

**SCP PART#: CAT5E-DB-GEL**

Rev03/20

**Description:**

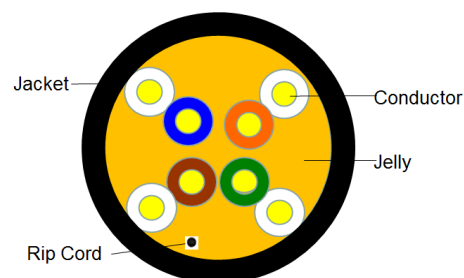
CAT5E DIRECT BURIAL- GEL TYPE- 350 MHz 24 AWG SOLID BC, 4PR, UTP, GEL FILLED, ANSI/TIA 568.2-D, ISO/IEC 11801 CLASS D, LLDPE JKT- BLACK- 1000 FT/305M SPOOL

**Regulatory:**

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

**Application:**

Networking Lan Cable



**Construction Characteristics:**

Conductor	Material	Solid Bare Copper	
	Size	24AWG X 4P	
	Construction	1/0.50+/-0.004mm	
Insulation	Material	HDPE	
	Min.Thickness	0.188mm	
	AVG.Thickness	0.20mm	
	Diameter	0.90+/-0.1mm	
	Colors		Blue- White/Blue
			Orange-White/Orange
		Green-White/Green	
Filler	Jelly	Gel Filled	
Sheath	Material	LLDPE	
	U.V Stability	U.V Resistant	
	AVG.Thickness	0.6 +/- 0.05mm	
	Diameter	5.8 +/- 0.20mm	
	Rip Cord	Nylon	
	Color	Black	
Bend Radius		Min 20D/120mm	

**Electrical & Physical Characteristics:**

Operating Temperature Range		- 20°C + 75°C	
Conductor Resistance		Max 93.8 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 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 45ns/100m	

**Marking:**

STRUCTURED CABLE PRODUCTS --- CAT5E-DB-GEL --- CAT5E DIRECT BURIAL ENHANCED 350MHz UTP ANSI/TIA-568.2-D ISO/IEC 11801 CLASS D 4PR 24AWG 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:**

<b>Approx.Weight(kg)</b>	<b>Approx.Dimension(mm)</b>	<b>Package</b>	<b>Packages per pallet</b>
11.6kgs/25.573lbs	360X180X160	1000ft/305m Box	36

## 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	65.3	62.3	63.3	20	63.8	60.8	60.3
4	4.1	56.3	53.3	52.2	23	51.8	48.8	49.2
8	5.8	51.8	48.8	46	24.5	45.7	42.7	43
10	6.5	50.3	47.3	43.8	25	43.8	40.8	40.8
16	8.2	47.2	44.2	39	25	39.7	36.7	36
20	9.3	45.8	42.8	36.5	25	37.8	34.8	33.5
25	10.4	44.3	41.3	33.9	24.3	35.8	32.8	30.9
31.25	11.7	42.9	39.9	31.2	23.6	33.9	30.9	28.2
62.5	17	38.4	35.4	21.4	21.5	27.8	24.8	18.4
100	22	35.3	32.3	23.3	20.1	23.8	20.8	10.3
155	28.1	32.4	29.4	4.3	18.8	20	17	1.3
200	32.4	30.8	27.8	---	18	1.7	14.7	---
300	41	28.1	25.1	---	16.8	14.2	11.2	---
350	44.9	27.1	24.1	---	16.3	12.9	9.9	---