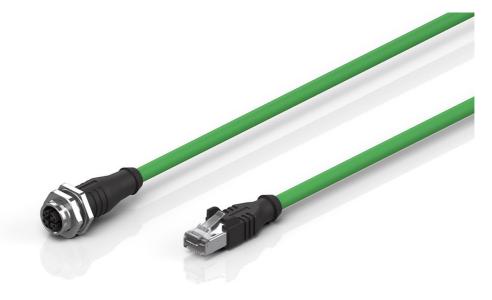
ZK1096-8891-0xxx | Industrial Ethernet/EtherCAT G/G10 cable, Cat.6/Cat.6A, PUR, 4 x 2 x AWG26, fixed installation



M12, flange, angled, female, 8-pin, X-coded – RJ45, plug, straight, male, 8-pin



Plugs

Electrical data	Head A	Head B
Rated voltage	50 V AC / 60 V DC (according to IEC 61076- 2-104)	150 V
Rated current	0.5 A at 40°C	1 A at 40°C
Dielectric strength	-	1000 V AC/min.
Shielding	yes	yes
Contact resistance	< 5 mΩ	< 20 mΩ
Insulation resistance	≥ 100 MΩ	\geq 10 G Ω (according to IEC 60512-2)
Transmission characteristics	Cat.6A	Cat.6A
Mechanical data		
Installation size	M12	RJ45
Connector type	flange	plug
Configuration	angled	straight
Contact type	female	male

Number of positions (face)	8-pin	8-pin
Coding	X-coded	-
Recommended torque, nut	0.6 Nm	
Mating cycles	≥ 100 (according to IEC 60512-9a)	≥ 1000
Way of locking	screw	
Body color	black	black
Body material	TPU	TPE
Coupling nut material	CuZn, Ni	-
Contact carrier color	transparent	
Contact carrier material	PA	PC UL 94 V-0
Contact plating	Au	Ni, Au gal.
Contact material	CuSn (bronze)	CuZn
Environmental data		
RoHS compliant	yes	yes
Ambient temperature (operation)	-30+90°C, -22+194°F	-40+70°C, -40+158°F
Protection rating	IP65/67/68 in screwed condition	IP20
Pollution level	3	1

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 $\Omega \pm 5 \Omega$
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 mm² (AWG26)
Outer cable diameter	6.4 mm ± 0.3mm (0.252" ± 0.0118")

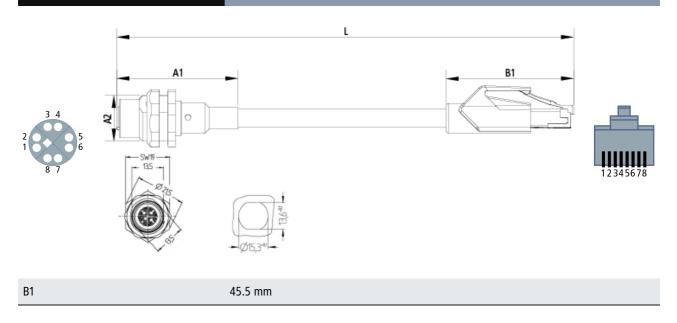
Min. bending radius, moved	10 x outer cable diameter
Min. bending radius, fixed installation	5 x outer cable diameter
Weight	48 kg/km (32 lb/1000 ft)
Conductor material (Ethernet)	bare copper
Shielding	braiding of tinned copper wires, metallized plastic fleece for pair shielding
Optical covering factor 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

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

1	weiß/white	1 Paar 2
2	<pre>c orange</pre>	1 Paar 2 2 pair 2
3	weiβ/white	
4	grün/green	
5	weiß/white	— — 7— Paar 4
6	<pre> braun/brown</pre>	8 pair 4
7	< ι veiβ/white	
8	< I / blau/blue	5 Paar 1 4 pair 1
1	- •! \//	L

Dimensions



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 | \ge 4.0 m: + 1%
- Illustrations similar
- Further cable length on request.

CE, UL		
CE	yes	
Ordering information	Length	
ZK1096-8891-0003	0.30 m	



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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