

**SCP PART#: CAT6SH-DB**

Rev08/23

**Description:**

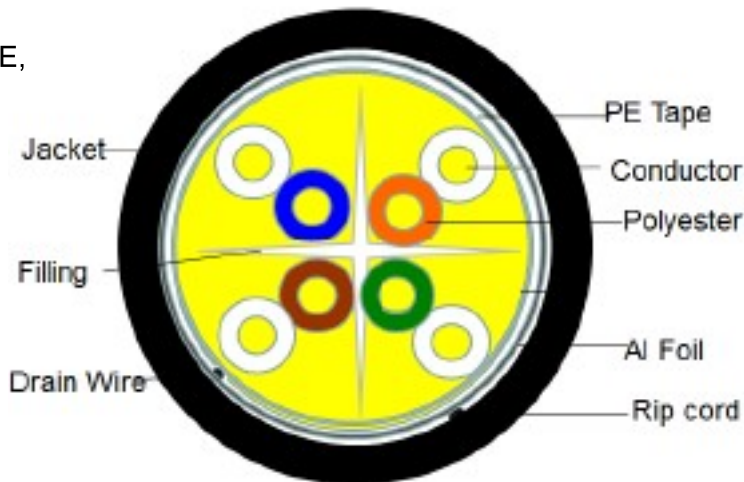
CAT6 Shielded F/UTP Direct Burial Outdoor  
Enhanced 550MHz 23AWG Solid BC 4PR,  
F/UTP, ANSI/TIA 568-2.D, ISO/IEC 11801 Class E,  
LLDPE Jkt- Black - 1000Ft/305m Spool

**Regulatory:**

ANSI/TIA 568.2-D and ISO/IEC 11801 Class E  
EU RoHS 2011/65 EU Compliant

**Application: Lan Cable**

For outdoor installations



**Construction Characteristics:**

Conductor	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.57+/-0.004mm
Insulation	Material	HDPE
	Min.Thickness	0.20mm
	AVG.Thickness	0.22mm
	Diameter	1.03+/-0.1mm
	Colors	Blue- White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Shield	Wrap	PE Tape
	Drain wire(TC)	1/0.40+/-0.004mm
	Shield	AL Foil
Sheath	Material	LLDPE
	Thickness	0.6+/-0.05mm
	U.V Stability	U.V Resistant
	Diameter	7.50+/-0.40mm
	Rip Cord	Nylon
	Color	Black
Bend Radius		Min 20D/150mm

**Electrical & Physical Characteristics:**

Operating Temperature Range	- 20°C + 75°C		
Conductor Resistance	Max 72.2 ohm/km at 20°C		
Dielectric Strength	Min AC1.5KV		
Minimum Flexing Bend Radius	>20x the jacket diameter		
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	10.8Mpa
		Elongation	100%
	Aged	Tensile Strength	8.5Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
Rated Voltage	Max 300 Volts		
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 45ns/100m		

**Marking:**

STRUCTURED CABLE PRODUCTS --- CAT6SH-DB --- CAT6 SHIELDED DIRECT BURIAL ENHANCED 550MHz F/UTP  
ANSI/TIA 568.2-D ISO/IEC 11801 CLASS E 4PR 23AWG SOL BC - LLDPE JKT - EU RoHS  
ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 \*\*\*M

**Packaging:**

Approx.Weight(kg)	Approx.Dimension(mm)	Package	Packages per pallet
19.00Kkg/ 41.88lbs	390X290X200	1000ft/305m Spool	27

## Performance

ITEM Frequency	Attenuation Max (dB)	NEXT Min (dB)	PS NEXT Min (dB)	ACR Min (dB)	RL Min (dB)	ELFEXT Min (dB)	PS ELFEXT Min (dB)	PSACR Min (dB)
1	2	74.3	72.3	72.3	20	67.8	64.8	70.3
4	3.8	65.3	63.3	61.5	23	55.8	52.8	59.5
8	5.3	60.8	58.8	55.5	24.5	49.7	46.7	53.5
10	6	59.3	57.3	53.3	25	47.8	44.8	51.3
16	7.6	56.2	54.2	48.6	25	43.7	40.7	46.6
20	8.5	54.8	52.8	46.3	25	41.8	38.8	44.3
25	9.5	53.3	51.3	43.8	24.3	39.8	36.8	41.8
31.25	10.7	51.9	49.9	41.2	23.6	37.9	34.9	39.2
62.5	15.4	47.4	45.4	32	21.5	31.9	28.9	30
100	19.8	44.3	42.3	24.5	20.1	27.8	24.8	22.5
200	29	39.8	37.8	10.8	18	21.8	18.8	8.8
250	32.8	38.3	36.3	5.5	17.3	19.8	16.8	3.5
300	36.4	37.1	35.1	0.7	16.8	18.3	15.3	---
400	43	35.3	33.3	---	15.9	15.8	12.8	---
500	48.9	33.8	31.8	---	15.2	13.8	10.8	---