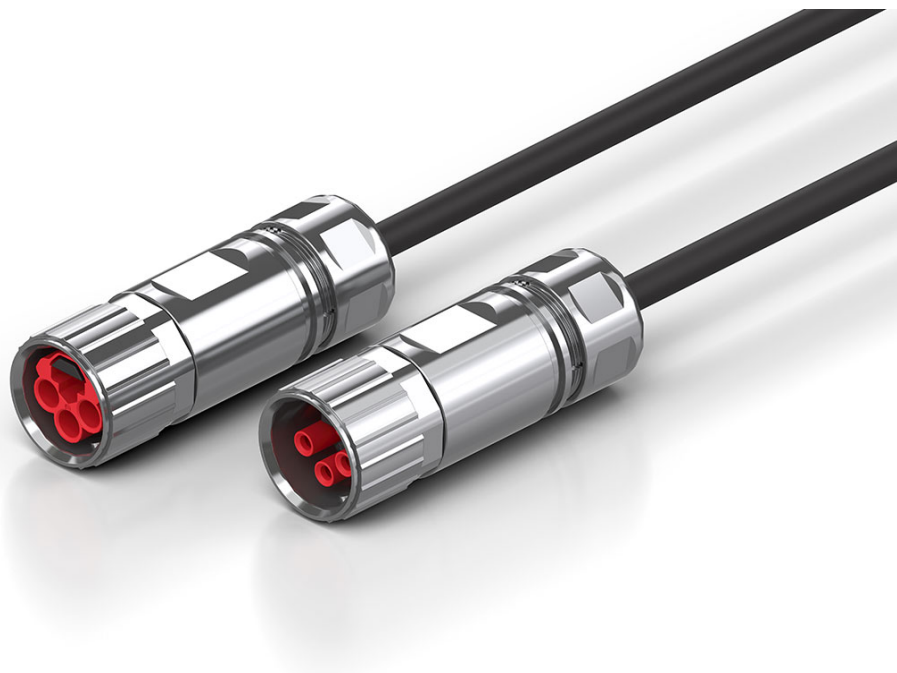


ZK7780-1819-0xxx | B23, power cable, PUR, 3 G 6 mm², drag-chain suitable, key 2



B23, plug, straight, male+blanking plug, pins 2+PE, Power – B23, plug, straight, female+blanking plug, pins 2+PE, Power



Plugs

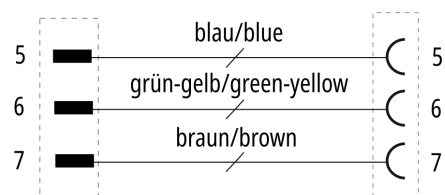
Electrical data	Head A	Head B
Rated voltage (power)	630 V AC / 850 V DC, 600V AC / DC (UL)	630 V AC / 850 V DC, 600V AC / DC (UL)
Rated current (power)	28 A at 40°C	28 A at 40°C
Rated impulse voltage (power)	6.0 kV	6.0 kV
Rated impulse voltage (Ethernet)	1.0 kV	1.0 kV
Contact resistance	< 5 mΩ	< 5 mΩ
Insulation resistance	≥ 100 MΩ (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 2+PE	pins 2+PE
Coding	Power	Power

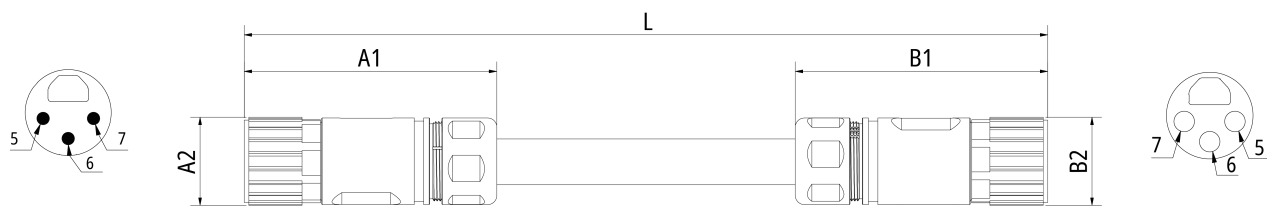
Mechanical coding	key 2 (user-defined voltage)	key 2 (user-defined voltage)
Wire termination	crimp connection	crimp connection
Mating cycles	≥ 100	≥ 100
Way of locking	bayonet	bayonet
Body color	metal	metal
Body material	CuZn, Ni	CuZn, Ni
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Contact carrier material	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
Max. wire cross-section	10.0 mm ²	10.0 mm ²
Max. cable outer diameter	11.0...13.0 mm	11.0...13.0 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)	-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
Test voltage	4000 V
Mechanical data	
Conductor construction	fine stranded according to VDE 0295 cl. 6 / IEC 60228 cl. 6
Cross-section	3 G 6 mm ² (AWG10)
Outer cable diameter	12.6 mm
Min. bending radius, moved	7.5 x outer cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter
Conductor material	copper bare
Shielding	no
Use	drag-chain suitable

Max. acceleration	80 m/s ²
Max. speed	free-standing: 10 m/s, sliding: 6 m/s
Max. travel distance	400 m
Jacket color	black (similar to RAL9005)
Material jacket	TPE
Material jacket, further characteristics of	halogen-free, flame-retardant, matt and low adhesion
Wire color code	black, 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 60811-404)
Flame-retardant	according to IEC 60332-1, cable flame test, FT1
Halogen-free	yes
Silicone-free	yes
RoHS compliant	yes
CE	yes
Approvals	UL, CSA - cURus 80°C 1000V

Pin assignment**Dimensions**



A1	83 mm
A2	29 mm
B1	83 mm
B2	29 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-assembled cable shown here may differ from the products supplied, despite technically identical specifications.

CE, UL	
CE	yes

Ordering information	Length
ZK7780-1819-0010	1.00 m
ZK7780-1819-0020	2.00 m
ZK7780-1819-0030	3.00 m
ZK7780-1819-0040	4.00 m
ZK7780-1819-0050	5.00 m
ZK7780-1819-0060	6.00 m
ZK7780-1819-0070	7.00 m
ZK7780-1819-0080	8.00 m
ZK7780-1819-0090	9.00 m

ZK7780-1819-0100	10.00 m
ZK7780-1819-0120	12.00 m
ZK7780-1819-0150	15.00 m
ZK7780-1819-0200	20.00 m

Further length on request



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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