



宁波卓新通讯接插件有限公司

NINGBO EXCELLENCE COMMUNICATED CONNECTOR CO., LTD

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CAT.6A S/FTP LSZH PATCH CORD

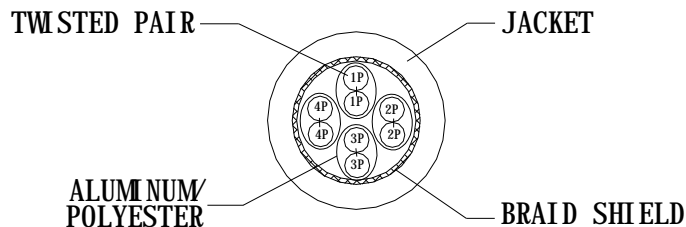
I. Construction

Cable Description			
1	Construction	material	26AWG*4P (7/0.16) bare copper
2	Insulation	material	PE
3	Insulation Dia	Outer Dia (mm)	1.00±0.03
4	Insulation	Average Thickness (mm)	0.19
5	Twister pair	/	4 pair with aluminum polyester
6	Cable Dia	Outer Dia (mm)	6.2±0.2
7	Shield	/	Tinned copper braid laid in close contact with individual foil shields
8	Jacket	/	LSZH
9	Jacket	Average Thickness (mm)	0.5
10	RJ45 plug	spec	8P8C 50U" S-TYPE 94V-2
11	length	Include RJ45 plug	Stranded length+ (0-80mm)

II. wire diagram

A	color	B
1	white/orange	1
2	orange	2
3	white/green	3
4	blue	4
5	white/blue	5
6	green	6
7	white/brown	7
8	brown	8

III Cross Section and Cable Printing



Cable braid cover: 40% minimum coverage tinned copper braid shield 38AWG (0.10T).

Cable Printing

EXW stranded printing or customer provided content



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IV. Characteristic and Application

Characteristic:

Production design: assemble method is mechanical press and glue injection protection

Plastic: High density flame-retardant PVC, conforming to UL 94V-2.

Contact blades: phosphor bronze, with nickel barrier layer 140 μ-inch and gold surface layer 50 μ-inch.

Wire connection type: T568A/T568B

Application:

Telephone and other communication circuits such as voice, data, and audio for on-premise customer systems.

Chemical characteristics:

No harmful substances, fully comply with EU Directive 2011/65/EU (RoHS-2).

Electrical Characteristics:

1	conductor resistance	≤5Ω
2	Insulation resistance	≥10MΩ
3	Insulation resistance by mated connectors, measured between terminations	>500MΩ
4	Insulation resistance by mated connectors	≥AC1000V
5	characteristic impedance	100+6 Ohm @ 1-250MHz
6	contact resistance	20 mOhm max.
7	resistance unbalance	2% max
8	Voltage rating	75 V ac max.
9	Dielectric strength	1000 volts/1 minute min rms
10	ampacity	1.0 Amps max
11	Coupling attenuation	40dB min @30-100 MHz 40-20log (f/100)@100-250 MHz
12	Transfer impedance	N/A
13	Durability	≥1200 matching cycles
14	Cable to plug tensile strength	9 Kgf (90N) min
15	Pulling force	1 Kgf (10N) max
16	Performance test	100% Component tests by FLUKE DTX



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FREQ	Insertion Loss	NEXT	RL	PSNEXT	ACR-N	PS ACR-N	ACR-F	PS ACR-F
	(max.dB)	(min.dB)	(min.dB)	(min.dB)	(min.dB)	(min.dB)	(min.dB)	(min.dB)
MHz	Limit (dB)	Limit (dB)	Limit (dB)	Limit (dB)	Limit (dB)	Limit (dB)	Limit (dB)	Limit (dB)
1	3	65	19	62	62	59	63.3	60.3
4	4.2	63	19	60.5	58.9	56.4	51.2	48.2
8	5.8	58.2	19	55.6	52.4	49.8	45.2	42.2
10	6.5	56.6	19	54	50.1	47.5	43.3	40.3
16	8.2	53.2	18	50.6	45	42.4	39.2	36.2
20	9.2	51.6	17.5	49	42.5	39.8	37.2	34.2
25	10.2	50	17	47.3	39.8	37.1	35.3	32.3
31.25	11.5	48.4	16.5	45.7	36.9	34.2	33.4	30.4
62.5	16.4	43.4	14	40.6	27	24.2	27.3	24.3
100	20.9	39.9	12	37.1	19	16.2	23.3	20.3
200	30.1	34.8	9	31.9	4.7	1.8	17.2	14.2
250	33.9	33.1	8	30.2	-0.8	-3.7	15.3	12.3
300	37.4	31.7	7.2	28.8	-5.6	-8.6	13.7	10.7
400	43.7	28.7	6	25.8	-14.9	-17.9	11.2	8.2
500	49.3	26.1	6	23.2	-23.2	-26.1	9.3	6.3

Environmental Characteristics:

Transportation and storage [°C] : -25°C to +70°C

Installation temperature [°C] : -10°C to +50°C

Operating temperature[°C] : -25°C to +60°C

Minimum Bending Radius: 48 (8*Cable OD)

Elongation:22-26%

Nominal Weight KG/KM: Around 40kg

Industrial standard:

ISO/IEC11801:2011

ANSI/TIA-568.2-D

IEC 60332, IEC 61034, IEC 60754

IEC 61156-6

CENELEC EN 50173, EN 50288