**COMBICON control**  
**MICRO COMBICON connectors, pitch 2.5 mm**

**Connectors with spring-cage connection and a connection cross-section of up to 0.5 mm²**

- Combination options with MC 0,5 and MCD 0,5 headers with a 2.5 mm pitch
- Fast conductor connection through push-in direct plug-in technology
- Convenient operation of the spring-cage terminal point using a screwdriver
- Test connection to accommodate 1 mm Ø test plug
- Available with 2 to 12 positions

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**Technical data**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technical data in accordance with IEC / DIN VDE</td>
<td></td>
</tr>
<tr>
<td>Rated current / conductor cross-section [A] / [mm²]</td>
<td>41) / 0.5</td>
</tr>
<tr>
<td>Rated insulation voltage with pollution degree 2 [V]</td>
<td>160</td>
</tr>
<tr>
<td>Pitch [mm]</td>
<td>2.5</td>
</tr>
<tr>
<td>Connection capacity [mm²] / [mm²] / AWG</td>
<td>0.14 - 0.5 / 0.14 - 0.5 / 26 - 20</td>
</tr>
<tr>
<td>Stranded with ferrules without plastic sleeve [mm²]</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Stranded with ferrules with plastic sleeve [mm²]</td>
<td>-</td>
</tr>
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<td>Multi-conductor connection capacity (2 cond. with the same cross section) [mm²]</td>
<td>-</td>
</tr>
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<td>Insulation coordination</td>
<td>III / 3 / III / 2 / II / 2</td>
</tr>
<tr>
<td>Rated insulation voltage [V]</td>
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</tr>
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</tr>
<tr>
<td>Approval data (UL/CSA) Use Group</td>
<td>B / C / D</td>
</tr>
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<td>Nominal voltage [V]</td>
<td>125</td>
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<tr>
<td>Nominal current [A]</td>
<td>4</td>
</tr>
<tr>
<td>Connection capacity AWG</td>
<td>28 - 20</td>
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<td>-</td>
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<tr>
<td>General data</td>
<td></td>
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<tr>
<td>Stripping length [mm]</td>
<td>8</td>
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<tr>
<td>Type of insulation material / group of insulation material</td>
<td>PA / I</td>
</tr>
<tr>
<td>Inflammability class acc. to UL 94</td>
<td>V0</td>
</tr>
</tbody>
</table>

**Ordering data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Order No.</th>
<th>Pcs. / Pkt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FK-MC 0.5/...-ST-2.5 with MCV 0.5/...-G-2.5 Cond. cross section = 0.5 mm²/Reduction factor = 0.8</td>
<td>1881370</td>
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<tr>
<td>FK-MC 0.5/6-ST-2.5</td>
<td>1881367</td>
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**Accessories**

<table>
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<tr>
<th>Type</th>
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<tbody>
<tr>
<td>Screwdriver</td>
<td>1205202</td>
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<tr>
<td>Marker cards SK 2.54/2.8</td>
<td>486</td>
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<tr>
<td>Ferrules with and without plastic sleeve</td>
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</tr>
<tr>
<td>Crimping pliers for 0.25 to 6 mm² CRIMPFOX 6</td>
<td>1212034</td>
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**Dimensions**

- Combination options with MC 0,5 and MCD 0,5 headers with a 2.5 mm pitch
- Fast conductor connection through push-in direct plug-in technology
- Convenient operation of the spring-cage terminal point using a screwdriver
- Test connection to accommodate 1 mm Ø test plug
- Available with 2 to 12 positions

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**Note:**

In compliance with DIN EN 61984, COMBICON connectors come without switching capacity. During designated use, they must not be plugged in or disconnected when carrying voltage or under load.

**Derating curve information:**

Derating curves, determined as per DIN EN 61984 (VDE 0627):2002-09

**Representation based on DIN EN 60512-5-2:2003-01**

Number of positions = see diagram

**COMBICON Select**

The combination options of the connectors are documented in COMBICON Select. See: www.phoenixcontact.net/searchassistants

1) Please observe the derating curves. Derating curves of further combination options on request.

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**Representative derating curve**

<table>
<thead>
<tr>
<th>Ambient temperature [°C]</th>
<th>Current carrying capacity [A]</th>
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</thead>
<tbody>
<tr>
<td>0</td>
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<tr>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>20</td>
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<td>30</td>
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<td>40</td>
<td>4</td>
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<td>50</td>
<td>2</td>
</tr>
<tr>
<td>60</td>
<td>1</td>
</tr>
<tr>
<td>70</td>
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<tr>
<td>80</td>
<td>0.25</td>
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<td>90</td>
<td>0.13</td>
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<td>100</td>
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** FK-MC 0.5/...-ST-2.5**  
Spring-cage connectors, plug-in direction parallel to the conductor axis

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**CombiCon control**  
**MICRO COMBICON connectors, pitch 2.5 mm**

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