

ZK2000-5300-0xxx | Sensor cable, PUR, 5 x 0.34 mm², drag-chain suitable

M12, plug, angled, male, 5-pin, A-coded – open end, 5-wire

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	≥ 10 GΩ (according to IEC 60512-2)	-
Mechanical data		
Installation size	M12	open end
Connector type	plug	-
Configuration	angled	-
Contact type	male	-
Number of positions (face)	5-pin	5-wire
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)	-25...+80 °C, -13...+176 °F	-

Protection class	IP 65/67 in screwed condition (according to IEC 60529)	-
Pollution level	3/2 (according to IEC 60664-1)	-

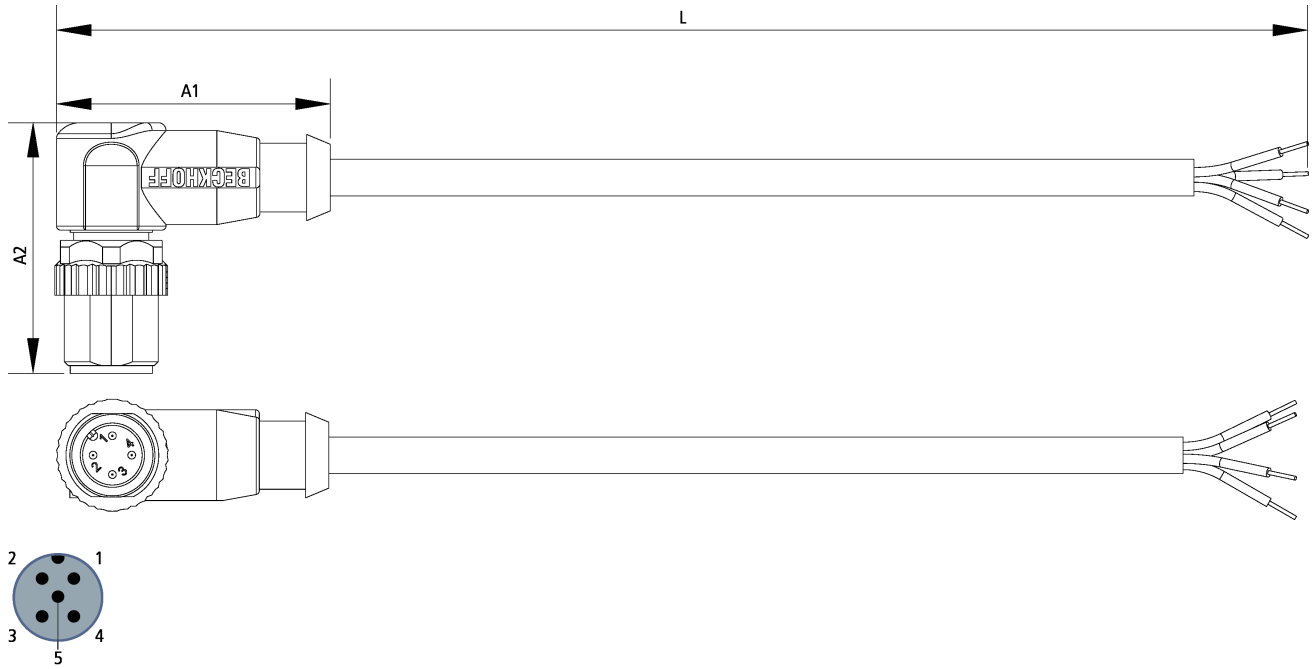
Cable

Electrical data	
Rated voltage	60 V (according to IEC 61076-2-104)
Insulation resistance	$\geq 1 \text{ G}\Omega \cdot \text{km}$
Wire resistance (signal/24V)	$\leq 58.0 \text{ }\Omega/\text{km}$ (20 °C)
Test voltage	$\geq 3000 \text{ V}$
Mechanical data	
Conductor construction (signal/24V)	42 x 0.10 mm
Cross section (signal)	5 x 0.34 mm ² (AWG22)
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	37 kg/km (24.86 lb/1000 ft)
Outer cable diameter	5.1 mm \pm 0.15 mm (0.200787" \pm 0.0059")
Shielding	no
Use	drag-chain suitable
Max. acceleration	10 m/s ²
Max. speed	3 m/s
Max. travel distance	10 m
Max. number of cycles	4 million
Wall thickness of wire insulation (signal/24V)	$\geq 0.21 \text{ mm}$
Jacket colour	black
Material jacket	PUR (polyurethane)
Wire colour code	brown, white, blue, black, grey
Printing colour	white
Environmental data	
Operation temperature range, moved	-25...+80 °C, -13...+176 °F
Operation temperature range, fixed installation	-40...+80 °C, -40...+176 °F
Flame-retardant	according to DIN EN 60332-2-2
Halogen-free	DIN VDE 0472 part 815
Approvals	UL

Contact assembly

1	braun/brown
2	weiß/white
3	blau/blue
4	schwarz/black
5	grau/grey

Dimensions



A1	35.00 mm
A2	32.00 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
ZK2000-5300-0010	1.00 m
ZK2000-5300-0030	3.00 m
ZK2000-5300-0050	5.00 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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