No. Type Socket Plug Width of crimp opening IEC 62892 UL 6703 Contacts per reel Approvals

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Type</th>
<th>Socket</th>
<th>Plug</th>
<th>Width of crimp opening</th>
<th>IEC 62892</th>
<th>UL 6703</th>
<th>Contacts per reel</th>
<th>Approvals</th>
</tr>
</thead>
<tbody>
<tr>
<td>32.0344P2000</td>
<td>PV-ADB4-EVO 2A/2.5</td>
<td>x</td>
<td>4.0</td>
<td>2.5</td>
<td>1500</td>
<td>32</td>
<td>14 1500 30</td>
<td>x x</td>
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<tr>
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<td>PV-ADS4-EVO 2A/2.5</td>
<td>x</td>
<td>4.0</td>
<td>2.5</td>
<td>1500</td>
<td>32</td>
<td>14 1500 30</td>
<td>x x</td>
</tr>
<tr>
<td>32.0346P2000</td>
<td>PV-ADB4-EVO 2A/6</td>
<td>x</td>
<td>5.8</td>
<td>4</td>
<td>1500</td>
<td>42</td>
<td>12 1500 35</td>
<td>x x</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6</td>
<td>1500</td>
<td>47</td>
<td></td>
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<tr>
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<td></td>
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<td>10 1500 50</td>
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</tr>
<tr>
<td>32.0347P2000</td>
<td>PV-ADS4-EVO 2A/6</td>
<td>x</td>
<td>5.8</td>
<td>4</td>
<td>1500</td>
<td>42</td>
<td>12 1500 35</td>
<td>x x</td>
</tr>
<tr>
<td></td>
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<td>6.5</td>
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<td>62</td>
<td>8 1500 70</td>
<td>x x</td>
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<tr>
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<td>PV-ADS4-EVO 2A/10</td>
<td>x</td>
<td>6.5</td>
<td>10</td>
<td>1500</td>
<td>62</td>
<td>8 1500 70</td>
<td>x x</td>
</tr>
</tbody>
</table>

#### Note:
For more detailed information concerning the suitable cable gland range, please consult MA713

#### Note:
When using panel receptacles in housings (e.g. inverter maker) confirm that the minimum plastic wall thickness shall be between 1 mm and 6 mm; on metal housings, wall thickness shall be between 1 mm and 4 mm. In case of wall thickness undercut or exceedance, the panel receptacle usage in the end-application has to be verified by the installer.
Global presence of the Stäubli Group

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