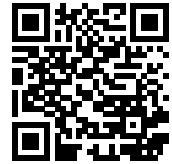


ZK2000-8182-3xxx | Sensor cable, PVC, 8 x 0.25 mm², shielded, fixed installation



M12, plug, straight, male, 8-pin, A-coded – M12, socket, straight, female, 8-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	2 A at 40 °C (according to IEC 61076-2-101)	2 A at 40 °C (according to IEC 61076-2-101)
Shielding	yes	yes
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	straight
Contact type	male	female
Number of positions (face)	8-pin	8-pin
Coding	A-coded	A-coded
Recommended torque, nut	0.6 Nm	0.6 Nm

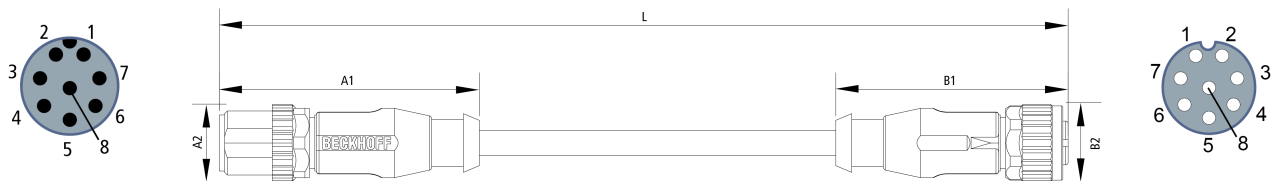
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Weight per piece	0.046 kg (0.1014 lb)	0.046 kg (0.1014 lb)
Body color	metal	metal
Body material	GD-Zn, Ni	GD-Zn, Ni
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	elastomers	elastomers
O-ring	NBR	NBR
Contact carrier color	black	black
Contact carrier material	PA, UL 94	PA, UL 94
Contact plating	Ni, Au gal.	Ni, Au gal.
Contact material	CuZn	CuZn
Environmental data		
RoHS compliant	yes	yes
Ambient temperature (operation)	-30...+85 °C, -22...+185 °F	-30...+85 °C, -22...+185 °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	≥ 1 GΩ * km	
Wire resistance (signal/24V)	≤ 78 Ω/km	
Test voltage	≥ 3000 V	
Mechanical data		
Conductor construction (signal/24V)	32 x 0.10 mm	
Cross-section (signal)	8 x 0.25 mm ² (AWG24)	
Outer cable diameter	6.6 mm ± 0.2mm (0.259" ± 0.0079")	
Min. bending radius, moved	10 x outer cable diameter	
Min. bending radius, fixed installation	5 x outer cable diameter	
Weight	69 kg/km (46.3 lb/1000 ft)	
Conductor material (signal/24V)	copper bare	
Optical covering factor of shielding	≥ 85%	
Optical covering factor of shielding (total)	yes	
Use	fixed installation	

Jacket color	gray
Material jacket	PVC (polyvinyl chloride)
Wire color code	brown, green, yellow, gray, pink, blue, red, white
Wire insulation material	PP (polypropylene)
Printing on the jacket	LiYFCY 8x0.25mm ² E242293 (cULus-Symbol) AWM STYLE 2464 80C 300V VW-1 AWM I A/B 80C 300V FT1
Printing color	black
Environmental data	
Operation temperature range, moved	-25...+80 °C, -13...+176 °F
Operation temperature range, fixed installation	-40...+80 °C, -40...+176 °F
Oil resistance	according to DIN EN 60811-2-1
Flame-retardant	according to AWM Style 2464 UL 758/1581 FT1 DIN EN 60332-1-2
Halogen-free	no
UL	yes, UL E-file number: E242293

Dimensions



A1	49.00 mm
A2	Ø14.50 mm
B1	44.00 mm
B2	Ø14.50 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
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Ordering information	Length
ZK2000-8182-3010	1.00 m
ZK2000-8182-3020	2.00 m
ZK2000-8182-3030	3.00 m
ZK2000-8182-3050	5.00 m
ZK2000-8182-3075	7.50 m
ZK2000-8182-3100	10.00 m
ZK2000-8182-3200	20.00 m



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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