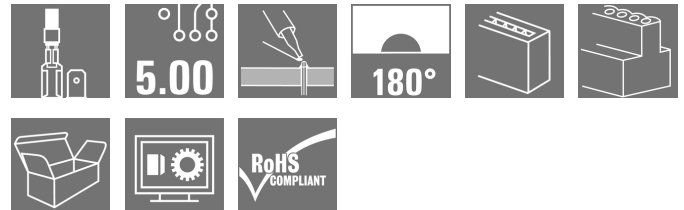


## PCF PCF 5.00/04/180 3.5SN OR BX

**Weidmüller Interface GmbH & Co. KG**  
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### Product image



Similar to illustration

Flat-blade connection in 90°, 135° and 180° conductor outlet direction for 6.3 and 2.8 mm spade connector at 5.00 mm pitch

### General ordering data

|              |   |
|--------------|---|
| Type         | PCF 5.00/04/180 3.5SN OR BX   |
| Order No.    | <a href="#">9500430000</a>  |
| Version      | Printed circuit board terminals, 5.00 mm, Number of poles: 4, 180°, Solder pin length (l): 3.5 mm, tinned, orange, Flat-blade connection, Box |
| GTIN (EAN)   | 4008190549282   |
| Qty.         | 100 pc(s).  |
| Product data | IEC: 630 V / 24 A<br>UL: 150 V / 15 A   |
| Packaging    | Box   |

Creation date September 29, 2020 4:09:46 AM CEST

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**Technical data****Dimensions and weights**

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Width                    | 19.8 mm    | Width (inches)  | 0.78 inch  |
| Height                   | 18.4 mm    | Height (inches) | 0.724 inch |
| Height of lowest version | 14.9 mm    | Depth           | 9.8 mm     |
| Depth (inches)           | 0.386 inch | Net weight      | 3.31 g     |

**System parameters**

|                                 |                       |  |                       |
|---------------------------------|-----------------------|--|-----------------------|
| Product family                  | PCF                   | Wire connection method                     | Flat-blade connection |
| Mounting onto the PCB           | THT solder connection | Conductor outlet direction                 | 180°                  |
| Pitch in mm (P)                 | 5 mm                  | Pitch in inches (P)                        | 0.197 inch            |
| Number of poles                 | 4                     | Fitted by customer                         | No                    |
| Solder pin length (l)           | 3.5 mm                | Solder pin dimensions                      | 0.8 x 1.0 mm          |
| Solder eyelet hole diameter (D) | 1.3 mm                | Solder eyelet hole diameter tolerance (D)+ | 0,1 mm                |
| Number of solder pins per pole  | 2                     | L1 in mm                                   | 15 mm                 |
| L1 in inches                    | 0.591 inch            | Touch-safe protection acc. to DIN VDE 0470 | IP 00                 |
| Volume resistance               | 1.20 mΩ               |  |                       |

**Material data**

|                                       |          |                                       |                             |
|---------------------------------------|----------|---------------------------------------|-----------------------------|
| Insulating material                   | PA       | Colour                                | orange                      |
| Colour chart (similar)                | RAL 2000 | Insulating material group             | I                           |
| Comparative Tracking Index (CTI)      | ≥ 600    | Insulation strength                   | ≥ 10 <sup>8</sup> Ω         |
| UL 94 flammability rating             | V-2      | Contact material                      | CuSn                        |
| Contact surface                       | tinned   | Layer structure of solder connection  | 1.5...3 μm Ni / 5...7 μm Sn |
| Storage temperature, min.             | -40 °C   | Storage temperature, max.             | 70 °C                       |
| Operating temperature, min.           | -50 °C   | Operating temperature, max.           | 100 °C                      |
| Temperature range, installation, min. | -25 °C   | Temperature range, installation, max. | 100 °C                      |

**Conductors suitable for connection**

|                |  |
|----------------|--|
| Reference text | Length of ferrules is to be chosen depending on the product and the rated voltage., The outside diameter of the plastic collar should not be larger than the pitch (P) |
|----------------|--|

**Rated data acc. to IEC**

|   |                        |   |                  |
|---|------------------------|---|------------------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 24 A             |
| Rated current, max. number of poles (Tu=20°C)                             | 21 A                   | Rated current, min. number of poles (Tu=40°C)                         | 24 A             |
| Rated current, max. number of poles (Tu=40°C)                             | 18 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 630 V            |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V            |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV             |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   | Short-time withstand current resistance                               | 3 x 1s mit 192 A |


**Data sheet**

**PCF  
PCF 5.00/04/180 3.5SN OR BX**


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**Technical data**

**Rated data acc. to CSA**

|                                   |   |                                   |           |
|-----------------------------------|---|-----------------------------------|-----------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 12400-282 |
| Rated voltage (Use group B / CSA) | 150 V   | Rated voltage (Use group D / CSA) | 300 V     |
| Rated current (Use group B / CSA) | 15 A  | Rated current (Use group D / CSA) | 10 A      |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate.            |                                   |           |

**Rated data acc. to UL 1059**

|                                       |   |                                       |        |
|---------------------------------------|---|---------------------------------------|--------|
| Institute (UR)                        |  | Certificate No. (UR)                  | E60693 |
| Rated voltage (Use group B / UL 1059) | 150 V   | Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group B / UL 1059) | 15 A  | Rated current (Use group D / UL 1059) | 10 A   |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.            |                                       |        |

**Packing**

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 30 mm  |
| VPE width | 130 mm | VPE height | 150 mm |

**Classifications**

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC002643    | ETIM 7.0   | EC002643    |
| eClass 9.0  | 27-44-04-01 | eClass 9.1 | 27-44-04-01 |
| eClass 10.0 | 27-44-04-01 | UNSPSC     | 30-21-18-01 |

**Notes**

|                |  |
|----------------|--|
| Notes          | • Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months   |
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request. |

**Approvals**

|           |   |
|-----------|---|
| Approvals |  |
| ROHS      | Conform   |

**Data sheet****PCF**  
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|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>   |
| Brochure/Catalogue                          | <a href="#">FL DRIVES EN</a><br><a href="#">FL ANALO.SIGN.CONV. EN</a><br><a href="#">MB DEVICE MANUF. EN</a><br><a href="#">FL DRIVES DE</a><br><a href="#">FL BUILDING SAFETY EN</a><br><a href="#">FL APPL LED LIGHTING EN</a><br><a href="#">FLIndustr.CONTROLS EN</a><br><a href="#">FL MACHINE SAFETY EN</a><br><a href="#">FL HEATING ELECTR EN</a><br><a href="#">FL APPL INVERTER EN</a><br><a href="#">FL BASE STATION EN</a><br><a href="#">FL ELEVATOR EN</a><br><a href="#">FL POWER SUPPLY EN</a><br><a href="#">FL 72H SAMPLE SER EN</a><br><a href="#">PO OMNIMATE EN</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>  |
| Engineering Data                            | <a href="#">STEP</a>  |

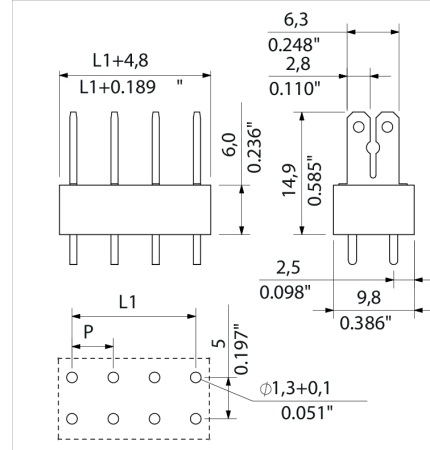
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**Drawings**

**Dimensional drawing**



## Recommended wave soldering profiles

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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.