

**SCP PART#: CAT5E-PUR-ETL**

Rev03/20

**Description:**

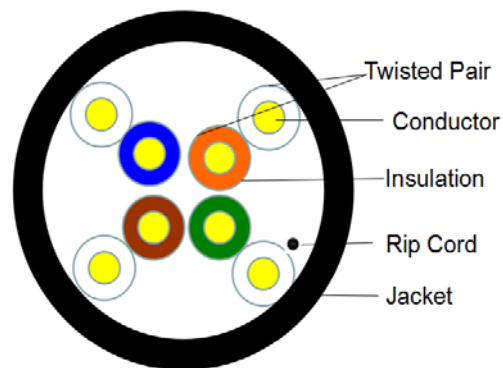
CAT5E 350 MHz 24 AWG SOLID BC 4PR UTP,  
ANSI/TIA 568.2-D, CMR ETL, PVC JKT- PURPLE - 1000 FT BOX

**Regulatory:**

ANSI/TIA 568.2-D  
CMR ETL  
EU RoHS 2011/65 EU Compliant

**Application:**

Networking Lan Cable



**Construction Characteristics:**

**Electrical & Physical Characteristics:**

Conductor	Material	Solid Bare Copper	Operating Temperature Range		- 20°C + 75°C	
	Size	24AWG X 4P	Conductor Resistance		Max 93.8 ohm/km at 20°C	
	Construction	1/0.48+/-0.004mm	Dielectric Strength		Min AC1.5KV	
Insulation	Material	HDPE	Insulation	Unaged	Tensile Strength	12.3Mpa
	Min.Thickness	0.175mm			Elongation	150%
	AVG.Thickness	0.18mm	Jacket	Aged	Tensile Strength	9.8Mpa(100°C 168h)
	Diameter	0.85+/-0.01mm			Elongation	100%(100°C 168h)
	Colors			Blue- White/Blue	Unaged	Tensile Strength
		Orange-White/Orange		Elongation	100%	
		Green-White/Green	Aged	Tensile Strength	11.7Mpa(100°C 168h)	
		Brown-White/Brown		Elongation	50%(100°C 168h)	
Jacket	Material	PVC	Rated Voltage		Max 300Volts	
	Min.Thickness	0.54mm	DC Resisitance Unbalance		Max 5%	
	AVG.Thickness	0.60mm	Pair-to-Ground Capacitance Unbalance		Max 3300pF/km	
	Diameter	5.00+/-0.10mm	Characteristic Impedance		100+/-15OHM	
	Rip Cord	Nylon	Nominal Velocity of Propagation(%)		67~69	
	Color	Per request	Propagation Delay		Max 536ns/100m	
Bend Radius		Min 20D/105mm	Delay Skew		Max 45ns/100m	

**Marking:**

STRUCTURED CABLE PRODUCTS ---CAT5E--- CAT5E --- ANSI/TIA 568.2-D ETL LISTED 5002121 (ETL) C(ETL) CMR FT4  
75C 24AWG SOL BC 4PR UTP EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 \*\*\*FEET

**Packaging:**

Approx.Weight	Approx.Dimension(mm)	Package	Packages per pallet
9.2kgs/20.285lbs	350X260X350	1000ft/305m Box	36

### Performance-1

ITEM Frequency v	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 v	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	---	---