

**BLZF 5.08/10/90 SN OR BX****Weidmüller Interface GmbH & Co. KG**

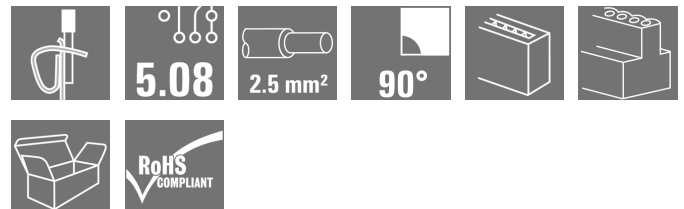
Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

**Do not use product for new developments**

Female plugs with tension-clamp wire connection system.  
The female plugs provide space for labelling and can be coded.

**General ordering data**

|              |                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 5.08 mm,<br>Number of poles: 10, 90°, Tension-clamp<br>connection, Clamping range, max. : 3.31 mm²,<br>Box |
| Order No.    | <a href="#">1670870000</a>                                                                                                                     |
| Type         | BLZF 5.08/10/90 SN OR BX                                                                                                                       |
| GTIN (EAN)   | 4008190432461                                                                                                                                  |
| Qty.         | 36 pc(s).                                                                                                                                      |
| Product data | IEC: 400 V / 16.5 A / 0.2 - 2.5 mm²<br>UL: 300 V / 10 A / AWG 26 - AWG 12                                                                      |
| Packaging    | Box                                                                                                                                            |

Delivery status **This article will no longer be available in the future.**  
Creation date March 24, 2021 7:03:25 PM CET

Available until 2023-12-31

Alternative product [1001610000](#)

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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

|                |         |                 |            |
|----------------|---------|-----------------|------------|
| Depth          | 25.1 mm | Depth (inches)  | 0.988 inch |
| Height         | 14.3 mm | Height (inches) | 0.563 inch |
| Net weight     | 19.34 g | Width           | 50.8 mm    |
| Width (inches) | 2 inch  |                 |            |

**System Parameters**

|                            |                                     |                                              |                                                  |
|----------------------------|-------------------------------------|----------------------------------------------|--------------------------------------------------|
| Product family             | OMNIMATE Signal - series BL/SL 5.08 | Type of connection                           | Field connection                                 |
| Wire connection method     | Tension-clamp connection            | Pitch in mm (P)                              | 5.08 mm                                          |
| Pitch in inches (P)        | 0.2 inch                            | Conductor outlet direction                   | 90°                                              |
| Number of poles            | 10                                  | L1 in mm                                     | 45.72 mm                                         |
| L1 in inches               | 1.8 inch                            | Number of rows                               | 1                                                |
| Pin series quantity        | 1                                   | Touch-safe protection acc. to DIN VDE 57 106 | finger-safe plugged/ back-of-hand-safe unplugged |
| Volume resistance          | ≤5 mΩ                               | Can be coded                                 | Yes                                              |
| Stripping length           | 10 mm                               | Screwdriver blade                            | 0.6 x 3.5                                        |
| Screwdriver blade standard | DIN 5264-A                          | Plugging cycles                              | 25                                               |
| Pulling force/pole, max.   | 2 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                         | 0.2 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                      | 2.5 mm <sup>2</sup>                                                                                                                                                    |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.2 mm <sup>2</sup>  | w. plastic collar ferrule, DIN 46228 pt 4, max. | 1.5 mm <sup>2</sup>                                                                                                                                                    |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.2 mm <sup>2</sup>  | w. wire end ferrule, DIN 46228 pt 1, max.       | 1.5 mm <sup>2</sup>                                                                                                                                                    |
| Plug gauge in accordance with EN 60999 a x b; ø |                      | 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. |
|                                                 | 2.8 mm x 2.0 mm      |                                                 |                                                                                                                                                                        |

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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)                         | 16.5 A            |
| Rated current, max. number of poles (Tu=20°C)                             | 12.5 A                 | Rated current, min. number of poles (Tu=40°C)                         | 14 A              |
| Rated current, max. number of poles (Tu=40°C)                             | 11 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

|                                   |                                                                                   |                                   |                |
|-----------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|----------------|
| Institute (CSA)                   |  | Certificate No. (CSA)             | 200039-1461395 |
| Rated voltage (Use group B / CSA) | 300 V                                                                             | Rated voltage (Use group D / CSA) | 300 V          |
| Rated current (Use group B / CSA) | 10 A                                                                              | Rated current (Use group D / CSA) | 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.            |                                   |                |

## Rated data acc. to UL 1059

|                                       |                                                                                     |                                       |        |
|---------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|--------|
| Institute (UR)                        |  | Certificate No. (UR)                  | E60693 |
| 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) | 10 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 |

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**Technical data****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          | <ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Gold-plated contact surfaces on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Wire end ferrule without plastic collar to DIN 46228/1</li> <li>• Wire end ferrule with plastic collar to DIN 46228/4</li> <li>• P on drawing = pitch</li> <li>• Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.</li> <li>• Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months</li> </ul> |

**Approvals**

Approvals



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

**Downloads**

|                                             |                                                 |
|---------------------------------------------|-------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a> |
|---------------------------------------------|-------------------------------------------------|

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# Drawings

## Dimensional drawing

