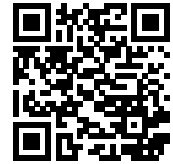
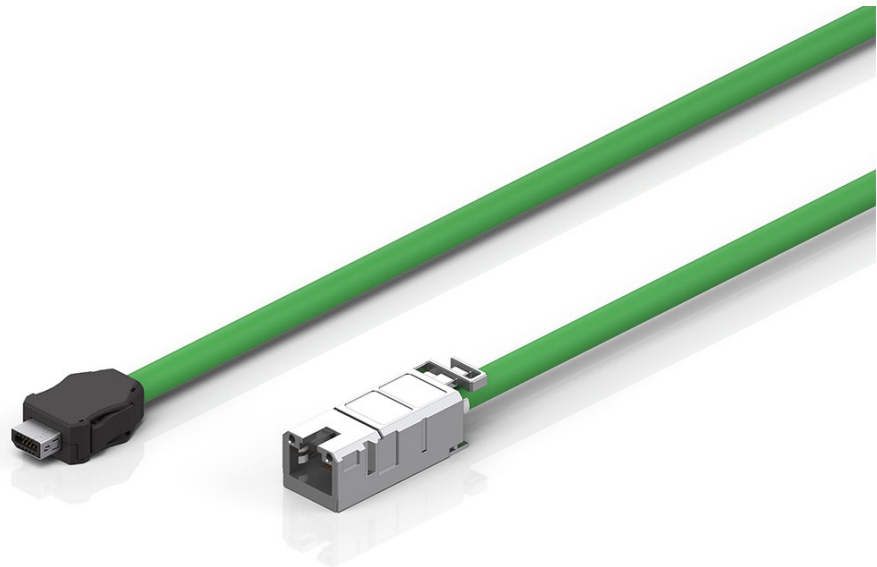


ZK1096-969A-0xxx | Industrial Ethernet/EtherCAT G/G10 cable, Cat.6A, PUR, 4 x 2 x AWG26, fixed installation



ix Industrial™, plug, straight, male, 10-pin, Type A – RJ45, socket, straight, female, 8-pin



Plugs

Electrical data	Head A	Head B
Rated voltage	50 V AC / 60 V DC	50 V AC / 60 V DC
Rated current	1.5 A	-
Shielding	yes	yes
Contact resistance	< 30 mΩ	< 20 mΩ
Insulation resistance	≥ 500 MΩ/km	≥ 500 MΩ/km
Transmission characteristics	-	Cat.6A
Mechanical data		
Installation size	ix Industrial™	RJ45
Connector type	plug	socket
Configuration	straight	straight
Contact type	male	female
Number of positions (face)	10-pin	8-pin

Coding	Type A	-
Wire termination	-	IDC
Mating cycles	≥ 5000	≥ 750
Insertion force	-	≤ 30 N
Body color	black	metal
Body material	Polycarbonate resin	zinc diecast
Contact plating	Au	-
Contact material	copper alloy	CuNi2Si, min. 3...6 μm (120-240 μin.) Sn
Max. wire cross-section	-	AWG28 ... AWG24 (0.2 mm ² ... 0.5 mm ²)
Max. cable outer diameter	-	9 mm
Environmental data		
RoHS compliant	-	yes, acc. to directive 2011/65/EU
Ambient temperature (operation)	-	-40...+70°C, -40...+158°F
Protection rating	IP20	IP20 (according to IEC 60529)
Approvals	UL 1977 ECBT2.E102079, CSA-C22.2 No. 182.3 ECBT8.E102079	-
UL	-	yes, UL 1863: E244889

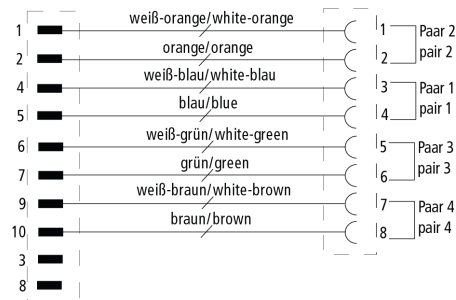
Cable

Electrical data		
Rated voltage	100 V	
Insulation resistance	≥ 500 MΩ * km (DIN EN 50395)	
Unbalanced capacitance to ground	1600 pF/km	
Characteristic impedance	100 Ω ± 5 Ω	
Loop resistance	≤ 290 Ω/km	
Unbalanced resistance	< 3 %	
Dielectric strength wire/wire	700 V	
Dielectric strength wire/shield	700 V	
Signal running time	< 513 ns/100 m	
Electrical parameters (Ethernet)	Cat.7 acc. to EN50288-4-2	
Mechanical data		
Cable structure	S/FTP	
Cable structure (Ethernet)	twisted shielded pair	
Conductor construction (Ethernet)	7-strand	
Cross-section (Ethernet)	4 x 2 x 0.14 mm ² (AWG26)	
Outer cable diameter	6.4 mm ± 0.3mm (0.252" ± 0.0118")	

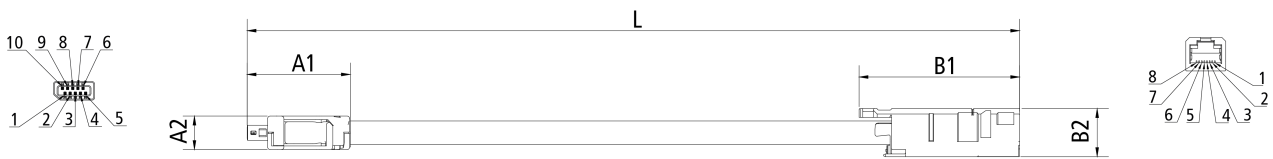
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	48 kg/km (32 lb/1000 ft)
Conductor material (Ethernet)	bare copper
Shielding	braiding of tinned copper wires, metallized plastic fleece for pair shielding
Optical covering factor of shielding (total)	≥ 70 %
Use	fixed installation
Jacket color	green
Material jacket	PUR (polyurethane)
Wire color code	white / blue, white / orange, white / green, white / brown
Wire insulation material	PE (polyethylene)
Printing on the jacket	"length in meters" LEONI L INDUSTRIAL ETHERNET FLEXIBLE PATCHCABLE PUR CAT7 PLUS *AWG26*RU AWM STYLE 20963 80 °C 30 V "year/ internal order number"
Environmental data	
Operation temperature range, moved	-40...+80°C, -40...+176°F
Ambient temperature, transport/storage	-20...+60°C, -4...+140°F
UV resistance	good
Oil resistance	according to IEC 60811-2-1 or according to DIN VDE 0282 part 10
Acid, lye and solvent resistance	depends on medium, concentration, temperature and duration
Special features	Series of ISO/IEC 11801-x; Class F, Series of EN 50173-x; Class F, IEEE802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T, IEEE 802.3: Power over Ethernet PoE; PoE+
LABS-free	yes
Flame-retardant	according to IEC 60332-1-2 UL758 cable flame test
Halogen-free	according to IEC 60754-1
Silicone-free	yes
Approvals	UL file number: E130266, UL-Style AWM 20963

Attenuation								
Max. insertion loss								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	2.9	5.5	8.6	10.8	12.2	15.2	21.8	28.0
[db/100 ft]	0.9	1.7	2.6	3.3	3.7	4.6	6.6	8.5
Min. near-end crosstalk attenuation								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	80	80.0	80.0	80.0	80.0	79.6	75.1	72.4
[db/100 ft]	24.4	24.4	24.4	24.4	24.4	24.3	22.9	22.1

Contact assembly



Dimensions



A1	28.6 mm
A2	17.5 mm
B1	41.00 mm
B2	15.60 mm

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
UL	Yes

Ordering information

Length

ZK1096-969A-0005	0.50 m
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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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