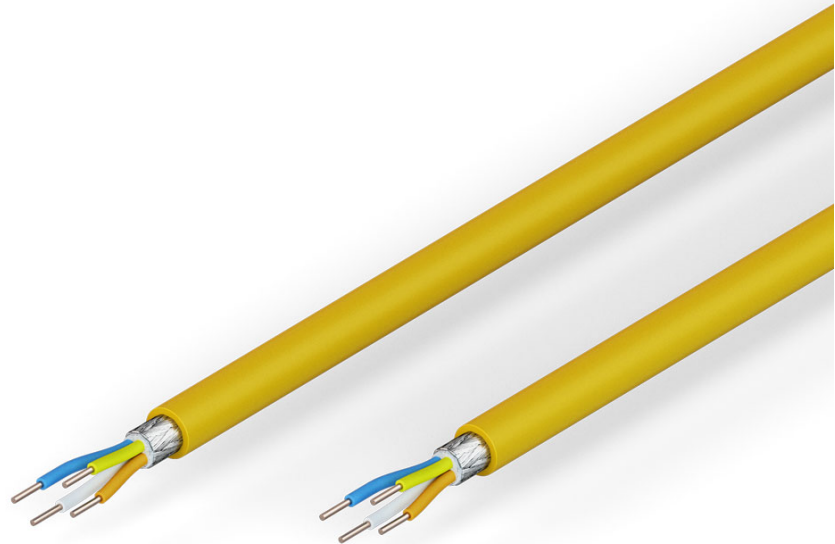
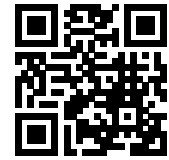


ZB9013 | Industrial Ethernet/EtherCAT cable, shielded, PVC, 2 x 2 x AWG22, fixed installation, Cat.5, yellow



Electrical data	
Rated voltage	600 V
Insulation resistance	$\geq 500 \text{ M}\Omega/\text{km}$
Characteristic impedance (Ethernet)	$100 \Omega \pm 15 \Omega (100 \text{ MHz})$
Loop resistance (Ethernet)	$\leq 115 \Omega/\text{km}$
Signal running time (Ethernet)	5.3 ns/m
Electrical parameters (Ethernet)	based on Cat.5
Test voltage	$\geq 2000 \text{ V}$
Mechanical data	
Cable structure (Ethernet)	twisted pair
Conductor construction (Ethernet)	solid
Cross-section (Ethernet)	$1 \times 4 \times 0.34 \text{ mm}^2 (\text{AWG}22)$
Outer cable diameter	$6.5 \text{ mm} \pm 0.2 \text{ mm} (0.2559" \pm 0.0079")$
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	aluminum-clad foil, braiding of tinned copper wires

Optical covering factor of shielding (Ethernet)	90 %
Use	fixed installation
Jacket color	yellow
Material jacket	PVC (polyvinyl chloride)
Wire color code	yellow, orange, white, blue
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%
- Illustrations similar

Ordering information	Length
ZB9013	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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