



ZB9034 | Industrial Ethernet/EtherCAT cable, shielded, PUR, 1 x 4 x AWG26, fixed installation, CAT5, green

Electrical data	
Rated voltage	max. 300 V (peak value, not for high voltage purposes)
Attenuation of shielding	≥ 50 dB (30...100 MHz)
Insulation resistance	≥ 500 MΩ/km
Unbalanced capacitance to ground	≤ 2000 pF/km
Mutual capacitance	nom. 50 nF/km
Characteristic impedance (Ethernet)	100 Ω ±15 Ω
Loop resistance (Ethernet)	≤ 260 Ω/km
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)	CAT 5e, according to EN 50288-2-2
Mechanical data	
Cable structure (Ethernet)	star quad
Cross section (Ethernet)	0.14 mm ² (AWG26)
Min. bending radius, moved	15 x outer cable diameter
Min. bending radius, fixed installation	8 x outer cable diameter, 4 x outer cable diameter (fixed with single bend)
Weight	30.0 kg/km (20.2 lb/1000 ft)
Outer cable diameter	3.65 mm ± 0.15 mm (0.1496" ± 0.0059")
Conductor material	Copper bare
Conductor material (Ethernet)	copper, tinned
Optical covering factor of shielding (Ethernet)	≥ 85 %
Use	fixed installation
Jacket colour	green
Material jacket	PUR (polyurethane)
Wire colour code	yellow, orange, white, blue
Wire insulation material	Polyolefine

Printing on the jacket	00000m Beckhoff Automation GmbH & Co. KG - Germany – Industrial Ethernet / EtherCAT ZB9034 Cat5e AWG26/7 E170315 AWM 20963 AWM I A/B 80°C 30V Fa.No.xxxxx
Printing colour	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 respectively DIN VDE 0472 part 815
Silicone-free	yes

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
ZB9034	On request

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