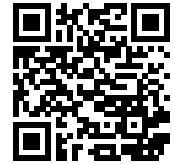
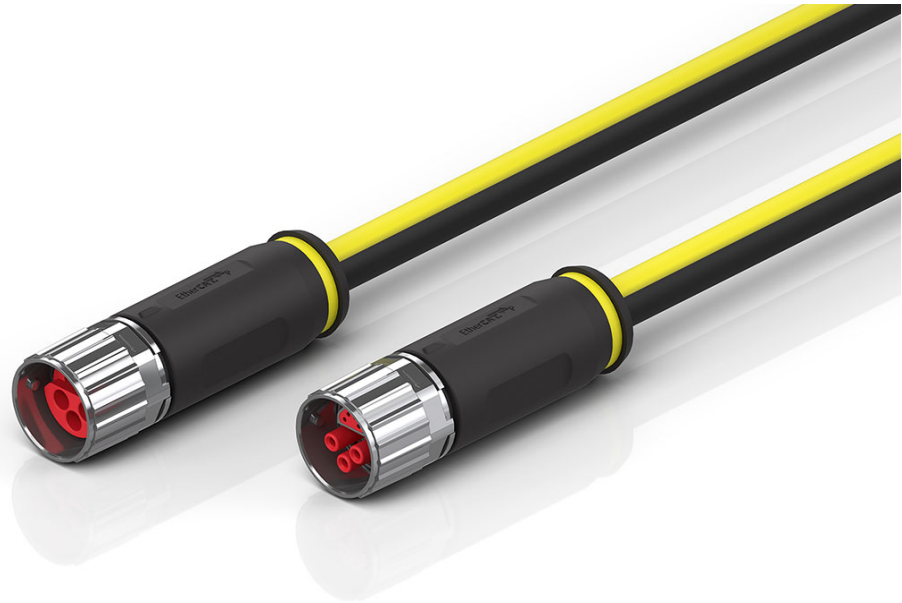


ZK7210-1819-Cxxx | B17, ENP cable, black, PVC, 3 G 2.5 mm² + (1 x 4 x AWG22), fixed installation, key 1 (24 V DC)



B17, plug, straight, male+female, pins 2+PE+4, EtherCAT-coded – B17, plug, straight, female+male, pins 2+PE+4, EtherCAT-coded



Plugs

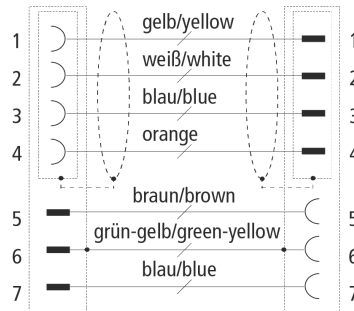
Electrical data	Head A	Head B
Rated voltage (Ethernet)	60 V DC	60 V DC
Rated current (Ethernet)	4 A at 40 °C	4 A at 40 °C
Rated voltage (power)	250 V AC/DC	250 V AC/DC
Rated current (power)	21 A at 60 °C	21 A at 60 °C
Rated impulse voltage (power)	2.5 kV	2.5 kV
Rated impulse voltage (Ethernet)	1.0 kV	1.0 kV
Voltage proof (contact/contact)	1.5 kV (power - Ethernet), 3.31 kV AC (power), 1.0 kV AC (Ethernet)	1.5 kV (power - Ethernet), 3.31 kV AC (power), 1.0 kV AC (Ethernet)
Shielding (Ethernet)	yes	yes
Contact resistance	< 10 mΩ (signal), < 5 mΩ (power)	< 10 mΩ (signal), < 5 mΩ (power)
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data		

Installation size	B17	B17
Connector type	plug	plug
Configuration	straight	straight
Contact type	male+female	female+male
Number of positions (face)	pins 2+PE+4	pins 2+PE+4
Coding	EtherCAT-coded	EtherCAT-coded
Mechanical coding	key 1 (24 V DC)	key 1 (24 V DC)
Wire termination	crimp connection	crimp connection
Mating cycles	≥ 100	≥ 100
Way of locking	bayonet	bayonet
Weight per piece	0.090 kg (0.198 lb)	0.090 kg (0.198 lb)
Body color	black	black
Body material	TPU, UL 94 HB	TPU, UL 94 HB
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni
Seal	NBR, FPM	NBR, FPM
Contact carrier material	PA 6, UL 94 V0	PA 6, UL 94 V0
Contact carrier color (Ethernet)	yellow	yellow
Contact carrier color (power)	red	red
Contact plating	Au over Ni	Au over Ni
Contact material	copper alloy	copper alloy
Environmental data		
Shock resistance	50 g (490 m/s ²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes	50 g (490 m/s ²) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes
Vibration resistance	5 g (50 m/s ²) conforms to IEC 60512-6d, 10 Hz ... 500 Hz; 10 cycles per axis; 6 h full duration	5 g (50 m/s ²) conforms to IEC 60512-6d, 10 Hz ... 500 Hz; 10 cycles per axis; 6 h full duration
RoHS compliant	yes	yes
Ambient temperature (operation)	-30...+80°C, -22...+176°F	-30...+80°C, -22...+176°F
Protection rating	IP65/67 in screwed condition (according to IEC 60529)	IP65/67 in screwed condition (according to IEC 60529)
Pollution level	3/2 (according to IEC 60664-1)	3/2 (according to IEC 60664-1)
Approvals	UL 2237: File E484763	UL 2237: File E484763

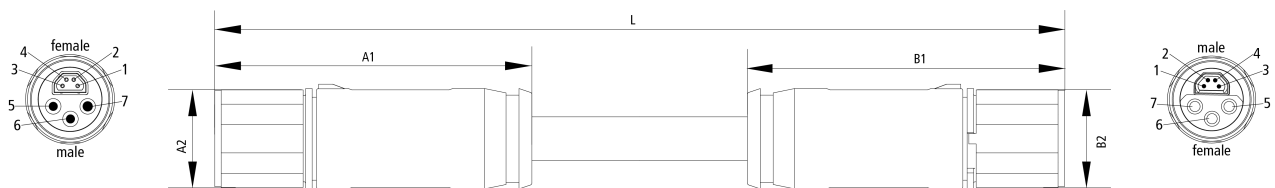
Cable

Electrical data		
Operating voltage	≤ 600 V	
Mutual capacitance wire/wire (Ethernet)	50 ± 15 pF/m at 800 Hz (EN 50289-1-5)	
Insulation resistance	≥ 500 MΩ/km	

Wire resistance (power)	≤ 8.0 Ω/km
Wire resistance (Ethernet)	≤ 58.0 Ω/km (20°C)
Characteristic impedance (Ethernet)	100 Ω ±15 Ω
Transmission characteristics	acc. to EN 50288-2-1 and IEC 61156-5 (Cat5)
Test voltage	Power: 4000 V (wire/wire), (wire/screen) Ethernet: 2000 V (wire/wire), (wire/screen)
Mechanical data	
Cable structure (Ethernet)	star quad
Cross-section (power)	3 x 2.5 mm ² (approx. AWG14)
Cross-section (Ethernet)	1 x 4 x 0.34 mm ² (AWG22)
Outer cable diameter	11.1 mm ± 0.2 mm (0.4370" ± 0.0079")
Min. bending radius, moved	15 x outer cable diameter
Min. bending radius, fixed installation	10 x outer cable diameter
Use	fixed installation
UL-Style	cULus AWM Style 2570 80°C 600V
Jacket color	black
Material jacket	PVC (polyvinyl chloride) V0 acc. to UL94
Wire color code	yellow, orange, white, blue (Ethernet) green/yellow, blue, brown (Power)
Wire insulation material	TPE (thermoplastic elastomer)
Printing on the jacket	XXXXM Beckhoff Automation GmbH & Co. KG-Germany- 3G2.5 + (4xAWG22)/C E63216 AWM 2570 AWM I/II A/B 80°C 600V RoHS MM/JJ
Environmental data	
UV resistance	UV stabilized
Oil resistance	7d/90°C, reference oil IRM 902
Flame-retardant	according to UL 758 (cUL-FT1)
CFC-free	yes
Silicone-free	yes
RoHS compliant	yes
UL	yes, UL E-file number: E63216
Contact assembly	



Dimensions



A1	73.60 mm
A2	23.00 mm
B1	73.60 mm
B2	23.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply:
0 m...3.0 m: + 100 mm | 3.0...10.0 m: ± 100 mm | ≥ 10.0 m: ± 2%
- Illustrations similar
- Further cable length on request. The last three digits of the ordering information is the cable length in decimeters, e.g. ZKxxxx-xxxx-x020 = cable length 2.00 m
- B17 3-pin 1.5 mm² and B17 3 3-pin 2.5 mm² are not pin compatible

CE, UL

CE yes

Ordering information

Length

ZK7210-1819-C010 1.00 m

Further length on request

Accessories

ZS7200-B003

B17 protection cap, plug, plastic, IP67, packaging unit = 10 pieces, including loss protection

ZS7200-B004	B17 protection cap, plug, metal, IP67, packaging unit = 5 pieces, including loss protection
ZS7200-B005	B17 color coding connector/square flange, red, packaging unit = 10 pieces
ZS7200-B006	B17 color coding connector/square flange, yellow, packaging unit = 10 pieces
ZS7200-B007	B17 color coding connector/square flange, blue, packaging unit = 10 pieces
ZS7200-B008	B17 color coding connector/square flange, green, packaging unit = 10 pieces
ZS7200-B015	B17 color coding connector/square flange, orange, packaging unit = 10 pieces
ZS7200-B016	B17 color coding connector/square flange, gray, packaging unit = 10 pieces
ZB8802-0002	assembly tool for B17 connector, AF22
ZB8805-0001	Flange/Panel feed-through for B17 pre-assembled, for fixing the connector, plastic, including screws, washers and lock nuts



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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