

ZK2000-5154-1xxx | Sensor cable, PUR, 5 x 0.25 mm², fixed installation, shielded



M12, plug, straight, male, 5-pin, A-coded – M12, socket, angled, female, 5-pin, A-coded



Plugs

Electrical data	Head A	Head B
Rated voltage	60 V (according to IEC 61076-2-101)	60 V (according to IEC 61076-2-101)
Rated current	4 A at 40°C (according to IEC 61076-2-101)	4 A at 40°C (according to IEC 61076-2-101)
Shielding	yes	yes
Contact resistance	< 10 mΩ	< 10 mΩ
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)	5-pin	5-pin
Coding	A-coded	A-coded
Recommended torque, nut	0.6 Nm	0.6 Nm

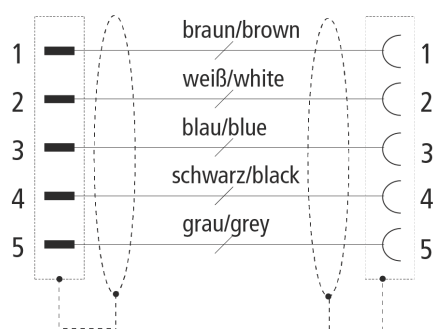
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 100 (according to IEC 60512-9a)
Way of locking	screw	screw
Weight per piece	0.023 kg (0.0507 lb)	0.023 kg (0.0507 lb)
Body color	black	black
Body material	TPU, UL 94 HB	TPU, UL 94 HB
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	FPM	FPM
Contact carrier color	red	red
Contact carrier material	PA, UL 94 V-0	PA, UL 94 V-0
Contact material	CuZn, Ni b/Au 0.2 gal.	CuZn, Ni b/Au 0.2 gal.
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...+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

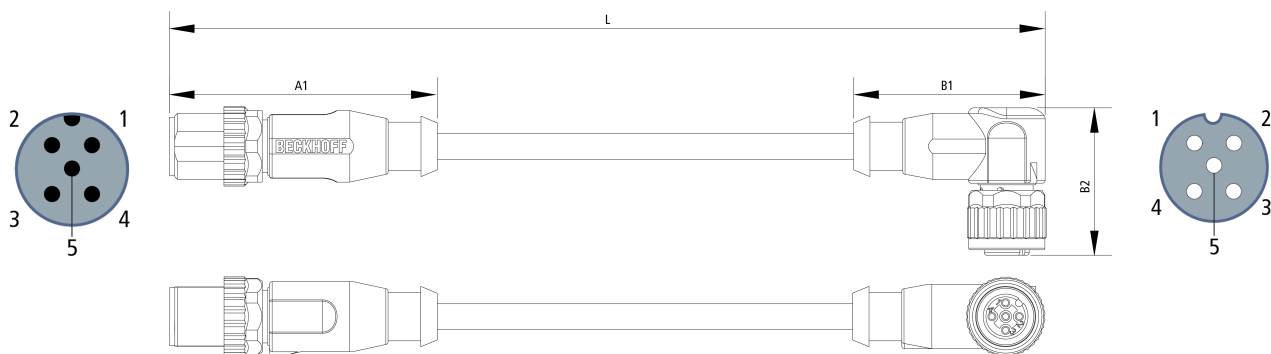
Electrical data	
Rated voltage	300 V
Operating voltage	≤ 300 V
Wire resistance	≤ 78 Ω/km (20°C)
Test voltage	≥ 3000 V
Mechanical data	
Cross-section (power)	5 x 0.25 mm ² (AWG24)
Cross-section (signal)	5 x 0.25 mm ² (AWG24)
Outer cable diameter	5.4 mm ± 0.2 mm (0.213" ±0.0079")
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	41 kg/km (27.84 lb/1000 ft)
Shielding	braiding of tinned copper wires
Optical covering factor of shielding	≥ 85%
Use	fixed installation
Jacket color	black

Material jacket	PUR (polyurethane)
Wire color code	brown, white, blue, black, gray
Wire insulation material	PP (polypropylene)
Printing color	white
Environmental data	
Operation temperature range, fixed installation	-30...+80°C, -22...+176°F
Oil resistance	according to DIN EN 60811-2-1
Special features	Hydrolysis and microbe-resistant, low adhesion
Flame-retardant	according to cULus 20549
Halogen-free	according to DIN VDE 0472 part 815
CE	yes
UL	yes, UL E-file number: E242293

Contact assembly



Dimensions



A1	49.0 mm
A2	Ø 14.5 mm
B1	35.00 mm

B2

26.80 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

Ordering information

Length

ZK2000-5154-1005

0.50 m

ZK2000-5154-1010

1.00 m

Further length on request

Accessories

ZB8801-0000

torque wrench for hexagonal plugs, adjustable

ZB8801-0002

torque cable key, M12/wrench size 13, for ZB8801-0000

ZB8803-0003

Flange/Panel feed-through for M12 pre-assembled, for fixing the connector, plastic, including screws, washers and lock nuts



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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