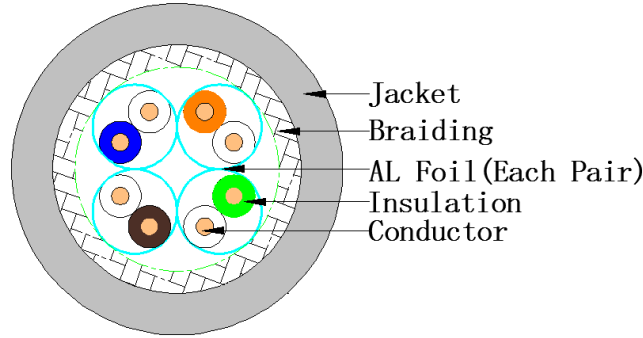


BC-500-SF7-HF

Category 7 (CAT.7) S/FTP PiMF Twist-Pair Installation Cable, LSZH

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Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 2.5GBase-T;
5GBase-T; 10GBase-T, IEEE 802.5: 16 MB; ISDN; FDDI; ATM;
PoE/PoE+/4PPoE

Standards

Flame spread

ISO/IEC 11801; EN 50173-1; EN 50288-4-1
EN 60332-1-2

Physical Properties

Conductor	Bare annealed copper, solid, 0.55BC
Insulation	SFS-PE (Foam-Skin Polyethylene)
Total number of insulated conductors	8, twisted in 4 pairs
Color code	Blue-white, orange-white, green-white, brown-white
Individual pair shielding	Aluminum foil, providing 100% coverage
Overall shielding	Tinned copper braiding wires ($\geq 20\%$ coverage)
Outer jacket	CPR Eca acc. to EN 50575; LSZH
Outer jacket thickness (nominal)	0.50 mm
Outer jacket color	Orange (RAL2008)

Mechanical Properties

Tensile loading	150 N max.
Dynamic bending radius	8x OD mm min.
Static bending radius	4x OD mm min.
Shipping and storage temperature	-20 °C up to +60 °C
Operating temperature	-20 °C up to +50 °C
Installation temperature	0 °C up to +50 °C
Overall diameter Simplex (nominal)	7.5mm $\pm$ 0.3mm

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Electrical Properties

Impedance	100 ± 15 Ohm @ 4-100 MHz; 100 ± 25 Ohm @ 100-600 MHz
Capacitance	45 pF/m nominal @ 1 KHz
Capacitance unbalance (pair-ground)	1.6 pF/m max. @ 1 KHz
Insulation resistance	5 GOhm x km min.
DC resistance	95 Ohm/km max. (2% max. resistance unbalance)
DC loop resistance	190 Ohm/km max. (2% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	CA-Type 1b
Signal propagation delay	450 nS/100 m max.
Propagation delay	10 nS/100 m max.
NVP	78%

Transmission Properties

FREQ.	ATT	NEXT	PS-NEXT	ACR	PS-ACR	EL-FEXT	PS-ELFEXT	RL
MHz	dB	dB	dB	dB	dB	dB	dB	dB
1	2,0	78,0	75,0	76,0	73,0	78,0	75,0	20,0
10	5,9	78,0	75,0	72,1	69,1	74,0	71,0	25,0
100	19,1	72,4	69,4	53,3	50,3	54,0	51,0	20,1
250	31,0	66,5	63,5	35,5	32,5	46,0	43,0	17,3
500	45,3	61,9	58,9	16,6	13,6	40,0	37,0	17,3
600	50,1	60,8	57,8	10,7	7,7	38,4	35,4	17,3
1000	66,9	57,4	54,4	NS	NS	35,3	32,3	13,1
1200	74,4	56,2	53,2	NS	NS	33,8	30,8	12,6