

Cat 5E UTP PE External Cable



Application

A multipair (usually 4 pair) high performance cable that consists of twisted pair conductors, used mainly for data transmission. Category 5E is recommended for all new installations, supports a frequency range of up to 100MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet). Cat 5E UTP PE is suitable for outdoor use.

Standards

ISO/IEC 11801, TIA/EIA 568B

Technical Data

Conductor: Class 1 solid plain copper

Insulation: HDPE (High Density Polyethylene)

Sheath: PE (Polyethylene)

Sheath Colour: Black

Temperature Rating: 70°C

Minimum Bending Radius: Fixed – 4 x overall diameter
Flexing – 8 x overall diameter

Core Identification: 4 Pairs: Blue + White/Blue, Orange + White/Orange, Green + White/Green, Brown + White/Brown

Note: Direct-Burial version also available

Dimensions

Part Number	No. of Pairs	Nominal Thickness of Insulation (mm)	Nominal Diameter (mm)	Nominal Weight (kg/Km)
CAT5EPEUTP-EXT	4	0.885	5.0	10

Performance Characteristics

Frequency MHz	Attenuation dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	Delay ns
1.00	2.0	65.3	62.3	20.0	64.0	61.0	570.00
4.00	4.1	56.3	53.3	23.0	52.0	49.0	552.00
8.00	5.8	51.8	48.8	24.5	45.9	42.9	546.73
10.00	6.5	50.3	47.3	25.0	44.0	41.0	545.38
16.00	8.2	47.2	44.4	25.0	39.9	36.9	543.00

20.00	9.3	45.8	42.8	25.0	38.0	35.0	542.05
25.00	10.4	44.3	41.3	24.3	35.8	33.0	541.20
31.25	11.7	42.9	39.9	23.6	34.1	31.1	540.44
62.50	17.0	38.4	35.4	21.5	28.1	25.1	538.55
100.00	22.0	35.3	32.3	20.1	24.0	21.0	537.60

Electrical Characteristics

Part Number	Impedance (ohms)	Max Conductor Resistance (ohms/km)	Maximum Resistance Unbalance % max
CAT5EPEUTP-EXT	100±15	93.8	5

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc. please note that actual cable dimensions may vary due to manufacturing tolerances.

This is a reprint of the manufacturer's datasheet; please refer to the cable manufacturer for further details. GCA Ltd makes no claims as to the warranty of the information contained in this datasheet.