ZK2000-8182-0xxx | Sensor cable, PUR, 8 x 0.25 mm², drag-chain suitable

M12, plug, straight, male, 8-pin, A-coded – M12, socket, straight, female, 8-pin, A-coded

Plugs

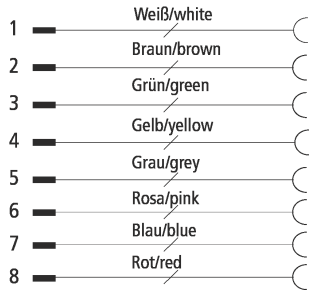
Electrical data	Head A	Head B
Rated voltage	30 V (according to IEC 61076-2-101)	30 V (according to IEC 61076-2-101)
Rated current	2 A at 40 °C (according to IEC 61076-2-101)	2 A at 40 °C (according to IEC 61076-2-101)
Shielding	yes	yes
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (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 colour	metal	metal
Body material	GD-Zn, Ni	-
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	elastomers	elastomers
O-ring	NBR	NBR
Contact carrier colour	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 class	IP 65/67 in screwed condition (according to IEC 60529)	IP 65/67 in screwed condition (according to IEC 60529)

Pollution level	3/2 (according to IEC 60664-1)	3/2 (according to IEC 60664-1)

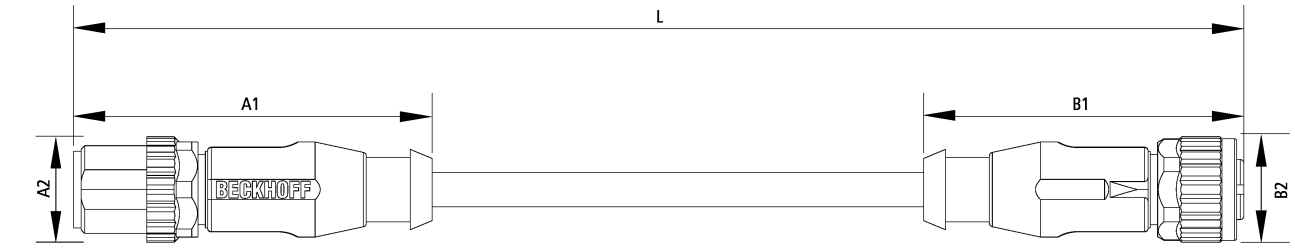
Cable

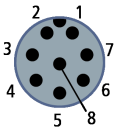
Electrical data	
Rated voltage	≤ 300 V
Insulation resistance	≥ 1 GΩ * km
Wire resistance (signal/24V)	≤ 78 Ω/km
Test voltage	≥ 3000 V
Mechanical data	
Conductor construction (signal/24V)	32 x 0.10 mm
Cross section (signal)	8 x 0.25 mm² (AWG24)
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	3 x outer cable diameter
Weight	61.0 kg/km (41.0 lb/1000 ft)
Outer cable diameter	6.6 mm ± 0.2mm (0.259" ± 0.0079")
Conductor material (signal/24V)	copper bare
Shielding	no
Optical covering factor of shielding (total)	no
Use	drag-chain suitable
Max. acceleration	10 m/s²
Max. speed	5 m/s
Max. travel distance	5 m
Max. number of cycles	10 million
Jacket colour	black grey (similar to RAL 7021)
Material jacket	PUR (polyurethane)
Wire colour code	brown, green, yellow, grey, pink, blue, red, white
Wire insulation material	PP (polypropylene)
Printing colour	white
Environmental data	
Operation temperature range, moved	-15…+80 °C, +5…+176 °F
Operation temperature range, fixed installation	-30…+80 °C, -22…+176 °F
Oil resistance	according to DIN EN 60811-2-1
Flame-retardant	according to AWM Style 20549 UL 758/1581 FT2
Halogen-free	according to DIN VDE 0472 part 815, DIN EN 50267-2-1

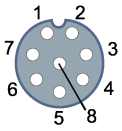
Contact assembly



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. 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
ZK2000-8182-0007	0.70 m
ZK2000-8182-0009	0.90 m
ZK2000-8182-0010	1.00 m
ZK2000-8182-0020	2.00 m
ZK2000-8182-0025	2.50 m
ZK2000-8182-0030	3.00 m
ZK2000-8182-0035	3.50 m
ZK2000-8182-0050	5.00 m
ZK2000-8182-0055	5.50 m
ZK2000-8182-0100	10.00 m

Accessories	
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0002	torque cable key, M12/wrench size 13, for ZB8801-0000