# ZK7752-6566-0xxx | B23, Power cable, PUR, IP67, 7 G 2.5 mm², drag-chain suitable, key 2 (400 V AC)

## B23, plug, straight, male+blanking plug, pins 6+PE, Power – B23, plug, straight, female+blanking plug, pins 6+PE, Power



## Plugs

| Electrical data | Head A | Head B |
|---|---|---|
| Rated voltage (power) | 630 V AC / 850 V DC, 600V AC / DC (UL) | 630 V AC / 850 V DC, 600V AC / DC (UL) |
| Rated current (power) | 20 A at 30°C | 20 A at 30°C |
| Rated impulse voltage (power) | 6.0 kV | 6.0 kV |
| Contact resistance | < 5 mΩ | < 5 mΩ |
| Insulation resistance | ≥ 100 MΩ (according to IEC 60512) | ≥ 100 MΩ (according to IEC 60512) |
| **Mechanical data** | | |
| Installation size | B23 | B23 |
| Connector type | plug | plug |
| Configuration | straight | straight |
| Contact type | male+blanking plug | female+blanking plug |
| Number of positions (face) | pins 6+PE | pins 6+PE |
| Coding | Power | Power |
| Mechanical coding | key 2 (400 V AC) | key 2 (400 V AC) |

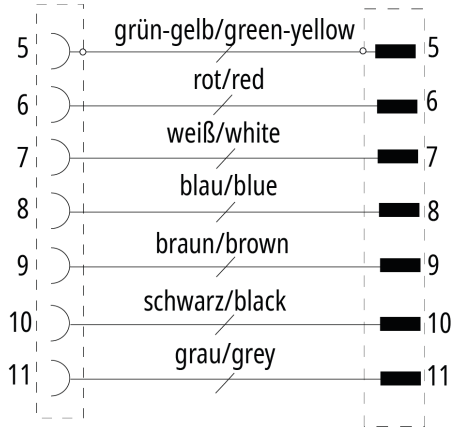
| | | |
|---|---|---|
| Wire termination | crimp connection | crimp connection |
| Mating cycles | ≥ 100 | ≥ 100 |
| Way of locking | bayonet | bayonet |
| Weight | 0.100 kg (0.2205 lb) | 0.100 kg (0.2205 lb) |
| Body color | black | black |
| Body material | TPU, UL 94 HB | TPU, UL 94 HB |
| Coupling nut material | GD-Zn, Ni | GD-Zn, Ni |
| Seal | NBR, FPM | NBR, FPM |
| Contact carrier material | PA 6, UL 94 V0 | PA 6, UL 94 V0 |
| Contact carrier color (power) | red | red |
| Contact plating | Au over Ni | Au over Ni |
| Contact material | copper alloy | copper alloy |
| **Environmental data** | | |
| Shock resistance | 50 g (490 m/s$^2$) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes | 50 g (490 m/s$^2$) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes |
| Vibration resistance | 5 g (50 m /s$^2$) conforms to IEC 60512-6d, 10 Hz. ... 500 Hz.; 10 cycles per axis; 6 h full duration | 5 g (50 m /s$^2$) conforms to IEC 60512-6d, 10 Hz. ... 500 Hz.; 10 cycles per axis; 6 h full duration |
| Ambient temperature (operation) | -30...+80°C, -22...+176°F | -30...+80°C, -22...+176°F |
| Protection rating | IP65/67 in screwed condition (according to IEC 60529) | IP65/67 in screwed condition (according to IEC 60529) |
| Pollution level | 3/2 (according to IEC 60664-1) | 3/2 (according to IEC 60664-1) |

## Cable

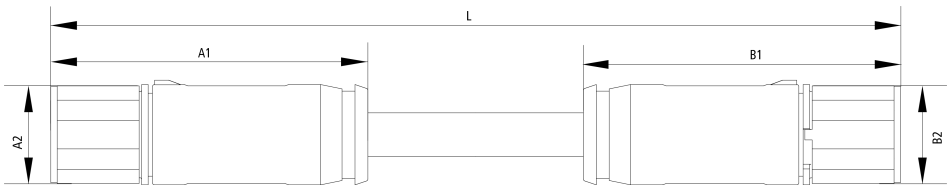
| | |
|---|---|
| **Electrical data** | |
| Operating voltage | ≤ 1000 V AC |
| Insulation resistance | ≥ 500 MΩ * km (DIN EN 50395 cl. 8.1) |
| Wire resistance (power) | ≤ 7.98 Ω/km (DIN EN 50395) |
| Dielectric strength wire/wire (power) | 4 kV x 5 min (EN 50289-1-3) |
| Dielectric strength wire/shield (power) | 4 kV x 5 min (EN 50289-1-3) |
| **Mechanical data** | |
| Conductor construction | 7 strand |
| Conductor construction (Ethernet) | – |
| Cross-section | 7 G 2.5 mm$^2$ (AWG14) |
| Outer cable diameter | 13.20 mm ± 0.20 mm |
| Min. bending radius, moved | 7 x outer cable diameter |
| Min. bending radius, fixed installation | 4 x outer cable diameter |
| Conductor material | copper bare |

| | |
|---|---|
| Shielding | braiding of tinned copper wires |
| Optical covering factor of shielding (Ethernet) | ≥ 85 % |
| Optical covering factor of shielding (total) | yes |
| Use | drag-chain suitable |
| UL-Style | UL758 (AMW) Style 22381/11657 90°C 1000V |
| Max. acceleration | 30 m/s² by 5 m travel distance<br>15 m/s² by 10 m travel distance<br>5 m/s² by 20 m travel distance |
| Max. speed | 4 m/s |
| Max. number of cycles | 10 million |
| Jacket color | black (similar to RAL9005) |
| Material jacket | PUR (polyurethane) |
| Wire color code | black, brown, grey, red, blue, white, black, green-yellow |
| Wire insulation material | PP (polypropylene) |
| Printing on the jacket | XXXXM Beckhoff Automation GmbH & Co. KG-Germany - Industrial Ethernet / EtherCAT ZB9050-0002 (7 G 2,5mm²)C E356538 AWM I/II A/B 90°C 1000V FT2 RoHS MM/JJ |
| Printing color | white |
| Torsion angle in °/m | max. ± 30 °/m |
| **Environmental data** | |
| Operation temperature range, moved | -40...+90°C, -40...+194°F |
| Operation temperature range, fixed installation | -50...+90°C, -58...+194°F |
| UV resistance | yes |
| Oil resistance | according to EN 50363-10-2 |
| Flame-retardant | acc. to IEC 60332-1-2,<br>acc. to UL/CSA FT1,<br>acc. to UL VW1,<br>acc. to UL/CSA FT2 |
| CFC-free | yes |
| Halogen-free | according to IEC 60754-1 |
| Silicone-free | yes |
| Approvals | cRUus |

| **Pin assignment** | |
|---|---|




| Dimensions | |
|---|---|




| | |
|---|---|
| A1 | 95.00 mm |
| A2 | 29.00 mm |
| B1 | 95.00 mm |
| B2 | 29.00 mm |

### Mechanical coding

Mechanical keying uses defined keyways that only allow insertion and subsequent locking rotation when correctly aligned. For more information, please refer to the keying guide for correct use.

## Notes

- Depending on the cable length (L), the following length tolerances apply:
0 m...3.0 m: + 100 mm | 3.0...10.0 m: ± 100 mm | ≥ 10.0 m: ± 2%
- Illustrations similar
- Further cable length on request. The last three digits of the ordering information is the cable length in decimeters, e.g. ZKxxxx-xxxx-x020 = cable length 2.00 m
- The design of the pre-assambled cable shown here may differ from the products supplied, despite technically identical specifications.

| CE, UL | |
|---|---|
| CE | yes |

| Ordering information | Length |
|---|---|
| ZK7752-6566-0100 | 10.00 m |

| | |
|---|---|
| ZK7752-6566-0030 | 3.00 m |
| ZK7752-6566-0050 | 5.00 m |

Further length on request

| Accessories | |
|---|---|
| ZS7300-B003 | B23 protection cap, plug, plastic, IP67, packaging unit = 10 pieces, including loss protection |
| ZS7300-B004 | B23 protection cap, plug, metal, IP67, packaging unit = 5 pieces, including loss protection |
| ZS7300-B005 | B23 color coding connector/square flange, red, packaging unit = 10 pieces |
| ZS7300-B006 | B23 color coding connector/square flange, yellow, packaging unit = 10 pieces |
| ZS7300-B007 | B23 color coding connector/square flange, blue, packaging unit = 10 pieces |
| ZS7300-B008 | B23 color coding connector/square flange, green, packaging unit = 10 pieces |
| ZS7300-B015 | B23 color coding connector/square flange, orange, packaging unit = 10 pieces |
| ZS7300-B016 | B23 color coding connector/square flange, gray, packaging unit = 10 pieces |
| ZB8802-0003 | assembly tool for B23 connector, AF27 |
| ZB8805-0002 | Flange/Panel feed-through for B23 pre-assembled, for fixing the connector, plastic, including screws, washers and lock nuts |



Products marked with a crossed-out wheeled bin shall not be discarded with the normal waste stream. The device is considered as waste electrical and electronic equipment. The national regulations for the disposal of waste electrical and electronic equipment must be observed.

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