

Cat 6 U/UTP PVC



Application

- 10 BASE-T (IEEE 802.3) Ethernet
- 100 BASE-T (IEEE 802.3u) Fast Ethernet
- 100 VG-AnyLAN (IEEE 802.12)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM
- 1000 BASE-T (Gigabit Ethernet) (IEEE 802.3 ab)
- In places where human life, valuable materials and equipments need to be protected.

Cable Construction

- 1 - Conductor : Electrolytic solid copper conductor.
- 2 - Insulation : Solid polyethylene insulation
- 3 - Stranding : Insulations are stranded into pairs.
- 4 - Separator : Pairs are stranded together with star shaped separator.
- 5 - Outer Jacket : UV resistant PVC outer jacket. RAL 7035 (Grey)

Technical Characteristics

Conductor Resistance Ω/km	Insulation Resistance MΩxkm (500 V DC)	Mutual Capacitance nF/km	Capacitance Unbalance %	Propagati- on Velocity %	Operating Voltage V	Test Voltage V	Characteristic Impedance Ω
72	5000	56	%2	%67-69	250	1200	100±%15. 101-250 MHz

Mechanical Characteristics

Bending Radius	Temperature Range Operating
8xD mm	-20°C~+60°C

Standards

Manufacturing Std.	Flame Retardancy Test
ANSI/TIA-568-C.2. IEC-61156-5. IEC-11801	IEC 60332-1-2. VDE 0482-332-1-2. EN 60332-1-2

Electrical Properties

Frequency MHz	Insertion Loss dB/100m (Max.)	Near-end Crosstalk (NEXT) Loss dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) Loss dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m (Min.)	Return Loss (RL) dB (Min.)
0.772	1.8	76	74.0	70	67	-
1	2	74.3	72.3	67.8	64.8	20.0
4	3.8	65.3	63.3	55.8	52.8	23.0
8	5.3	60.8	58.8	49.7	46.7	24.5
10	6	59.3	57.3	47.8	44.8	25
16	7.6	56.2	54.2	43.7	40.7	25
20	8.5	54.8	52.8	41.8	38.8	24.3
25	9.5	53.3	51.3	39.8	36.8	23.6
31.25	10.7	51.9	49.9	37.9	34.9	21.5
62.5	15.4	47.4	45.4	31.9	28.9	20.1
100	19.8	44.3	42.3	27.8	24.8	18
200	29	39.8	37.8	21.8	18.8	17.3
250	32.8	38.3	36.3	19.8	16.8	16.8

Cat 6 U/UTP 23 AWG PVC

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.416.2.1.2.00570.0004	4	0.57	6.4	19.9	48	100/500/1000