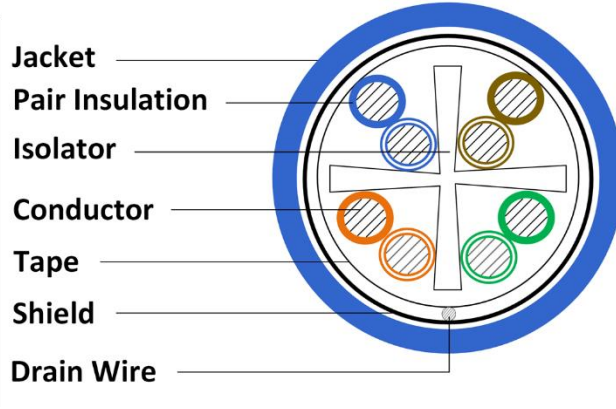


BC-500-FU6-OD

Category 6 (CAT.6) F/UTP Twist-Pair Installation Cable, PE, Outdoor

beek



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

ANSI/TIA 568-2.D; ISO/IEC 11801; EN 50173-1; EN 50288-5-1

Physical Properties

Conductor	Bare annealed copper, solid, 0.55BC
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	100% coverage with Aluminum foil, with drain wire
Outer jacket	PE
Outer jacket thickness (nominal)	0.50 mm
Outer jacket color	Black (RAL9005)

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)	7.0mm ± 0.3mm

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Electrical Properties

Impedance	100 ± 5 Ohm
Capacitance	40 pF/m nominal @ 800KHz
Capacitance unbalance (pair-ground)	1.5 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	RL	ACR	PS ACR	ELFEXT	PS ELFEXT
MHz	dB	dB	dB	dB	dB	dB	dB	dB
1	2.1	74.3	71.3	26	72.2	69.2	68	65
10	5.9	59.3	56.3	25	53.4	50.4	48	45
100	19.1	44.3	41.3	20.1	25.2	22.2	28	25
250	31.1	38.3	35.3	17.3	7.2	4.2	20	17