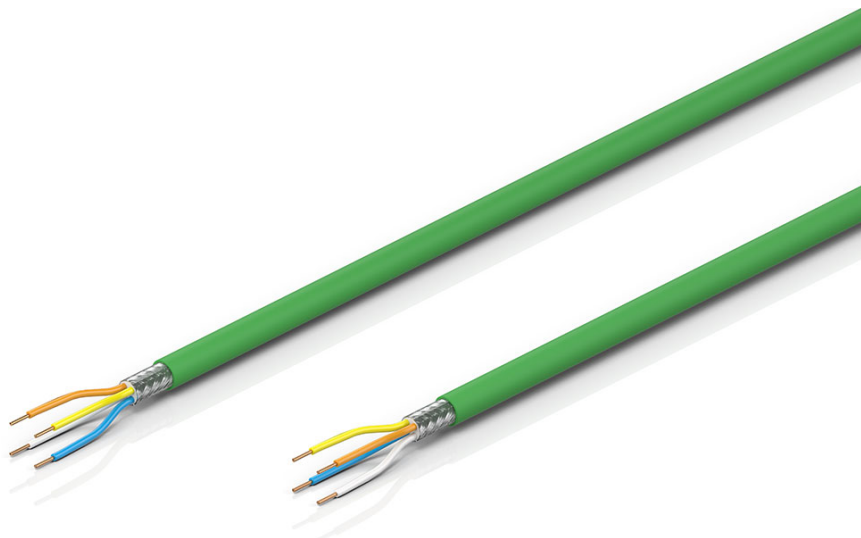


# ZB9014 | Industrial Ethernet/EtherCAT cable, shielded, PVC, 1 x 4 x AWG22, fixed installation, Cat.5, green, CMG, CSA, PLTC



Electrical data	
Rated voltage	600 V
Operating voltage	≤ 125 V (peak value, not for high voltage purposes)
Insulation resistance	≥ 0.5 GΩ/km
Mutual capacitance	48 nF/km
Wire resistance (Ethernet)	≤ 58.0 Ω/km (20°C)
Characteristic impedance (Ethernet)	100 Ω ±15 Ω (100 MHz)
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)	7-strand
Cross-section (Ethernet)	2 x 2 x 0.34 mm <sup>2</sup> (AWG22)
Outer cable diameter	6.5 mm ± 0.2 mm (0.2559" ± 0.0079")
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 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 color	black
<b>Environmental data</b>	
Operation temperature range, moved	-20...+60°C, -4...+140°F
Operation temperature range, fixed installation	-40...+80°C, -40...+176°F
Flame-retardant	according to DIN VDE 0482-332-3 / DIN EN 60332-3 / IEC60332-3
Approvals	CMG, CSA, PLTC

<b>Attenuation</b>	
Max. insertion loss	
Frequency [MHz]	<b>1</b> <b>4</b> <b>10</b> <b>16</b> <b>20</b> <b>31.25</b> <b>62.5</b> <b>100</b>
[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]	<b>1</b> <b>4</b> <b>10</b> <b>16</b> <b>20</b> <b>31.25</b> <b>62.5</b> <b>100</b>
[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%

<b>Ordering information</b>	<b>Length</b>
ZB9014	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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