

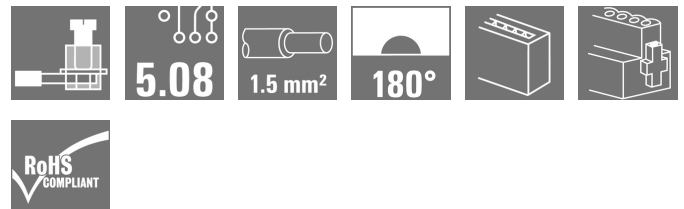
**BLZ 5.08/04/180FQV2 SN BK BX PRT****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

Female plugs with clamping-yoke screw connections for connecting wire, with straight 180° wire outlet direction and internal cross-connections between connections 1-2 and 3-4. Bus current at 4 mm<sup>2</sup> (without wire-end ferrule) is up to 32 A. The female plugs can be coded.

**General ordering data**

|              |                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, 180°, Clamping yoke connection, Clamping range, max.: 4 mm <sup>2</sup> , Box |
| Order No.    | <a href="#">1489970000</a>                                                                                                                     |
| Type         | BLZ 5.08/04/180FQV2 SN BK BX PRT                                                                                                               |
| GTIN (EAN)   | 4050118299922                                                                                                                                  |
| Qty.         | 60 pc(s).                                                                                                                                      |
| Product data | IEC: 400 V / 17.5 A / 0.2 - 4 mm <sup>2</sup><br>UL: 300 V / 15 A / AWG 26 - AWG 12                                                            |
| Packaging    | Box                                                                                                                                            |

Creation date April 15, 2021 3:54:04 PM CEST

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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     | 8.4 g      | Width           | 30.2 mm    |
| Width (inches) | 1.189 inch |                 |            |

## System Parameters

|                                              |                                     |                   |              |
|----------------------------------------------|-------------------------------------|-------------------|--------------|
| Product family                               | OMNIMATE Signal - series BL/SL 5.08 |                   |              |
| Type of connection                           | Field connection                    |                   |              |
| Wire connection method                       | Clamping yoke connection            |                   |              |
| Pitch in mm (P)                              | 5.08 mm                             |                   |              |
| Pitch in inches (P)                          | 0.2 inch                            |                   |              |
| Conductor outlet direction                   | 180°                                |                   |              |
| Number of poles                              | 4                                   |                   |              |
| L1 in mm                                     | 15.24 mm                            |                   |              |
| L1 in inches                                 | 0.6 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                                |                   |              |
| Clamping screw                               | M 2.5                               |                   |              |
| Screwdriver blade standard                   | DIN 5264                            |                   |              |
| Plugging cycles                              | 25                                  |                   |              |
| Plugging force/pole, max.                    | 8.5 N                               |                   |              |
| Pulling force/pole, max.                     | 6.5 N                               |                   |              |
| Tightening torque                            | Torque type                         | Wire connection   |              |
|                                              | Usage information                   | Tightening torque | min. 0.4 Nm  |
|                                              |                                     |                   | max. 0.5 Nm  |
|                                              | Torque type                         | Screw flange      |              |
|                                              | Usage information                   | Tightening torque | min. 0.2 Nm  |
|                                              |                                     |                   | max. 0.25 Nm |

## Material data

|                                       |          |                                       |                            |
|---------------------------------------|----------|---------------------------------------|----------------------------|
| Insulating material                   | PBT      | Colour                                | black                      |
| Colour chart (similar)                | RAL 9011 | 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.                    | 4 mm <sup>2</sup>    |
| Wire connection cross section AWG, min. | AWG 26               |

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## Technical data

|                                                                     |                                                                                                                                                                        |                              |                         |
|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------|
| Wire connection cross section AWG, max.                             | AWG 12                                                                                                                                                                 |                              |                         |
| Solid, min. H05(07) V-U                                             | 0.2 mm <sup>2</sup>                                                                                                                                                    |                              |                         |
| Solid, max. H05(07) V-U                                             | 2.5 mm <sup>2</sup>                                                                                                                                                    |                              |                         |
| Flexible, min. H05(07) V-K                                          | 0.2 mm <sup>2</sup>                                                                                                                                                    |                              |                         |
| Flexible, max. H05(07) V-K                                          | 4 mm <sup>2</sup>                                                                                                                                                      |                              |                         |
| w. plastic collar ferrule, DIN 46228 pt 4, 0.2 mm <sup>2</sup> min. |                                                                                                                                                                        |                              |                         |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max. |                                                                                                                                                                        |                              |                         |
| w. wire end ferrule, DIN 46228 pt 1, min.                           | 0.2 mm <sup>2</sup>                                                                                                                                                    |                              |                         |
| w. wire end ferrule, DIN 46228 pt 1, max.                           | 2.5 mm <sup>2</sup>                                                                                                                                                    |                              |                         |
| Clampable conductor                                                 | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired              |
|                                                                     |                                                                                                                                                                        | nominal                      | 0.5 mm <sup>2</sup>     |
|                                                                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal 6 mm            |
|                                                                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.5/6</a>  |
|                                                                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired              |
|                                                                     |                                                                                                                                                                        | nominal                      | 1 mm <sup>2</sup>       |
|                                                                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal 6 mm            |
|                                                                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.0/6</a>  |
|                                                                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired              |
|                                                                     |                                                                                                                                                                        | nominal                      | 1.5 mm <sup>2</sup>     |
|                                                                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal 7 mm            |
|                                                                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H1.5/7</a>  |
|                                                                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired              |
|                                                                     |                                                                                                                                                                        | nominal                      | 2.5 mm <sup>2</sup>     |
|                                                                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal 7 mm            |
|                                                                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H2.5/7</a>  |
|                                                                     | Cross-section for conductor connection                                                                                                                                 | Type                         | fine-wired              |
|                                                                     |                                                                                                                                                                        | nominal                      | 0.75 mm <sup>2</sup>    |
|                                                                     | wire end ferrule                                                                                                                                                       | Stripping length             | nominal 6 mm            |
|                                                                     |                                                                                                                                                                        | Recommended wire-end ferrule | <a href="#">H0.75/6</a> |
| 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. |                              |                         |

## Rated data acc. to IEC

|                                                                           |                        |                                                                       |        |
|---------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------|--------|
| tested acc. to standard                                                   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 17.5 A |
| Rated current, min. number of poles (Tu=40°C)                             | 15 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                   |                                                                       |        |

## 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 |

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**Technical data****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 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

338 mm

VPE width

130 mm

VPE height

27 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

**Approvals**

Approvals



ROHS

Conform

UL File Number Search

E60693

**Downloads**

Brochure/Catalogue

[Catalogues in PDF-format](#)

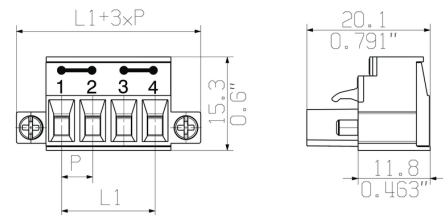
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# Drawings

## Dimensional drawing



## Graph

