

CAT 5E UTP Cable



Application

A four pair high performance cable that consists of twisted pair conductors, used mainly for data transmission.

Category 5E supports a frequency range of up to 100MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet).

Standards

IEC 11801, TIA 568C.2

Flame Retardant according to BS EN/IEC 60332-1-2

Characteristics

Temperature Rating

Fixed: -20°C to +70°C

Minimum Bending Radius

Fixed: 4 x overall diameter

Flexed: 8 x overall diameter



Construction

Conductor

Class 1 solid copper conductor

Insulation

HDPE (High Density Polyethylene)

Rip Cord

Nylon

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

Grey



Dimensions

NO. OF PAIRS (24 AWG)	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/305m box
4	0.87	4.9	10

Performance Characteristics

FREQUENCY MHz	ATTENUATION dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	PHASE DELAY ns
1	2	65.3	62.3	20	63.8	60.8	570
4	4.1	56.3	53.3	23	51.8	48.8	552
8	5.8	51.8	48.8	24.5	45.7	42.7	546.73
10	6.5	50.3	47.3	25	43.8	40.8	545.38
16	8.2	47.2	44.4	25	39.7	36.7	543
20	9.3	45.8	42.8	25	37.8	34.8	542.05
25	10.4	44.3	41.3	24.3	35.8	32.8	541.2
31.25	11.7	42.9	39.9	23.6	33.9	30.9	540.44
62.5	17	38.4	35.4	21.5	27.9	24.9	538.55
100	22	35.3	32.3	20.1	23.8	20.8	537.6

Electrical Characteristics

IMPEDANCE (1-100MHz) ohms	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	MAXIMUM RESISTANCE UNBALANCE %
100±15	110	5



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