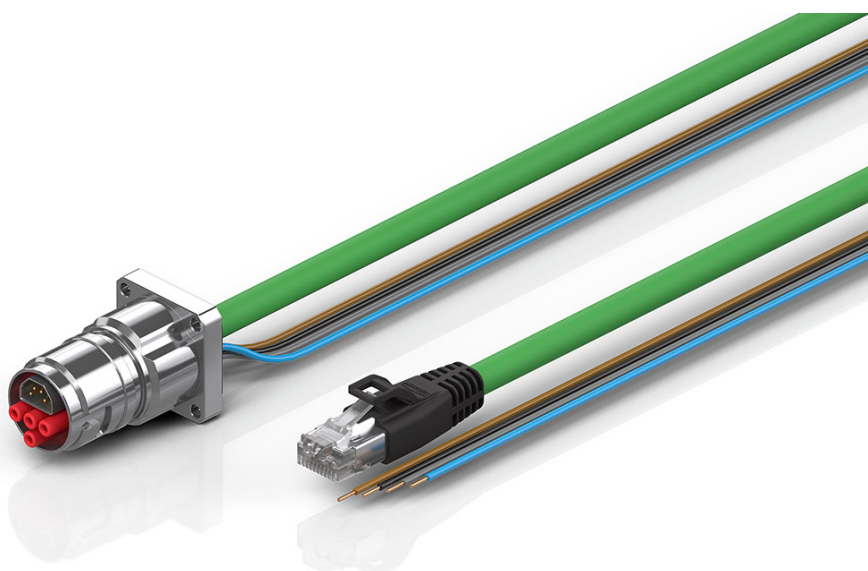


ZK7624-BQ00-Axxx | B17, ENP cable, PUR, 4 x 1.5 mm² + (1 x 4 x AWG22), drag-chain suitable, key 2 (user-defined voltage)



B17, square flange, straight, long, female+male, pins 4+4, EtherCAT-coded – RJ45, plug, straight, male, 4-pin – open end, 4-wire



Plugs

| Electrical data | Head A | Head B | Head C |
|----------------------------------|---|--------|--------|
| Rated voltage | - | 150 V | - |
| Rated voltage (Ethernet) | 60 V DC | - | - |
| Rated current (Ethernet) | 4 A at 40 °C | - | - |
| Rated voltage (power) | 630 V AC / 850 V DC, 600V AC / DC (UL) | - | - |
| Rated current (power) | 15.5 A at 45 °C | - | - |
| Rated current | - | 1.5 A | - |
| Rated impulse voltage (power) | 6.0 kV | - | - |
| Rated impulse voltage (Ethernet) | 1.0 kV | - | - |
| Voltage proof (contact/contact) | 1.5 kV (power - Ethernet), 3.31 kV AC (power), 1.0 kV AC (Ethernet) | - | - |
| Shielding | - | yes | - |

| | | | |
|----------------------------------|---|------------------------------------|----------|
| Shielding (Ethernet) | yes | - | - |
| Contact resistance | < 10 mΩ (signal), < 5 mΩ (power) | - | - |
| Insulation resistance | ≥ 100 MΩ (according to IEC 60512) | ≥ 10 GΩ (according to IEC 60512-2) | - |
| Mechanical data | | | |
| Installation size | B17 | RJ45 | open end |
| Connector type | square flange | plug | - |
| Configuration | straight, long | straight | - |
| Contact type | female+male | male | - |
| Number of positions (face) | pins 4+4 | 4-pin | 4-wire |
| Coding | EtherCAT-coded | - | - |
| Mechanical coding | key 2 (user-defined voltage) | - | - |
| Wire termination | crimp connection | - | - |
| Mating cycles | ≥ 100 | ≥ 750 | - |
| Way of locking | bayonet | - | - |
| Weight per piece | 0.170 kg (0.375 lb) | - | - |
| Body color | - | black | - |
| Body material | - | TPU, UL 94 HB | - |
| Flange housing material | GD-Zn, Ni | - | - |
| Seal | NBR | - | - |
| Contact carrier material | PA, UL 94 | PC UL 94 V-0 | - |
| Contact carrier color (Ethernet) | yellow | - | - |
| Contact carrier color (power) | red | - | - |
| Contact plating | Au over Ni | Ni, Au gal. | - |
| Contact material | copper alloy | CuZn | - |
| Environmental data | | | |
| Shock resistance | 50 g (490 m/s ²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes | - | - |
| Vibration resistance | 5 g (50 m /s ²) conforms to IEC 60512-6d, 10 Hz ... 500 Hz; 10 cycles per axis; 6 h full duration | - | - |
| RoHS compliant | yes | yes | - |
| Ambient temperature (operation) | -30...+80°C, -22...+176°F | -40...+70°C, -40...+158°F | - |
| Protection rating | IP65/67 in screwed condition (according to IEC 60529) | IP20 | - |
| Pollution level | 3/2 (according to IEC 60664-1) | - | - |

Approvals

UL 2237: File E484763

-

-

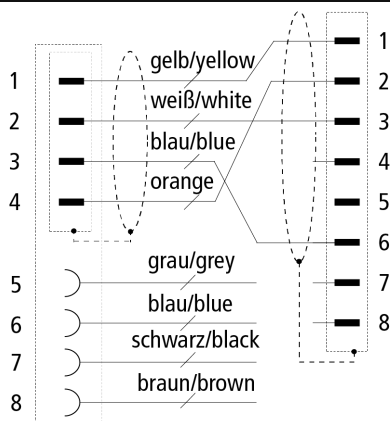
Cable

| Electrical data | |
|---|--|
| Rated voltage (Ethernet) | max. 300 V (peak value, not for high voltage purposes) |
| Rated voltage (power) | 600 V |
| Attenuation of shielding | ≥ 40 dB |
| Insulation resistance | ≥ 500 MΩ/km |
| Unbalanced capacitance to ground | 1600 pF/km |
| Mutual capacitance | 52 nF/km (1 kHz) |
| Characteristic impedance (Ethernet) | 100 Ω ±15 Ω (100 MHz) |
| Loop resistance (Ethernet) | ≤ 115 Ω/km |
| Differential impedance (Ethernet) | 250 Ω/km |
| Unbalanced resistance (Ethernet) | 2 % |
| Dielectric strength wire/wire (Ethernet) | 1000 V DC/700 V AC |
| Dielectric strength wire/shield (Ethernet) | 1000 V DC/700 V AC |
| Signal running time (Ethernet) | 5.3 ns/m |
| Electrical parameters (Ethernet) | based on Cat.5 |
| Test voltage | ≥ 2000 V |
| Mechanical data | |
| Cable structure (Ethernet) | star quad |
| Conductor construction (power) | 19 x 0.30 mm |
| Conductor construction (Ethernet) | 7 x 0.25 mm |
| Cross-section (power) | 4 x 1.5 mm ² (approx. AWG16) |
| Cross-section (Ethernet) | 1 x 4 x 0.34 mm ² (AWG22) |
| Outer cable diameter | 6.5 mm ± 0.2 mm (0.142" ± 0.0079") |
| Min. bending radius, moved | 7.5 x outer cable diameter |
| Min. bending radius, fixed installation | 5 x outer cable diameter |
| Weight | 61 kg/km (41.0 lb/1000 ft) |
| Conductor material (Ethernet) | copper, tinned |
| Shielding | aluminum-clad foil, braiding of tinned copper wires |
| Optical covering factor of shielding (Ethernet) | ≥ 85 % |
| Use | drag-chain suitable |
| Max. acceleration | 4 m/s ² |
| Max. speed | 4 m/s |

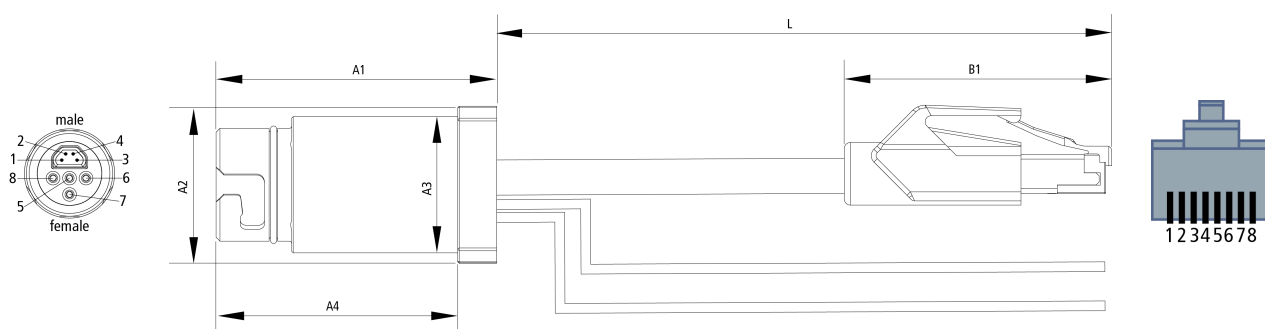
| | |
|---|---|
| Max. number of cycles | 3 million |
| Wall thickness of wire insulation (Ethernet) | 0.375 mm |
| Jacket color | green |
| Material jacket | PUR (polyurethane) |
| Wire color code | yellow, orange, white, blue (Ethernet) gray, blue, black, brown (Power) |
| Wire insulation material | PP polypropylene (Ethernet), PPE polyphenyl ether (Power) |
| Printing on the jacket | BECKHOFF ZB9020 Industrial Ethernet / EtherCAT Trailing Cable * CAT5PLUS * 22AWG (SHIELDED) (UL) E119100 CMX 75°C VERIFIED (UL) CAT 5E PATCH CABLE FRNC **length in meters" |
| Printing color | black |
| Environmental data | |
| Operation temperature range, moved | -40...+70°C, -40...+158°F |
| Operation temperature range, fixed installation | -20...+60°C, -4...+140°F |
| UV resistance | yes |
| Oil resistance | according to DIN EN 60811-2-1 |
| Acid, lye and solvent resistance | depends on medium, concentration, temperature and duration |
| LABS-free | yes |
| Flame-retardant | yes |
| CFC-free | yes |
| Halogen-free | yes |
| Silicone-free | yes |
| Approvals | UL-Style AWM 20963 |

| | |
|-------------------------------------|---|
| Attenuation | |
| Max. insertion loss | |
| Frequency [MHz] | 1 4 10 16 20 31.25 62.5 100 |
| [db/100 m] | 2.1 4.0 6.3 8.0 9.0 11.4 16.5 21.3 |
| [db/100 ft] | 0.6 1.2 1.9 2.4 2.7 3.5 5 6.5 |
| Min. near-end crosstalk attenuation | |
| Frequency [MHz] | 1 4 10 16 20 31.25 62.5 100 |
| [db/100 m] | 80 76.0 70.0 65.0 63.0 60.0 55.0 50.0 |
| [db/100 ft] | 24.4 23.2 21.3 19.8 19.2 18.3 16.8 15.2 |

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



Dimensions



| | |
|----|----------|
| A1 | 42.00 mm |
| A2 | 25.00 mm |
| A3 | 25.00 mm |
| A4 | 37.00 mm |
| B1 | 43.80 mm |

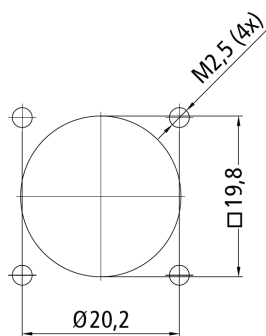
Notes

- Depending on the cable length (L), the following length tolerances apply:
 0 m...3.0 m: + 100 mm | 3.0...10.0 m: ± 100 mm | ≥ 10.0 m: ± 2%
- Illustrations similar
- Delivery with counter nut
- Further cable length on request. The last three digits of the ordering information is the cable length in decimeters, e.g.
 ZKxxxx-xxx-x020 = cable length 2.00 m

CE, UL

CE yes

Installation dimensions



| Ordering information | Length |
|----------------------|--------|
| ZK7624-BQ00-Axxx | - |

| Accessories | |
|-------------|---|
| ZS7200-B006 | B17 color coding connector/square flange, yellow, packaging unit = 10 pieces |
| ZS7200-B002 | B17 protection cap, socket/flange, metal, IP67, packaging unit = 5 pieces, including loss protection |
| ZS7200-B001 | B17 protection cap, socket/flange, plastic, IP67, packaging unit = 10 pieces, including loss protection |
| ZS7200-B005 | B17 color coding connector/square flange, red, packaging unit = 10 pieces |
| ZS7200-B007 | B17 color coding connector/square flange, blue, packaging unit = 10 pieces |
| ZS7200-B008 | B17 color coding connector/square flange, green, packaging unit = 10 pieces |
| ZS7200-B015 | B17 color coding connector/square flange, orange, packaging unit = 10 pieces |
| ZS7200-B016 | B17 color coding connector/square flange, gray, packaging unit = 10 pieces |



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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