

ZK7644-1846-0xxx | Power cable, IP67, 3 G 2.5 mm², PUR, drag chain suitable, mechanical coding 2



B17, plug, straight, male+blanking plug, pins 2+PE, Power – B17, 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)	15.5 A at 50°C	15.5 A at 50°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		
Installation size	B17	B17
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
Weight	0.090 kg (0.1984 lb)	0.090 kg (0.1984 lb)
Body color	metal	metal
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
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	300 V
Test voltage	≥ 2000 V
Mechanical data	
Cross-section (power)	3 x 2.5 mm ² (approx. AWG14)
Outer cable diameter	8.4 mm ± 0.2 mm
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Shielding	no
Use	drag-chain suitable
Jacket color	black
Material jacket	PUR (polyurethane)
Wire color code	brown, blue, green/yellow
Wire insulation material	PP (polypropylene)

Printing color	white
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Environmental data

Operation temperature range, moved	-30...+80°C, -22...+176°F
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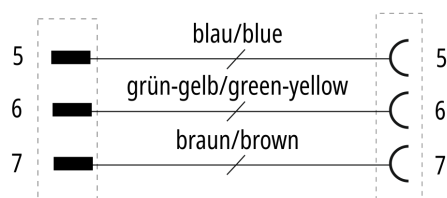
Oil resistance	according to EN 50363-10-2
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Flame-retardant	according to UL FT2
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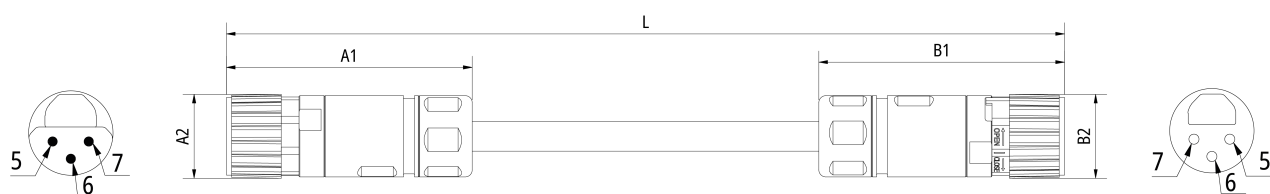
Halogen-free	according to IEC 60754-1
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RoHS compliant	yes
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Pin assignment



Dimensions



B1	73.60 mm
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B2	23.00 mm
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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
ZK7644-1846-0050	5.00 m
ZK7644-1846-0100	10.00 m
ZK7644-1846-0150	15.00 m
ZK7644-1846-0200	20.00 m
ZK7644-1846-0250	25.00 m
ZK7644-1846-0300	30.00 m
ZK7644-1846-0350	35.00 m
ZK7644-1846-0400	40.00 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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