

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

**Description:**

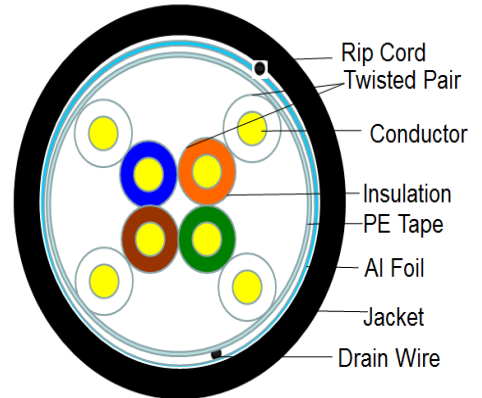
CAT5E SHIELDED 350 MHz 24 AWG SOLID BC,  
4PR, F/UTP, UL CMR, ANSI/TIA 568-C.2,  
IEC 11801 CLASS D, EN50575:2014 Eca,  
PVC JKT - 1000FT/305M BOX

**Regulatory:**

UL 444, TIA/EIA 568-C.2 and ISO/IEC 11801 Ed2  
Type (UL) CMR or c(UL) FT4  
EU RoHS 2011/65 EU Compliant  
EN50575:2014 Reaction to fire Class Eca

**Application:**

Networking 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+/-0.01mm	
	Colors	Blue- White/Blue	
		Orange-White/Orange	
		Green-White/Green	
		Brown-White/Brown	
Wrap	PE Tape		
Drain Wire (TC)	1/0.40+/-0.004mm		
Shield	AL Foil		
Jacket	Material	PVC	
	Thickness	0.6+/-0.05mm	
	Diameter	6.0+/-0.40mm	
	Rip Cord	Nylon	
	Color	Per request	
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	16.5Mpa
		Elongation	500%
	Aged	Tensile Strength	14.2Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strength	13.8Mpa
		Elongation	100%
	Aged	Tensile Strength	11.7Mpa(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-- CAT5E SHIELDED ENHANCED 350MHZ F/UTP ANSI/TIA-568-C.2  
ISO/IEC 11801 CLASS D E198134 SCP3 (UL) C(UL) CMR 4PR 24AWG SOL BC - EN50575:2014 CE Eca PVC JKT FT4 75C  
EU RoHS EC 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
13.2kgs/29.101lbs	400X290X400	1000ft/305m Box	36/24

### Performance-1

ITEM Frequency v	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		ACR Min (dB)	
	Standard		Standard		Standard		Standard	
1	2		65.3		62.3		63.3	
4	4.1		56.3		53.3		52.2	
8	5.8		51.8		48.8		46	
10	6.5		50.3		47.3		43.8	
16	8.2		47.2		44.2		39	
20	9.3		45.8		42.8		36.5	
25	10.4		44.3		41.3		33.9	
31.25	11.7		42.9		39.9		31.2	
62.5	17		38.4		35.4		21.4	
100	22		35.3		32.3		23.3	
155	28.1		32.4		29.4		4.3	
200	32.4		30.8		27.8		---	---
300	41		28.1		25.1		---	---
350	44.9		27.1		24.1		---	---

### Performance-2

ITEM Frequency v	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		PSACR Min (dB)	
	Standard		Standard		Standard		Standard	
1	20		63.8		60.8		60.3	
4	23		51.8		48.8		49.2	
8	24.5		45.7		42.7		43	
10	25		43.8		40.8		40.8	
16	25		39.7		36.7		36	
20	25		37.8		34.8		33.5	
25	24.3		35.8		32.8		30.9	
31.25	23.6		33.9		30.9		28.2	
62.5	21.5		27.8		24.8		18.4	
100	20.1		23.8		20.8		10.3	
155	18.8		20		17		1.3	
200	18		1.7		14.7		---	---
300	16.8		14.2		11.2		---	---
350	16.3		12.9		9.9		---	---