ZK7266-3114-Axxx | B17, ENP cable, two cable solution, PUR, 5 G 1.5 mm² + (1 x 4 x AWG26), fixed installation, key 1 (2 x 24 V DC + PE)

B17, plug, straight, female+male, pins 4+PE+4, EtherCAT-coded – M8, plug, straight, male, 4-pin, A-coded – 7/8"-16 UN, socket, straight, female, 5-pin, A-coded



Plugs

Electrical data	Head A	Head B	Head D
Rated voltage	-	50 V AC/60 V DC (according to IEC 61076-2-104)	300 V (according to IEC 60664-1)
Rated voltage (Ethernet)	60 V DC	-	-
Rated current (Ethernet)	4 A at 40°C	-	-
Rated voltage (power)	630 V AC / 850 V DC, 600V AC / DC (UL)	-	-
Rated current (power)	15.5 A at 45°C	-	-
Rated current	-	4 A at 40°C (according to IEC 61076-2-104)	12 A at 40°C (according to IEC 60512-3), 10 A (according to UL2238)
Rated impulse voltage	-	-	2.5 kV
Rated impulse voltage (power)	6.0 kV	-	-
Rated impulse voltage (Ethernet)	1.0 kV	-	-

Voltage proof (contact/contact)	1.5 kV (power - Ethernet), 3.31 kV AC (power), 1.0 kV AC (Ethernet)	-	-
Shielding	-	yes	no
Shielding (Ethernet)	yes	-	-
Contact resistance	< 10 mΩ (signal), < 5 mΩ (power)	-	-
Insulation resistance	≥ 100 MΩ (according to IEC 60512)	≥ 100 GΩ (according to IEC 60512)	≥ 100 MΩ (according to IEC 60512)
Mechanical data			
Installation size	B17	M8	7/8"-16 UN
Connector type	plug	plug	socket
Configuration	straight	straight	straight
Contact type	female+male	male	female
Number of positions (face)	pins 4+PE+4	4-pin	5-pin
Coding	EtherCAT-coded	A-coded	A-coded
Mechanical coding	key 1 (2 x 24 V DC + PE)	-	-
Wire termination	crimp connection	-	-
Recommended torque, nut	-	0.4 Nm	-
Mating cycles	≥ 100	≥ 100	≥ 100 (according to IEC 60512-9a)
Way of locking	bayonet	screw	screw
Weight	0.090 kg (0.1984 lb)	0.028 kg (0.0617 lb)	-
Body color	black	black	black
Body material	TPU, UL 94 HB	TPU, UL94	TPU, UL 94
Coupling nut material	GD-Zn, Ni	GD-Zn, Ni	CuZn, Ni
Seal	NBR, FPM	FPM	FPM
Contact carrier color	-	green	red
Contact carrier material	PA 6, UL 94 V0	PA 6, UL 94 V0	TPU GF, UL 94
Contact carrier color (Ethernet)	yellow	-	-
Contact carrier color (power)	red	-	-
Contact plating	Au over Ni	Ni, Au gal.	Ni, Au gal.
Contact material	copper alloy	CuZn	CuZn
Environmental data			
Special features	-	halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1	halogen-free, flame-resistant as per IEC 60332-1-2, oil-resistant as per DIN EN 60811-2-1
Shock resistance	50 g (490 m/s^2) conforms to IEC 60512-6c, 11 ms; 18 shocks per direction, 3 axes	-	-

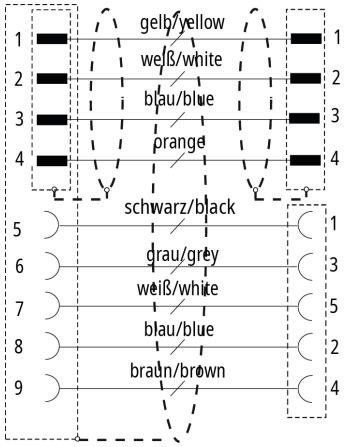
Vibration resistance	5 g (50 m /s²) conforms to IEC 60512-6d, 10 Hz. ... 500 Hz.; 10 cycles per axis; 6 h full duration	-	-
RoHS compliant	yes	yes	yes
Ambient temperature (operation)	-30...+80°C, -22...+176°F	-30...+70°C, -22...+158°F	-40...+85°C, -40...+185°F
Protection rating	IP65/67 in screwed condition (according to IEC 60529)	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)	3/2 (according to IEC 60664-1)
Approvals	UL 2237: File E484763	-	-

Cable

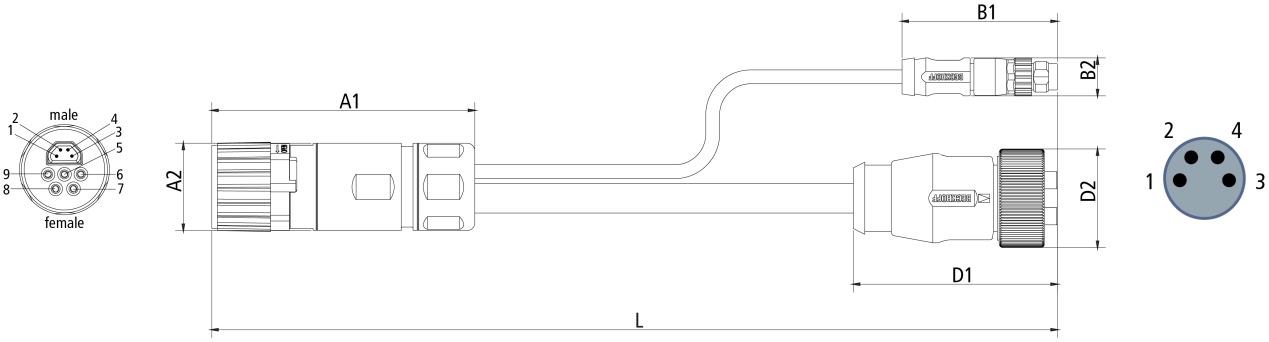
Electrical data	Cable by meter A	Cable by meter B
Rated voltage	≤ 300 V	30 V (according to IEC 61076-2-101)
Attenuation of shielding	-	≥ 50 dB (30...100 MHz)
Insulation resistance	≥ 10 GΩ (according to IEC 60512-2)	≥ 500 MΩ/km
Unbalanced capacitance to ground	-	≤ 2000 pF/km
Mutual capacitance	-	nom. 50 nF/km
Wire resistance (power)	≤ 13.3 Ω/km (DIN EN 50395)	-
Characteristic impedance (Ethernet)	-	100 Ω ±15 Ω
Loop resistance (Ethernet)	-	≤ 260 Ω/km
Unbalanced resistance (Ethernet)	-	2 %
Dielectric strength wire/wire (Ethernet)	-	1 kV AC (50 Hz, 1 min)/1 kV DC (50 Hz)
Dielectric strength wire/shield (Ethernet)	-	1 kV AC (50 Hz, 1 min.)/1 kV DC (50 Hz)
Signal running time (Ethernet)	-	4.8 ns/m
Electrical parameters (Ethernet)	-	based on Cat.5
Test voltage	≥ 3000 V	1000 V, 50 Hz, 1 min.
Mechanical data		
Cable structure (Ethernet)	-	star quad
Conductor construction (power)	84 x 0.15 mm	-
Conductor construction (Ethernet)	-	7-strand
Cross-section	5 G 1.5 mm² (approx. AWG16)	-
Cross-section (Ethernet)	-	1 x 4 x 0.14 mm² (AWG26)
Outer cable diameter	7.8 mm ±0.2 mm (0.3071" ± 0.0079")	3.65 mm ± 0.15 mm (0.1496" ± 0.0059")
Min. bending radius, moved	6 x outer cable diameter	15 x outer cable diameter
Min. bending radius, fixed installation	-	8 x outer cable diameter, 2.5 x outher cable diameter (fixed with single bend)

Weight	112.19 kg/km (75.39 lb/1000 ft)	30 kg/km (20.16 lb/1000 ft)
Conductor material	-	copper bare
Shielding	no	braiding of tinned copper wires
Optical covering factor of shielding (Ethernet)	-	≥ 85 %
Use	drag-chain suitable	fixed installation
Max. acceleration	10 m/s²	-
Max. speed	5 m/s	-
Max. number of cycles	20 million (5 million with 14 x D, v = 5 m/s and a = 15 m/s², min. 1 million with 9.5 x D, a = 1 m/s², travel distance = 1 m)	-
Wall thickness of wire insulation (power)	0.26 mm	-
Jacket color	black	green
Material jacket	PUR (polyurethane)	PUR (polyurethane)
Wire color code	brown, white, black, blue, green/yellow	yellow, orange, white, blue
Wire insulation material	PP (polypropylene)	PO (Polyolefine)
Printing on the jacket	-	00000m Beckhoff Automation GmbH & Co. KG - Germany – Industrial Ethernet / EtherCAT ZB9034 Cat5e AWG26/7 E170315 AWM 20963 AWM I A/B 80°C 30V Fa.No.xxxxx
Printing color	white	black
Environmental data		
Operation temperature range, moved	-25...+80°C, -13...+176°F	-30...+70°C, -22...+158°F
Operation temperature range, fixed installation	-	-40...+80°C, -40...+176°F
UV resistance	-	good
Oil resistance	-	according to DIN EN 60811-404 (7x24 h/90 °C)
Acid, lye and solvent resistance	-	depends on medium, concentration, temperature and duration
Flame-retardant	according to cULus 20549	Horizontal flame test according to UL 1581 part 1090
CFC-free	-	yes
Halogen-free	according to DIN VDE 0472 part 815	according to IEC 60754 or DIN VDE 0472 part 815
Silicone-free	-	yes
UL	yes, UL E-file number: E242293	yes, UL E-file number: E170315

Pin assignment



Dimensions



A1	73.60 mm
A2	23.00 mm
B1	41.00 mm
B2	Ø 10.1 mm
D1	54 mm
D2	26 mm

Mechanical coding

Mechanical keying uses defined keyways that only allow insertion and subsequent locking rotation when correctly aligned. For more information, please refer to the keying guide for correct use.

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
- The design of the pre-assambled cable shown here may differ from the products supplied, despite technically identical specifications.

CE, UL	
CE	yes

Ordering information	Length
ZK7266-3114-A003	0.30 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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