ZK2060-2100-0xxx | Power cable, PUR, 4 G 1.5 mm², drag-chain suitable

M12, plug, straight, male, 4-pin, S-coded – open end, 4-wire



Plugs

Electrical data	Head A	Head B
Rated voltage	630 V AC/DC (according to IEC 61076-2-111)	-
Rated current	12 A at 40°C (according to IEC 61076-2-111)	-
Contact resistance	< 10 mΩ	-
Insulation resistance	≥ 100 MΩ	-
Mechanical data		
Accessories type	Connectors	-
Installation size	M12	open end
Connector type	plug	-
Configuration	straight	-
Contact type	male	-
Number of positions (face)	4-pin	4-wire
Coding	S-coded	-

Wire termination	screw connection	-
Recommended torque, nut	0.6 Nm	-
Recommended torque, screw termination	0.2 Nm	-
Mating cycles	≥ 100	-
Body color	black	-
Flange housing material	PA 66 UL 94 HB	-
Coupling nut material	PA	-
Contact material	brass/gold plated	-
Max. wire cross-section	AWG20 ... AWG12 (0.5 mm²...2.50 mm²)	-
Stripping length	4...5 mm	-
Max. cable outer diameter	8.0...12 mm	-
Environmental data		
RoHS compliant	yes	-
Ambient temperature (operation)	-25...+85°C, -13...+185°F	-
Protection rating	IP67	-
UL	no, UL certification in preparation	-
Application Note	Robust and high power transmission up to 12 A and 630 V for AC and DC applications	-

Cable

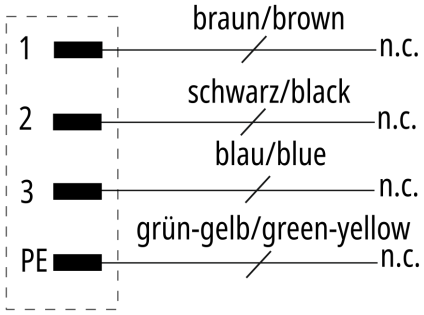
Electrical data	
Operating voltage	600/1000 V
Test voltage	10000 V, 1 min.
Mechanical data	
Conductor construction	84 x 0.15 mm
Cross-section	4 G 1.5 mm² (approx. AWG16)
Outer cable diameter	7.6 mm ± 0.3 mm (0.2992" ± 0.0118")
Min. bending radius, moved	5 x outer cable diameter
Min. bending radius, fixed installation	10 x outer cable diameter
Conductor material	copper bare
Use	drag-chain suitable
UL-Style	UL758 (AWM) Style 21223/11323, CSA C22.2 No. 210 - AWM I/II A/B
Max. acceleration	5 m/s²
Max. speed	3 m/s
Max. travel distance	5 m (horizontal)
Max. number of cycles	5 million

Jacket color	black
Material jacket	PUR (polyurethane)
Wire color code	brown, black, blue, green/yellow
Wire insulation material	PP (polypropylene)
Torsion angle in °/m	max. ± 15 °/m
Torsion speed	35 cycle/min.
Number of torsion cycles	1 million

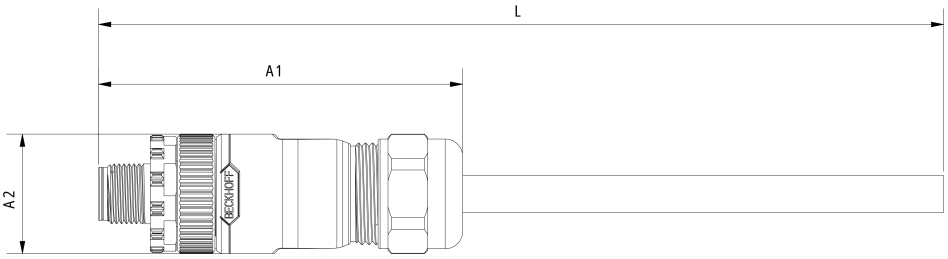
Environmental data

Operation temperature range, moved	-30...+80°C, -22...+176°F
Operation temperature range, fixed installation	-50...+80°C, -58...+176°F
LABS-free	yes
Flame-retardant	according to IEC 60332-1-2, VW-1 to UL1581
Halogen-free	yes
RoHS compliant	yes
UL	yes, UL E-file number: E41773
Approvals	UL-Style AWM 21223 80°C 1000V

Pin assignment



Dimensions



A1	~73 mm
A2	Ø 24 mm
A3	AF22

Notes

- Depending on the cable length (L), the following length tolerances apply:
  0 m...<0.2 m: ± 10 mm | 0.2...4.0 m: + 40 mm | ≥ 4.0 m: + 1%
- Illustrations similar
- Further cable length on request.

CE, UL	
CE	yes

Ordering information	Length
ZK2060-2100-0050	5.00 m
ZK2060-2100-0100	10.00 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 08/2026

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 expressively agreed in the terms of contract.