



ZK2000-8181-0xxx | Sensor cable, PUR, 8 x 0.25 mm², drag-chain suitable

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

Plugs

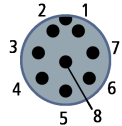
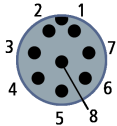
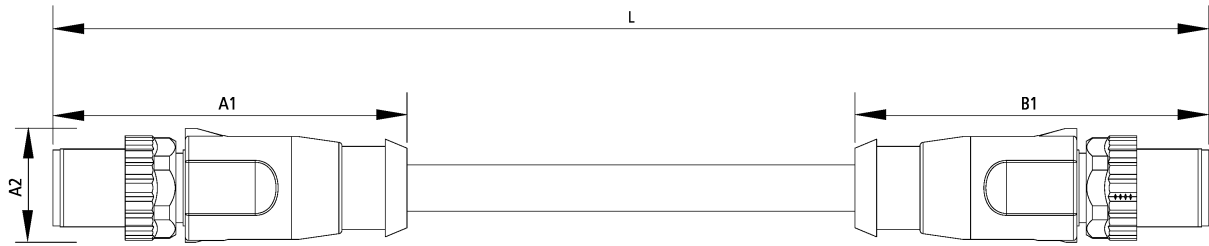
| Electrical data | Head A | Head B |
|---------------------------------|--|--|
| Rated voltage | 30 V (according to IEC 61076-2-101) | 30 V (according to IEC 61076-2-101) |
| Rated current | 2 A at 40 °C (according to IEC 61076-2-101) | 2 A at 40 °C (according to IEC 61076-2-101) |
| Shielding | yes | yes |
| Insulation resistance | ≥ 100 MΩ (according to IEC 60512) | ≥ 100 MΩ (according to IEC 60512) |
| Mechanical data | | |
| Installation size | M12 | M12 |
| Connector type | plug | plug |
| Configuration | straight | straight |
| Contact type | male | male |
| 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 | 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) |

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) |
| 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/s ² |
| 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

| | | |
|---|-------------|---|
| 1 | weiß/white | 1 |
| 2 | braun/brown | 2 |
| 3 | grün/green | 3 |
| 4 | gelb/yellow | 4 |
| 5 | grau/grey | 5 |
| 6 | rosa/pink | 6 |
| 7 | blau/blue | 7 |
| 8 | rot/red | 8 |



| | |
|----|-----------|
| A1 | 49.00 mm |
| A2 | Ø14.50 mm |
| B1 | 49.00 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.

| Ordering information | Length |
|----------------------|---------|
| ZK2000-8181-0100 | 10.00 m |

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

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