# ZK7231-3100-0xxx | B17, Power cable, PUR, 5 G 1.5 mm<sup>2</sup>, drag-chain suitable, key 1 (24 V DC)



B17, plug, straight, female+blanking plug, pins 4+PE, Power – open end, 5-wire



### Plugs

| Electrical data                 | Head A                                    | Head B   |
|---------------------------------|---|----------|
| Rated voltage (power)           | 630 V AC / 850 V DC, 600V AC / DC (UL)    | -        |
| Rated current (power)           | 15.5 A at 45 °C                           | -        |
| Rated impulse voltage (power)   | 6.0 kV                                    | -        |
| Voltage proof (contact/contact) | 3.31 kV AC                                | -        |
| Contact resistance              | < 5 mΩ                                    | -        |
| Insulation resistance           | ≥ 100 M $\Omega$ (according to IEC 60512) | -        |
| Mechanical data                 |   |          |
| Installation size               | B17                                       | open end |
| Connector type                  | plug                                      | -        |
| Configuration                   | straight                                  | -        |
| Contact type                    | female+blanking plug                      | -        |
| Number of positions (face)      | pins 4+PE                                 | 5-wire   |
| Coding                          | Power                                     | -        |

| Mechanical coding               | key 1 (2 x 24 V DC + PE)  | - |
|---------------------------------|---|---|
| Wire termination                | crimp connection  | - |
| Mating cycles                   | ≥ 100   | - |
| Way of locking                  | bayonet   | - |
| Weight per piece                | 0.090 kg (0.198 lb)   | - |
| Body color                      | black   | - |
| Body material                   | TPU, UL 94 HB   | - |
| Coupling nut material           | GD-Zn, Ni   | - |
| Seal                            | NBR, FPM  | - |
| Contact carrier material        | PA 6, UL 94 V0  | - |
| Contact carrier color (power)   | red   | - |
| Contact plating                 | Au over Ni  | - |
| Contact material                | copper alloy  | - |
| Environmental data              |   |   |
| Shock resistance                | 50 g (490 m/s²) conforms to IEC 60512-6c,<br>11 ms; 18 shocks per direction, 3 axes                 | - |
| Vibration resistance            | 5 g (50 m /s²) conforms to IEC 60512-6d,<br>10 Hz 500 Hz.; 10 cycles per axis; 6 h<br>full duration | - |
| Ambient temperature (operation) | -30+80°C, -22+176°F   | - |
| Protection rating               | IP65/67 in screwed condition (according to IEC 60529)   | - |
| Pollution level                 | 3/2 (according to IEC 60664-1)  | - |
|                                 |   |   |

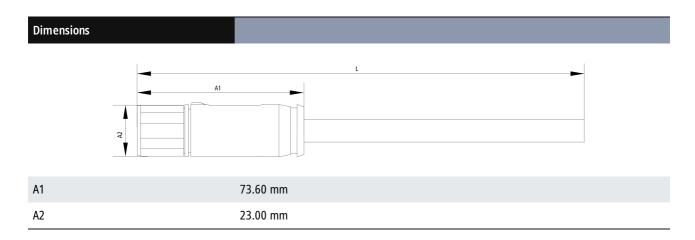
## Cable

| Electrical data            |   |
|----------------------------|---|
| Operating voltage          | ≤ 300 V                                 |
| Wire resistance            | $\leq$ 58 $\Omega$ /km (20°C)           |
| Test voltage               | ≥ 3000 V                                |
| Mechanical data            |   |
| Conductor construction     | 84 x 0.15 mm                            |
| Cross-section              | 5 G 1.5 mm <sup>2</sup> (approx. AWG16) |
| Outer cable diameter       | 7.80 ±0.05 mm                           |
| Min. bending radius, moved | 6 x outer cable diameter                |
| Weight                     | 112 kg/km (0.075 lb/1000 ft)            |
| Use                        | drag-chain suitable                     |
| Max. acceleration          | 10 m/s <sup>2</sup>                     |
| Max. speed                 | 5 m/s                                   |



| Max. travel distance               | 100 m                                   |
|------------------------------------|---|
| Max. number of cycles              | 2 million                               |
| Jacket color                       | black                                   |
| Material jacket                    | PUR (polyurethane)                      |
| Wire color code                    | brown, white, black, blue, green/yellow |
| Environmental data                 |   |
| Operation temperature range, moved | -25+80°C                                |
| Flame-retardant                    | according to cULus 20549                |
| Halogen-free                       | DIN VDE 0472 part 815                   |
| RoHS compliant                     | yes                                     |

| Contact assembly |   |
|------------------|---|
|                  | weiß/white grün-gelb/green-yellow schwarz/black blau/blue braun/brown |



#### **Notes**

- Depending on the cable length (L), the following length tolerances apply:
- 0 m...3.0 m:  $\pm$  100 mm | 3.0...10.0 m:  $\pm$  100 mm |  $\geq$  10.0 m:  $\pm$  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-xx020 = cable length 2.00 m

CE, UL



| CE yes |  |
|--------|--|
|--------|--|

| Ordering information | Length  |
|----------------------|---------|
| ZK7231-3100-0030     | 3.00 m  |
| ZK7231-3100-0150     | 15.00 m |
| ZK7231-3100-0200     | 20.00 m |
| ZK7231-3100-0050     | 5.00 m  |
| ZK7231-3100-0100     | 10.00 m |

Further length on request

| Accessories |   |
|-------------|---|
| ZS7200-B003 | B17 protection cap, plug, plastic, IP67, packaging unit = 10 pieces, including loss protection                              |
| ZS7200-B005 | B17 color coding connector/square flange, red, packaging unit = 10 pieces   |
| ZB8805-0001 | Flange/Panel feed-through for B17 pre-assembled, for fixing the connector, plastic, including screws, washers and lock nuts |
| ZS7200-B016 | B17 color coding connector/square flange, gray, packaging unit = 10 pieces  |
| ZS7200-B007 | B17 color coding connector/square flange, blue, packaging unit = 10 pieces  |
| ZS7200-B006 | B17 color coding connector/square flange, yellow, packaging unit = 10 pieces  |
| ZS7200-B008 | B17 color coding connector/square flange, green, packaging unit = 10 pieces   |
| ZS7200-B015 | B17 color coding connector/square flange, orange, packaging unit = 10 pieces  |
| ZB8802-0003 | assembly tool for B23 connector, AF27   |



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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