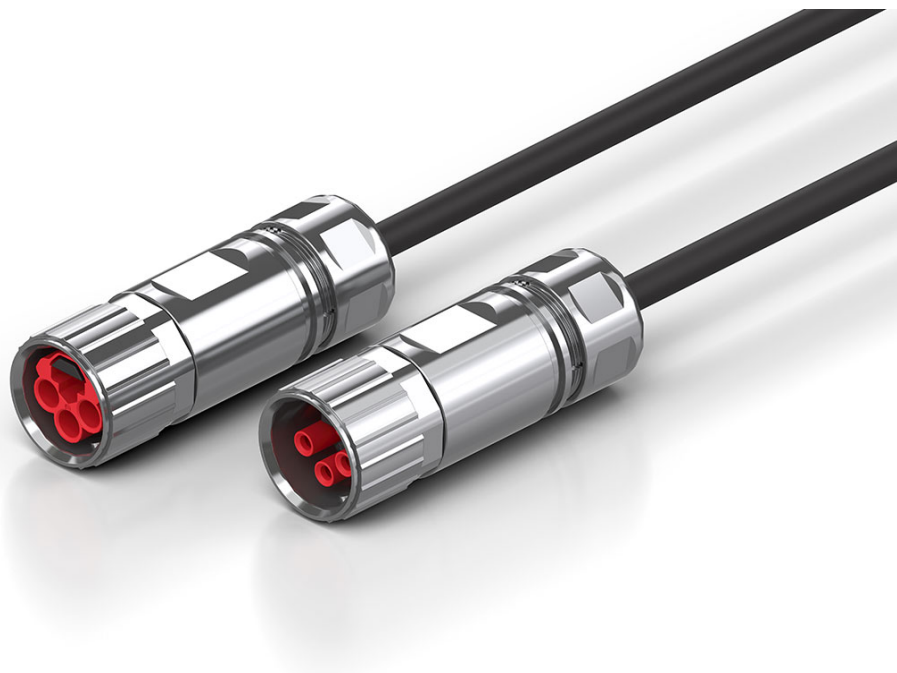


ZK7744-1819-0xxx | B23, power cable, PUR, 3 G 2.5 mm², drag-chain suitable, key 2



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)
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 (400 V AC)	key 2 (400 V AC)
Wire termination	crimp connection	crimp connection
Body color	metal	metal
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FKM/FPM	NBR, FPM

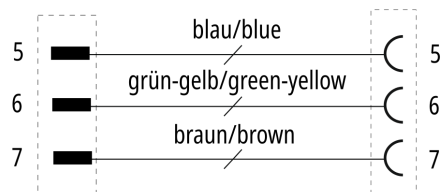
Contact carrier material	PA, UL 94 V-0	PA, UL 94 V-0
Contact carrier color (power)	red	red
Contact plating	Au over Ni	Au over Ni
Contact material	copper alloy	copper alloy
Max. wire cross-section	4.0 mm ²	4.0 mm ²
Max. cable outer diameter	11.0...13.0 mm	11.0...13.0 mm
Environmental data		
Shock resistance	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
Ambient temperature (operation)	-30...+80°C, -22...+176°F	-30...+80°C, -22...+176°F
Protection rating	IP65/IP67 (according to EN 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

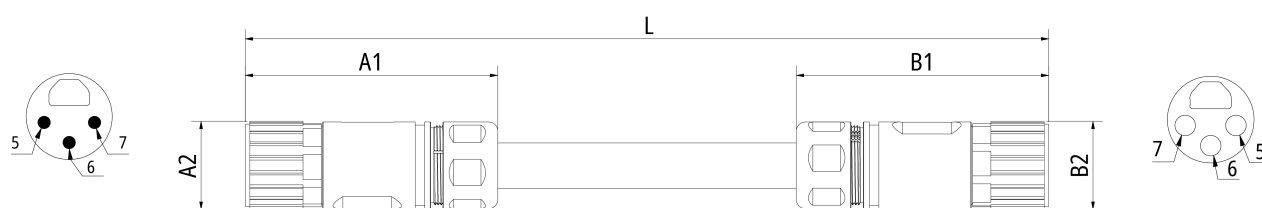
Electrical data	
Rated voltage	300 V
Test voltage	≥ 2000 V
Mechanical data	
Cross-section (power)	3 x 2.5 mm ² (approx. AWG14)
Outer cable diameter	8.4 mm ± 0.2 mm
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Shielding	no
Use	drag-chain suitable
Jacket color	black
Material jacket	PUR (polyurethane)
Wire color code	brown, blue, green/yellow
Wire insulation material	PP (polypropylene)
Printing color	white
Environmental data	
Operation temperature range, moved	-30...+80°C, -22...+176°F
Oil resistance	according to EN 50363-10-2
Flame-retardant	according to UL FT2
Halogen-free	according to IEC 60754-1

RoHS compliant	yes
----------------	-----

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
ZK7744-1819-0010	1.00 m
ZK7744-1819-0020	2.00 m
ZK7744-1819-0030	3.00 m
ZK7744-1819-0040	4.00 m
ZK7744-1819-0050	5.00 m
ZK7744-1819-0060	6.00 m
ZK7744-1819-0070	7.00 m
ZK7744-1819-0080	8.00 m
ZK7744-1819-0090	9.00 m
ZK7744-1819-0100	10.00 m
ZK7744-1819-0120	12.00 m
ZK7744-1819-0150	15.00 m
ZK7744-1819-0200	20.00 m
ZK7744-1819-0230	23.00 m
ZK7744-1819-0250	25.00 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.

Beckhoff®, ATRO®, EtherCAT®, EtherCAT G®, EtherCAT G10®, EtherCAT P®, MX-System®, Safety over EtherCAT®, TC/BSD®, TwinCAT®, TwinCAT/BSD®, TwinSAFE®, XFC®, XPlanar® and XTS® are registered trademarks of and licensed by Beckhoff Automation GmbH. Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

© Beckhoff Automation GmbH & Co. KG 07/2026

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual application do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.