

ZK2000-6500-0xxx | Sensor cable, PUR, 4 x 0.25 mm², drag-chain suitable



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



Plugs

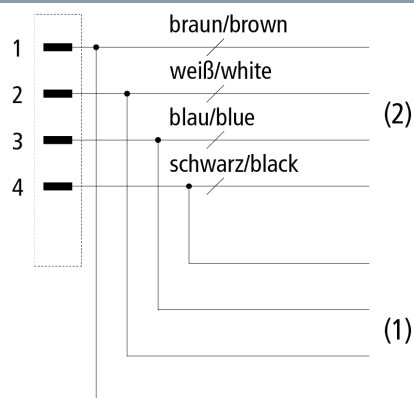
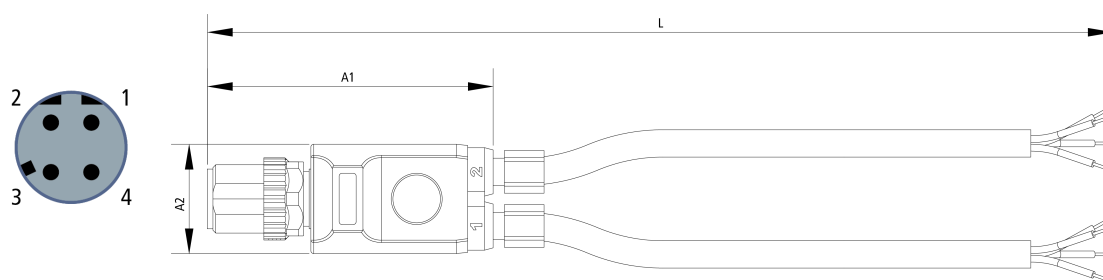
Electrical data	Head A	Head B
Rated voltage	250 V (according to IEC 61076-2-101)	-
Rated current	4 A at 40°C (according to IEC 61076-2-101)	-
Shielding	no	-
Insulation resistance	≥ 10 GΩ (according to IEC 60512-2)	-
Mechanical data		
Installation size	M12	open end
Connector type	plug	-
Configuration	straight	-
Contact type	male	-
Number of positions (face)	4-pin	4-wire
Coding	D-coded	-
Recommended torque, nut	0.6 Nm	-
Mating cycles	≥ 100 (according to IEC 60512-9a)	-
Way of locking	screw	-

Body color	black	-
Body material	TPU, self-extinguishing	-
Coupling nut material	CuZn, Ni	-
Seal	FPM	-
Contact carrier color	red	-
Contact carrier material	TPU GF, UL 94	-
Contact plating	Ni, Au gal.	-
Contact material	CuZn	-
Environmental data		
Special features	halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1	-
RoHS compliant	yes	-
Ambient temperature (operation)	-25...+80°C, -13...+176°F	-
Protection rating	IP65/67 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	4 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	white, blue, black, brown
Wire insulation material	PP (polypropylene)
Printing color	white
Environmental data	
Operation temperature range, moved	-25...+80°C, -13...+176°F
Special features	Class 6 according to IEC 60228
Flame-retardant	according to cULus 20549
Halogen-free	according to DIN VDE 0472 part 815
CE	yes
UL	no, UL certification in preparation

Pin assignment**Dimensions**

A1	50.00 mm
A2	19.30 mm

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.
- Cable output 1 is marked with an additional label.

Ordering information	Length
ZK2000-6500-0005	2 x 0.50 m
ZK2000-6500-0010	2 x 1.00 m
ZK2000-6500-0020	2 x 2.00 m
ZK2000-6500-0050	2 x 5.00 m
ZK2000-6500-0100	2 x 10.00 m
ZK2000-6500-0150	2 x 15.00 m

Further length on request

Accessories	
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0002	torque cable key, M12/wrench size 13, for ZB8801-0000



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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