



ZB9032 | Industrial Ethernet/EtherCAT cable, shielded, PUR, 1 x 4 x AWG26, drag-chain suitable, CAT5, green

Electrical data	
Rated voltage	30 V (according to IEC 61076-2-101)
Attenuation of shielding	≥ 43 dB
Insulation resistance	≥ 150 MΩ/km
Unbalanced capacitance to ground	3400 pF/km
Mutual capacitance	51 pF/m at 1 kHz
Characteristic impedance (Ethernet)	100 Ω ±15 Ω (100 MHz)
Loop resistance (Ethernet)	250 Ω/km
Unbalanced resistance (Ethernet)	2 %
Dielectric strength wire/wire (Ethernet)	1000 V DC/700 V AC
Dielectric strength wire/shield (Ethernet)	1000 V DC/700 V AC
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 0.1 mm
Cross section (Ethernet)	1 x 4 x 0.14 mm ² (AWG26)
Min. bending radius, moved	20 x outer cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter
Weight	40 kg/km (26.9 lb/1000 ft)
Outer cable diameter	5.4 mm ± 0.3 mm (0.213" ±0.0118")
Conductor material (Ethernet)	copper, tinned
Shielding	braiding of tinned copper wires
Optical covering factor of shielding (Ethernet)	90 %
Use	drag-chain suitable
Max. acceleration	10 m/s ²
Max. speed	15 m/s
Max. number of cycles	20 million (5 million with 14 x D, v = 5 m/s and a = 15 m/s ² , min. 1 million with 9.5 x D, a = 1 m/s ² , travel distance = 1 m)

Wall thickness of wire insulation (Ethernet)	0.25 mm
Jacket colour	green
Material jacket	PUR (polyurethane)
Wire colour code	yellow, orange, white, blue
Wire insulation material	PP (polypropylene)
Printing on the jacket	"sequential length in meters" Industrial Ethernet Cat5 trailing * E130266 "UL Recognized" UL AWM 20963 80 °C 30V * ZB9032 "month/year" " internal order number"
Printing colour	black
Environmental data	
Operation temperature range, moved	-40...+80 °C, -40...+176 °F
Oil resistance	according to DIN EN 60811-404 (7x24 h/90 °C)
Acid, lye and solvent resistance	depends on medium, concentration, temperature and duration
CFC-free	yes
Halogen-free	yes
Silicone-free	yes
RoHS compliant	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]	3.1	6.5	9.9	12.3	13.8	17.7	25.6	33.0
[db/100 ft]	0.9	2	3	3.7	4.2	5.4	7.8	10.1
Min. near-end crosstalk attenuation								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	62	53.0	47.0	44.0	42.0	40.0	35.0	32.0
[db/100 ft]	18.9	16.2	14.3	13.4	12.8	12.2	10.7	9.8

Notes

- The following length tolerances apply: 2-3 %

Ordering information	Length
ZB9032	sold by the metre
ZB9032-R000	500 m

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