

# ZK2000-2122-3xxx | Sensor cable, PVC, 3 x 0.25 mm², fixed installation

M8, plug, straight, male, 3-pin, A-coded – M8, socket, straight, female, 3-pin, A-coded

## **Plugs**

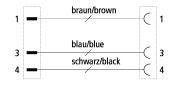
| Electrical data            | Head A  | Head B  |
|----------------------------|---|---|
| Rated voltage              | 60 V (according to IEC 61076-2-104)   | 60 V (according to IEC 61076-2-104)   |
| Rated current (signal/24V) | 4 A at 40 °C (acc.to IEC 61076-2-104)   | 4 A at 40 °C (acc.to IEC 61076-2-104)   |
| Shielding                  | no  | no  |
| Insulation resistance      | ≥ 10 GΩ (according to IEC 60512-2)  | $\geq$ 10 G $\Omega$ (according to IEC 60512-2)   |
| Mechanical data            |   |   |
| Installation size          | M8  | M8  |
| Connector type             | plug  | socket  |
| Configuration              | straight  | straight  |
| Contact type               | male  | female  |
| Number of positions (face) | 3-pin   | 3-pin   |
| Coding                     | A-coded   | A-coded   |
| Wire termination           | crimp connection  | crimp connection  |
| Recommended torque, nut    | 0.4 Nm  | 0.4 Nm  |
| Mating cycles              | ≥ 100 (according to IEC 60512-9a)   | ≥ 100 (according to IEC 60512-9a)   |
| Way of locking             | screw   | screw   |
| Weight per piece           | 0.028 kg (0.0617 lb)  | 0.028 kg (0.0617 lb)  |
| Body colour                | black   | black   |
| Body material              | TPU, UL94   | TPU, UL94   |
| Coupling nut material      | CuZn, Ni  | CuZn, Ni  |
| Seal                       | FPM   | FPM   |
| Contact carrier colour     | red   | red   |
| Contact carrier material   | TPU GF, UL 94   | TPU GF, UL 94   |
| Contact plating            | Ni, Au gal.   | Ni, Au gal.   |
| Contact material           | CuZn  | CuZn  |
| 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   |
|                            |   |   |

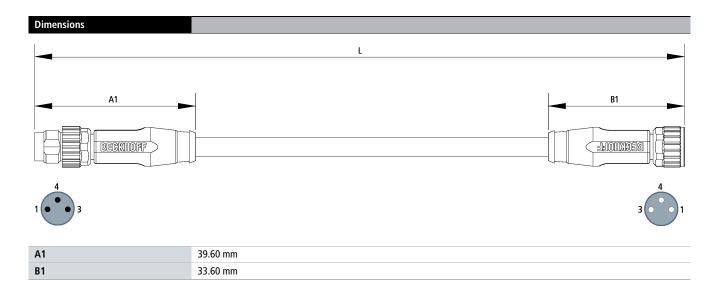
| Ambient temperature (operation) | -30+80 °C, -22+176 °F                               | -30+80 °C, -22+176 °F                               |
|---------------------------------|---|---|
| Protection class                | IP 67 in screwed condition (according to IEC 60529) | IP 67 in screwed condition (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                           | $\geq$ 10 G $\Omega$ (according to IEC 60512-2) |
| Wire resistance (signal/24V)                    | ≤ 58.0 Ω/km (20 °C)                             |
| Test voltage                                    | ≥ 3000 V  |
| Mechanical data                                 |   |
| Conductor construction (signal/24V)             | 32 x 0.10 mm                                    |
| Cross section                                   | 3 x 0.25 mm <sup>2</sup> (AWG24)                |
| Min. bending radius, fixed installation         | 10 x outer cable diameter                       |
| Weight  | 29.45 kg/km (19.7 lb/1000 ft)                   |
| Outer cable diameter                            | 4.4 mm ± 0.15 mm (0.173" ± 0.0059")             |
| Shielding                                       | no  |
| Use   | fixed installation                              |
| Jacket colour                                   | grey  |
| Material jacket                                 | PVC (polyvinyl chloride)                        |
| Wire colour code                                | brown, blue, black                              |
| Wire insulation material                        | PVC (polyvinyl chloride)                        |
| Printing colour                                 | white   |
| Environmental data                              |   |
| Operation temperature range, fixed installation | -25+80 °C, -13+176 °F                           |
| Flame-retardant                                 | according to DIN EN 60332-2-2                   |
| Halogen-free                                    | no  |

#### Contact assembly





#### **Notes**

- Depending on the cable length (L), the following length tolerances apply: 0 m...<0.2 m:  $\pm$  10 mm | 0.2...4.0 m: + 40 mm |  $\geq$  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 |
|----------------------|--------|
| ZK2000-2122-3005     | 0.50 m |
| ZK2000-2122-3010     | 1.00 m |
| ZK2000-2122-3020     | 2.00 m |

| Accessories |   |
|-------------|---|
| ZB8801-0000 | torque wrench for hexagonal plugs, adjustable       |
| ZB8801-0001 | torque cable key, M8/wrench size 9, for ZB8801-0000 |

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