

ZK7231-3031-0xxx | B17, Power cable, PUR, 5 G 1.5 mm², drag-chain suitable, key 1 (24 V DC)



B17, plug, straight, male+blanking plug, pins 4+PE, Power – B17, plug, straight, female+blanking plug, pins 4+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)	15.5 A at 45°C	15.5 A at 45°C
Rated impulse voltage (power)	6.0 kV	6.0 kV
Voltage proof (contact/contact)	3.31 kV AC	3.31 kV AC
Contact resistance	< 5 mΩ	< 5 mΩ
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		
Installation size	B17	B17
Connector type	plug	plug
Configuration	straight	straight
Contact type	male+blanking plug	female+blanking plug
Number of positions (face)	pins 4+PE	pins 4+PE
Coding	Power	Power

Mechanical coding	key 1 (2 x 24 V DC + PE)	key 1 (2 x 24 V DC + PE)
Wire termination	crimp connection	crimp connection
Mating cycles	≥ 100	≥ 100
Way of locking	bayonet	bayonet
Weight	0.090 kg (0.1984 lb)	0.090 kg (0.1984 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	≤ 300 V	
Wire resistance	≤ 58 Ω/km (20°C)	
Test voltage	≥ 3000 V	
Mechanical data		
Conductor construction	84 x 0.15 mm	
Cross-section	5 G 1.5 mm ² (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 ²	
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	according to DIN VDE 0472 part 815
RoHS compliant	yes

Pin assignment	

Dimensions	
A1	70 mm
A2	23 mm
B1	73.60 mm
B2	23.00 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-xxx-x020 = cable length 2.00 m

- B17 3-pin 1.5 mm² and B17 3 3-pin 2.5 mm² are not pin compatible

CE, UL	
CE	yes

Ordering information	Length
ZK7231-3031-0010	1.00 m
ZK7231-3031-0020	2.00 m
ZK7231-3031-0030	3.00 m
ZK7231-3031-0040	4.00 m
ZK7231-3031-0050	5.00 m
ZK7231-3031-0060	6.00 m
ZK7231-3031-0070	7.00 m
ZK7231-3031-0080	8.00 m
ZK7231-3031-0090	9.00 m
ZK7231-3031-0100	10.00 m
ZK7231-3031-0120	12.00 m
ZK7231-3031-0150	15.00 m
ZK7231-3031-0170	17.00 m
ZK7231-3031-0200	20.00 m

Further length on request

Accessories	
ZS7200-B003	B17 protection cap, plug, plastic, IP67, packaging unit = 10 pieces, including loss protection
ZS7200-B004	B17 protection cap, plug, metal, IP67, packaging unit = 5 pieces, including loss protection
ZS7200-B005	B17 color coding connector/square flange, red, packaging unit = 10 pieces
ZS7200-B006	B17 color coding connector/square flange, yellow, packaging unit = 10 pieces
ZS7200-B007	B17 color coding connector/square flange, blue, 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
ZS7200-B016	B17 color coding connector/square flange, gray, packaging unit = 10 pieces
ZB8802-0002	assembly tool for B17 connector, AF22

ZB8805-0001

Flange/Panel feed-through for B17 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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