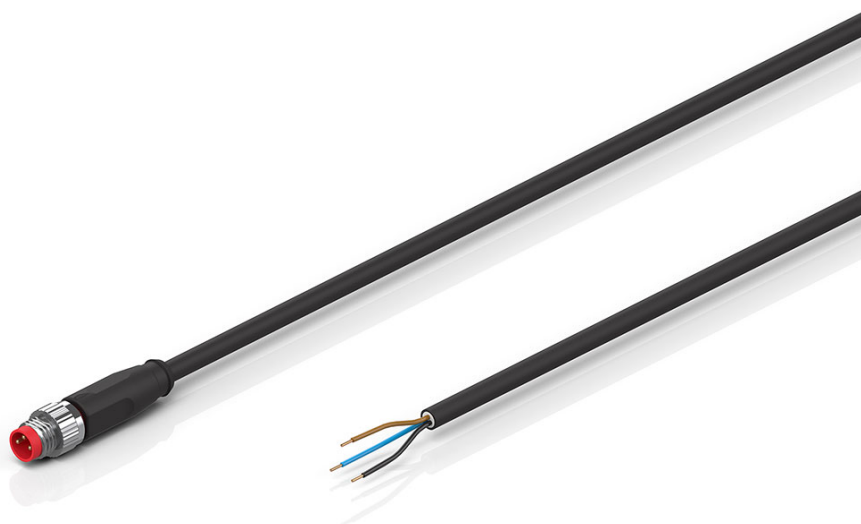


# ZK2000-2100-6xxx | Sensor cable, PUR, 3 x 0.34 mm<sup>2</sup>, torsion resistant



M8, plug, straight, male, 3-pin, A-coded – open end, 3-wire



## Plugs

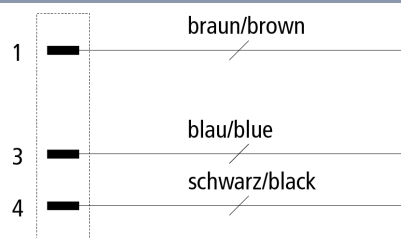
Electrical data	Head A	Head B
Rated voltage	60 V (according to IEC 61076-2-104)	-
Rated current (signal/24V)	4 A at 40 °C (acc.to IEC 61076-2-104)	-
Shielding	no	-
Insulation resistance	≥ 10 GΩ (according to IEC 60512-2)	-
Mechanical data		
Installation size	M8	open end
Connector type	plug	-
Configuration	straight	-
Contact type	male	-
Number of positions (face)	3-pin	3-wire
Coding	A-coded	-
Wire termination	crimp connection	-
Recommended torque, nut	0.4 Nm	-
Mating cycles	≥ 100 (according to IEC 60512-9a)	-

Way of locking	screw	-
Weight per piece	0.028 kg (0.0617 lb)	-
Body color	black	-
Body material	TPU, UL94	-
Coupling nut material	CuZn, Ni	-
Seal	FPM	-
Contact carrier color	red	-
Contact carrier material	TPU GF, UL 94	-
Contact plating	Ni, Au gal.	-
Contact material	CuZn	-
<b>Environmental data</b>		
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)	-30...+80 °C, -22...+176 °F	-
Protection rating	IP67 in screwed condition (according to IEC 60529)	-
Pollution level	3/2 (according to IEC 60664-1)	-

## Cable

<b>Electrical data</b>		
Rated voltage	300 V	
Insulation resistance	≥ 500 MΩ/km	
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20 °C)	
Test voltage	≥ 2000 V	
<b>Mechanical data</b>		
Conductor construction (signal/24V)	42 x 0.10 mm, conductor category 6 according to DIN VDE 0295	
Cross-section	3 x 0.34 mm <sup>2</sup> (AWG22)	
Outer cable diameter	4.9 mm ± 0.2mm (0.193" ± 0.0079")	
Min. bending radius, moved	7.5 x outer cable diameter	
Min. bending radius, fixed installation	4 x outer cable diameter	
Weight	33.7 kg/km (22.65 lb/1000 ft)	
Conductor material (signal/24V)	copper bare	
Shielding	no	
Use	capable of torsion and drag-chain suitable	
Max. acceleration	5 m/s <sup>2</sup>	

Max. speed	3.3 m/s
Max. travel distance	100 m
Max. number of cycles	10 million
Jacket color	black
Material jacket	PUR (polyurethane)
Material jacket, further characteristics of	weld-spatter resistant, low adhesion
Wire color code	brown, blue, black
Wire insulation material	TPE (thermoplastic elastomer)
Printing on the jacket	XXXm Beckhoff Automation GmbH & Co. KG -Germany-Sensor ZB9044-3x0,34mm <sup>2</sup> E170315 cRUus AWM STYLE 20233 AWM I/II A/B 80°C 300V FT1 MM/YY CE RoHS
Printing color	white
Torsion angle in °/m	max. ± 360°/m
Torsion speed	15 cycle/min.
Number of torsion cycles	10 million
Claimed torsion length	2 m
<b>Environmental data</b>	
Operation temperature range, moved	-30 °C... +105 °C, -22 °F...+221 °F, UL: up to +80 °C (+176 °F)
Operation temperature range, fixed installation	-40...+105 °C, -40...+221 °F
Oil resistance	very good oil and chemical resistance
LABS-free	yes
Flame-retardant	according to IEC 60332-1
Halogen-free	yes
Silicone-free	yes
UL	yes, UL E-file number: E170315

**Contact assembly****Dimensions**



A1	39.60 mm
A2	Ø 10.1 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
ZK2000-2100-6020	2.00 m
ZK2000-2100-6050	5.00 m
ZK2000-2100-6100	10.00 m
ZK2000-2100-6400	40.00 m

Accessories	
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0001	torque cable key, M8/wrench size 9, for ZB8801-0000



Products marked with a crossed-out wheeled bin shall not be discarded with the normal waste stream. The device is considered as waste electrical and electronic equipment. The national regulations for the disposal of waste electrical and electronic equipment must be observed.

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