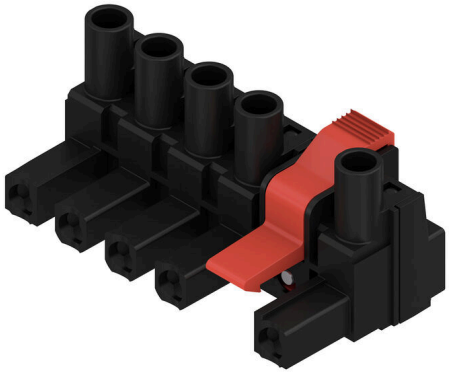
Data sheet

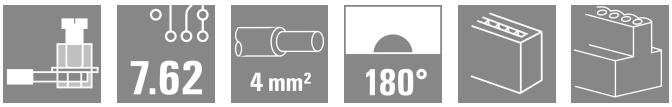
# BLZ 7.62IT/05/180MSF2 SN BK BX

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image






180° female plug with a 7.62 pitch for IT power networks. Meets the requirements of UL1059 600 V class C. In combination with male header SL 7.62 IT.... With leading contact. Meets the extended requirements on 5.5 mm touch safety for IT power networks as per IEC 61800-5-1 for 400 V to earth. The self-locking middle flange which can optionally be screwed, reduces space requirements by one pitch width in comparison with conventional solutions.
On request also available without middle flange interlock.

### General ordering data

| | |
|---|---|
| Version | PCB plug-in connector, female plug, 7.62 mm, Number of poles: 5, 180°, Clamping yoke connection, Box |
| Order No. | 2629810000 |
| Type | BLZ 7.62IT/05/180MSF2 SN BK BX |
| GTIN (EAN) | 4050118633443 |
| Qty. | 50 items |
| Product data | IEC: 630 V / 0.08 - 4 mm²<br>UL: |
| Packaging | Box |
| Delivery status | Discontinued |

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## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 23.4 mm | Depth (inches) | 0.9213 inch |
| Height | 21.2 mm | Height (inches) | 0.8346 inch |
| Width | 45.72 mm | Width (inches) | 1.8 inch |
| Net weight | 0 g | | |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

### System Parameters

| | | | |
|---|---|---|---|
| Product family | OMNIMATE Power - series BL/SL 7.62IT | Type of connection | Field connection |
| Wire connection method | Clamping yoke connection | Pitch in mm (P) | 7.62 mm |
| Pitch in inches (P) | 0.300 " | Conductor outlet direction | 180° |
| Number of poles | 5 | L1 in mm | 38.10 mm |
| L1 in inches | 1.500 " | Number of rows | 1 |
| Pin series quantity | 1 | Rated cross-section | 2.5 mm² |
| Touch-safe protection acc. to DIN VDE 0470 | IP 20 | Protection degree | IP20, when fully mounted |
| Tightening torque for screw flange, min. | 0.15 Nm | Tightening torque for screw flange, max. | 0.25 Nm |
| Plugging cycles | 25 | Plugging force/pole, max. | 9.5 N |
| Pulling force/pole, max. | 8.5 N | | |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | PBT | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulation resistance | ≥ $10^8$ Ω |
| Moisture Level (MSL) | | UL 94 flammability rating | V-0 |
| Contact material | Cu-alloy | Contact surface | 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

| | | | | |
|---|---|---|---|---|
| Solid, min. H05(07) V-U | 0.08 mm² | | | |
| Solid, max. H05(07) V-U | 4 mm² | | | |
| Flexible, min. H05(07) V-K | 0.08 mm² | | | |
| Flexible, max. H05(07) V-K | 4 mm² | | | |
| w. wire end ferrule, DIN 46228 pt 1, min. | 0.2 mm² | | | |
| w. wire end ferrule, DIN 46228 pt 1, max. | 2.5 mm² | | | |
| Clampable conductor | Cross-section for conductor connection | nominal | 0.25 mm² | |
| | wire end ferrule | Stripping length | nominal | 10 mm |
| | | Recommended wire-end ferrule | H0,25/12 HBL | |
| | Cross-section for conductor connection | nominal | 0.34 mm² | |
| | wire end ferrule | Stripping length | nominal | 10 mm |
| | | Recommended wire-end ferrule | H0,34/12 TK | |
| | Cross-section for conductor connection | nominal | 0.5 mm² | |
| | wire end ferrule | Stripping length | nominal | 6 mm |

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## Technical data

| | | | | |
|---|---|---|---|---|
| | | Recommended wire-end ferrule | H0,5/6 | |
| | Cross-section for conductor connection | nominal | 0.75 mm² | |
| | wire end ferrule | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H0,75/6 | |
| | Cross-section for conductor connection | nominal | 1 mm² | |
| | wire end ferrule | Stripping length | nominal | 6 mm |
| | | Recommended wire-end ferrule | H1,0/6 | |
| | Cross-section for conductor connection | nominal | 1.5 mm² | |
| | wire end ferrule | Stripping length | nominal | 7 mm |
| | | Recommended wire-end ferrule | H1,5/7 | |
| | Cross-section for conductor connection | nominal | 2.5 mm² | |
| | wire end ferrule | Stripping length | nominal | 7 mm |
| | | Recommended wire-end ferrule | H2,5/7 | |
| 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, max. number of poles (Tu=20°C) | 26.5 A |
| Rated current, min. number of poles (Tu=40°C) | 25 A | Rated voltage for surge voltage class / pollution degree II/2 | 630 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 500 V | Rated impulse voltage for surge voltage class/ pollution degree II/2 | 4000 V |
| Rated impulse voltage for surge voltage class/ pollution degree III/2 | 6 kV | Creepage distance, min. | 11.3 mm |
| Clearance, min. | 9.8 mm | | |

### Packing

| | | | |
|---|---|---|---|
| Packaging | Box | VPE length | 348.00 mm |
| VPE width | 135.00 mm | VPE height | 31.00 mm |

### Type tests

| | | | | |
|---|---|---|---|---|
| Test: Durability of markings | Standard | DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96 | | |
| | Test | mark of origin, type identification, pitch, type of material, date clock | | |
| | Evaluation | available | | |
| | Test | durability | | |
| | Evaluation | passed | | |
| Test: Misengagement (Non-interchangeability) | Standard | DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN EN 60512-13-5 / 11.06 | | |
| | Test | 180° turned with coding elements | | |
| | Evaluation | passed | | |
| | Test | 180° turned without coding elements | | |
| | Evaluation | passed | | |
| Test: Clampable cross section | Standard | DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 12.02 | | |
| | Conductor type | Type of conductor and conductor cross-section | solid 0.5 mm² | |
| | | Type of conductor and conductor cross-section | stranded 0.5 mm² | |

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## Technical data

| | | | |
|---|---|---|---|
| | | Type of conductor and conductor cross-section | solid 2.5 mm² |
| | | Type of conductor and conductor cross-section | stranded 2.5 mm² |
| | | Type of conductor and conductor cross-section | AWG 20/1 |
| | | Type of conductor and conductor cross-section | AWG 20/19 |
| | | Type of conductor and conductor cross-section | AWG 12/1 |
| | | Type of conductor and conductor cross-section | AWG 12/19 |
| | Evaluation | passed | |
| Test for damage to and accidental loosening of conductors | Standard | DIN EN 60999-1 section 9.4 / 12.00 | |
| | Requirement | 0.2 kg | |
| | Conductor type | Type of conductor and conductor cross-section | AWG 28/1 |
| | | Type of conductor and conductor cross-section | AWG 28/19 |
| | Evaluation | passed | |
| | Requirement | 0.3 kg | |
| | Conductor type | Type of conductor and conductor cross-section | H05V-U0.5 |
| | | Type of conductor and conductor cross-section | H05V-K0.5 |
| | Evaluation | passed | |
| | Requirement | 0.7 kg | |
| | Conductor type | Type of conductor and conductor cross-section | AWG 14/1 |
| | | Type of conductor and conductor cross-section | AWG 14/19 |
| | Evaluation | passed | |
| | Requirement | 0.9 kg | |
| | Conductor type | Type of conductor and conductor cross-section | H07V-U4.0 |
| | | Type of conductor and conductor cross-section | H07V-K4.0 |
| | Evaluation | passed | |
| Pull-out test | Standard | DIN EN 60999-1 section 9.5 / 12.00 | |
| | Requirement | ≥5 N | |
| | Conductor type | Type of conductor and conductor cross-section | AWG 28/1 |
| | | Type of conductor and conductor cross-section | AWG 28/19 |
| | Evaluation | passed | |
| | Requirement | ≥20 N | |

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## Technical data

| | | | |
|---|---|---|---|
| | Conductor type | Type of conductor and conductor cross-section | H05V-U0.5 |
| | | Type of conductor and conductor cross-section | H05V-K0.5 |
| | Evaluation | passed | |
| | Requirement | ≥50 N | |
| | Conductor type | Type of conductor and conductor cross-section | AWG 14/1 |
| | | Type of conductor and conductor cross-section | AWG 14/19 |
| | | Type of conductor and conductor cross-section | H07V-K4.0 |
| | Evaluation | passed | |
| | Requirement | ≥60 N | |
| | Conductor type | Type of conductor and conductor cross-section | H07V-U4.0 |
| | Evaluation | passed | |

### 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 | • Additional variants on request<br>• Gold-plated contact surfaces on request<br>• Rated current related to rated cross-section & min. No. of poles.<br>• Wire end ferrule without plastic collar to DIN 46228/1<br>• Wire end ferrule with plastic collar to DIN 46228/4<br>• In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load<br>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC002638 | ETIM 9.0 | EC002638 |
| ETIM 10.0 | EC002638 | ECLASS 14.0 | 27-46-02-02 |
| ECLASS 15.0 | 27-46-02-02 | | |

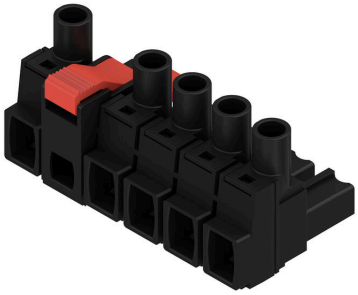
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## Drawings

### Product image



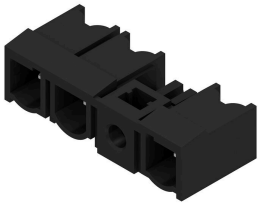
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## Counterpart

### SL 7.62IT/90MSF SN



90° male header with soldered flange fastening with 7.62 pitch for 400 V IT power networks according to IEC 61800-5-1. UL approval as per UL840 600 V with leading PE contact.
Meets the increased requirements on touch safety for IT power networks as per IEC 61800-5-1 for 400 V to earth, when combined with female header BLZ 7.62 IT..., Without a female header, the mating profile guarantees minimum touch safety of 1 mm with 20 N pressure on the test finger. The interlock in the middle flange reduces the space requirements in comparison with conventional solutions by one pitch width. On request: available with screw flange or without flange.

### General ordering data

| | | |
|---|---|---|
| Type | SL 7.62IT/05/90MSF2 3.2... | Version |
| Order No. | 2629560000 | PCB plug-in connector, male header, closed side / middle screw |
| GTIN (EAN) | 4050118893694 | flange, THT solder connection, 7.62 mm, Number of poles: 5, 90°, |
| Qty. | 36 ST | Solder pin length (l): 3.2 mm, tinned, black, Box |