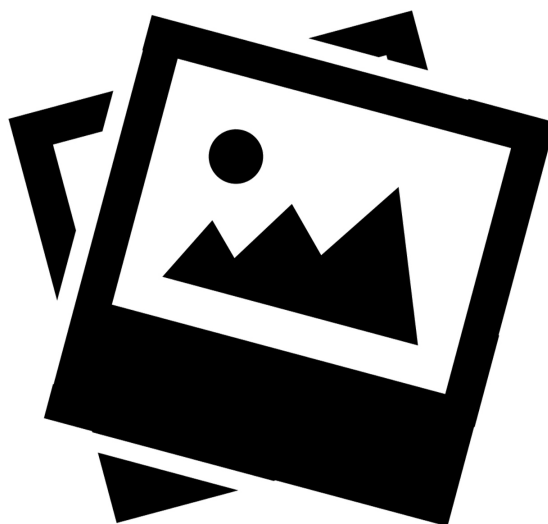


ZK2000-4100-0xxx | Sensor cable, PUR, 3 x 0.25 mm², drag-chain suitable



8 mm, plug, straight, male, 3-pin, A-coded – open end, 3-wire



Plugs

Electrical data	Head A	Head B
Rated voltage x-pin	3-pin, 60 V (according to IEC 61076-2-101)	-
Rated current (signal/24V)	4 A at 40 °C (acc.to IEC 61076-2-104)	-
Shielding	no	-
Insulation resistance	≥ 10 GΩ (according to IEC 60512-2)	-
Mechanical data		
Installation size	8 mm	open end
Connector type	plug	-
Configuration	straight	-
Contact type	male	-
Number of positions (face)	3-pin	3-wire
Coding	A-coded	-
Recommended torque, nut	-	-
Mating cycles	≥ 100 (according to IEC 60512-9a)	-
Way of locking	snap	-

Body color	black	-
Body material	TPU, UL 94	-
Seal	FPM	-
Contact carrier material	TPU, UL 94	-
Contact plating	Ni, Au gal.	-
Contact material	CuZn	-
Environmental data		
Ambient temperature (operation)	-30...+80 °C, -22...+176 °F	-
Protection rating	IP67 in screwed condition (according to IEC 60529)	-
Pollution level	3/2 (according to IEC 60664-1)	-

Cable

Electrical data		
Rated voltage	≤ 300 V	
Insulation resistance	≥ 10 GΩ (according to IEC 60512-2)	
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20 °C)	
Test voltage	≥ 3000 V	
Mechanical data		
Conductor construction (signal/24V)	32 x 0.10 mm	
Cross-section	3 x 0.25 mm ² (AWG24)	
Outer cable diameter	4.4 mm ± 0.15 mm (0.173" ± 0.0059")	
Min. bending radius, moved	6 x outer cable diameter	
Weight	28 kg/km (18.8 lb/1000 ft)	
Shielding	no	
Use	drag-chain suitable	
Max. acceleration	10 m/s ²	
Max. speed	5 m/s	
Max. number of cycles	10 million at max. 20 m travel distance, 2 million at max. 100 m travel distance	
Jacket color	black	
Material jacket	PUR (polyurethane)	
Wire color code	brown, blue, black	
Wire insulation material	PP (polypropylene)	
Printing on the jacket	Li9Y11Y 3x0.25mm ² E257058 CRUus (UL-Logo) AWM Style 20549 AWM II A/B 80°C 300 V FT2	
Printing color	white	
Environmental data		

Operation temperature range, moved	-25...+80 °C, -13...+176 °F
Oil resistance	Oil and greases resistant
Flame-retardant	according to cULus 20549
Halogen-free	DIN VDE 0472 part 815
CE	yes
UL	yes, UL E-file number: E257058

Dimensions

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

UL yes, UL E-file number: E480185

Ordering information

Ordering information	Length
ZK2000-4100-0020	2.00 m
ZK2000-4100-0050	5.00 m



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®, TwinCAT®, TwinCAT/BSD®, TC/BSD®, EtherCAT®, EtherCAT G®, EtherCAT G10®, EtherCAT P®, Safety over EtherCAT®, TwinSAFE®, XFC®, XTS® and XPlanar® 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 05/2023

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.