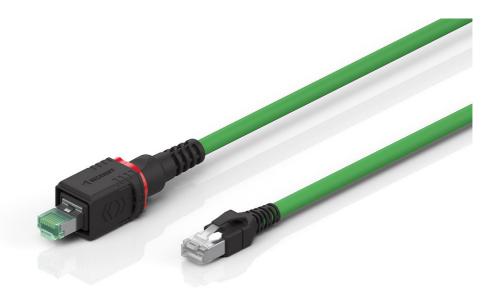
C9900-K800...K810 | Industrial Ethernet/EtherCAT cable, PUR, 4 x 2 x AWG26/19, drag-chain suitable, green, Cat.6A



RJ45, push-pull V4, plug, straight, male, 8-pin – RJ45, plug, straight, male, 8-pin



Plugs

Electrical data	Head A	Head B	
Rated voltage	50 V AC / 60 V DC	24 V	
Rated current	1.3 A at 40°C	1.3 A at 40°C	
Voltage proof (contact/contact)	≥ 1000 V DC	≥ 1000 V DC	
Voltage proof (contact/shield)	≥ 1500 V DC	-	
Shielding	yes	yes	
Mechanical data			
Installation size	RJ45, push-pull V4	RJ45	
Connector type	plug	plug	
Configuration	straight	straight	
Contact type	male	male	
Number of positions (face)	8-pin	8-pin	
Mating cycles	≥ 750	≥ 750	

Way of locking	push-pull	locking pin
Weight per piece	0.049 kg (0.1080 lb)	-
Body color	black	green
Body material	thermoplastic	plastic
Contact carrier color	transparent/blue	transparent/blue
Contact carrier material	UL 94 V-0	PC, UL 94 V-2
Contact material	CuZn, Ni b/Au	Phosphor-Bronze gold plated
Environmental data		
Special features	Cat.6A	Cat.6A
UV resistance	yes	-
RoHS compliant	yes	yes
Ambient temperature (operation)	-40+70°C, -40+158°F	-40+80°C, -40+176°F
Protection rating	IP65/67	IP20
Approvals	UL, CSA	-

Cable

Electrical data	
Rated voltage	125 V
Operating voltage	≤ 125 V (peak value, not for high voltage purposes)
Attenuation of shielding	≥ 60 dB (30250 MHz)
Insulation resistance	\geq 5G Ω * km
Mutual capacitance	nom. 50 nF/km
Characteristic impedance	100 Ω ± 15 Ω (100 MHz)
Loop resistance	≤ 280 Ω/km
Electrical parameters (Ethernet)	Cat.6
Test voltage	700 V, 50 Hz, 1 min. (wire/wire and wire/screen)
Mechanical data	
Cable structure	SF/UTP
Cable structure (Ethernet)	twisted shielded pair
Conductor construction (Ethernet)	19-strand
Cross-section (Ethernet)	4 x 2 x 0.14 mm ² (AWG26)
Outer cable diameter	7.80 ±0.20 mm
Min. bending radius, moved	7.5 x outer cable diameter
Min. bending radius, fixed installation	4 x outer cable diameter
Weight	64 kg/km (43.0 lb/1000 ft)
Conductor material (Ethernet)	copper, tinned



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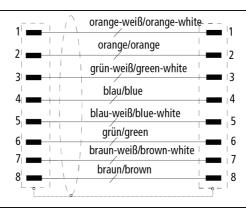
Shielding	aluminum-clad foil, braiding of tinned copper wires
Optical covering factor of shielding (total)	≥ 85 %
Use	drag-chain suitable
Max. acceleration	4 m/s ²
Max. speed	4 m/s
Max. travel distance	4.5 m (horizontal)
Max. number of cycles	1 million
Jacket color	green
Material jacket	PUR (polyurethane)
Wire color code	white-blue / blue, white-orange / orange, white-green / green, white-brown / brown
Wire insulation material	PO (Polyolefine)
Printing on the jacket	
Environmental data	
Operation temperature range, moved	-30+70 °C, -22+158 °F for flexible use. In drag-chain: -5+50 °C, 23+122 °F
Operation temperature range, fixed installation	-40+80 °C, -40+185 °F
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
Flame-retardant	VW1 Flame Test, IEC 60332-1-2
Halogen-free	according to IEC 60754 or DIN VDE 0472 part 815
UL	yes, UL E-file number: E312184
Approvals	c(UL)us CMX 75°C, C(UL)us AWM 21576 80°C 1000V

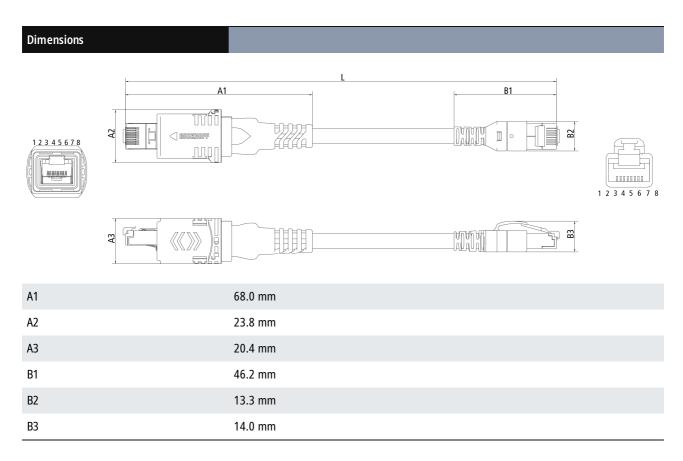
Attenuation								
Max. insertion loss								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	-	5.8	9.0	11.4	12.8	16.1	23.3	29.9
[db/100 ft]	-	1.8	2.7	3.5	3.9	4.9	7.1	9.1
Min. near-end crosstalk attenuation								
Frequency [MHz]	1	4	10	16	20	31.25	62.5	100
[db/100 m]	-	66.3	60.3	57.2	55.8	52.9	48.4	45.3
[db/100 ft]	-	20.2	18.4	17.4	17	16.1	14.8	13.8

Contact assembly



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Notes

- Depending on the cable length (L), the following length tolerances apply: 0.5 m: \pm 20 mm | 1.0 m ... 5.0 m: \pm 40 mm | 7.5 m ... 50.0 m: \pm 1%
- Illustrations similar
- Further cable length on request.

CE, UL	
CE	yes

Ordering information	Length
C9900-K802	3.00 m
C9900-K803	5.00 m



C9900-K800...K810 www.beckhoff.com/C9900-K800...K810

C9900-K805	10.00 m
C9900-K806	15.00 m
C9900-K807	20.00 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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