

**SCP PART#: CAT6SHP-XX**

Rev11/21

**Description:**

CAT6 SHIELDED F/UTP PLENUM- ENHANCED  
550MHz 23AWG SOLID BC 4PR, F/UTP,  
ANSI/TIA 568-2.D, ISO/IEC 11801 CLASS E, ETL  
CMP, 1000 FT/305M SPOOL

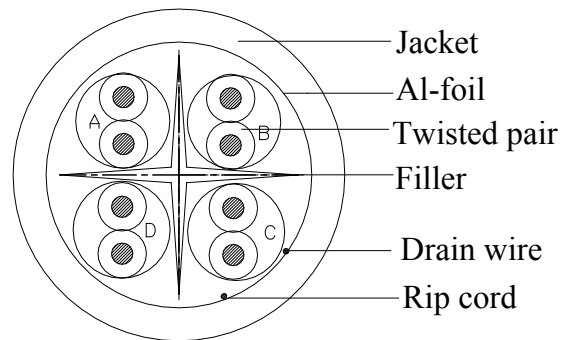
Part Number:	Jacket Color:
CAT6SHP-BL	Blue
CAT6SHP-GY	Gray
CAT6SHP-WT	White

**Regulatory:**

UL 444, ANSI/TIA 568.2-D and  
ISO/IEC 11801 Class E  
ETL CMP FT6  
EU RoHS 2011/65 EU Compliant

**Application:**

Networking Lan Cable



**Construction Characters:**

<b>Conductor</b>	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.585±0.005mm
<b>Insulation</b>	Material	FEP
	Min. Thickness	0.185mm
	AVG. Thickness	0.213mm
	Diameter	1.01±0.01mm
	Colors	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
<b>Shield</b>	Filler	LDPE
	Drain wire	1/0.40±0.004mm
	Shield	AL Foil
<b>Jacket</b>	Material	PVC
	Min. Thickness	0.65mm
	AVG. Thickness	0.60mm
	Diameter	7.50±0.10mm
	Colors	Per request
	Rip Cord	Nylon

## Electrical & Physical Characters

rating		75°C 30V	
Conductor Resistance		Max 68.5ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Spark Test		5.0KV	
AC Leakage Current Through overall Jacket		AC 1500V $\leq 10mA$	
Insulation	Unaged	Tensile Strength	11.8 Mpa
		Elongation	150%
	Aged	Tensile Strength	10.1 Mpa(100°C 168h)
		Elongation	80%(100°C 168h)
Jacket	Unaged	Tensile Strength	13.8 Mpa
		Elongation	150%
	Aged	Tensile Strength	11.7 Mpa(100°C 168h)
		Elongation	80%(100°C 168h)
Cold Bend Test		-20°C 4hours No Cracking	
DC Resistance Unbalance		Max 5%	
Pair-to-Ground Capacitance Unbalance		Max 3300pF/km	
Characteristic Impedance		1~500MHZ 100 ± 15OHM	
Nominal Velocity of Propagation (%)		67~69	
Propagation Delay		500MHZ Max 536ns/100m	
Delay Skew		1~500MHZ Max 40ns/100m	
<b>Marking:</b>			
STRUCTURED CABLE PRODUCTS --- P/N CAT6SHP --- CAT6 ENHANCED 550 MHz 23 AWG 4PR F/UTP VERIFIED TO ANSI/TIA-568.2-D CMP FT6 75C -- cETLus 30099905 CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXXFEET			
<b>Packaging:</b>			
Approx. Weight(kg)	Approx. Dimension(mm)	package	Packages per Pallet
20.95	370X320X200X12	1000 ft/ Spool	27

## 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	2.0	1.9	74.3	78.3	72.3	75.6	72.3	76.4
4	3.8	3.7	65.3	74.6	63.3	71.2	61.5	70.9
8	5.3	5.1	60.8	67.0	58.8	64.1	55.5	61.9
10	6.0	5.8	59.3	67.6	57.3	64.9	53.3	61.8
16	7.6	7.4	56.2	67.8	54.2	63.2	48.6	60.4
20	8.5	8.2	54.8	66.9	52.8	63.1	46.3	58.7
25	9.5	9.1	53.3	61.3	51.3	57.8	43.8	52.2
31.25	10.7	10.4	51.9	65.7	49.9	62.1	41.2	55.3
62.5	15.4	15.0	47.4	54.6	45.4	51.3	32.0	39.6
100	19.8	19.2	44.3	58.0	42.3	55.0	24.5	38.8
200	29.0	28.2	39.8	54.5	37.8	51.0	10.8	26.3
250	32.8	30.4	38.3	52.8	36.3	50.1	5.5	22.4
300	36.4	34.3	37.1	50.2	35.1	48.4	0.7	15.9
400	43.0	39.6	35.3	47.8	33.3	44.1	---	---
500	48.9	44.9	33.8	46.0	31.8	43.3	---	---

## 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	20.0	22.6	67.8	75.6	64.8	73.3	70.3	73.7
4	23.0	23.7	55.8	61.3	52.8	60.1	59.5	67.5
8	24.5	29.0	49.7	55.7	46.7	54.8	53.5	59.0
10	25.0	28.5	47.8	55.2	44.8	53.2	51.3	59.1
16	25.0	28.2	43.7	49.7	40.7	48.1	46.6	55.8
20	25.0	27.8	41.8	48.1	38.8	46.2	44.3	54.9
25	24.3	27.5	39.8	45.9	36.8	45.0	41.8	48.7
31.25	23.6	24.9	37.9	42.7	34.9	41.7	39.2	51.7
62.5	21.5	24.1	31.9	39.4	28.9	37.4	30.0	36.3
100	20.1	23.5	27.8	35.0	24.8	33.2	22.5	35.8
200	18.0	23.2	21.8	32.8	18.8	30.2	8.8	22.8
250	17.3	20.5	19.8	30.7	16.8	27.7	3.5	19.7
300	16.8	19.8	18.3	26.5	15.3	25.4	---	---
400	15.9	17.9	15.8	23.4	12.8	22.1	---	---
500	15.2	16.6	13.8	19.5	10.8	18.7	---	---