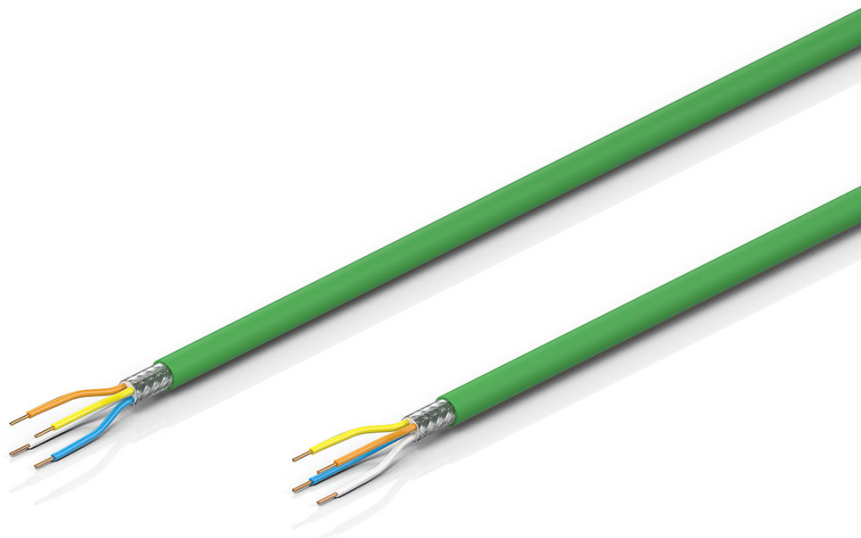


ZB9010 | Industrial Ethernet/EtherCAT cable, shielded, PVC, 1 x 4 x AWG22, fixed installation, Cat.5, green



Electrical data	
Rated voltage	600 V
Operating voltage	≤ 125 V (peak value, not for high voltage purposes)
Insulation resistance	≥ 5 GΩ/km
Mutual capacitance	48 nF/km
Characteristic impedance (Ethernet)	100 Ω ±15 Ω (100 MHz)
Loop resistance (Ethernet)	≤ 115 Ω/km
Signal running time (Ethernet)	5.3 ns/m
Electrical parameters (Ethernet)	based on Cat.5
Test voltage	≥ 2000 V
Mechanical data	
Cable structure (Ethernet)	twisted shielded pair
Conductor construction (Ethernet)	solid
Cross-section (Ethernet)	1 x 4 x 0.34 mm ² (AWG22)
Outer cable diameter	6.5 mm ± 0.2 mm (0.2559" ± 0.0079")
Min. bending radius, moved	7.5 x outer cable diameter
Min. bending radius, fixed installation	3 x outer cable diameter
Weight	67 kg/km (45.0 lb/1000 ft)

Shielding	braiding of tinned copper wires
Optical covering factor of shielding (Ethernet)	90 %
Use	fixed installation
Jacket color	green
Material jacket	PVC (polyvinyl chloride)
Wire color code	yellow, orange, white, blue
Printing on the jacket	BECKHOFF ZB9010 Industrial Ethernet / EtherCAT Standard Cable * CAT5 PLUS * 2x2x22AWG (SHIELDED) (UL) E119100 CMG FT4 75°C VERIFIED (UL) CAT 5E or PLTC SUN RES or AWM 21694 600V * "sequential length in metres"
Printing color	black
Environmental data	
Operation temperature range, moved	-20...+60°C, -4...+140°F
Operation temperature range, fixed installation	-40...+75 °C, -40...+167 °F
Ambient temperature, transport/storage	-40...+75°C, -40...+167°F
Flame-retardant	according to IEC 60332-1-2, according to UL 1685 (CSA FT 4)
UL	yes, UL E-file number: E119100

Attenuation									
Max. insertion loss									
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100	
[db/100 m]	1.6	3.2	5.2	6.9	7.8	10.5	15.0	19.5	
[db/100 ft]	0.5	1	1.6	2.1	2.4	3.2	4.6	5.9	
Min. near-end crosstalk attenuation									
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100	
[db/100 m]	80	75.0	70.0	65.0	63.0	60.0	55.0	50.0	
[db/100 ft]	24.4	22.9	21.3	19.8	19.2	18.3	16.8	15.2	

Notes

- The following length tolerances apply: 2-3%

Ordering information	Length
ZB9010	sold by the meter
ZB9010-R000	500 m



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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