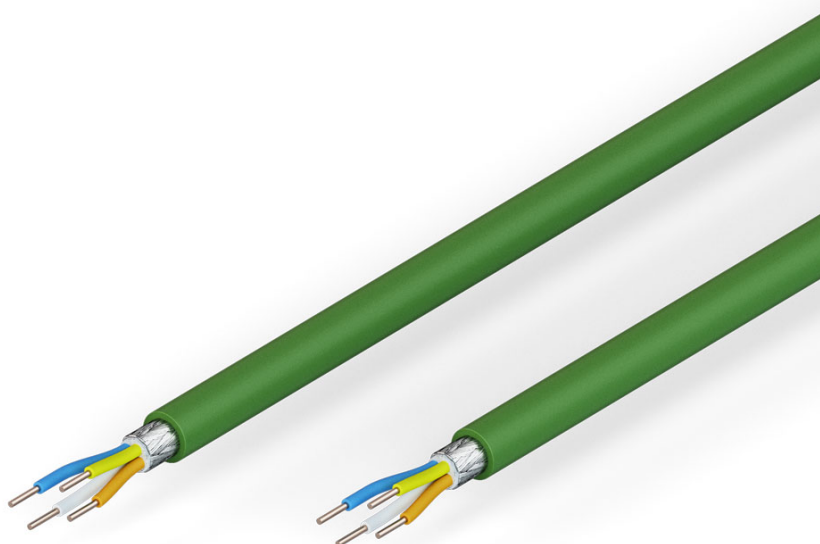


ZB9034 | Industrial Ethernet/EtherCAT cable, shielded, PUR, 1 x 4 x AWG26, fixed installation, Cat.5, green



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	30.0 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	green
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 ZB9034 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
ZB9034	sold by the meter



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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