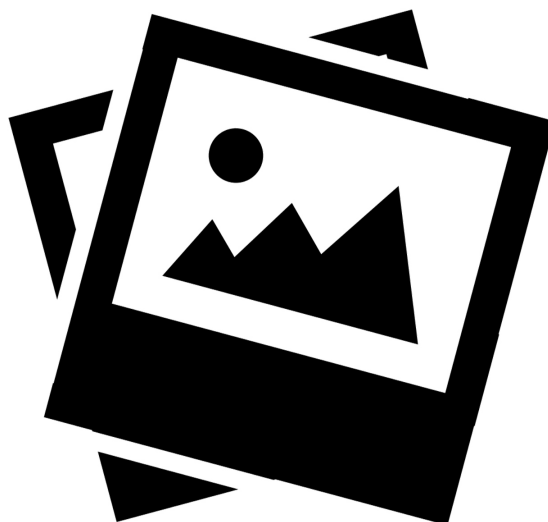


# ZK2000-A1A4-0xxx | Sensor cable, PUR, 12 x 0.14 mm<sup>2</sup>, drag-chain suitable



M12, plug, straight, male, 12-pin, A-coded – M12, socket, angled, female, 12-pin, A-coded



## Plugs

Electrical data	Head A	Head B
Rated voltage	30 V (according to IEC 61076-2-101)	30 V (according to IEC 61076-2-101)
Rated current	1.5 A at 40°C	1.5 A at 40°C
Shielding	no	no
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)	12-pin	12-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
Body color	gray	gray
Body material	TPU, UL 94	TPU, UL 94
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FPM	FPM
Contact carrier color	black	black
Contact carrier material	TPU, PA, UL 94	TPU, PA, UL 94
Contact material	CuZn, Ni b/Au	CuZn, Ni b/Au
<b>Environmental data</b>		
RoHS compliant	yes	yes
Ambient temperature (operation)	-30...+80 °C, -22...+176 °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

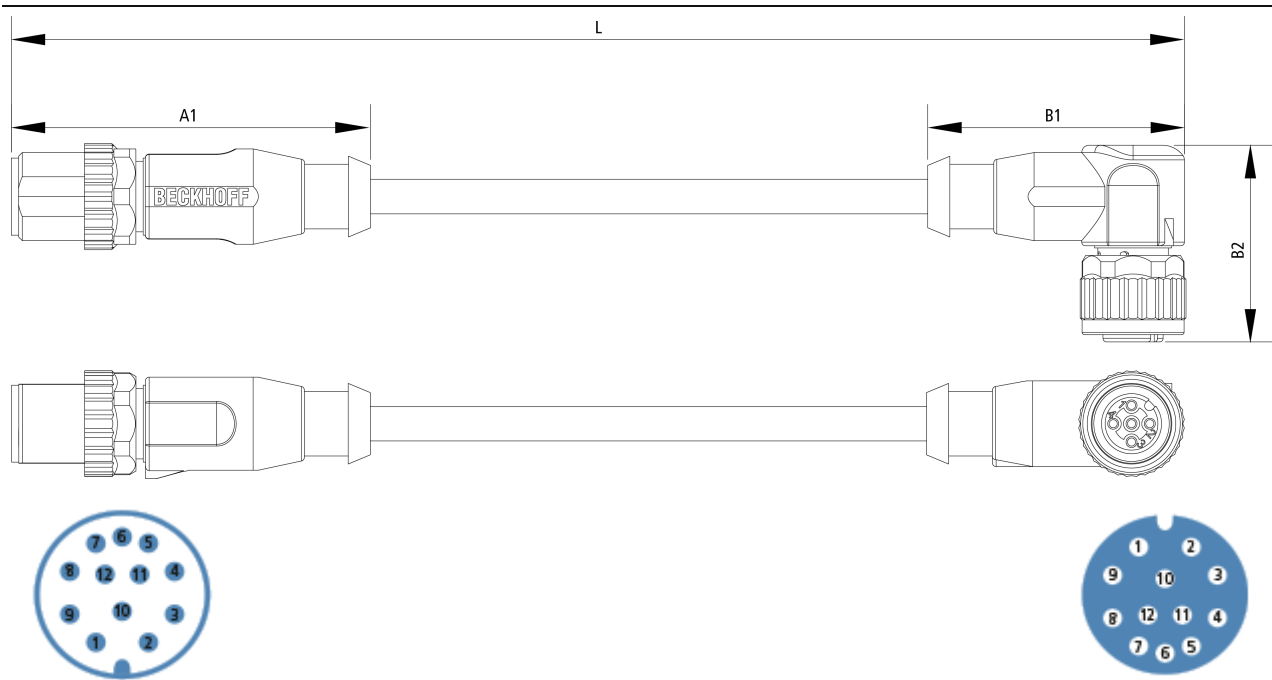
<b>Electrical data</b>		
Rated voltage	300 V	
Insulation resistance	≥ 1 GΩ * km	
Wire resistance (signal/24V)	≤ 139.0 Ω/km	
Test voltage	≥ 3000 V	
<b>Mechanical data</b>		
Cross-section	12 x 0.14 mm <sup>2</sup> (AWG26)	
Min. bending radius, moved	10 x outer cable diameter	
Min. bending radius, moved in drag-chain	10 x outer cable diameter	
Min. bending radius, fixed installation	5 x outer cable diameter	
Weight	45 kg/km (30.2 lb/1000 ft)	
Outer cable diameter	6.1 mm ± 0.2mm (0.240" ± 0.0079")	
Conductor material	copper bare	
Shielding	no	
Use	drag-chain suitable	
UL-Style conductor	AWM STYLE 20549/10152	
Max. acceleration	10 m/s <sup>2</sup>	
Max. speed	3 m/s	
Max. number of cycles	4 million	
Jacket color	black	

Material jacket	PUR (polyurethane)
Wire color code	brown, blue, white, green, pink, yellow, black, grey, red, violet, grey-pink, red-blue
Wire insulation material	PP (polypropylene)
Printing on the jacket	781-K11120 Li9Y11Y 12x0,14mm <sup>2</sup> E242293 (cULus- Recognized-Symbol) AWM STYLE 20549 80C 300V AWM I A/B 80C 300V FT2
Printing color	white
<b>Environmental data</b>	
Operation temperature range, moved	-25...+80 °C, -13...+176 °F
Operation temperature range, fixed installation	-40...+80 °C, -40...+176 °F
UV resistance	UV resistance of the outer jacket referred to DIN EN ISO 4892-2
Oil resistance	according to DIN EN 60811-404
Flame-retardant	according to UL 758/1581 (cUL-FT2)
Halogen-free	according to IEC 60754 or DIN VDE 0472 part 815
UL	yes, UL E-file number: E242293

**Contact assembly**

1	braun/brown	1
2	blau/blue	4
3	weiß/white	3
4	grün/green	4
5	rosa/pink	5
6	gelb/yellow	6
7	schwarz/black	7
8	grau/grey	8
9	rot/red	9
10	violett/violet	10
11	grau-rosa/grey-pink	11
12	rot-blau/red-blue	12

**Dimensions**



A1	49.00 mm
A2	Ø14.50 mm

## Notes

- Depending on the cable length (L), the following length tolerances apply:  
 0 m...3.0 m: + 100 mm | 3.0...10.0 m: ± 100 mm | ≥ 10.0 m: ± 2 %
- 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

CE, UL	
CE	yes

Ordering information	Length
ZK2000-A1A4-0050	5.00 m
ZK2000-A1A4-0075	7.50 m



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