

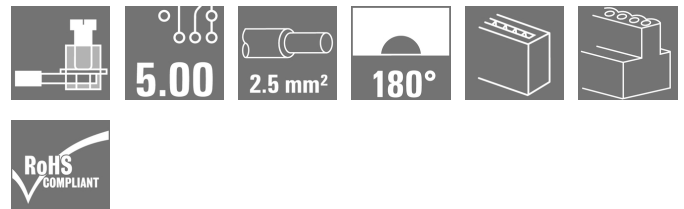
**BLZP 5.00HC/04/180 SN OR BX SO****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

Female plug with clamping-yoke screw system for connecting wires with straight (180°) outlet direction. The female connectors provide space for labelling and can be coded. Fastened by means of a flange or release latch. They also provide an integrated plus/minus screw, protection against faulty insertion of the wire, and they are delivered with open clamping yokes. HC = High Current.

**General ordering data**

|              |                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 5.00 mm, Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max. : 3.31 mm², Box |
| Order No.    | <a href="#">1490980000</a>                                                                                                            |
| Type         | BLZP 5.00HC/04/180 SN OR BX SO                                                                                                        |
| GTIN (EAN)   | 4050118300567                                                                                                                         |
| Qty.         | 90 pc(s).                                                                                                                             |
| Product data | IEC: 400 V / 19 A / 0.5 -<br>UL: 300 V / 15 A / AWG 26 - AWG 12                                                                       |
| Packaging    | Box                                                                                                                                   |

Creation date March 24, 2021 1:55:12 AM CET

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

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 20.1 mm    | Depth (inches)  | 0.791 inch |
| Height         | 15.2 mm    | Height (inches) | 0.598 inch |
| Net weight     | 6.558 g    | Width           | 20 mm      |
| Width (inches) | 0.787 inch |                 |            |

**System Parameters**

|                                            |                                     |                                              |                        |
|--------------------------------------------|-------------------------------------|----------------------------------------------|------------------------|
| Product family                             | OMNIMATE Signal - series BL/SL 5.00 | Type of connection                           | Field connection       |
| Wire connection method                     | Clamping yoke connection            | Pitch in mm (P)                              | 5 mm                   |
| Pitch in inches (P)                        | 0.197 inch                          | Conductor outlet direction                   | 180°                   |
| Number of poles                            | 4                                   | L1 in mm                                     | 15 mm                  |
| L1 in inches                               | 0.591 inch                          | Pin series quantity                          | 1                      |
| Rated cross-section                        | 2.5 mm <sup>2</sup>                 | Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20                               | Volume resistance                            | ≤5 mΩ                  |
| Can be coded                               | Yes                                 | Stripping length                             | 7 mm                   |
| Tightening torque, min.                    | 0.4 Nm                              | Tightening torque, max.                      | 0.5 Nm                 |
| Clamping screw                             | M 2.5                               | Screwdriver blade standard                   | DIN 5264               |
| Plugging cycles                            | 25                                  | Plugging force/pole, max.                    | 10 N                   |
| Pulling force/pole, max.                   | 8 N                                 |                                              |                        |

**Material data**

|                                       |          |                                       |                            |
|---------------------------------------|----------|---------------------------------------|----------------------------|
| Insulating material                   | PBT      | Colour                                | orange                     |
| Colour chart (similar)                | RAL 2000 | Insulating material group             | IIIa                       |
| Comparative Tracking Index (CTI)      | ≥ 200    | Insulation strength                   | ≥ 10 <sup>8</sup> Ω        |
| UL 94 flammability rating             | V-0      | Contact material                      | Copper alloy               |
| Contact surface                       | tinned   | Layer structure of plug contact       | 4...8 μm Sn hot-dip tinned |
| 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**

|                                                 |                                                                                                                                                                        |                                                 |                         |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------|
| Clamping range, min.                            | 0.13 mm <sup>2</sup>                                                                                                                                                   | Clamping range, max.                            | 3.31 mm <sup>2</sup>    |
| Wire connection cross section AWG, min.         | AWG 26                                                                                                                                                                 | Wire connection cross section AWG, max.         | AWG 12                  |
| Solid, min. H05(07) V-U                         | 0.5 mm <sup>2</sup>                                                                                                                                                    | Flexible, min. H05(07) V-K                      | 0.5 mm <sup>2</sup>     |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm <sup>2</sup>                                                                                                                                                    | w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm <sup>2</sup>     |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.5 mm <sup>2</sup>                                                                                                                                                    | Plug gauge in accordance with EN 60999 a x b; ø | 2.8 mm x 2.0 mm; 2.4 mm |
| Reference text                                  | The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage. |                                                 |                         |

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**Technical data****Rated data acc. to IEC**

|                                                                           |                        |                                                                       |                   |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|-------------------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 19 A              |
| Rated current, max. number of poles (Tu=20°C)                             | 14.5 A                 | Rated current, min. number of poles (Tu=40°C)                         | 16 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 12.5 A                 | Rated voltage for surge voltage class / pollution degree II/2         | 400 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 with 120 A |

**Rated data acc. to CSA**

|                                   |        |                                   |        |
|-----------------------------------|--------|-----------------------------------|--------|
| Rated voltage (Use group B / CSA) | 300 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   |
| Wire cross-section, AWG, min.     | AWG 26 | Wire cross-section, AWG, max.     | AWG 12 |

**Rated data acc. to UL 1059**

|                                       |                                                                                     |                                       |        |
|---------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|--------|
| Institute (cURus)                     |  | Certificate No. (cURus)               | E60693 |
| Rated voltage (Use group B / 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 D / UL 1059) | 10 A   |
| Wire cross-section, AWG, min.         | AWG 26                                                                              | Wire cross-section, AWG, max.         | AWG 12 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate.              |                                       |        |

**Packing**

|           |        |            |        |
|-----------|--------|------------|--------|
| Packaging | Box    | VPE length | 30 mm  |
| VPE width | 135 mm | VPE height | 350 mm |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0    | EC002638    |
| ECLASS 9.0  | 27-44-03-09 | ECLASS 9.1  | 27-44-03-09 |
| ECLASS 10.0 | 27-44-03-09 | ECLASS 11.0 | 27-46-02-02 |

**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                                                                                                                                                                                                                   |  |  |

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## Technical data

### Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

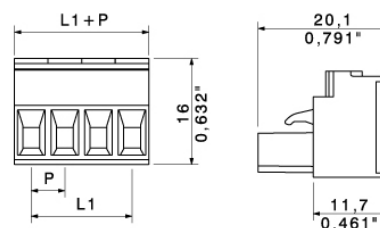
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# Drawings

## Dimensional drawing



## Graph

