

CAT 6 UTP cable



CAT 6 UTP LSZH



CAT 6 UTP PE (duct grade)



ISO/IEC 11801, EIA/TIA 568C.2, YD/T1019



Application

1 Gigabit per second, Screened 4 twisted pair, high performance cable for new installations with a frequency range up to 250MHz.

Construction

Conductor	Class 1 solid copper conductor
Insulation	HDPE (High Density Polyethylene)
Rip cord	Nylon
Pair	4
Sheath	PVC (Polyvinyl chloride) Grey LSZH (Low smoke zero halogen) Purple PE (Polyethylene Duct Grade) Black
Voltage	300v
Nominal O/D	6.7mm
Min Bending Radius	9 x O/D flexing
Weight	16kg/305box
Temperature Rating	-20°C to +50°C
Core Identification	Pair 1: Blue / White Blue Pair 2: Orange / White Orange Pair 3: Green / White Green Pair 4: Brown / White Brown

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Performance

Frequency MHz	Attenuation 20°C dB/100m	Next dB	PS-Next dB	RL dB	ELFEXT dB	PS-ELFEXT dB	Phase Delay ns
1	2.03	74.3	72.3	20	67.8	64.8	570
4	3.78	65.3	63.3	23	55.8	52.8	552
8	5.32	60.8	58.8	24.5	49.7	46.7	546.73
10	5.95	59.3	57.3	25	47.8	44.8	545.38
16	7.55	56.2	54.2	25	43.7	40.7	543
20	8.47	54.8	52.8	25	41.8	38.8	542.05
25	9.51	53.3	51.3	24.3	39.8	36.8	541.2
31.25	10.67	51.9	49.9	23.6	37.9	34.9	540.44
62.5	15.38	47.7	45.4	21.5	31.9	28.9	538.55
100	19.8	44.3	42.3	20.1	27.8	24.8	537.6
200	28.98	39.8	37.8	18	21.8	18.8	536.54
250	32.85	38.3	36.3	17.3	19.8	16.8	536.27

Electrical Characteristics

Impedance (1-100MHz) ohms	Max Resistance of Conductor at 20°C ohms/km	Max Resistance Unbalance % max
100±15	95	5

The information contained within this data sheet is for guidance only.

Cable and gland sizes are nominal and may vary according to different manufacturer's tolerances.

Every possible effort is made to ensure that the information contained in this data sheet is correct.

However, we reserve the right to change the information or specification at any time in the light of technical developments or revisions.

References to or extracts from British Standards, current IEE regulations or other regulatory bodies should be verified with these organisations.

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