



ZB7211 | EtherCAT/Ethernet cable, no overall shield, PUR, drag-chain suitable, 3 G 2.5 mm² + (1 x 4 x AWG22), black with yellow stripe, OD = 11.1 mm (±0.2 mm)

Electrical data	
Insulation resistance	≥ 200 MΩ*km
Wire resistance (power)	≤ 8.3 Ω/km
Wire resistance (Ethernet)	≤ 58.0 Ω/km (20 °C)
Dielectric strength wire/wire (power)	4 kV 50 Hz 5 min. (DIN VDE 0472 T.509C)
Dielectric strength wire/wire (Ethernet)	2 kV (50 Hz, 1 min)
Dielectric strength wire/shield (Ethernet)	2 kV (50 Hz, 1 min)
Mechanical data	
Cable structure (Ethernet)	star quad
Conductor construction (Ethernet)	7-strand
Cross section (power)	3 x 2.5 mm ²
Cross section (Ethernet)	0.34 mm ² (AWG 22/7)
Min. bending radius, moved	7 x outer cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter
Weight	135 kg/km (90.716 lb/1000 ft)
Outer cable diameter	11.1 mm ± 0.2 mm (0.4370" ± 0.0079")
Conductor material (power)	copper bare
Conductor material (Ethernet)	bare copper
Optical covering factor of shielding (Ethernet)	≥ 85 %
Optical covering factor of shielding (total)	no
Use	drag-chain suitable
UL-Style Conductor	UL758 (AWM) Style 21223 (jacket) and Style 10492 (core)
Max. acceleration	30 m/s ²
Max. speed	4 m/s
Max. travel distance	20 m (horizontal)
Max. number of cycles	3 million
Jacket colour	black (RAL 9005) with yellow stripe (RAL 1003, approximate value)

Material jacket	PUR (polyurethane)
Wire colour code	white, yellow, blue, orange power: brown, green/yellow, blue
Wire insulation material	Polyolefine
Printing on the jacket	XXXX Beckhoff Automation GmbH & Co. KG-Germany-EtherCAT P- 3G2,5 + (4xAWG22)/C E63216 AWM 21223 AWM I/II A/B 80°C 600V FT1 RoHS MM/JJ
Printing colour	white
Torsion angle in °/m	max. ± 30 °/m
Environmental data	
Operation temperature range, moved	-20...+60 °C, -4...+140 °F
Operation temperature range, fixed installation	-40...+80 °C, -40...+176 °F
UV resistance	yes
CFC-free	yes
Halogen-free	yes
Silicone-free	yes
Approvals	cRUus

Notes

- The following length tolerances apply: 2-3 %
- Illustrations similar

Ordering information	Length
ZB7211-0050	5.00 m
ZB7211-0100	10.00 m
ZB7211-0250	25.00 m
ZB7211-0500	50.00 m
ZB7211-1000	100.00 m
ZB7211-R001	250.00 m
ZB7211-R002	500.00 m
ZB7211-R003	1000.00 m

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