



ZB9061-Rxxx | Industrial Ethernet cable, SF/UTP, PUR, 2 x 4 x AWG26, drag-chain suitable, Cat.6, green

Electrical data	
Rated voltage	125 V
Operating voltage	≤ 125 V (peak value, not for high voltage purposes)
Attenuation of shielding	≥ 60 dB (30...250 MHz)
Insulation resistance	≥ 5GΩ * km
Mutual capacitance	nom. 50 nF/km
Characteristic impedance	100 Ω ± 15 Ω (100 MHz)
Loop resistance	≤ 280 Ω/km
Electrical parameters (Ethernet)	Cat.6
Test voltage	700 V, 50 Hz, 1 min. (wire/wire and wire/screen)
Mechanical data	
Cable structure	SF/UTP
Cable structure (Ethernet)	twisted shielded pair
Conductor construction (Ethernet)	19-strand
Cross section (Ethernet)	4 x 2 x 0.14 mm ² (AWG26)
Min. bending radius, moved	7.5 x outer cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter
Weight	64 kg/km (43.0 lb/1000 ft)
Outer cable diameter	7.80 ± 0.20 mm
Conductor material (Ethernet)	copper, tinned
Shielding	aluminium-clad foil, braiding of tinned copper wires
Optical covering factor of shielding (total)	≥ 85 %
Use	drag-chain suitable
Max. acceleration	4 m/s ²
Max. speed	4 m/s
Max. travel distance	4.5 m (horizontal)
Max. number of cycles	1 million
Jacket colour	green
Material jacket	PUR (polyurethane)
Wire colour code	white-blue / blue, white-orange / orange, white-green / green, white-brown / brown
Wire insulation material	PO (Polyolefine)

Printing on the jacket	m ZB9061 Beckhoff Automation GmbH & Co. KG - Germany - EtherCAT Cat6 AWG26/19 * c(UL)us E312184 CMX 75°C or AWM 21576 80°C RoHS
Environmental data	
Operation temperature range, moved	-30...+70 °C, -22...+158 °F for flexible use. In drag-chain: -5...+50 °C, 23...+122 °F
Operation temperature range, fixed installation	-40...+80 °C, -40...+185 °F
Oil resistance	according to IEC 60811-2-1 respectively according to DIN VDE 0282 part 10
Acid, lye and solvent resistance	depends on medium, concentration, temperature and duration
Flame-retardant	VW1 Flame Test, IEC 60332-1-2
Halogen-free	according to IEC 60754 respectively DIN VDE 0472 part 815
Approvals	c(UL)us CMX 75°C, C(UL)us AWM 21576 80°C 1000V

Attenuation								
Max. insertion loss								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	-	5.8	9.0	11.4	12.8	16.1	23.3	29.9
[db/100 ft]	-	1.8	2.7	3.5	3.9	4.9	7.1	9.1
Min. near-end crosstalk attenuation								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	-	66.3	60.3	57.2	55.8	52.9	48.4	45.3
[db/100 ft]	-	20.2	18.4	17.4	17	16.1	14.8	13.8

Notes

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

Ordering information	Length
ZB9061-R001	1000 m
ZB9061-R002	500 m
ZB9061-R003	305 m

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