



CAT 6 UTP 4 PAIRS

RATED TEMPERATURE 75°C

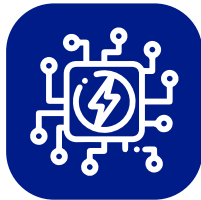
MAX VOLTAGE 36V

APPLICATION

HORIZONTAL WIRING IN LAN

REFERENCE STANDARD

UL SUBJECT 444,EIA/TIA568 & ISO/IEC 11801



Construction & Material:

	Item	Unit	Specification
Conductor	Product	-	CA6-UTP-XX
	Size	AWG	23
	Material	-	Solid Bare Copper Wire
	Diameter	mm	0.54 ± 0.05
Insulation	Material	-	PE
	Min.thickness	mm	0.193
	Avg. thickness	mm	0.210
	Diameter	mm	0.96 ± 0.01
Twisting	Color	-	Blue x White/Blue Orange x White/Orange Green x White/Green Brown x White/Brown
	Material	-	PE
Ripcord	Ripcord	-	Nylon
Jacket	Material	-	PVC
	Min. thickness	mm	0.55
	Avg. thickness	mm	0.60
	Overall Diameter	mm	5.90 t 0.1
	Color	-	Blue, Gray, Red, Yellow

Performance:

	Frequency (MHz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	NEXT (Min dB)	
Electrical Characteristics	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	
	300	16.8	41.0	28.2	
	350	16.3	44.9	27.2	
	400	15.9	43.0	35.2	
	550	14.9	51.8	33.2	
	Frequency (MHz)	PS NEXT (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
	350	24.2	12.9	9.9	535.9
400	33.3	12.8	9.5	535.8	
550	31.2	12.5	9.2	535.5	

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

Mechanical Characteristics

Test Object	Jacket		
Test Material	PVC		
Before Aging	Tensile Strength (Mpa)	>= 13.8	
	Elongation (%)	>= 100	
Aging Condition (°Cxhrs)	100 x 168		
After Aging	Tensile Strength (Mpa)	>= 85% of unaged	
	Elongation (%)	>= 50% of unaged	
Cold Bend (-20 ± 2°Cx4hrs)	No crack		