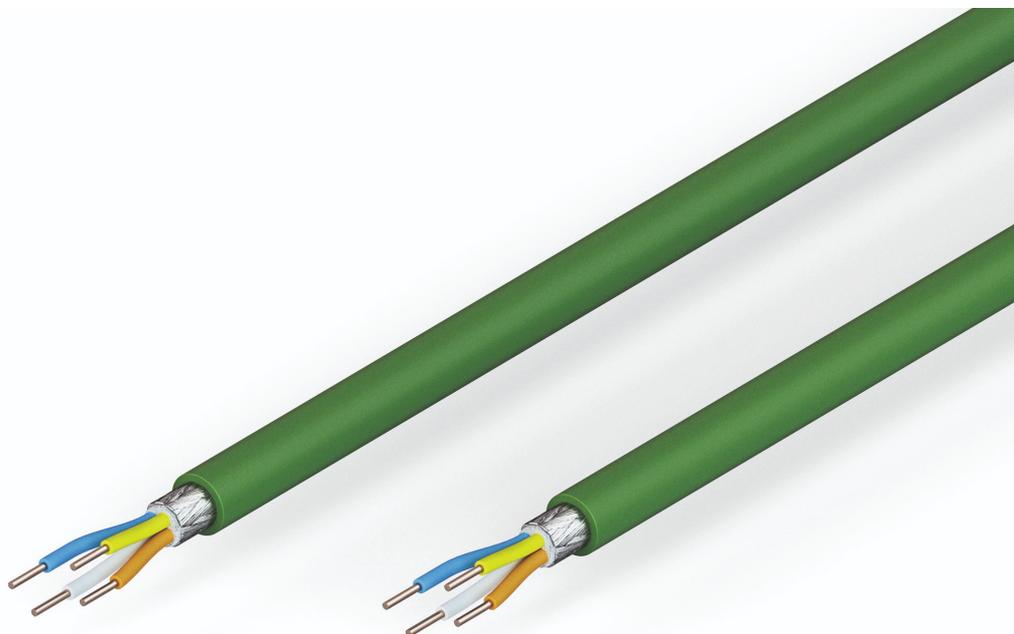


ZB9031 | Industrial Ethernet/EtherCAT cable, shielded, PUR, 1 x 4 x AWG26, drag-chain suitable, Cat.5, green



Electrical data

Rated voltage	30 V (according to IEC 61076-2-101)
Attenuation of shielding	≥ 60 dB (30...125 MHz)
Insulation resistance	≥ 150 M Ω /km
Unbalanced capacitance to ground	3400 pF/km (1 kHz)
Mutual capacitance	51.0 nF/km
Characteristic impedance (Ethernet)	100 Ω \pm 15 Ω (100 MHz)
Loop resistance (Ethernet)	125 Ω /km
Unbalanced resistance (Ethernet)	< 3 %
Signal running time (Ethernet)	5.55 ns/m
Electrical parameters (Ethernet)	based on Cat.5
Test voltage	700 V

Mechanical data

Cable structure (Ethernet)	star quad
Conductor construction (Ethernet)	19 x 0.15
Cross-section (Ethernet)	1 x 4 x 0.14 mm ² (AWG26)
Min. bending radius, moved	15 x outer cable diameter
Min. bending radius, fixed installation	7 x outer cable diameter

Weight	30 kg/km (20,2 lb/1000 ft)
Outer cable diameter	4.8 mm ± 0.3 mm (0.189" ± 0.0118")
Conductor material (Ethernet)	bare copper
Shielding	aluminum-clad foil, braiding of tinned copper wires
Optical covering factor of shielding (Ethernet)	≥ 85 %
Use	drag-chain suitable
Max. acceleration	5 m/s ²
Max. speed	3 m/s
Max. number of cycles	5 million
Wall thickness of wire insulation (Ethernet)	0.25 mm
Jacket color	green
Material jacket	PUR (polyurethane)
Material jacket, further characteristics of	corrosive according to EN 50267-2-3
Wire color code	white-blue, blue, white-orange, orange
Wire insulation material	PP (polypropylene)
Printing color	black
Environmental data	
Operation temperature range, moved	-40...+80 °C, -40...+176 °F
LABS-free	yes
Flame-retardant	according to IEC 60332-1-2
CFC-free	yes
Halogen-free	according to IEC 60754-2
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]	- 6.0 9.5 12.1 13.5 17.1 24.8 32.0
[db/100 ft]	- 1.8 2.9 3.7 4.1 5.2 7.6 9.8
Min. near-end crosstalk attenuation	
Frequency [MHz]	1 4 10 16 20 31.25 62.5 100
[db/100 m]	- 56.3 50.3 47.2 45.8 42.9 38.4 35.3
[db/100 ft]	- 17.2 15.3 14.4 14 13.1 11.7 10.8

Notes

- The following length tolerances apply: 2-3 %

Ordering information	Length
ZB9031	sold by the meter

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