

**BLAC 4R OR****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

Female header with crimp connection system enable rational prefabrication of cable looms and guarantee a distinct cost-saving. The BLAC is also available with dovetail (B) for convenient attachment of fixing blocks. Supplied in cardboard box.

**General ordering data**

|              |                                                                                                                             |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|
| Version      | PCB plug-in connector, female plug, 5.08 mm, Number of poles: 4, 180°, Crimp connection, Clamping range, max.: 2.5 mm², Box |
| Order No.    | <a href="#">1478060000</a>                                                                                                  |
| Type         | BLAC 4R OR                                                                                                                  |
| GTIN (EAN)   | 4008190014759                                                                                                               |
| Qty.         | 100 pc(s).                                                                                                                  |
| Product data | IEC: 500 V / 20 A<br>UL: 300 V / 10 A / AWG 26 - AWG 14                                                                     |
| Packaging    | Box                                                                                                                         |

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## Technical data

## Dimensions and weights

|                |          |                 |            |
|----------------|----------|-----------------|------------|
| Depth          | 24.5 mm  | Depth (inches)  | 0.965 inch |
| Height         | 11.6 mm  | Height (inches) | 0.457 inch |
| Net weight     | 2.83 g   | Width           | 20.32 mm   |
| Width (inches) | 0.8 inch |                 |            |

## System Parameters

|                                              |                                                     |                            |                     |
|----------------------------------------------|-----------------------------------------------------|----------------------------|---------------------|
| Product family                               | OMNIMATE Signal - series BLA/SLA 5.08               | Type of connection         | Field connection    |
| Wire connection method                       | Crimp 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                                            | Number of rows             | 1                   |
| Pin series quantity                          | 1                                                   | Rated cross-section        | 2.5 mm <sup>2</sup> |
| Touch-safe protection acc. to DIN VDE 57 106 | finger-safe unplugged/<br>back-of-hand-safe plugged | Can be coded               | Yes                 |
| Stripping length                             | 5 mm                                                | Plugging cycles            | 25                  |

## Material data

|                                       |              |                                       |                            |
|---------------------------------------|--------------|---------------------------------------|----------------------------|
| Insulating material                   | PBT GF       | Colour                                | orange                     |
| Colour chart (similar)                | RAL 2000     | Insulating material group             | IIIa                       |
| Comparative Tracking Index (CTI)      | ≥ 200        | UL 94 flammability rating             | V-0                        |
| Contact material                      | Copper alloy | 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.           | 120 °C                     |
| Temperature range, installation, min. | -25 °C       | Temperature range, installation, max. | 120 °C                     |

## Conductors suitable for connection

|                                         |                                                                                                                                                                        |                                         |                     |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------|
| Clamping range, min.                    | 0.22 mm <sup>2</sup>                                                                                                                                                   | Clamping range, max.                    | 2.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min. | AWG 26                                                                                                                                                                 | Wire connection cross section AWG, max. | AWG 14              |
| 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)                         | 20 A               |
| Rated current, max. number of poles (Tu=20°C)                             | 12.5 A                 | Rated current, min. number of poles (Tu=40°C)                         | 17.5 A             |
| Rated current, max. number of poles (Tu=40°C)                             | 11 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 500 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 1 s with 120 A |

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**Technical data****Rated data acc. to CSA**

Institute (CSA)



Certificate No. (CSA)

12400-158

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Rated voltage (Use group B / CSA) | 300 V                                                                  |
| Rated current (Use group B / CSA) | 10 A                                                                   |
| Wire cross-section, AWG, min.     | AWG 26                                                                 |
| Reference to approval values      | Specifications are maximum values, details - see approval certificate. |

|                                   |        |
|-----------------------------------|--------|
| Rated voltage (Use group D / CSA) | 300 V  |
| Rated current (Use group D / CSA) | 10 A   |
| Wire cross-section, AWG, max.     | AWG 14 |

**Rated data acc. to UL 1059**

Institute (UR)



Certificate No. (UR)

E60693

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Rated voltage (Use group B / UL 1059) | 300 V                                                                  |
| Rated current (Use group B / UL 1059) | 10 A                                                                   |
| Wire cross-section, AWG, min.         | AWG 26                                                                 |
| Reference to approval values          | Specifications are maximum values, details - see approval certificate. |

|                                       |        |
|---------------------------------------|--------|
| Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated current (Use group D / UL 1059) | 10 A   |
| Wire cross-section, AWG, max.         | AWG 14 |

**Packing**

|           |       |            |        |
|-----------|-------|------------|--------|
| Packaging | Box   | VPE length | 78 mm  |
| VPE width | 94 mm | VPE height | 138 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          | <ul style="list-style-type: none"> <li>• Additional colours on request</li> <li>• Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>• Rated cross-section depends on crimp contact used.</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> |

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## Technical data

### Approvals

Approvals



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

|                       |        |
|-----------------------|--------|
| UL File Number Search | E60693 |
|-----------------------|--------|

### Downloads

Approval/Certificate/Document of  
Conformity

[Declaration of the Manufacturer](#)

Engineering Data

[STEP](#)

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## Drawings

### Dimensional drawing

