

**SCP PART#: CAT6A-SH-DB**

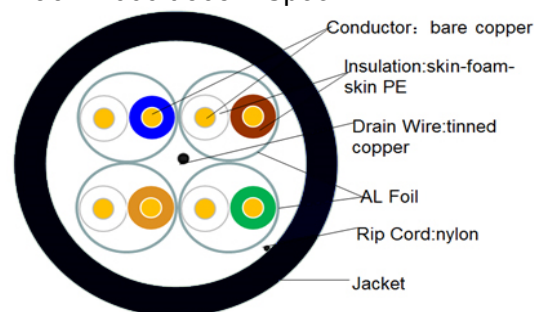
Rev10/24

Cat6a Shielded U/FTP Direct Burial - 10GBaseT, 600 MHz 23AWG Solid BC, 4PR, U/FTP, ANSI/TIA 568-2.D, ISO/IEC 11801 Class Ea, LLDPE Wet Location Jkt- Black- 1000ft/305m Spool

**Regulatory**

UL 444 ANSI/TIA 568.2-D and ISO/IEC 11801  
EU RoHS 2011/65 EU Compliant  
EN50575 REACTION TO FIRE CLASS Dca

**Application:** Lan cable for outdoor installations  
Wet location



**Construction Characteristics:**

Conductor	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.57+/-0.005mm
Insulation	Material	Skin-foam-skin PE
	Min.Thickness	0.350mm
	AVG.Thickness	0.360mm
	Diameter	1.35+/-0.05mm
	Colors	Light blue/Blue Light orange/Orange Light green/Green Light brown/Brown
Pair Screen	Every pair screen	Aluminum Foil
Drain Wire	TC	1/0.40+/-0.005
Jacket	Material	LLDPE
	Min.Thickness	0.54mm
	AVG.Thickness	0.60mm
	Diameter	7.30+/-0.20mm
	Rip Cord	Nylon
	Color	BLACK
Bend radius	Min 20D/150mm	

**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 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-SH-DB --- CAT6A SHIELDED DIRECT BURIAL  
ENHANCED 10GBASE-T 600MHZ U/FTP ANSI/TIA-568.2-D ISO/IEC 11801 CLASS Ea -----  
4PR 23AWG SOL BC - LLDPE JKT RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 \*\*\*M  
DDMMYY

**Packaging:**

Approx.Weight(kg)	Approx.Dimension(mm)	Package	Packages per pallet
18.2KG	360*280*160	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	2.1	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	----	----