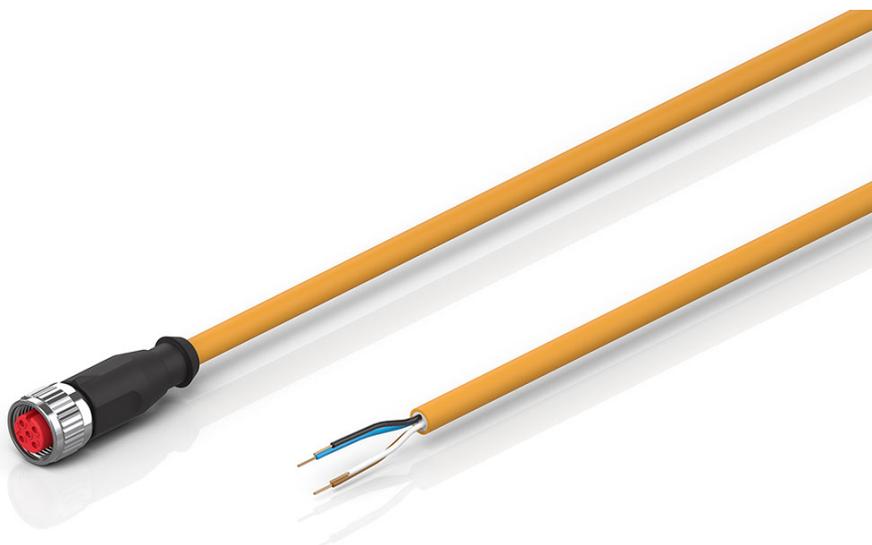


ZK4000-6200-2xxx | Motor connection cable 0.5 mm² with M12 plug, drag-chain suitable



M12, socket, straight, female, 4-pin, A-coded – open end, 4-wire



Plugs

| Electrical data | Head A | Head B |
|----------------------------|--------------------------------------|----------|
| Rated voltage | 250 V (according to IEC 61076-2-101) | - |
| Rated current | 5 A at 40°C | - |
| Rated impulse voltage | 1.5 kV | - |
| Shielding | no | - |
| Contact resistance | < 10 mΩ | - |
| Insulation resistance | ≥ 100 MΩ (according to IEC 60512) | - |
| Mechanical data | | |
| Installation size | M12 | open end |
| Connector type | socket | - |
| Configuration | straight | - |
| Contact type | female | - |
| Number of positions (face) | 4-pin | 4-wire |
| Coding | A-coded | - |
| Recommended torque, nut | 0.6 Nm | - |

| | | |
|---------------------------------|---|---|
| Mating cycles | ≥ 100 (according to IEC 60512-9a) | - |
| Way of locking | screw | - |
| Body color | black | - |
| Body material | TPU, UL 94 | - |
| Coupling nut material | GD-Zn, Ni | - |
| Seal | FPM | - |
| Contact carrier color | red | - |
| Contact carrier material | PA 6, UL 94 V0 | - |
| Contact plating | Ni, Au gal. | - |
| Contact material | CuZn | - |
| Environmental data | | |
| Special features | halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1 | - |
| RoHS compliant | yes | - |
| Ambient temperature (operation) | -30...+85°C, -22...+185°F | - |
| Protection rating | IP65/67 in screwed condition (according to IEC 60529) | - |
| Pollution level | 3/2 (according to IEC 60664-1) | - |

Cable

| | | |
|------------------------------|---------------------------------|--|
| Electrical data | | |
| Rated voltage | ≤ 300 V | |
| Operating voltage | ≤ 300 V | |
| Insulation resistance | ≥ 1 GΩ * km | |
| Wire resistance | ≤ 39 Ω/km (20°C) | |
| Wire resistance (signal/24V) | ca. 39 Ω/km | |
| Test voltage | ≥ 3000 V | |
| Mechanical data | | |
| Conductor construction | 28 x 0.15 mm | |
| Cross-section | 4 x 0.5 mm ² (AWG20) | |
| Cross-section (power) | 4 x 0.5 mm ² (AWG20) | |
| Outer cable diameter | 5.35 ± 0.15 mm | |
| Min. bending radius, moved | 10 x outer cable diameter | |
| Weight | 42 kg/km (28.22 lb/1000 ft) | |
| Conductor material | copper bare | |
| Shielding | no | |

| | |
|---|---------------------------|
| Use | drag-chain suitable |
| Max. acceleration | 10 m/s ² |
| Max. speed | 3 m/s |
| Max. number of cycles | 4 million |
| Wall thickness of wire insulation | ≥ 0.21 mm |
| Jacket color | orange |
| Material jacket | PUR (polyurethane) |
| Wire color code | brown, white, blue, black |
| Wire insulation material | PP (polypropylene) |
| Printing color | black |
| Environmental data | |
| Operation temperature range, moved | -15...+80°C, +5...+176°F |
| Operation temperature range, fixed installation | -30...+80°C, -22...+176°F |

| | |
|-------------------------|--|
| Contact assembly | |
| | |

| | |
|-------------------|----------|
| Dimensions | |
| | |
| A1 | 44.00 mm |
| A2 | 14.50 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.

CE, UL

UL yes, UL E-file number: E480185

Ordering information

Length

| | |
|------------------|---------|
| ZK4000-6200-2010 | 1.00 m |
| ZK4000-6200-2030 | 3.00 m |
| ZK4000-6200-2050 | 5.00 m |
| ZK4000-6200-2100 | 10.00 m |

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 |



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.

Beckhoff®, TwinCAT®, TwinCAT/BSD®, TC/BSD®, EtherCAT®, EtherCAT G®, EtherCAT G10®, EtherCAT P®, Safety over EtherCAT®, TwinSAFE®, XFC®, XTS® and XPlanar® are registered trademarks of and licensed by Beckhoff Automation GmbH. Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

© Beckhoff Automation GmbH & Co. KG 03/2024

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual application do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.