

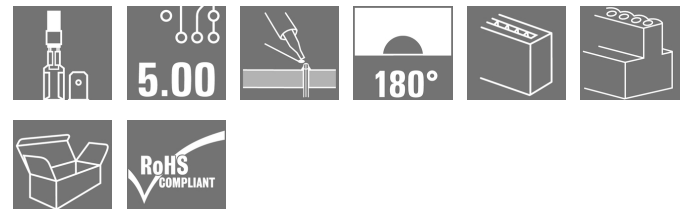
**PCF 10.00/02/180 3.5SN BL BX****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**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 10.00 mm pitch

**General ordering data**

|              |                                                                                                                                              |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | Printed circuit board terminals, 10.00 mm, Number of poles: 2, 180°, Solder pin length (l): 3.5 mm, tinned, blue, Flat-blade connection, Box |
| Order No.    | <a href="#">6385400000</a>                                                                                                                   |
| Type         | PCF 10.00/02/180 3.5SN BL BX                                                                                                                 |
| GTIN (EAN)   | 4008190556389                                                                                                                                |
| Qty.         | 100 pc(s).                                                                                                                                   |
| Product data | IEC: 1000 V / 24 A<br>UL: 300 V / 15 A                                                                                                       |
| Packaging    | Box                                                                                                                                          |

Creation date March 29, 2021 8:36:57 PM CEST

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## Technical data

## Dimensions and weights

|                          |         |                 |            |
|--------------------------|---------|-----------------|------------|
| Depth                    | 9.8 mm  | Depth (inches)  | 0.386 inch |
| Height                   | 18.4 mm | Height (inches) | 0.724 inch |
| Height of lowest version | 14.9 mm | Net weight      | 1.89 g     |
| Width                    | 14.8 mm | Width (inches)  | 0.583 inch |

## 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)                                   | 10 mm                 | Pitch in inches (P)             | 0.394 inch            |
| Number of poles                                   | 2                     | Pin series quantity             | 1                     |
| 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                                          | 10 mm                 | L1 in inches                    | 0.394 inch            |
| Touch-safe protection acc. to DIN VDE 0470        | IP 00                 | Volume resistance               | 1.20 mΩ               |

## Material data

|                                       |                             |                                       |        |
|---------------------------------------|-----------------------------|---------------------------------------|--------|
| Insulating material                   | PA                          | Colour                                | blue   |
| Colour chart (similar)                | RAL 5012                    | Insulating material group             | I      |
| Comparative Tracking Index (CTI)      | ≥ 600                       | 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)                             | 26 A                   | Rated current, min. number of poles (Tu=40°C)                         | 24 A             |
| Rated current, max. number of poles (Tu=40°C)                             | 22 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 1,000 V          |
| Rated voltage for surge voltage class / pollution degree III/2            | 690 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 690 V            |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 6 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 6 kV             |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 6 kV                   | Short-time withstand current resistance                               | 3 x 1s mit 192 A |

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## Technical data

## Rated data acc. to CSA

Institute (CSA)



Certificate No. (CSA)

12400-282

Rated voltage (Use group B / CSA) 300 V

Rated voltage (Use group C / CSA) 300 V

Rated voltage (Use group D / CSA) 300 V

Rated current (Use group B / CSA) 15 A

Rated current (Use group C / 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) 300 V

Rated voltage (Use group C / UL 1059) 300 V

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group B / UL 1059) 15 A

Rated current (Use group C / 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

145 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

ECLASS 11.0

27-46-01-01

## Important note

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.

Notes

- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

## Approvals

Approvals



ROHS

Conform

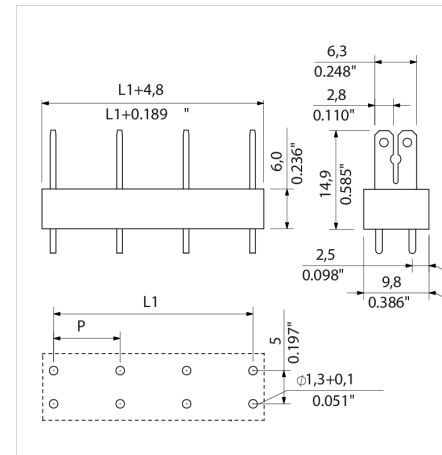
UL File Number Search

E60693

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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.

We reserve the right to make technical changes.