



Cat 6 UTP/LDPE Cable

BATT Part Number:	77089
Applications:	These cables may be used for external applications, exposed or in ducts. They include a black PE over sheath for UV protection. Supports Full and Half-Duplex transmission, Digital Video, Analogic Video "Broadband" or "Baseband", 16 Mbps Token Ring, 100 Mbps TP-PMD, 100 BASE – T, 1000 BASE – T (Gigabit Ethernet), 155/622 Mbps ATM, 1.2 Gbps ATM
Conductor:	23 AWG (0.53mm) bare annealed solid Copper
Colour table:	1 White/Blue and Blue 2 White/Orange and Orange 3 White/Green and Green 4 White/Brown and Brown
Pairs:	Twinned pairs with variable lay-lengths
Insulation:	Polyolefin
Ripcord:	Polyester, under the sheath
Inner sheath:	PVC
Over sheath:	PE
DC electrical resistance at 20°C, max:	8.90 Ω /100m (328 ft)
DC resistance unbalance, max:	3.0 Individual pair, %
Mutual capacitance (nominal)	5,60 nF/100m (328 ft) @ 1kHz
Delay skew (nom):	45ns/100m
Installation temperature	0 - 50°C
Service temperature	-20 - 60 °C
Operating voltage	125V
Nominal propagation speed (NPS)	70(% Light Speed):
Characteristic impedance (Ω)	Frequency 1.0 - 100 MHz 100 \pm 15 100 - 250 MHz 100 \pm 22
Return loss (RL)	Frequency 1.0 - 10 MHz 20+5log(f) 10 - 20 MHz 25 20 – 100 MHz 25-7log(f/20)
External diameter max.	7.65 mm
Weight	55 kg/km
Min. bending radius after installation:	4 x External Diameter
Standards:	ANSI/TIA/EIA 568-B.2-1 (Category 6) ISO/IEC 11801 EN50173

Frequency MHz	Max attenuation dB/100m	NEXT dB (min)	PS-NEXT dB (min)	ELFEXT dB (min)	PS-ELFEXT dB (min)	ACR (dB/100) min	PS-ACR dB/100m min	Return loss dB (min)
0.772	1.6	96.4	93.6	90	90.3	94.8	92	-
1	1.8	94.7	91.9	87.9	88	92.9	90.1	37.4
4	3.5	85.5	82.5	76.9	76.1	82	79	35.6
8	5	80.9	77.8	71.4	70.1	75.9	72.8	34.7
10	5.5	79.4	76.3	69.6	68.2	73.9	70.8	34.4
16	7	76.3	73.2	65.9	64.1	69.3	66.2	33.8
25	8.8	73.3	70.1	62.3	60.3	64.5	61.3	33.6
31.25	9.9	71.8	68.6	60.5	58.3	61.9	58.7	33.3
62.5	14.1	67.2	64	55	52.4	53.1	49.9	33
100	18	64.1	60.8	51.3	48.3	46.1	42.8	32.1
155	22.7	61.2	57.8	49.2	46	38.5	35.1	31.5
200	26	59.5	56.1	45.8	42.3	33.5	30.1	30.6
250	29.2	58	54.6	44	40.4	28.8	25.4	30.4