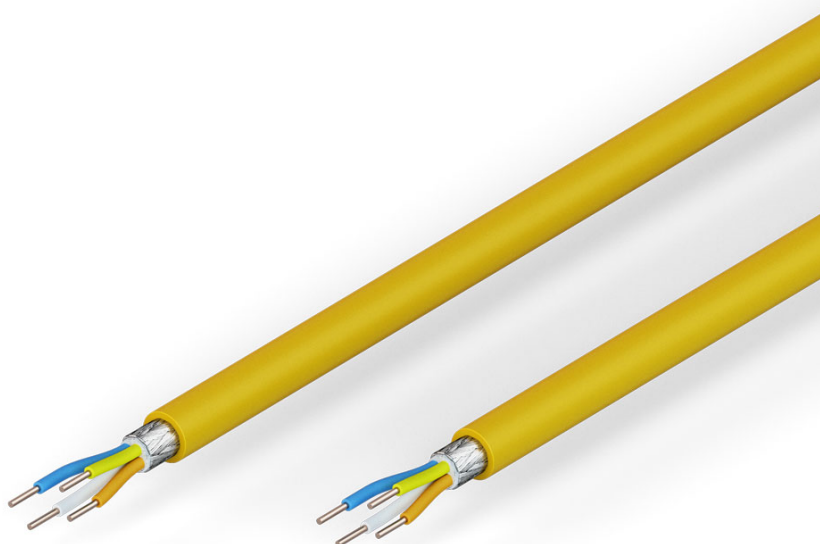


ZB9037 | Industrial Ethernet/EtherCAT cable, shielded, PUR, 1 x 4 x AWG26, fixed installation, Cat.5, yellow



Electrical data

| | |
|--|---|
| Rated voltage | 30 V (according to IEC 61076-2-101) |
| Attenuation of shielding | ≥ 50 dB (30...100 MHz) |
| Insulation resistance | ≥ 500 M Ω /km |
| Unbalanced capacitance to ground | ≤ 2000 pF/km |
| Mutual capacitance | nom. 50 nF/km |
| Characteristic impedance (Ethernet) | 100 Ω \pm 15 Ω |
| Loop resistance (Ethernet) | ≤ 260 Ω /km |
| Unbalanced resistance (Ethernet) | 2 % |
| Dielectric strength wire/wire (Ethernet) | 1 kV AC (50 Hz, 1 min)/1 kV DC (50 Hz) |
| Dielectric strength wire/shield (Ethernet) | 1 kV AC (50 Hz, 1 min.)/1 kV DC (50 Hz) |
| Signal running time (Ethernet) | 4.8 ns/m |
| Electrical parameters (Ethernet) | based on Cat.5 |
| Test voltage | 1000 V, 50 Hz, 1 min. |

Mechanical data

| | |
|-----------------------------------|--------------------------------------|
| Cable structure (Ethernet) | star quad |
| Conductor construction (Ethernet) | 7-strand |
| Cross-section (Ethernet) | 1 x 4 x 0.14 mm ² (AWG26) |

| | |
|---|---|
| Outer cable diameter | 3.65 mm ± 0.15 mm (0.1496" ± 0.0059") |
| Min. bending radius, moved | 15 x outer cable diameter |
| Min. bending radius, fixed installation | 8 x outer cable diameter, 2.5 x outer cable diameter (fixed with single bend) |
| Weight | 30 kg/km (20.2 lb/1000 ft) |
| Conductor material | copper bare |
| Shielding | braiding of tinned copper wires |
| Optical covering factor of shielding (Ethernet) | ≥ 85 % |
| Use | fixed installation |
| Jacket color | yellow |
| Material jacket | PUR (polyurethane) |
| Wire color code | yellow, orange, white, blue |
| Wire insulation material | PO (Polyolefine) |
| Printing on the jacket | 00000m Beckhoff Automation GmbH & Co. KG - Germany – Industrial Ethernet / EtherCAT ZB9037 Cat5e AWG26/7 E170315 AWM 20963 AWM I A/B 80°C 30V Fa.No.xxxxx |
| Printing color | black |
| Environmental data | |
| Operation temperature range, moved | -30...+70°C, -22...+158°F |
| Operation temperature range, fixed installation | -40...+80°C, -40...+176°F |
| UV resistance | good |
| Oil resistance | according to DIN EN 60811-404 (7x24 h/90 °C) |
| Acid, lye and solvent resistance | depends on medium, concentration, temperature and duration |
| Flame-retardant | Horizontal flame test according to UL 1581 part 1090 |
| CFC-free | yes |
| Halogen-free | according to IEC 60754 or DIN VDE 0472 part 815 |
| Silicone-free | yes |
| UL | yes, UL E-file number: E170315 |

| | | | | | | | | | |
|-------------------------------------|------|------|------|------|------|-------|------|------|--|
| Attenuation | | | | | | | | | |
| Max. insertion loss | | | | | | | | | |
| Frequency [MHz] | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | |
| [db/100 m] | 3.2 | 6.2 | 10.5 | 13.4 | 14.7 | 18.8 | 27.2 | 35.0 | |
| [db/100 ft] | 1 | 1.9 | 3.2 | 4.1 | 4.5 | 5.7 | 8.3 | 10.7 | |
| Min. near-end crosstalk attenuation | | | | | | | | | |
| Frequency [MHz] | 1 | 4 | 10 | 16 | 20 | 31.25 | 62.5 | 100 | |
| [db/100 m] | 65 | 56.3 | 50.3 | 47.2 | 45.8 | 42.9 | 38.4 | 35.3 | |
| [db/100 ft] | 19.8 | 17.2 | 15.3 | 14.4 | 14 | 13.1 | 11.7 | 10.8 | |

Notes

- The following length tolerances apply: 2-3%
- Illustrations similar

| Ordering information | Length |
|----------------------|-------------------|
| ZB9037 | sold by the meter |

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