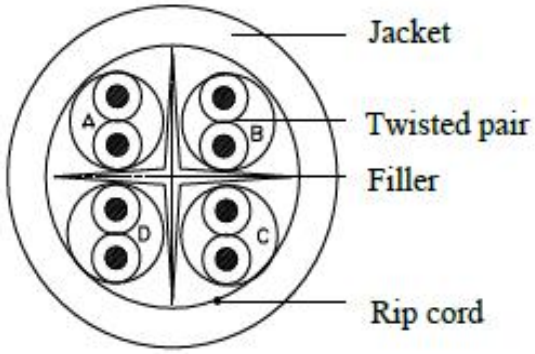
4Pairs Cat6 UTP Cable Specification

2X2X0.57

Cross Section



Marking

Per request

Description

Rated Temperature (°C)	75
Product Standard Certification	
Application	
Horizontal Wiring in LAN	
Reference Standard	
UL Subject 444,EIA/TIA568 & ISO/IEC 11801	

Construction

Conductor	**Solid Bare Copper**
AWG	23
Conductor Dia. (±0.05mmmm)	**0.57**
Insulation	**PE**
Average Thickness(mm)	0.205
Min. Point Thickness(mm)	0.200
Insulation Dia.(±0.01mm)	**0.98**
Twisted Pair Dia.(±0.02mm)	2.02
Filler	PE
Assembly Dia.(±0.2mm)	4.8
Jacket	**PVC**
Average Thickness(mm)	0.55
Min. Point Thickness(mm)	0.5
Outer Dia.(±0.1mm)	**6.00**
Rip Cord	Nylon

Color

Insulation colors are:

Blue,White/Blue
Orange,White/Orange
Green,White/Green
Brown,White/Brown

Jacket colors:

Per request

Performance

Electrical Characteristics:

Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)
1	20.0	2.0	65.3
4	23.0	4.1	56.3
8	24.5	5.8	51.8
16	26.0	8.2	47.3
20	26.5	9.3	45.8
62.5	25.0	17.0	38.4
100	25.0	22.0	35.3
200	18.0	32.4	30.8
250	17.3	36.9	29.3

Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	PSELFEXT Min (dB/100m)	Delay Max (ns/100m)
1	62.3	63.8	60.8	570.0
4	53.3	51.7	48.7	552.0
8	48.8	45.7	42.7	546.7
16	44.3	39.7	36.7	543.0
20	42.8	37.7	34.7	542.0
62.5	35.4	27.8	24.8	538.6
100	32.3	23.8	20.8	537.6
200	27.8	17.7	14.7	536.5
250	26.3	15.8	12.8	536.3

1.0-100.0MHz Impedance (ohms)	100 ± 15
1.0-100.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	72.2
Resistance Unbalance (%)	<=5

Mechanical Characteristics:

Test Object		Jacket
Test Material		PVC
Before Aging	Tensile Strength (Mpa)	>=13.8
	Elongation (%)	>=100
Aging Condition (°Cxhrs)		100x168
After Aging	Tensile Strength (Mpa)	>=85% of unaged
	Elongation (%)	>=50% of unaged
Cold Bend(-20±2°Cx4hrs)		No crack