

ZK7733-30C1-Xxxx | B23, power cable, special assignment, PUR, 5 G 4 mm², drag-chain suitable, (special mechanical coding)



B23, plug, straight, long, male+blanking plug, pins 4+PE, Power – B23, plug, straight, long, female+blanking plug, pins 4+PE, Power



Plugs

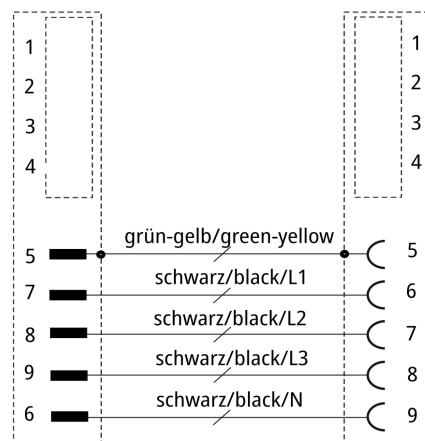
Electrical data	Head A	Head B
Rated voltage (power)	630 V AC / 850 V DC, 600V AC / DC (UL)	630 V AC / 850 V DC, 600V AC / DC (UL)
Rated current (power)	28 A at 40°C	28 A at 40°C
Rated impulse voltage (power)	6.0 kV	6.0 kV
Rated impulse voltage (Ethernet)	1.0 kV	1.0 kV
Contact resistance	< 5 mΩ	< 5 mΩ
Insulation resistance	≥ 100 MΩ	≥ 100 MΩ
Mechanical data		
Installation size	B23	B23
Connector type	plug	plug
Configuration	straight, long	straight, long
Contact type	male+blanking plug	female+blanking plug
Number of positions (face)	pins 4+PE	pins 4+PE

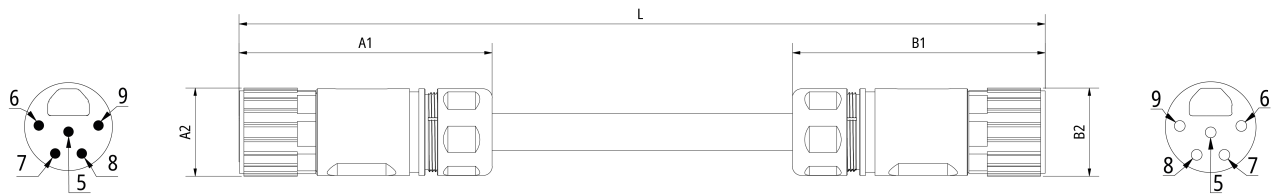
Coding	Power	Power
Mechanical coding	key 2 (user-defined voltage)	key 3 (user-defined voltage)
Wire termination	crimp connection	crimp connection
Mating cycles	≥ 100	≥ 100
Way of locking	bayonet	bayonet
Weight	0.100 kg (0.2205 lb)	0.100 kg (0.2205 lb)
Body color	black	black
Body material	-	TPU, UL 94 HB
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	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
RoHS compliant	yes	yes
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	
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

Pin assignment**Dimensions**



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: $\pm 2\%$
- 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-x020 = cable length 2.00 m
- The design of the pre-assembled cable shown here may differ from the products supplied, despite technically identical specifications.

CE, UL	
CE	yes

Ordering information	Length
ZK7733-30C1-X010	1.00 m
ZK7733-30C1-X020	2.00 m
ZK7733-30C1-X030	3.00 m
ZK7733-30C1-X040	4.00 m
ZK7733-30C1-X050	5.00 m
ZK7733-30C1-X100	10.00 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	for a comfortable locking of the bayonet closing of the connector family in the size B23, 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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