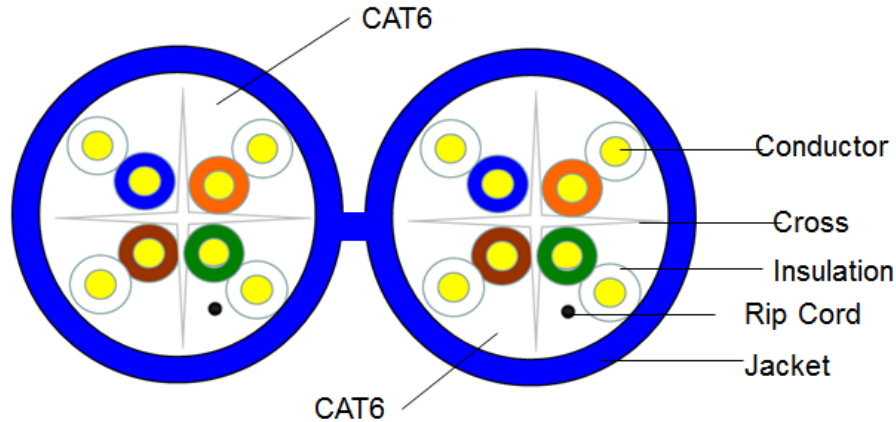


**SCP PART#: CAT6-S-BL**

Rev01/22

**CAT6 SIAMESE- 2x ENHANCED 550 MHz 23 AWG SOLID BC 4PR, UTP, ANSI/TIA-568.2-D, ISO/IEC 11801 CLASS E, UL CMR PVC JKT- BLUE- 1000 FT SPOOL**



**Regulatory**

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

**Application:** Lan Cable

**Construction Characteristics:**

2XCAT6		
Conductor	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.57+/-0.005mm
Insulation	Material	HDPE
	Min.Thickness	0.200mm
	AVG.Thickness	0.220mm
	Diameter	1.03+/-0.01mm
	Colors	Blue- White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Jacket	Material	PVC
	Min.Thickness	0.54mm
	AVG.Thickness	0.60mm
	Diameter	6.20*12.5+/-0.20mm
	Rip Cord	Nylon
	Color	Blue / Blue
Assembly	Shape: " 8"	
Bend radius	Min 20D/125mm	

### Electrical & Physical Characteristics:

Operating Temperature Range	- 20°C +75°C		
Minimum installation temperature	0°C + 40°C		
Conductor Resistance	Max 72.2ohm/km at 20°C		
Dielectric Strength	Min AC1.5KV		
Spark Test	5.0KV		
Rated Voltage	Max 300Volts		
DC Resistance 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 45ns/100m		
Marking:			
STRUCTURED CABLE PRODUCTS --- CAT6-S --- CAT6 SIAMESE-2X ENHANCED 550MHz UTP ANSI/TIA-568.2-D ISO/IEC 11801 CLASS E 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 ***FT			
Packaging:			
Approx.Weight	Approx.Dimension(mm)	Package	Packages per pallet
29kgs/63.93lbs	400X330X160	1000FT/SPOOL	27

### Performance-1

ITEM Frequenc	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	rd	SCP
1	2	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	6	5.8	59.3	67.6	57.3	65.9	53.3	61.8
16	7.6	7.4	56.2	70.8	54.2	67.2	48.6	63.4
20	8.5	8.2	54.8	71.9	52.8	69.1	46.3	63.7
25	9.5	9.1	53.3	62.3	51.3	60.8	43.8	53.2
31.25	10.7	9.9	51.9	68.7	49.9	67.1	41.2	58.8
62.5	15.4	15	47.4	59.6	45.4	58.3	32	44.6
100	19.8	18.8	44.3	60	42.3	58	24.5	41.2
200	29	27.4	39.8	57.5	37.8	56	10.8	30.1
250	32.8	29.4	38.3	55.8	36.3	54.1	5.5	26.4
300	36.4	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	48.9	43.9	33.8	51	31.8	49.3	---	---

## Performance-2

ITEM Frequenc	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard	SCP	Standard	SCP	Standard	SCP	rd	SCP
1	20	23.6	67.8	75.6	64.8	73.3	70.3	74.7
4	23	23.9	55.8	61.3	52.8	60.1	59.5	70.5
8	24.5	30	49.7	55.7	46.7	54.8	53.5	60
10	25	28.5	47.8	55.2	44.8	53.2	51.3	60.1
16	25	28.2	43.7	49.7	40.7	48.1	46.6	59.8
20	25	27.8	41.8	48.1	38.8	46.2	44.3	60.9
25	24.3	27.5	39.8	45.9	36.8	45	41.8	51.7
31.25	23.6	24.9	37.9	42.7	34.9	41.7	39.2	57.2
62.5	21.5	24.1	31.9	39.4	28.9	37.4	30	43.3
100	20.1	23.5	27.8	35	24.8	33.2	22.5	39.2
200	18	23.2	21.8	32.8	18.8	30.2	8.8	28.6
250	17.3	21.5	19.8	30.7	16.8	27.7	3.5	24.7
300	16.8	20.8	18.3	26.5	15.3	25.4	---	---
400	15.9	18.9	15.8	23.4	12.8	22.1	---	---
500	15.2	18.6	13.8	19.5	10.8	18.7	---	---