

ZK2000-5151-0xxx | Sensor cable, PUR, 5 x 0.34 mm², drag-chain suitable



M12, plug, straight, male, 5-pin, A-coded – M12, plug, straight, male, 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 | no | no |
| 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 | plug |
| Configuration | straight | straight |
| Contact type | male | male |
| Number of positions (face) | 5-pin | 5-pin |
| Coding | A-coded | A-coded |

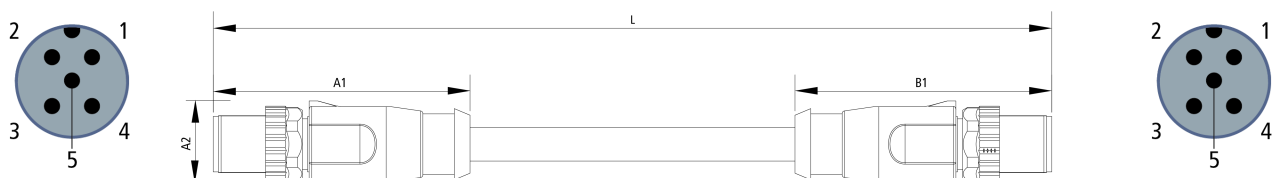
| | | |
|---------------------------------|---|---|
| Recommended torque, nut | 0.6 Nm | 0.6 Nm |
| Mating cycles | ≥ 100 (according to IEC 60512-9a) | ≥ 100 (according to IEC 60512-9a) |
| Way of locking | screw | screw |
| Weight per piece | 0.023 kg (0.0507 lb) | 0.023 kg (0.0507 lb) |
| Body color | 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 | 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) | |
| Outer cable diameter | 5.1 mm ± 0.15 mm (0.200787" ± 0.0059") | |
| 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) | |
| 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 color | black |
| Material jacket | PUR (polyurethane) |
| Wire color code | brown, white, blue, black, gray |
| Printing color | 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 |
| CE | yes |
| UL | yes, UL E-file number: E242293 |

Dimensions



| | |
|----|----------|
| A1 | 49.00 mm |
| A2 | 20.00 mm |
| B1 | 49.00 mm |
| B2 | 20.00 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.

| Ordering information | Length |
|----------------------|---------|
| ZK2000-5151-0001 | 0.17 m |
| ZK2000-5151-0002 | 0.20 m |
| ZK2000-5151-0003 | 0.30 m |
| ZK2000-5151-0005 | 0.50 m |
| ZK2000-5151-0006 | 0.60 m |
| ZK2000-5151-0010 | 1.00 m |
| ZK2000-5151-0012 | 1.20 m |
| ZK2000-5151-0020 | 2.00 m |
| ZK2000-5151-0030 | 3.00 m |
| ZK2000-5151-0050 | 5.00 m |
| ZK2000-5151-0060 | 6.00 m |
| ZK2000-5151-0080 | 8.00 m |
| ZK2000-5151-0100 | 10.00 m |
| ZK2000-5151-0120 | 12.00 m |
| ZK2000-5151-0150 | 15.00 m |

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