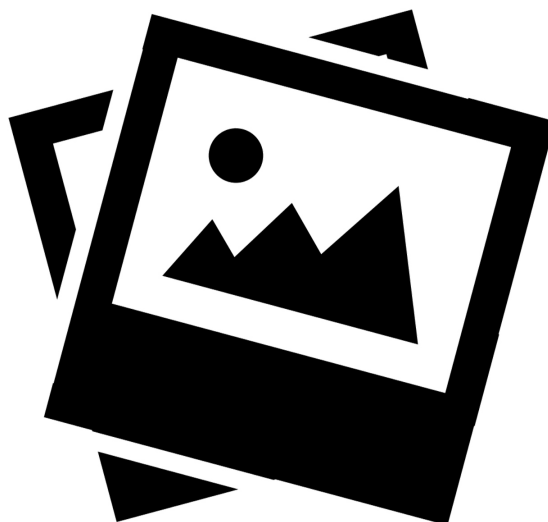


ZK2000-7174-0xxx | Sensor cable, PUR, 4 x 0.34 mm², drag chain suitable



M12, plug, straight, male, 5-pin, A-coded – M12, socket, angled, female, 5-pin, A-coded



Plugs

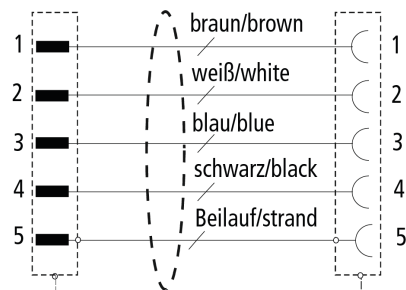
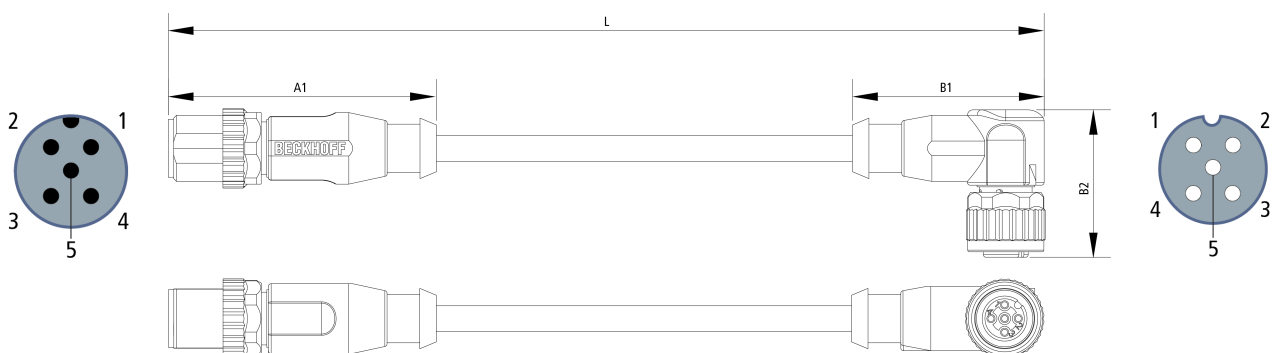
Electrical data	Head A	Head B
Rated voltage	60 V (according to IEC 61076-2-101)	60 V (according to IEC 61076-2-101)
Rated current	4 A at 40 °C (according to IEC 61076-2-101)	4 A at 40 °C (according to IEC 61076-2-101)
Shielding	yes	yes
Contact resistance	< 10 mΩ	< 10 mΩ
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		
Installation size	M12	M12
Connector type	plug	socket
Configuration	straight	angled
Contact type	male	female
Number of positions (face)	5-pin	5-pin
Coding	A-coded	A-coded

Recommended torque, nut	0.6 Nm	0.6 Nm
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Weight per piece	0.023 kg (0.0507 lb)	0.023 kg (0.0507 lb)
Body color	black	black
Body material	TPU, UL 94 HB	TPU, UL 94 HB
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FPM	FPM
Contact carrier color	red	red
Contact carrier material	PA, UL 94 V-0	PA, UL 94 V-0
Contact material	CuZn, Ni b/Au 0.2 gal.	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	halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1
RoHS compliant	yes	yes
Ambient temperature (operation)	-30...+85 °C, -22...+185 °F	-30...+85 °C, -22...+185 °F
Protection rating	IP65/67 in screwed condition (according to IEC 60529)	IP65/67 in screwed condition (according to IEC 60529)
Pollution level	3/2 (according to IEC 60664-1)	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	aluminum-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 color	black
Material jacket	PUR (polyurethane)
Wire color code	brown, white, blue, black
Wire insulation material	PP (polypropylene)
Printing color	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
CE	yes
UL	yes, UL E-file number: E257058

Contact assembly**Dimensions**

A1	49.00 mm
A2	20.00 mm

B1	35.00 mm
B2	26.80 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.

CE, UL	
CE	yes

Ordering information	Length
ZK2000-7174-0010	1.00 m
ZK2000-7174-0050	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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