

**SCP PART#: CAT6-DB**

Rev03/20

**Description:**

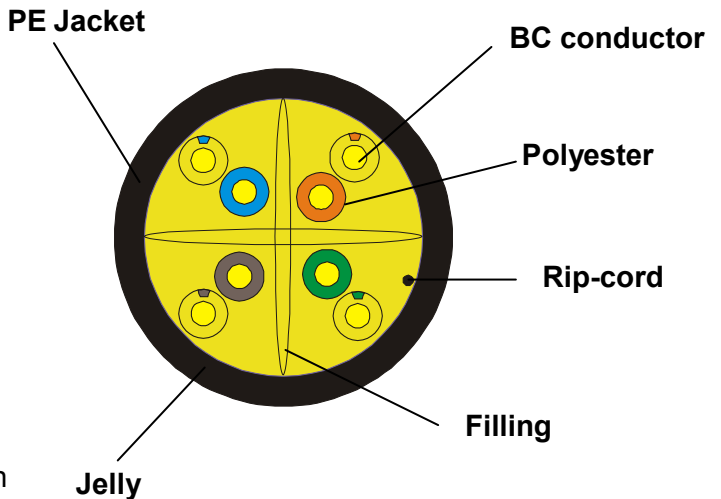
CAT6 DIRECT BURIAL - ENHANCED  
 550 MHz 23 AWG SOLID BC 4PR, UTP,  
 GEL TYPE, ANSI/TIA 568.2-D, ISO/IEC 11801  
 CLASS E, LLDPE JKT- BLACK - SPOOL

**Regulatory:**

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

**Application:**

Networking Lan Cable  
 Low Voltage Cable - Telecommunication  
 power limited



**Construction Characteristics:**

**Electrical & Physical 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
Filler	Jelly	Gel Filled
Sheath	Material	LLDPE
	Thickness	0.6+/-0.05mm
	U.V Stability	Sun Res UV protection
	Diameter	7.0+/-0.40mm
	Rip Cord	Nylon
	Color	Black
Bend Radius		Min 20D/140mm

Operating Temperature Range		- 20°C + 75°C	
Conductor Resistance		Max 72.2 ohm/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	10.8Mpa
		Elongation	100%
	Aged	Tensile Strenght	8.5Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
Rated Voltage Insulated/Operating		Max 300V/80V	
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 --- CAT6-DB --- CAT6 DIRECT BURIAL ENHANCED 550MHz UTP ANSI/TIA-568.2-D  
 ISO/IEC 11801 CLASS E 4PR 23AWG SOL BC - GEL FILLED - 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
16Kkg/ 35.27lbs	360X220X160	1000ft/305m Spool	36

## Performance

ITEM Frequency	Attenuatio n 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	---