

Cat6A 23AWG 4Pairs UTP Cable

Version B
Date: Mar., 22, 2012

Construction

Conductor	Solid Bare Copper
Size(AWG)	23
Conductor Diameter (mm)	0.585±0.005
Insulation	PE
Average Thickness(mm)	0.218
Minimun Thickness(mm)	0.190
Insulation Diameter (mm)	1.02±0.01
Twisted Pair Diameter(mm)	2.04±0.02
Separator	PVC
Assembly Diameter(mm)	5.10±0.20
Jacket	PVC
Average Thickness(mm)	0.55
Minimun Thickness(mm)	0.50
Outer Diameter(mm)	7.60±0.10
Rip Cord	Nylon

Electrical Characteristics

Frequency (MHz)	Return loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)
1	20.0	2.0	78.3
4	24.2	3.7	69.3
8	26.3	5.2	64.8
10	27.0	5.9	63.3
16	27.0	7.4	60.2
20	27.0	8.3	58.8
25	26.3	9.3	57.3
31.25	25.6	10.4	55.9
62.5	23.5	14.9	51.4
100	22.1	19.0	48.3
200	20.0	27.5	43.8
300	18.8	34.2	41.1
400	17.9	40.0	39.3
500	17.5	45.3	37.8

Color Code

Insulation :
A:Blue,White/Blue
B:Orange,White/Orange
C:Green,White/Green
D:Brown,White/Brown

Jacket: Blue
Item No.: BK-C6ASL-4BL

Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min (dB/100m)	Delay Max (ns/100m)
1	76.3	71.8	570.0
4	67.3	59.8	552.0
8	62.8	53.7	546.7
10	61.3	51.8	545.4
16	58.2	47.7	543.0
20	56.8	45.8	542.0
25	55.3	43.8	541.2
31.25	53.9	41.9	540.4
62.5	49.4	35.9	538.6
100	46.3	31.8	538.0
200	41.8	25.8	537
300	39.3	22.3	536
400	37.3	19.8	536
500	35.8	17.8	536

Marking on sheath

CATEGORY 6A TIA/EIA 568B.2-1 4PR 23AWG
UTP CMR/FT4 C(ETL)US RoHS xxxFT

Packaging

1000 ft/spool

1.0-550.0MHz Impedance (ohms)	100 ± 15
1.0-550.0MHz 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

Material	PVC
Before Tensile Strength (Mpa)	>=13.8
Aging Elongation (%)	>=100
Aging Condition (°C x hrs)	100x168
After Tensile Strength (Mpa)	>=85% of unaged
Aging Elongation (%)	>=50% of unaged

Environmental Characteristics

Temperature Rate (°C)	75
Flammability Test	CMR/FT4
Meet Standards	ETL, C(ETL), RoHS

Cross Section

