

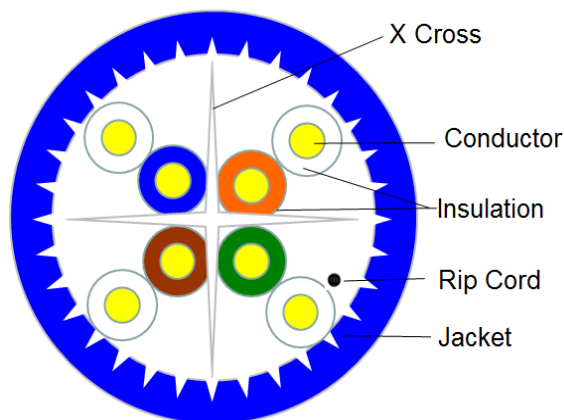
**CATEGORY 6A CABLE, 4 PAIR, UTP, UL CMR**

**Description:**

CAT6A UTP- 10GBASE-T, 600 MHz 23AWG SOLID BC 4PR,  
UTP, ANSI/TIA 568.2-D, ISO/IEC 11801, UL CMR, Class Ea  
PVC JKT - 1000FT SPOOL

**Part Number: Jacket Color:**

CAT6A	Blue
CAT6A-BK	Black
CAT6A-GN	Green
CAT6A-OR	Orange
CAT6A-PK	Pink
CAT6A-RD	Red
CAT6A-WT	White
CAT6A-YL	Yellow



**Regulatory**

UL 444, ANSI/TIA 568.2-D and ISO/IEC 11801  
Type (UL) CMR or c(UL) FT4  
EU RoHS 2011/65 EU Compliant  
IEE 802.3bt TYPE 1,2,3

**Application: Lan Cable**

**Construction Characteristics:**

Conductor	Material	Solid Bare Copper	
	Size	23AWG X 4P	
	Construction	1/0.575+/-0.005mm	
Insulation	Material	HDPE	
	Min. Thickness	0.20mm	
	AVG. Thickness	0.21mm	
	Diameter	1.02+/-0.05mm	
	Colors		White/Blue
			White/Orange
		White/Green	
Material	PVC		
Separator	Spline	Yes	
Jacket	Min. Thickness	0.70mm	
	AVG. Thickness	0.80mm	
	Diameter	6.8+/-0.20mm	
	Rip Cord	Nylon	
	Color	Per request	
Bend radius		Min 20D/140mm	

**Electrical & Physical Characteristics:**

Operating Temperature Range		- 20°C + 75°C	
Conductor Resistance		Max 72.2ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Spark Test		5.0KV	
Insulation	Unaged	Tensile Strength	12.3Mpa
		Elongation	150%
	Aged	Tensile Strength	9.8Mpa(100°C 168h)
		Elongation	100%(100°C 168h)
Jacket	Unaged	Tensile Strength	13.8 Mpa
		Elongation	100%
	Aged	Tensile Strength	11.7Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
Rated Voltage		Max 300Volts	
DC Resisitance Unbalance		Max 5%	
Pair-to-Ground Capacitance Unbalance		Max 3300pF/km	
Characteristic Impedance		100+/-15OHM	
Nominal Velocity of Propagation(%)		67~69	
Propagation Delay		Max 536ns/100m	
Delay Skew		Max 40ns/100m	

**Marking:**

STRUCTURED CABLE PRODUCTS --- CAT6A --- ENHANCED 10GBASE-T 600MHZ UTP ANSI/TIA 568.2-D  
ISO/IEC 11801 CLASS EA E198134 SCP3 (UL) C(UL) CMR 4PR 23AWG SOL BC - PVC JKT FT4  
75C EU RoHS EC ZONE/DEVICE A B C D E O 1 2 3 4 5 6 7 8 9 \*\*\*FEET

Approx. Wight(kg)	Approx. Dimension(mm)	Package	Packages per pallet
17.4KGS/38.36 LBS	360X240X160	1000FT/305M Spool	27/36

### Performance-1

ITEM Frequency	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	2.1	1.9	74.3	80.3	72.3	76.6	72.3	78.4
4	3.8	3.7	65.3	75.6	63.3	74.2	61.5	71.9
8	5.3	5.1	60.8	66	58.8	65.1	55.5	60.9
10	5.9	5.8	59.3	67.6	57.3	65.9	53.3	61.8
16	7.5	7.4	56.2	70.8	54.2	67.2	48.6	63.4
20	8.4	8.2	54.8	71.9	52.8	69.1	46.3	63.7
25	9.4	9.1	53.3	62.3	51.3	60.8	43.8	53.2
31.25	10.5	9.9	51.9	68.7	49.9	67.1	41.2	58.8
62.5	15	15	47.4	59.6	45.4	58.3	32	44.6
100	19.1	18.8	44.3	60	42.3	58	24.5	41.2
200	27.6	27.4	39.8	57.5	37.8	56	10.8	30.1
250	31.1	29.4	38.3	55.8	36.3	54.1	5.5	26.4
300	34.3	33.3	37.1	54.2	35.1	53.4	0.7	20.9
400	43	38.6	35.3	53.8	33.3	52.1	---	---
500	45.3	43.9	33.8	51	31.8	49.3	---	---

### Performance-2

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	Standard	SCP
1	20	23.6	68	75.6	65	73.3	70.3	74.7
4	23	23.9	56	61.3	53	60.1	59.5	70.5
8	24.5	30	49.9	55.7	46.9	54.8	53.5	60
10	25	28.5	48	55.2	45	53.2	51.3	60.1
16	25	28.2	43.9	49.7	40.9	48.1	46.6	59.8
20	25	27.8	42	48.1	39	46.2	44.3	60.9
25	24.3	27.5	40	45.9	37	45	41.8	51.7
31.25	23.6	24.9	38.1	42.7	35.1	41.7	39.2	57.2
62.5	21.5	24.1	32.1	39.4	29.1	37.4	30	43.3
100	20.1	23.5	28	35	25	33.2	22.5	39.2
200	18	23.2	22	32.8	19	30.2	8.8	28.6
250	17.3	21.5	20	30.7	17	27.7	3.5	24.7
300	16.8	20.8	18.5	26.5	15.5	25.4	---	---
400	15.9	18.9	15.8	23.4	12.8	22.1	---	---
500	15.2	18.6	14	19.5	11	18.7	---	---