

PRIME[®]
Structured Cable

CATEGORY 6 UTP CMP/PLENUM BULK CABLES

BC2101005X

Category 6 Bulk Cable

UTP 23AWG

CMP/Plenum

1000 ft.

UL verified

550 MHz

CMP - 9 Colors Available



100% Bare Copper
UL444

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CATEGORY 6 UTP CMP/PLENUM BULK CABLES

Standard Compliances

All proposed Category 6 requirements as per ANSI/TIA/EIA, ISO/IEC, and CENELEC EN Standards, ANSI/TIA-568-C.2 Category 6 ISO/IEC 11801 Class E 2nd Edition CENELEC EN 50173-1 IEC 61156-5, CENELEC EN 50288-6-1 for Horizontal Cable
Flame retardancy is verified according to NFPA 262

Construction

Primaries: Conductor: 23 AWG (MIN.0.546mm) Solid Bare Copper Dual Insulation, Fep On All 4 Pairs
Pair Assembly: 2 Primaries Twisted In Varied Lays
Assembly: 4 Pairs Cabled Together, And 1 Rip Cord (Nylon Fiber)
Jacket: No Lead Plenum Rated Thermoplastic, Nominal Cable OD: Nominal: 6.3 mm
Listing: C(UL)US or C(ETL)US Type CMP UL or ETL Verified to Category 6

Physical Characteristics

Cable Weight: 13.87kg/1000ft (45.47 Kg/km)
Bending Radius: 1.9" (48mm) Min. (8× Cable OD)
Minimum Bend Radius: 8× Cable Diameter For 4-pair Unshielded Twisted-pair (UTP) Horizontal Cable, Under No-load Conditions

Pulling Tension: 25 lbf (110 N) Max
Operating Temp.: -20°C To +60°C (-4°F to +140°F)
Storage Temp.: -20°C To +75°C (-4°F to +167°F)
Installation Temp.: 0°C To +60°C (+32°F to +140°F)

Electrical Properties

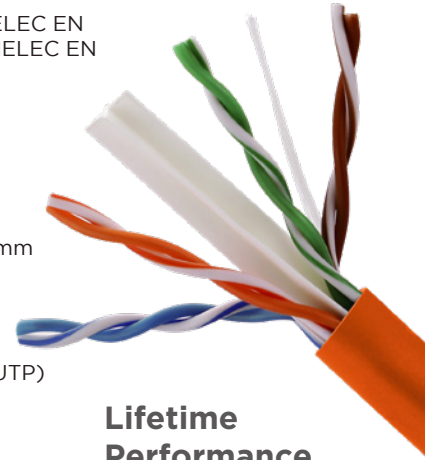
Operating Temp: -70°C ~ +150°C
Voltage: 300V/AC Or V/DC
Capacitance: 5.6nf/100m.Nom
Characteristic Impedance: 100 ± 15% Ohms,1 - 250Mhz
velocity of Propagation: 69% Nom.
DCR: Conductor: 9.38 Ohms/100m.Nom
D-C Resistance Unbalance: 5%, Max.
Propagation Delay: 250mhz 536ns/100m Max.
Delay Skew: 45ns/100m.MAX

Application

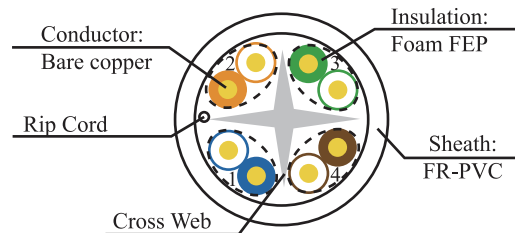
100BASE-TX Gigabit Ethernet, 100BASE-T (IEEE 802.3),
100 VG - AnyLAN(IEEE802.12), Voice, T1, ISDN, 10BASE(IEEE802.3), 155/622 Mbps
ATM, 550 MHz Broadband Video

BC2101005X Electrical Performance

Freq (MHz)	Attenuation (dB)		NEXT (dB/100m)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.8	74.3	87.3	72.3	85.3	72.2	85.5	70.2	83.5	67.8	84.8	64.8	79.8	20.0	29.0
4.0	3.8	3.5	65.3	78.3	63.3	76.3	61.4	74.8	59.4	72.8	55.8	72.8	52.8	67.8	23.0	32.0
10.0	6.0	5.6	59.3	72.3	57.3	70.3	53.3	66.7	51.3	64.7	47.8	64.8	44.8	59.8	25.0	38.0
16.0	7.6	7.1	56.2	69.2	54.2	67.2	48.6	62.1	46.6	60.1	43.7	60.7	40.7	55.7	25.0	34.0
20.0	8.5	7.9	54.8	67.8	52.8	65.8	46.2	59.9	44.2	57.9	41.8	58.8	38.8	53.8	25.0	34.0
31.25	10.8	10.0	51.9	64.9	49.9	62.9	41.1	54.9	39.1	52.9	37.9	54.9	34.9	49.9	23.6	32.0
62.5	15.5	14.4	47.4	60.4	45.4	58.4	31.9	46.0	29.9	44.0	31.9	48.9	28.9	43.9	21.5	32.0
100.0	19.9	18.6	44.3	57.3	42.3	55.3	24.4	38.7	22.4	36.7	27.8	44.8	24.8	39.8	20.1	32.0
160.0	25.8	24.1	41.2	54.2	39.2	52.2	15.5	30.1	13.5	28.1	23.7	40.7	20.0	35.7	18.7	31.0
200.0	29.0	26.8	39.8	52.8	37.8	50.8	10.6	26.0	8.6	24.0	21.8	38.8	18.8	33.8	18.0	29.0
250.0	33.0	30.5	38.3	51.3	36.3	49.3	5.3	20.8	3.3	18.8	19.8	37.0	16.8	31.8	17.3	29.0
300.0	36.4	33.7	37.2	50.0	35.2	48.1	0.8	16.3	-	14.4	18.3	36.0	15.3	30.0	16.8	27.0
450.0	46.0	43.3	34.5	48.5	32.5	45.3	-	5.2	-	2.0	14.8	30.0	11.8	25.0	15.6	24.0
500.0	48.4	46.0	33.8	43.1	31.8	42.7	-	-	-	-	13.8	27.0	10.8	22.0	15.2	20.0
550.0	51.8	49.3	33.2	40.5	31.2	41.4	-	-	-	-	13.0	25.0	10.0	17.7	14.92	18.0



**Lifetime
Performance
Warranty!**



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