

ZK2002-6134-0xxx | Sensor cable, PUR, 4 x 0.34 mm², drag-chain suitable



M12, plug, straight, male, 4-pin, A-coded – M8, socket, angled, female, 4-pin, A-coded



Plugs

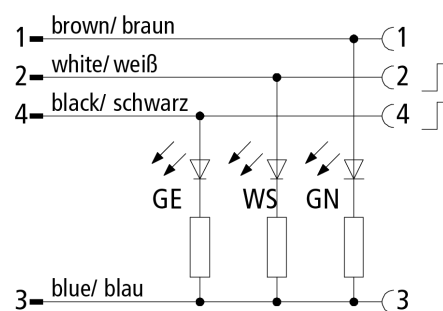
Electrical data	Head A	Head B
Rated voltage	250 V (according to IEC 61076-2-101)	50 V AC/60 V DC (according to IEC 61076-2-104)
Rated current	4 A at 40°C (according to IEC 61076-2-101)	4 A at 40°C (leaning on IEC 61076-2-104)
Rated impulse voltage	1.5 kV	-
Shielding	no	no
Contact resistance	< 10 mΩ	-
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 10 GΩ (according to IEC 60512-2)
Mechanical data		
Installation size	M12	M8
Connector type	plug	socket
Configuration	straight	angled
Contact type	male	female
Number of positions (face)	4-pin	4-pin

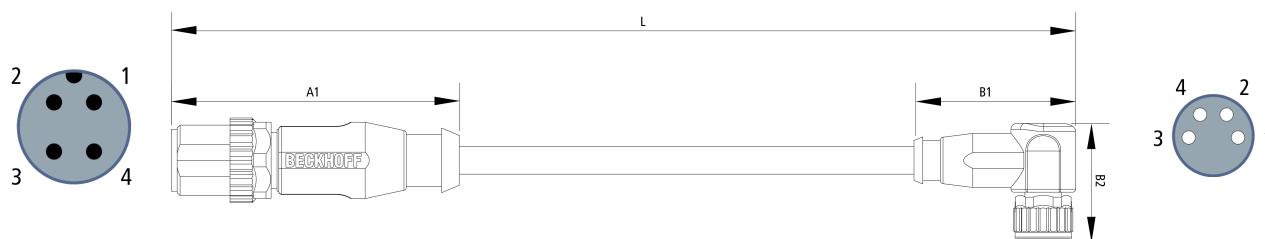
Coding	A-coded	A-coded
LED	-	with LED
Recommended torque, nut	0.6 Nm	0.4 Nm
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Weight	-	0.028 kg (0.0617 lb)
Body color	black	transparent
Body material	TPU, UL 94	TPU, UL94
Coupling nut material	GD-Zn, Ni	CuZn, Ni
Seal	FPM	FPM
Contact carrier color	red	red
Contact carrier material	PA, UL 94 V-0	TPU GF, UL 94
Contact plating	Ni, Au gal.	Ni, Au gal.
Contact material	CuZn	CuZn
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...+80°C, -22...+176°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 GΩ * km
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20°C)
Test voltage	≥ 3000 V
Mechanical data	
Conductor construction (power)	42 x 0.10 mm
Cross-section	4 x 0.34 mm ² (AWG22)
Outer cable diameter	4.7 mm ± 0.15 mm (0.185" ± 0.0059")
Min. bending radius, moved	6 x outer cable diameter
Min. bending radius, moved in drag-chain	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter

Weight	31 kg/km (20.8 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
Wall thickness of wire insulation (power)	≥ 0.21 mm
Jacket color	black
Material jacket	PUR (polyurethane)
Wire color code	white, blue, black, brown
Wire insulation material	PP (polypropylene)
Printing on the jacket	Li9Y11Y 4x0,34mm ² E242293 (cULus-Symbol) AWM STYLE 20549 80C 300V AWM I A/B 80C 300V FT2
Printing color	white
Environmental data	
Operation temperature range, moved	-25...+80°C, -13...+176°F
Oil resistance	168 h 100°C (according to DIN EN 60811-2-1)
Flame-retardant	according to DIN EN 60332-2-2
Halogen-free	according to DIN VDE 0472 part 815
CE	yes
UL	yes, UL E-file number: E242293

Pin assignment**Dimensions**



A1	49.00 mm
A2	14.50 mm
B1	27.50 mm
B2	19.20 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
UL	yes, UL E-file number: E480185

Ordering information	Length
ZK2002-6134-0050	5.00 m

Further length on request

Accessories	
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0001	torque cable key, M8/wrench size 9, for ZB8801-0000
ZB8801-0002	torque cable key, M12/wrench size 13, for ZB8801-0000
ZB8803-0003	Flange/Panel feed-through for M12 pre-assembled, for fixing the connector, plastic, including screws, washers and lock nuts



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