

# ZK2002-6400-0xxx | Sensor cable, PUR, 4 x 0.34 mm², drag-chain suitable

M12, socket, angled, female, 4-pin, A-coded – open end, 4-wire

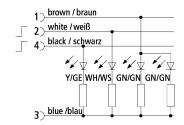
## **Plugs**

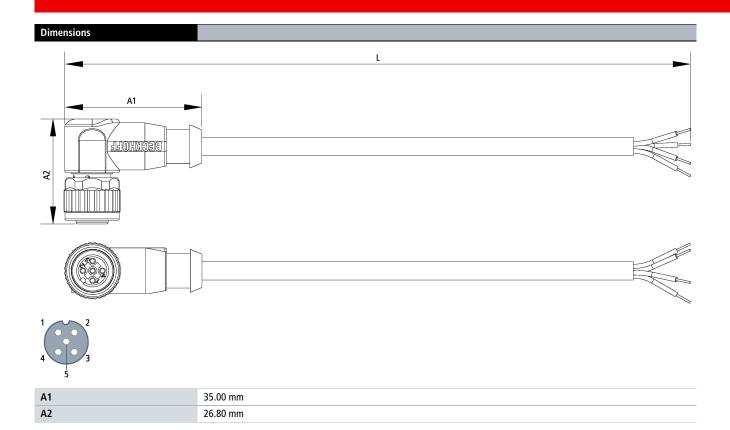
Electrical data	Head A	Head B
Rated voltage	250 V (according to IEC 61076-2-101)	-
Rated current	4 A at 40 °C (according to IEC 61076-2-101)	-
Shielding	no	-
Contact resistance	$<$ 10 m $\Omega$	-
Insulation resistance	$\geq$ 100 M $\Omega$ (according to IEC 60512)	-
Mechanical data		
Installation size	M12	open end
Connector type	socket	-
Configuration	angled	-
Contact type	female	-
Number of positions (face)	4-pin	4-wire
Coding	A-coded	-
LED	with LED	-
Recommended torque, nut	0.6 Nm	-
Mating cycles	≥ 100 (according to IEC 60512-9a)	-
Way of locking	screw	-
Body colour	transparent	-
Body material	PA6 GF, UL 94 HB	-
Coupling nut material	CuZn, Ni	-
O-ring	FPM/NBR	-
Contact carrier colour	black	-
Contact carrier material	PA 6, UL 94 V0	-
Contact plating	Au	-
Contact material	CuZn, Ni b/Au 0.2 gal.	-
Environmental data		
RoHS compliant	yes	-
Ambient temperature (operation)	-30+85 °C, -22+185 °F	-
Protection class	IP 65/67 in screwed condition (according to IEC 60529)	-

## **Cable**

Electrical data	
Rated voltage	≤ 300 V
Insulation resistance	$\geq$ 10 G $\Omega$ * km
Wire resistance (signal/24V)	$\leq$ 58.0 $\Omega$ /km (20 °C)
Test voltage	≥ 3000 V
Mechanical data	
Conductor construction (power)	42 x 0.10 mm
Cross section	4 x 0.34 mm <sup>2</sup> (AWG 22)
Min. bending radius, moved	6 x outer cable diameter
Min. bending radius, moved in drag chain	10 x outer cable diameter
Weight	31 kg/km (20.8 lb/1000 ft)
Outer cable diameter	4.7 mm ± 0.15 mm (0.185" ± 0.0059")
Shielding	no
Use	drag-chain suitable
Max. acceleration	10 m/s <sup>2</sup>
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 colour	black
Material jacket	PUR (polyurethane)
Wire colour code	white, blue, black, brown
Wire insulation material	PP (polypropylene)
Printing on the jacket	Li9Y11Y 4x0,34mm <sup>2</sup> E242293 (cULus-Symbol) AWM STYLE 20549 80C 300V AWM I A/B 80C 300V FT2
Printing colour	white
Environmental data	
Operation temperature range, moved	-25+80 °C, -13+176 °F
Flame-retardant	according to DIN EN 60332-2-2
Halogen-free	DIN VDE 0472 part 815

### Contact assembly





### **Notes**

- Depending on the cable length (L), the following length tolerances apply:
- $0 \text{ m...} < 0.2 \text{ m:} \pm 10 \text{ mm} \mid 0.2...4.0 \text{ m:} + 40 \text{ mm} \mid \ge 4.0 \text{ m:} + 1 \%$
- 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
ZK2002-6400-0010	1.00 m
ZK2002-6400-0030	3.00 m
ZK2002-6400-0050	5.00 m
ZK2002-6400-0100	10.00 m
ZK2002-6400-0150	15.00 m
ZK2002-6400-0200	20.00 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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