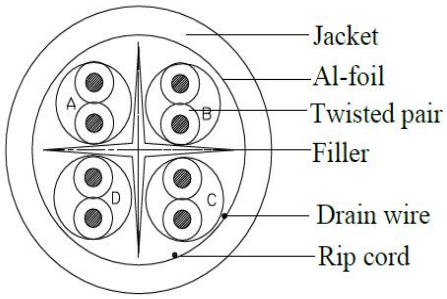
FTP CAT6-4P Cable Specification

4X2X0.57 DATE:Oct 10,2014

Cross Section



Marking

Per request

Description

Rated Temperature (°C)	75
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)	0.225
Min. Point Thickness(mm)	0.207
Insulation Dia.(±0.01mm)	**1.02**
Twisted Pair Dia.(±0.02mm)	2.04
Filler	PE
PE-Tape(mm)	Yes
Drain wire (Solid Tinned Copper) Dia.(±0.003mm)	0.40
Al Foil Shield(mm)	Yes
PE-Tape(mm)	Yes
Assembly Dia.(±0.2mm)	6.2
Jacket	**LSOH/PVC**
Average Thickness(mm)	0.60
Min. Point Thickness(mm)	0.55
Outer Dia.(±0.1mm)	**7.30**
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	2.1	74.3
4	23.0	3.8	65.3
8	24.5	5.3	60.8
16	25.0	7.5	56.2
20	25.0	8.4	54.8
62.5	21.5	15.0	45.4
100	20.1	19.1	44.3
200	18.0	27.6	39.8
250	17.3	31.1	38.3
300	16.8	34.3	37.1
400	15.9	40.1	35.3
500	15.2	45.3	33.8

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
300	25.2	14.2	11.2	536.1
400	23.3	11.7	8.7	535.8
500	21.8	9.8	6.8	535.6

1.0-500.0MHz Impedance (ohms)	100 ± 15
1.0-500.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	3300
Max. Conductor DC Resistance 20°C (ohms/km)	66.8
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