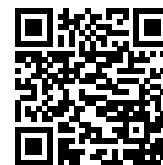
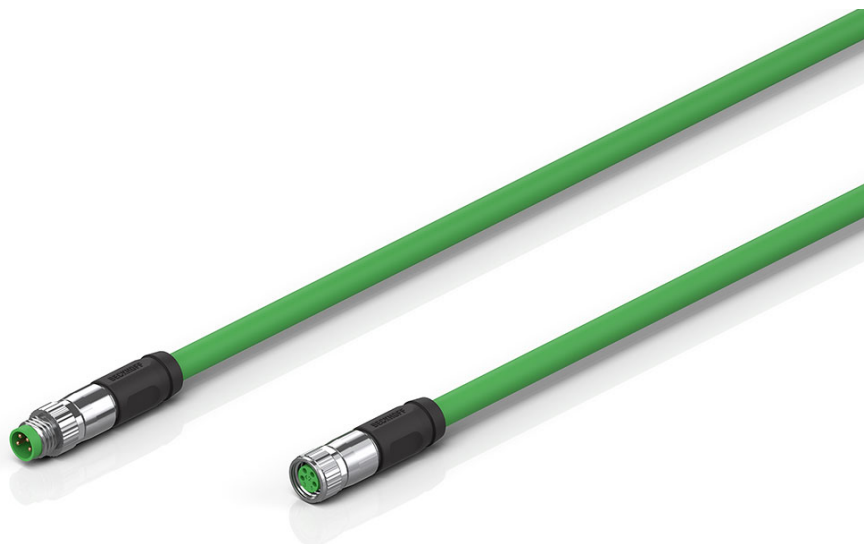


ZK1090-3132-3xxx | EtherCAT cable, PVC, AWG26, fixed installation



M8, plug, straight, male, 4-pin, A-coded – M8, socket, straight, female, 4-pin, A-coded



Plugs

Electrical data	Head A	Head B
Rated voltage	50 V AC/60 V DC (according to IEC 61076-2-104)	50 V AC/60 V DC (according to IEC 61076-2-104)
Rated current	4 A at 40°C (according to IEC 61076-2-104)	4 A at 40°C (according to IEC 61076-2-104)
Shielding	yes	yes
Insulation resistance	$\geq 100 \text{ G}\Omega$ (according to IEC 60512)	$\geq 100 \text{ M}\Omega$ (according to IEC 60512)
Mechanical data		
Installation size	M8	M8
Connector type	plug	socket
Configuration	straight	straight
Contact type	male	female
Number of positions (face)	4-pin	4-pin
Coding	A-coded	A-coded
Recommended torque, nut	0.4 Nm	0.4 Nm

Mating cycles	≥ 100	≥ 100
Way of locking	screw	screw
Weight	0.028 kg (0.0617 lb)	0.028 kg (0.0617 lb)
Body color	black	black
Body material	TPU, UL94	TPU, UL94
Coupling nut material	GD-Zn, Ni	CuZn, Ni
Seal	FPM	FPM
Contact carrier color	green	green
Contact carrier material	PA 6, UL 94 V0	PA 6, UL 94 V0
Contact plating	Ni, Au gal.	Ni, Au gal.
Contact material	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	-
RoHS compliant	yes	yes
Ambient temperature (operation)	-30...+70°C, -22...+158°F	-30...+85°C, -22...+185°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)

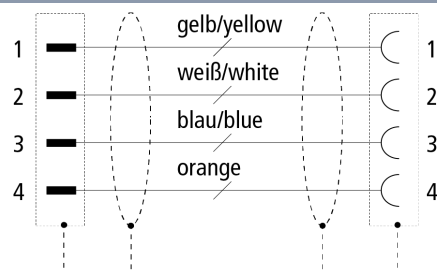
Cable

Electrical data	
Rated voltage	max. 300 V (not for high voltage purposes)
Attenuation of shielding	≥ 43 dB
Insulation resistance	≥ 500 MΩ/km
Unbalanced capacitance to ground	1600 pF/km
Mutual capacitance	52 nF/km
Characteristic impedance (Ethernet)	100 Ω ±5 Ω (100 MHz) (EN 50289-1-11)
Loop resistance (Ethernet)	280 Ω/km
Unbalanced resistance (Ethernet)	2 %
Dielectric strength wire/wire (Ethernet)	2000 V
Dielectric strength wire/shield (Ethernet)	2000 V
Signal running time (Ethernet)	5.3 ns/m
Electrical parameters (Ethernet)	based on Cat.5
Test voltage	≥ 2000 V
Mechanical data	

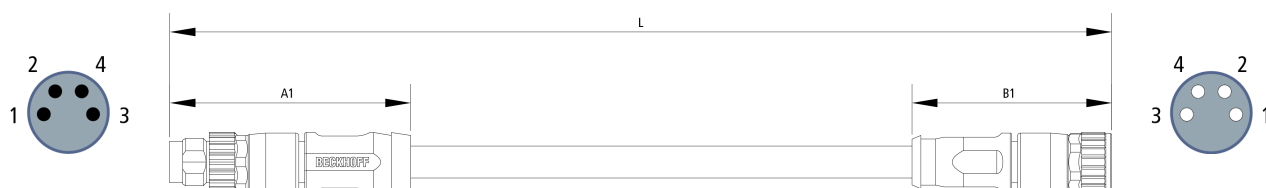
Cable structure (Ethernet)	star quad
Conductor construction (Ethernet)	7 x 0.167
Cross-section (Ethernet)	1 x 4 x 0.14 mm ² (AWG26)
Outer cable diameter	4.9 mm ± 0.2 mm (0.193" ± 0.0079")
Min. bending radius, moved	7 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	33 kg/km (22.2 lb/1000ft)
Conductor material (Ethernet)	bare copper
Shielding	aluminum-clad foil, braiding of tinned copper wires
Optical covering factor of shielding (Ethernet)	≥ 80 %
Use	fixed installation
Wall thickness of wire insulation (Ethernet)	0.25 mm
Jacket color	green
Material jacket	PVC (polyvinyl chloride)
Wire color code	yellow, orange, white, blue
Wire insulation material	PE (polyethylene)
Printing on the jacket	"sequential length in metres" Industrial Ethernet Cat5 flex *E130266 AWM STYLE 2464 80 °C 300 V* ZB9030 "month/year" "internal order number"
Printing color	black
Environmental data	
Operation temperature range, fixed installation	-40...+80°C, -40...+176°F
Flame-retardant	according to IEC 60332-1-2
Halogen-free	no
UL	yes, UL E-file number: E130266

Attenuation								
Max. insertion loss								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	3.2	6.0	9.5	12.1	13.6	17.1	24.8	32.0
[db/100 ft]	1	1.8	2.9	3.7	4.1	5.2	7.6	9.8
Min. near-end crosstalk attenuation								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	65.3	56.3	50.3	47.2	45.8	42.9	38.4	35.3
[db/100 ft]	19.9	17.2	15.3	14.4	14	13.1	11.7	10.8

Pin assignment



Dimensions



A1	41.00 mm
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A2	Ø 10.1 mm
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B1	40.00 mm
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B2	Ø 10.1 mm
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Notes

- Depending on the cable length (L), the following length tolerances apply:
0 m...<0.2 m: ± 10 mm | 0.2...4.0 m: + 40 mm | ≥ 4.0 m: + 1%
- Illustrations similar
- Further cable length on request.

CE, UL

CE	yes
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UL	yes, UL E-file number: E480185
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Ordering information

Length

ZK1090-3132-3003	0.30 m
ZK1090-3132-3010	1.00 m
ZK1090-3132-3020	2.00 m
ZK1090-3132-3030	3.00 m
ZK1090-3132-3040	4.00 m
ZK1090-3132-3050	5.00 m
ZK1090-3132-3100	10.00 m
ZK1090-3132-3120	12.00 m

ZK1090-3132-3150	15.00 m
ZK1090-3132-3200	20.00 m
ZK1090-3132-3250	25.00 m
ZK1090-3132-3300	30.00 m
ZK1090-3132-3400	40.00 m
ZK1090-3132-3500	50.00 m

Further length on request

Accessories	
ZB8801-0000	torque wrench for hexagonal plugs, adjustable
ZB8801-0001	torque cable key, M8/wrench size 9, for ZB8801-0000
ZB8803-0001	Flange/Panel feed-through for M8 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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