

**SCP PART#: CAT6A-OR**

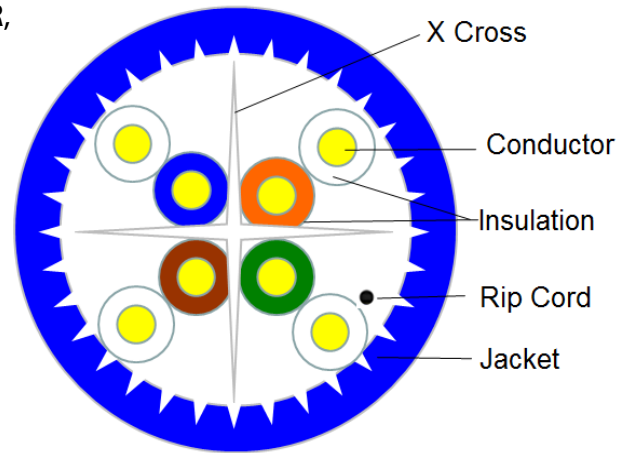
Rev04/20

**Description:**

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

**Regulatory**

UL 444, ANSI/TIA 568.2-D and ISO/IEC 11801  
 Type (UL) CMR or c(UL) FT4 Class Ea  
 EU RoHS 2011/65 EU Compliant



**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 White/Brown
Jacket	Material	PVC
	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 Strenght	12.3Mpa
		Elongation	150%
	Aged	Tensile Strenght	9.8Mpa(100°C 168h)
		Elongation	100%(100°C 168h)
Jacket	Unaged	Tensile Strenght	13.8 Mpa
		Elongation	100%
	Aged	Tensile Strenght	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 0 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	---	---