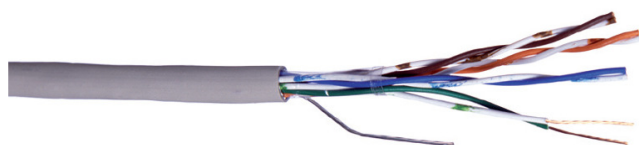


## Cat 5E UTP PVC Cable



### 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).

### Standards

ISO/IEC 11801, TIA/EIA 568B

### Technical Data

**Conductor:** Class 1 solid plain copper

**Insulation:** HDPE (High Density Polyethylene)

**Drain Wire:** Tinned copper

**Sheath:** PVC (Polyvinyl Chloride)

**Sheath Colour:** Grey

**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

### Dimensions

Part Number	No. of Pairs	Nominal Thickness of Insulation (mm)	Nominal Diameter (mm)	Nominal Weight (kg/Km)
CAT5EPVC-G	4	0.875	4.9	9.5

### 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	2.5

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.