

ZK7A33-3431-0xxx | B23, power cable, PUR, 5 G 4 mm², drag-chain suitable, key 3 (user-defined voltage)



B23, socket, straight, male+blanking plug, pins 4+PE, Power – B23, 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)	28 A at 40°C	28 A at 40°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		
Accessories type	Connectors	Connectors
Installation size	B23	B23
Connector type	socket	plug
Configuration	straight	straight
Contact type	male+blanking plug	female+blanking plug
Number of positions (face)	pins 4+PE	pins 4+PE

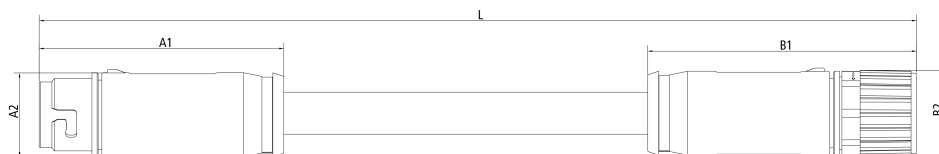
Coding	Power	Power
Mechanical coding	key 3 (user-defined voltage)	key 3 (user-defined voltage)
Wire termination	crimp connection	crimp connection
Mating cycles	≥ 100	≥ 100
Way of locking	bayonet	bayonet
Weight per piece	-	0.100 kg (0.220 lb)
Body color	metal	metal
Body material	CuZn, Ni	CuZn, Ni
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	NBR	NBR
Contact carrier material	PA, UL 94	PA, UL 94
Contact carrier color (power)	red	red
Contact plating	Ni, Au gal.	Ni, Au gal.
Contact material	copper alloy	copper alloy
Max. wire cross-section (power)	AWG12/4.0 mm ²	AWG12/4.0 mm ²
Max. cable outer diameter	13.0...15.0 mm, 15.0...16.0 mm	13.0...15.0 mm, 15.0...16.0 mm
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
RoHS compliant	yes	yes
Ambient temperature (operation)	-20...+90°C, -4...+194°F	-20...+90°C, -4...+194°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	
Rated voltage	600 V / 1000 V
Operating voltage	≤ 1000 V AC
Test voltage	4000 V
Mechanical data	
Cross-section	5 G 4 mm ² (AWG12)
Outer cable diameter	12.1 mm ± 0.3 mm (0.4763" ± 0.0118")
Min. bending radius, moved	7.5 x outer cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter

Conductor material (power)	copper bare
Use	drag-chain suitable
Max. acceleration	80 m/s ²
Max. speed	10 m/s
Max. number of cycles	10 million
Jacket color	black (similar to RAL9005)
Material jacket	PUR (polyurethane)
Wire color code	black 1, black 2, black 3, black 4, green-yellow
Wire insulation material	TPE (thermoplastic elastomer)
Printing color	white
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	168 h 100°C (according to DIN EN 60811-2-1)
Flame-retardant	according to IEC 60332-1, cable flame test, FT1
Halogen-free	yes
Silicone-free	yes
RoHS compliant	yes
CE	yes
UL	yes

Contact assembly**Dimensions**



A1	approx. 80.0 mm
A2	29.0 mm
B1	approx. 80.0 mm
B2	29.0 mm

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: $\pm 2\%$
- Illustrations similar
- Further cable length on request. The last three digits of the ordering information is the cable length in decimeters, e.g.
ZKxxxx-xxx-x020 = cable length 2.00 m

CE, UL	
CE	yes

Ordering information	Length
ZK7A33-3431-0010	1.00 m
ZK7A33-3431-0020	2.00 m
ZK7A33-3431-0030	3.00 m
ZK7A33-3431-0040	4.00 m
ZK7A33-3431-0050	5.00 m
ZK7A33-3431-0070	7.00 m
ZK7A33-3431-0220	22.00 m

Accessories	
ZS7300-B001	B23 protection cap, socket/flange, plastic, IP67, packaging unit = 10 pieces, including loss protection
ZS7300-B002	B23 protection cap, socket/flange, metal, IP67, packaging unit = 5 pieces, including loss protection
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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