

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

**Description:**

CAT5E Shielded Direct Burial - 350 MHz 24 AWG  
 Solid 4PR F/UTP, Gel Type, ANSI/TIA-568.2-D,  
 ISO/IEC 11801 CLASS D, LLDPE JKT- Black  
 1000 FT Spool

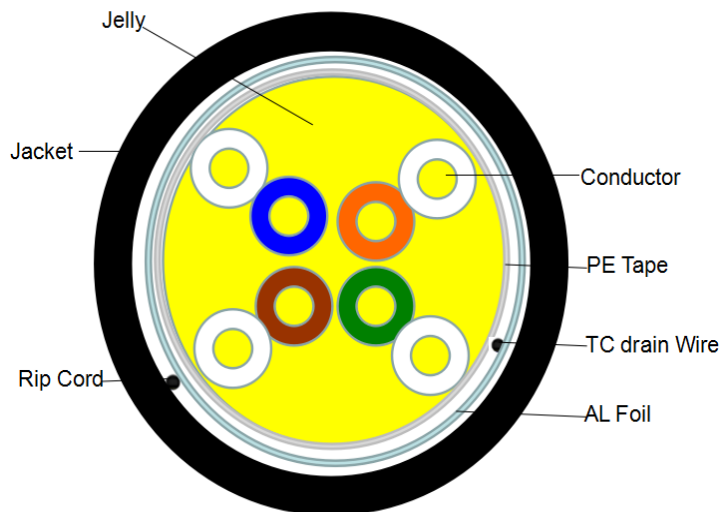
Rev03/20

**Regulatory:**

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

**Application:**

LAN Cable



**Construction Characteristics:**

Conductor	Material	Solid Bare Copper
	Size	24AWG X 4P
	Construction	1/0.51+/-0.004mm
Insulation	Material	HDPE
	Min.Thickness	0.250mm
	AVG.Thickness	0.265mm
	Diameter	1.05+/-0.1mm
	Colors	Blue- White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Shield	Jelly	Gel Filled
	Wrap	PE Tape
	Drain wire(TC)	1/0.40+/-0.004mm
	Shield	AL Foil
Jacket	Material	LLDPE
	Min.Thickness	0.54mm
	AVG.Thickness	0.60mm
	Diameter	6.50+/-0.40mm
	Rip Cord	Nylon
	Color	Black
Bend Radius		Min 20D/130mm

**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-SH-DB --- CAT5E SHIELDED DIRECT BURIAL ENHANCED  
 350MHZ F/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:**

Approx.weight	Approx.Dimension(mm)	Package	Packages per pallet
15.8kgs/34.833lbs	360X200X160	1000ft/305m Spool	36

## 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	2	65.3	80	62.3	79	63.3	78
4	4.1	3.7	56.3	67.1	53.3	65.7	52.2	63.4
8	5.8	5.2	51.8	65.5	48.8	62.5	46	60.3
10	6.5	5.9	50.3	62.1	47.3	59.7	43.8	56.2
16	8.2	7.4	47.2	57.9	44.2	56.3	39	50.5
20	9.3	8.2	45.8	57.6	42.8	54.7	36.5	49.4
25	10.4	9.2	44.3	54.3	41.3	51.7	33.9	45.1
31.25	11.7	10.3	42.9	54.7	39.9	52	31.2	44.4
62.5	17	14.6	38.4	49.4	35.4	46.7	21.4	34.8
100	22	18.6	35.3	42.5	32.3	41.7	23.3	23.9
155	28.1	22.9	32.4	48.8	29.4	45.7	4.3	25.9
200	32.4	25.7	30.8	42.3	27.8	38.9	---	---
300	41	31.6	28.1	39.7	25.1	35.8	---	---
350	44.9	34.3	27.1	44	24.1	34.2	---	---

## 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	24.1	63.8	76.2	60.8	73.2	60.3	77
4	23	25.2	51.8	61.2	48.8	59.5	49.2	62
8	24.5	25.7	45.7	52.2	42.7	51.5	43	57.3
10	25	27.1	43.8	50.8	40.8	50.5	40.8	53.8
16	25	26.2	39.7	47.7	36.7	45.5	36	48.9
20	25	26.1	37.8	47.9	34.8	46.4	33.5	46.5
25	24.3	26.4	35.8	48.7	32.8	45.9	30.9	42.5
31.25	23.6	24.6	33.9	43.9	30.9	41.1	28.2	41.7
62.5	21.5	24	27.8	34.4	24.8	34	18.4	32.1
100	20.1	22.8	23.8	29	20.8	27.9	10.3	23.1
155	18.8	26.5	20	33.6	17	26.3	1.3	22.8
200	18	28.1	1.7	27.8	14.7	23.2	---	---
300	16.8	26.3	14.2	35.7	11.2	23.9	---	---
350	16.3	28.5	12.9	31.6	9.9	21.3	---	---