

ZK2000-7100-0xxx | Sensor cable, PUR, 4 x 0.34 mm², drag chain suitable

M12, plug, straight, male, 5-pin, A-coded – open end, 4-wire + shielding

Plugs

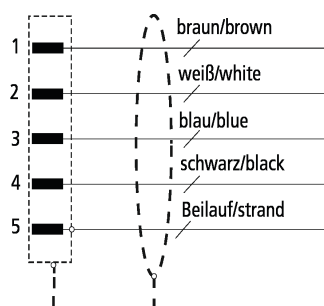
Electrical data	Head A	Head B
Rated voltage	60 V (according to IEC 61076-2-101)	-
Rated current	4 A at 40 °C (according to IEC 61076-2-101)	-
Shielding	no	-
Contact resistance	< 10 mΩ	-
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	-
Mechanical data		
Installation size	M12	open end
Connector type	plug	-
Configuration	straight	-
Contact type	male	-
Number of positions (face)	5-pin	4-wire + shielding
Coding	A-coded	-
Recommended torque, nut	0.6 Nm	-
Mating cycles	≥ 100 (according to IEC 60512-9a)	-
Way of locking	screw	-
Weight per piece	0.023 kg (0.0507 lb)	-
Body colour	black	-
Body material	TPU, UL 94 HB	-
Coupling nut material	GD-Zn, Ni	-
Seal	FPM	-
Contact carrier colour	red	-
Contact carrier material	PA, UL 94 V-0	-
Contact material	CuZn, Ni b/Au 0.2 gal.	-
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	-

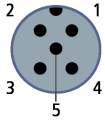
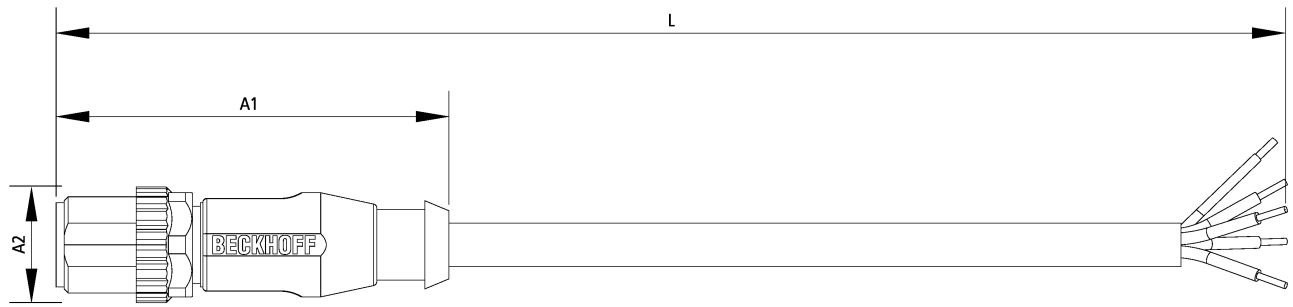
Ambient temperature (operation)	-30...+85 °C, -22...+185 °F	-
Protection class	IP 65/67 in screwed condition (according to IEC 60529)	-
Pollution level	3/2 (according to IEC 60664-1)	-

Cable

Electrical data	
Rated voltage	≤ 300 V
Insulation resistance	10 MΩ * km
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20 °C)
Test voltage	≥ 3000 V
Mechanical data	
Conductor construction (signal/24V)	42 x 0.10 mm
Cross section (power)	4 x 0.34 mm ² (AWG 22) and shield
Cross section (signal)	4 x 0.34 mm ² (AWG22) and shield
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	45 kg/km (30.2 lb/1000 ft)
Outer cable diameter	5.4 mm ± 0.2 mm (0.213" ±0.0079")
Shielding	aluminium-clad foil, braiding of tinned copper wires
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	5 m/s ²
Max. speed	1.6 m/s
Max. travel distance	5 m (horizontal with 5 m/s ²), 2 m (vertical with 5 m/s ²)
Max. number of cycles	2 million
Jacket colour	black
Material jacket	PUR (polyurethane)
Wire colour code	brown, white, blue, black
Wire insulation material	PP (polypropylene)
Printing colour	white
Environmental data	
Operation temperature range, moved	-30...+80 °C, -22...+176 °F
Flame-retardant	according to UL 758/1581 (cUL-FT2)
Halogen-free	DIN VDE 0472 part 815

Contact assembly





A1	49.00 mm
A2	20.00 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. The last three digits of the ordering information is the cable length in decimeters, e.g. ZKxxxx-xxxx-x020 = cable length 2.00 m

Ordering information	Length
ZK2000-7100-0003	0.30 m
ZK2000-7100-0020	2.00 m
ZK2000-7100-0030	3.00 m
ZK2000-7100-0040	4.00 m
ZK2000-7100-0050	5.00 m
ZK2000-7100-0070	7.00 m
ZK2000-7100-0080	8.00 m
ZK2000-7100-0100	10.00 m
ZK2000-7100-0300	30.00 m

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

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