# ZK2000-3134-0xxx | Sensor cable, PUR, 4 x 0.25 mm<sup>2</sup>, drag-chain suitable



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



### **Plugs**

Electrical data	Head A	Head B
Rated voltage	30 V (according to IEC 61076-2-104)	30 V (according to IEC 61076-2-104)
Rated current	4 A at 40 °C (leaning on IEC 61076-2-104)	4 A at 40 °C (leaning on IEC 61076-2-104)
Shielding	no	no
Insulation resistance	≥ 10 G $\Omega$ (according to IEC 60512-2)	≥ 10 G $\Omega$ (according to IEC 60512-2)
Mechanical data		
Installation size	M8	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
Recommended torque, nut	0.4 Nm	0.4 Nm
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)



Way of locking	screw	screw
Weight per piece	0.028 kg (0.0617 lb)	-
Body color	black	black
Body material	TPU, UL94	TPU, UL94
Coupling nut material	CuZn, Ni	CuZn, Ni
Seal	FPM	FPM
Contact carrier color	red	red
Contact carrier material	TPU GF, UL 94	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+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

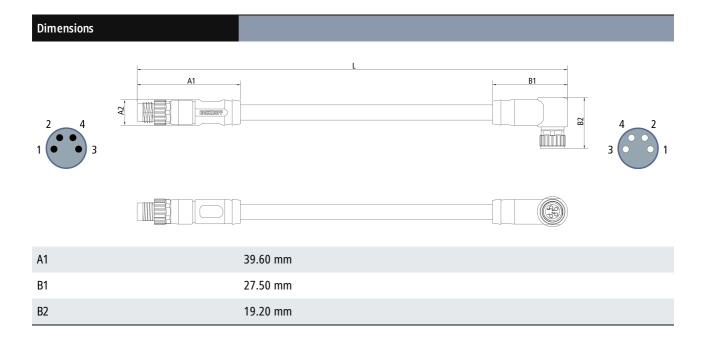
Electrical data	
Rated voltage	≤ 300 V
Insulation resistance	≥ 10 G $\Omega$ (according to IEC 60512-2)
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20 °C)
Test voltage	≥ 3000 V
Mechanical data	
Conductor construction (signal/24V)	32 x 0.10 mm
Cross-section	4 x 0.25 mm <sup>2</sup> (AWG24)
Outer cable diameter	4.4 mm ± 0.15 mm (0.173" ± 0.0059")
Min. bending radius, moved	6 x outer cable diameter
Weight	28 kg/km (18.8 lb/1000 ft)
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



ZK2000-3134-0xxx www.beckhoff.com/ZK2000-3134-0xxx

Jacket color  Material jacket  PUR (polyurethane)  Wire color code  white, blue, black, brown  Wire insulation material  PP (polypropylene)  Printing color  white  Environmental data  Operation temperature range, moved  -25+80 °C, -13+176 °F  Special features  Class 6 according to IEC 60228  Flame-retardant  according to cULus 20549  Halogen-free  DIN VDE 0472 part 815  CE  yes  UL  no, UL certification in preparation		
Wire color code white, blue, black, brown  Wire insulation material PP (polypropylene)  Printing color white  Environmental data  Operation temperature range, moved -25+80 °C, -13+176 °F  Special features Class 6 according to IEC 60228  Flame-retardant according to cULus 20549  Halogen-free DIN VDE 0472 part 815  CE yes	Jacket color	black
Wire insulation material PP (polypropylene)  Printing color white  Environmental data  Operation temperature range, moved -25+80 °C, -13+176 °F  Special features Class 6 according to IEC 60228  Flame-retardant according to cULus 20549  Halogen-free DIN VDE 0472 part 815  CE yes	Material jacket	PUR (polyurethane)
Printing color white  Environmental data  Operation temperature range, moved -25+80 °C, -13+176 °F  Special features Class 6 according to IEC 60228  Flame-retardant according to cULus 20549  Halogen-free DIN VDE 0472 part 815  CE yes	Wire color code	white, blue, black, brown
CE Environmental data  Operation temperature range, moved -25+80 °C, -13+176 °F  Class 6 according to IEC 60228  according to cULus 20549  DIN VDE 0472 part 815  CE yes	Wire insulation material	PP (polypropylene)
Operation temperature range, moved -25+80 °C, -13+176 °F  Special features Class 6 according to IEC 60228  Flame-retardant according to cULus 20549  Halogen-free DIN VDE 0472 part 815  CE yes	Printing color	white
Special features  Class 6 according to IEC 60228  Flame-retardant  according to cULus 20549  Halogen-free  DIN VDE 0472 part 815  CE  yes	Environmental data	
Flame-retardant according to cULus 20549 Halogen-free DIN VDE 0472 part 815 CE yes	Operation temperature range, moved	-25+80 °C, -13+176 °F
Halogen-free DIN VDE 0472 part 815 CE yes	Special features	Class 6 according to IEC 60228
CE yes	Flame-retardant	according to cULus 20549
, , , , , , , , , , , , , , , , , , , ,	Halogen-free	DIN VDE 0472 part 815
UL no, UL certification in preparation	CE	yes
	UL	no, UL certification in preparation

Contact assembly	
	braun/brown weiß/white blau/blue schwarz/black  braun/brown 1 2 3 4 4 4 4



#### **Notes**

- Depending on the cable length (L), the following length tolerances apply: 0 m...<0.2 m:  $\pm$  10 mm | 0.2...4.0 m:  $\pm$  40 mm |  $\geq$  4.0 m:  $\pm$  1 %
- Illustrations similar
- Further cable length on request.



Ordering information	Length
ZK2000-3100-0020	2.00 m
ZK2000-3100-0050	5.00 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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