C9900-K280...K288,K293 | Network cable for CP72xx, assembled

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

Plugs

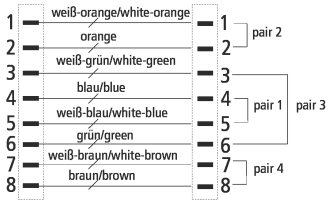
Electrical data	Head A	Head B
Rated current	-	1 A at 50 °C
Voltage proof (contact/contact)	-	≥ 1000 V DC
Voltage proof (contact/shield)	-	≥ 1500 V DC
Shielding	yes	yes
Contact resistance	-	< 20 mΩ
Insulation resistance	-	≥ 500 MΩ
Mechanical data		
Installation size	RJ45 PushPull	RJ45
Connector type	plug	plug
Configuration	straight	straight
Contact type	male	male
Number of positions (face)	8-pin	8-pin
Mating cycles	≥ 750	≥ 750
Insertion force	-	≤ 30 N
Weight per piece	0.049 kg (0.1080 lb)	-
Body colour	black	green
Body material	thermoplastic	-
Contact carrier colour	-	transparent
Contact carrier material	-	PC UL 94 V-0
Contact material	CuZn, Ni b/Au	phosphorus bronze
Max. wire cross section	AWG24...AWG28	AWG24...AWG27
Max. cable outer diameter	4.9...8.6 mm	5.5...7.3 mm
Environmental data		
Special features	Cat.6A	Cat.6A
RoHS compliant	yes	yes
Ambient temperature (operation)	-40…+70 °C, -40…+158 °F	-40…+70 °C, -40…+158 °F
Protection class	IP 65/67	IP 20
Approvals	-	UL

Cable

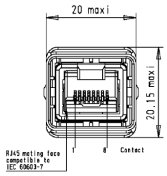
Electrical data	
Rated voltage	125 V
Insulation resistance	≥ 5GΩ * km
Mutual capacitance	nom. 50 nF/km
Characteristic impedance	100 Ω ± 5 Ω
Loop resistance	175.2 Ω/km
Electrical parameters (Ethernet)	CAT 6A
Test voltage	750 V, 50 Hz, 1 min. (wire/wire and wire/screen)
Mechanical data	
Cable structure (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")
Shielding	braiding of tinned copper wires, plastic fleece, plastic-laminated aluminium foil for pair shielding
Optical covering factor of shielding (total)	≥ 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 E236660 oe AWM Style 21576 AWM I/II A/B 80°C 1000V FT2 + coded traceability
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
Approvals	UL, CMX according to UL 444

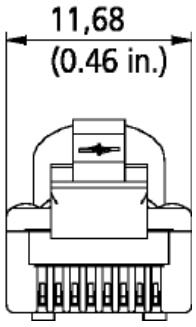
Attenuation								
Max. insertion loss								
Frequency [MHz]	**1**	**4**	**10**	**16**	**20**	**31.25**	**62.5**	**100**
[db/100 m]	-	5.7	8.9	11.2	12.6	15.8	22.5	28.7
[db/100 ft]	-	1.7	2.7	3.4	3.8	4.8	6.9	8.7
Min. near-end crosstalk attenuation								
Frequency [MHz]	**1**	**4**	**10**	**16**	**20**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

Contact assembly



Dimensions





A1	62.00 mm

Notes

- Depending on the cable length (L), the following length tolerances apply:
0 m…3.0 m: ± 30 mm |3.0 m…10.0 m: ± 100 mm | ≥ 10.0 m: ± 2 %
- Illustrations similar
- Further cable length on request

Ordering information	Length
C9900-K280	0.50 m
C9900-K293	1.00 m
C9900-K281	3.00 m
C9900-K282	5.00 m
C9900-K283	10.00 m
C9900-K284	15.00 m
C9900-K285	20.00 m
C9900-K286	30.00 m
C9900-K287	40.00 m
C9900-K288	50.00 m