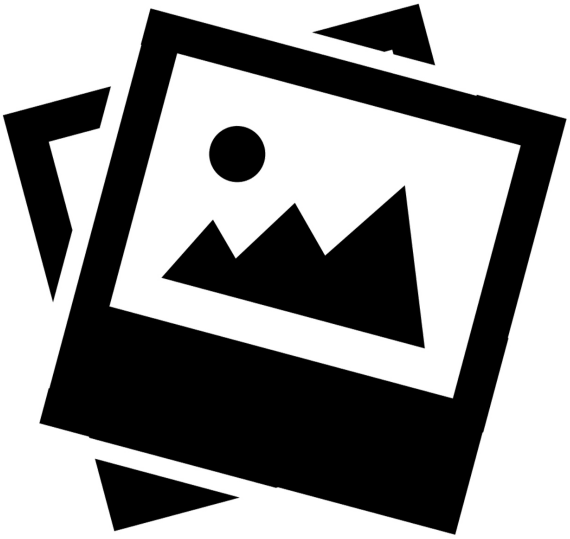


C9900-K713...K219, -K721, -K725, -K729, -K746 | Connecting cable RJ45, Cat.6A, CP-Link4, drag-chain suitable

RJ45, plug, straight, male, 8-pin – RJ45, plug, straight, male, 8-pin

Plugs

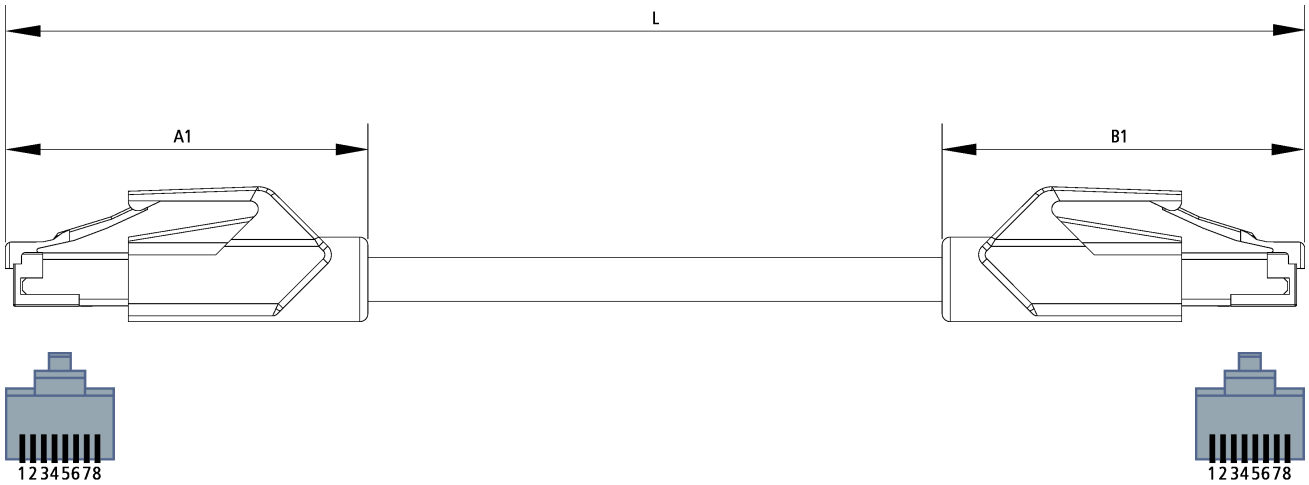
Electrical data	Head A	Head B
Shielding	yes	yes
Transmission characteristics	Cat. 6 Class EA up to 500 MHz, 10/100 Mbit/s, 1/10 Gbit/s	Cat. 6 Class EA up to 500 MHz, 10/100 Mbit/s, 1/10 Gbit/s
Mechanical data		
Installation size	RJ45	RJ45
Connector type	plug	plug
Configuration	straight	straight
Contact type	male	male
Number of positions (face)	8-pin	8-pin
Mating cycles	≥ 750	≥ 750
Body colour	black	black
Contact material	CuZn, Ni b/Au	CuZn, Ni b/Au
Environmental data		
Special features	Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)	Suitable for PoE (IEEE 802.3af) and PoE+ (IEEE 802.3at)
Ambient temperature (operation)	-40…+70 °C, -40…+158 °F	-40…+70 °C, -40…+158 °F
Protection class	IP 20	IP 20

Cable

Electrical data	
Rated voltage	125 V
Insulation resistance	≥ 5GΩ * km
Mutual capacitance	nom. 50 nF/km
Characteristic impedance	100 Ω according to IEC 61156-6
Loop resistance	175.2 Ω/km
Dielectric strength wire/wire	750 V
Dielectric strength wire/shield	750 V
Electrical parameters (Ethernet)	CAT 6A
Mechanical data	
Cable structure	SF/FTP
Cable structure (Ethernet)	twisted shielded pair
Conductor construction (Ethernet)	7-strand
Cross section (Ethernet)	4 x 2 x AWG24 (0.22 mm²)
Min. bending radius, moved	15 x outer cable diameter
Min. bending radius, fixed installation	8 x outer cable diameter
Outer cable diameter	8.9 mm ± 0.2 mm (0.3504" ± 0.0079")
Conductor material (Ethernet)	copper, tinned
Shielding	braiding of tinned copper wires, metallised plastic fleece for pair shielding
Optical covering factor of shielding	≥ 85%
Use	drag-chain suitable
Max. acceleration	3 m/s²
Max. speed	3 m/s
Max. travel distance	5 m
Max. number of cycles	2.5 million
Jacket colour	black
Material jacket	PUR (polyurethane)
Wire colour code	white / blue, white / orange, white / green, white / brown
Wire insulation material	PO (Polyolefine)
Printing on the jacket	BECKHOFF CP-LINK 4 CABLE DRAG CHAIN CAT 6A c(UL)us CMX 75°C E23660 or AWM Style 21576 AWM I/II A/B 80°C 1000V FT2 + production batch
Printing colour	white
Environmental data	
Operation temperature range, moved	-30…+70 °C, -22…+158 °F
Operation temperature range, fixed installation	-40…+80 °C, -40…+176 °F
Oil resistance	according to DIN EN 60811-2-1
Flame-retardant	VW-1 Flame Test UL 1581 section 1080 and IEC 60332-1-2
Halogen-free	DIN VDE 0472 part 815
RoHS compliant	yes acc. to directive 2011/65/EC
Approvals	c(UL)us Typ CMX acc. to UL 444; UL AWM Styles 11117 and 21576 (1000 V, 80°C) acc. to UL 758 cRU AWM I/II A/B (FT2) acc. to CSA C22.2 No. 210-05

Attenuation								
Max. insertion loss								
Frequency [MHz]	**1**	**4**	**10**	**16**	**20**	**31.25**	**62.5**	**100**
[db/100 m]	-	5.7	8.9	11.2	12.6	15.8	22.5	28.7
[db/100 ft]	-	1.7	2.7	3.4	3.8	4.8	6.9	8.7
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

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 | ≥ 4.0 m: + 1 %
- 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

Ordering information	Length
C9900-K725	3.00 m
C9900-K713	5.00 m
C9900-K714	10.00 m
C9900-K729	15.00 m
C9900-K715	20.00 m
C9900-K746	25.00 m
C9900-K716	30.00 m
C9900-K717	40.00 m
C9900-K718	50.00 m
C9900-K719	60.00 m
C9900-K721	80.00 m