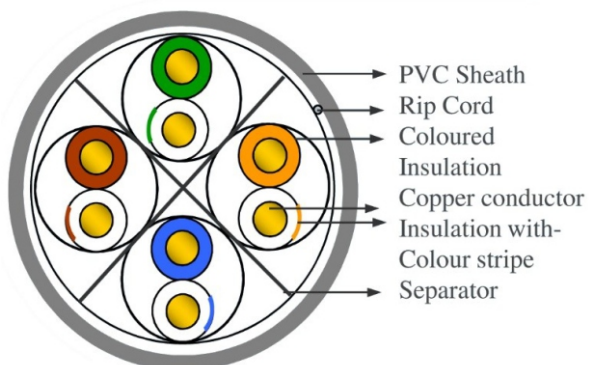


CAT6 UTP FR-PVC Cable



Features

- Enhanced performance cable for transmission of high speed data
- Digital and analogue voice and video (RGB) signals on LANs.
- Supports Gigabit Ethernet (1000 baseT) standard.
- Operates at bandwidth of 250MHz. Tested up to 600MHz
- Supports PoE Applications
- Requirements of ANSI/TIA-568.2-D , ISO/IEC 11801
- RoHS Complied

Specifications

Electrical Performance

Conductor Resistance	<9.38 Ohm /100m
Mutual Capacitance	< 5.6nF/100m
Resistance Unbalance	5% Max
Capacitance Unbalance	330pF/100m
Propagation delay	535ns/100m @ 250MHz
Characteristic Impedance	100±15Ω @ 1-250 MHz
Insulation resistance	500 MΩ Minimum
Voltage Rating	72 Vdc max
Nominal velocity of propagation (NVP)	69%
Dielectric Strength	2.5 KV DC for 2 sec
Delay Skew	< 45nS



CAT6 UTP FR-PVC Cable

Conductor	23 AWG Solid bare Copper
Insulation	High Density Polyethylene
	Solid Diameter: 0.90 +/-0.02mm Nom
Pairs	2 Insulated conductors twisted together
Sheath	FR-PVC
Thickness	0.5 mm(Nom)
RIP Cord	Yes
Cable Diameter	5.8 +/-0.2 mm

Transmission Characteristics Per 90m

Frequency (MHZ)	Insertion Loss Max.(dB)	NEXT (dB) Min.	ACR-N (dB) Min.	RL (dB) Min.	PS NEXT (dB) Min.	PS ACR-N (dB) Min.	ACR-F (dB) Min.	PS ACR-F (dB) Min.
1	1.9	65	62	19.1	62	59	64.2	61.2
4	3.5	64.1	60.6	21	61.8	58.3	52.1	49.1
8	5	59.4	54.4	21	57	52.1	46.1	43.1
10	5.5	57.8	52.3	21	55.5	49.9	44.2	41.2
16	7	54.6	47.6	20	52.2	45.2	40.1	37.1
20	7.9	53.1	45.2	19.5	50.7	42.8	38.2	35.2
25	8.9	51.5	42.7	19	49.1	40.2	36.2	33.2
31.25	10	50	40	18.5	47.5	37.6	34.3	31.3
62.5	14.4	45.1	30.8	16	42.7	28.3	28.3	25.3
100	18.6	41.8	23.3	14	39.3	20.7	24.2	21.2
200	27.4	36.9	9.6	11	34.3	7	18.2	15.2
250	31.1	35.3	4.2	10	32.7	1.6	16.2	13.2

Mechanical Properties

Bending Radius(min.): Installation	<4 X Cable Diameter at -20°C ±1°C
Bending Radius (min.): Operation	4 X Cable Diameter at -20°C ±1°C
Pulling Force	11.5Kg
Temperature Range	
Operating temperature	-20°to +70°C
Storage temperature	0°to +60°C
Installation temperature	0°to +50°C

Flame Rating : CM

Available Cable Color : Grey –RAL 7035

Packing : Available in Reels in Box of guaranteed 305m Length

Ordering Information

Number	Description
GC6CAUT3GFR3X	Genius Cat 6 UTP 23AWG LAN cable FR-PVC 305 mtr Gray