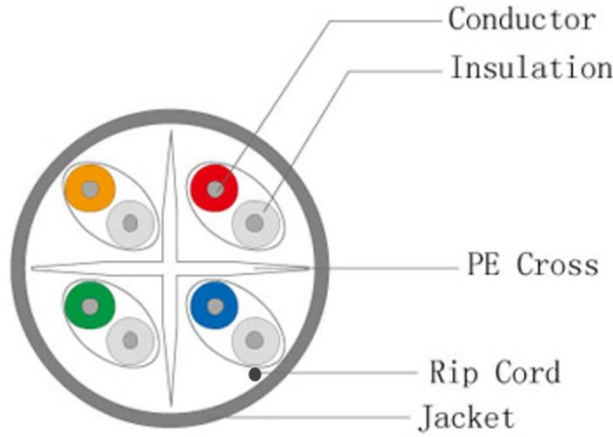


BC-500-UU6-HF-PP

Category 6 (CAT.6) U/UTP 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;
IEEE 802.5: 16 MB; ISDN; FDDI; ATM; PoE/PoE+

Standards

Flame spread

ANSI/TIA 568-2.D; ISO/IEC 11801; EN 50173-1; EN50288-6-1
EN 60332-1-2

Physical Properties

Conductor	Bare annealed copper, solid, 0.53BC
Insulation	HD-PE
Total number of insulated conductors	8, twisted in 4 pairs
Color code	Blue-white, orange-white, green-white, brown-white
Individual pair shielding	None
Overall shielding	None
Outer jacket	CPR Eca acc. to EN 50575; LSZH
Outer jacket thickness (nominal)	0.50 mm
Outer jacket color	Purple (RAL4005)

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
Installations temperature	0 °C up to +50 °C
Overall diameter Simplex (nominal)	6.0mm ± 0.3mm

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Electrical Properties

Impedance	100 ± 5 Ohm
Capacitance	40 pF/m nominal @ 800KHz
Capacitance unbalance (pair-ground)	1.6 pF/m max. @ 1 KHz
Insulation resistance	5 GOhm x km min.
DC resistance	72 Ohm/km max. (2% max. resistance unbalance)
DC loop resistance	147 Ohm/km max. (2% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	CA-Type 3
Signal propagation delay	535 nS/100 m max.
Propagation delay	20 nS/100 m max.
NVP	69%

Transmission Properties

FREQ.	ATT	NEXT	PS-NEXT	ACR	PS-ACR	EL-FEXT	PS-ELFEXT	RL
MHz	dB	dB	dB	dB	dB	dB	dB	dB
10	5.9	59.3	56.3	53.4	50.4	48	45	25
100	19.1	44.3	41.3	25.2	22.2	28	25	20.1
200	27.6	39.3	36.3	11.7	8.7	22	19	18
250	32.85	38.3	35.3	5.45	2.45	20	17	17.3