

ZK2000-5100-0xxx | Sensor cable, PUR, 5 x 0.34 mm², drag-chain suitable

M12, plug, straight, male, 5-pin, A-coded – open end, 5-wire

Plugs

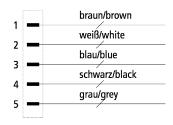
Head A	Head B
60 V (according to IEC 61076-2-101)	-
4 A at 40 °C (according to IEC 61076-2-101)	-
no	-
$<$ 10 m Ω	-
\geq 100 M Ω (according to IEC 60512)	-
M12	open end
plug	-
straight	-
male	-
5-pin	5-wire
A-coded	-
0.6 Nm	-
≥ 100 (according to IEC 60512-9a)	-
screw	-
0.023 kg (0.0507 lb)	-
black	-
TPU, UL 94 HB	-
GD-Zn, Ni	-
FPM	-
red	-
PA, UL 94 V-0	-
CuZn, Ni b/Au 0.2 gal.	-
halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1	-
	60 V (according to IEC 61076-2-101) 4 A at 40 °C (according to IEC 61076-2-101) no < 10 mΩ ≥ 100 MΩ (according to IEC 60512) M12 plug straight male 5-pin A-coded 0.6 Nm ≥ 100 (according to IEC 60512-9a) screw 0.023 kg (0.0507 lb) black TPU, UL 94 HB GD-Zn, Ni FPM red PA, UL 94 V-0 CuZn, Ni b/Au 0.2 gal.

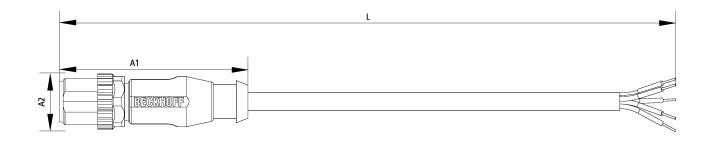
Ambient temperature (operation)	-30+85 °C, -22+185 °F	-
Protection class	IP 65/67 in screwed condition (according to IEC 60529)	-
Pollution level	3/2 (according to IEC 60664-1)	-

Cable

Electrical data	
Rated voltage	60 V (according to IEC 61076-2-104)
Insulation resistance	≥ 1 GΩ * km
Wire resistance (signal/24V)	≤ 58.0 Ω/km (20 °C)
Test voltage	≥ 3000 V
Mechanical data	
Conductor construction (signal/24V)	42 x 0.10 mm
Cross section (signal)	5 x 0.34 mm ² (AWG22)
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	37 kg/km (24.86 lb/1000 ft)
Outer cable diameter	5.1 mm ± 0.15 mm (0.200787" ± 0.0059")
Shielding	no
Use	drag-chain suitable
Max. acceleration	10 m/s ²
Max. speed	3 m/s
Max. travel distance	10 m
Max. number of cycles	4 million
Wall thickness of wire insulation (signal/24V)	≥ 0.21 mm
Jacket colour	black
Material jacket	PUR (polyurethane)
Wire colour code	brown, white, blue, black, grey
Printing colour	white
Environmental data	
Operation temperature range, moved	-25+80 °C, -13+176 °F
Operation temperature range, fixed installation	-40+80 °C, -40+176 °F
Flame-retardant	according to DIN EN 60332-2-2
Halogen-free	DIN VDE 0472 part 815
Approvals	UL

Contact assembly







A1	49.00 mm
A2	20.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply:
- $0 \text{ m...} < 0.2 \text{ m:} \pm 10 \text{ mm} \mid 0.2...4.0 \text{ m:} + 40 \text{ mm} \mid \ge 4.0 \text{ m:} + 1 \%$
- 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
ZK2000-5100-0003	0.30 m
ZK2000-5100-0005	0.50 m
ZK2000-5100-0010	1.00 m
ZK2000-5100-0016	1.60 m
ZK2000-5100-0020	2.00 m
ZK2000-5100-0025	2.50 m
ZK2000-5100-0030	3.00 m
ZK2000-5100-0035	3.50 m
ZK2000-5100-0040	4.00 m
ZK2000-5100-0045	4.50 m
ZK2000-5100-0050	5.00 m
ZK2000-5100-0060	6.00 m
ZK2000-5100-0100	10.00 m
ZK2000-5100-0150	15.00 m
ZK2000-5100-0200	20.00 m
ZK2000-5100-0400	40.00 m

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

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