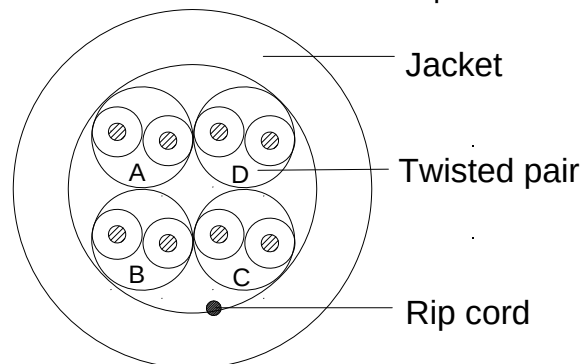




SCP PART#: CAT5E-BK, CAT5E-BLUE, CAT5E-GN, CAT5E-OR, CAT5E-PUR, CAT5E-RD, CAT5E-WT, CAT5E-YL		DESCRIPTION: CAT5E 350 MHz 24 AWG 4PR SOLID UTP, TIA/EIA 568-C.2, PVC JKT- GRAY- 1000 FT BOX	
Edition B	Est.Date 2012/12/06	Rev. Date 2013/06/20	
Approval Richard	Checked ANDREW	Finish JENNIFER	



Standards:

TIA/EIA 568 C.2
ISO/IEC 11801 ED2 CLASS D
EN 50173 1:2011
IEC 61156 5
EN 50288 3 1
EMC Performance Rating 6

FLAME SAFETY:

ISO 1872 PE
ANSI C 8.35

OTHER:

CE, RoHS
UL c(UL)
UL 444

Application: LAN/NETWORK Cable

10BASE T through 1000BASE T Ethernet
Power over Ethernet (PoE) – IEEE 802.3af
PoE+ – IEEE 802.3at Type 1 and 2
ATM and token ring

Construction Characters:

Conductor	Material	Solid Bare Copper
	Size	24AWG X 4P
	Construction	1/0.475±0.004mm
Insulation	Material	HDPE
	Min. Thickness	0.186mm
	AVG. Thickness	0.203mm
	Diameter	0.88±0.01mm
	Colors	Blue-White/Blue
		Orange-White/Orange
		Green-White/Green
Brown-White/Brown		
Jacket	Material	PVC
	Min. Thickness	0.60mm
	AVG. Thickness	0.54mm
	Diameter	5.00±0.10mm
	Rip Cord	Nylon
	Colors	Per request

Electrical & Physical Characters:

Rating			75°C 30V		Packaging: Approx. Weight(kg)	
Conductor Resistance			Max 105ohm/km at 20°C			
Dielectric Strength			Min AC1.5KV		5.40	9.85
Spark Test			5.0KV		Approx. Dimension(mm)	
AC Leakage Current Through overall Jacket			AC 1500V ≤10mA		300X260X320	335X260X350
Insulation	Unaged	Tensile Strength	16.5 Mpa		Package	
		Elongation	500%		500 ft/Box	1000 ft/Box
	Aged	Tensile Strength	14.2 Mpa(1 00°C 168h)		Packages per Pallet	
		Elongation	250%(100°C 168h)		48/36	36
Jacket	Unaged	Tensile Strength	13.8 Mpa		Marking: STRUCTURED CABLE PRODUCTS --- P/N CAT5E --- CAT5E ENHANCED 350 MHZ 4 PR 24 AWG UTP VERIFIED TO ANSI/TIA-568-C.2 CMR FT4 75C CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXXFEET	
		Elongation	150%			
	Aged	Tensile Strength	11.7 Mpa(100°C 168h)			
		Elongation	80%(100°C 168h)			
Cold Bend Test			-20°C 4hours No Cracking			
DC Resistance Unbalance			Max 5%			
Pair-to-Ground Capacitance Unbalance			Max 3300pF/km			
Characteristic Impedance			1~350MHZ 100± 15OHM			
Nominal Velocity of Propagation (%)			67~69			
Propagation Delay			350MHZ Max 536ns/100m			
Delay Skew			1~350MHZ Max 45ns/100m			



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	2.0	2.0	65.3	76.2	62.3	72.3	63.3	74.2
4	4.1	4.0	56.3	65.7	53.3	62.5	52.2	62.0
8	5.8	5.7	51.8	61.5	48.8	58.5	46.0	56.3
10	6.5	6.4	50.3	56.3	47.3	55.1	43.8	50.4
16	8.2	8.0	47.2	51.9	44.2	48.2	39.0	44.5
20	9.3	9.1	45.8	58.7	42.8	56.5	36.5	50.5
25	10.4	10.2	44.3	55.2	41.3	51.6	33.9	46.0
31.25	11.7	11.5	42.9	54.4	39.9	50.4	31.2	44.1
62.5	17.0	16.4	38.4	47.1	35.4	45.2	21.4	32.5
100	22.0	21.1	35.3	47.3	32.3	44.3	13.3	28.7
155	28.1	26.8	32.4	45.9	29.4	40.4	4.3	23.0
200	32.4	30.0	30.8	40.7	27.8	36.8	---	---
300	41.0	37.2	28.1	38.5	25.1	40.1	---	---
350	44.9	40.1	27.1	36.7	24.1	31.6	---	---

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	20.0	23.4	63.8	75.4	60.8	73.3	60.3	70.3
4	23.0	29.6	51.8	57.3	48.8	56.5	49.2	58.8
8	24.5	25.0	45.7	49.4	42.7	48.0	43.0	53.3
10	25.0	26.5	43.8	46.6	40.8	45.1	40.8	49.2
16	25.0	26.2	39.7	50.2	36.7	47.2	36.0	40.8
20	25.0	27.0	37.8	45.1	34.8	41.9	33.5	48.3
25	24.3	25.9	35.8	40.0	32.8	38.7	30.9	42.4
31.25	23.6	24.3	33.9	42.5	30.9	41.7	28.2	40.1
62.5	21.5	22.0	27.8	39.1	24.8	34.7	18.4	30.6
100	20.1	23.6	23.8	30.9	20.8	28.2	10.3	25.7
155	18.8	27.0	20.0	31.4	17.0	22.6	1.3	17.5
200	18.0	25.4	17.7	26.0	14.7	22.9	---	---
300	16.8	24.2	14.2	27.7	11.2	17.5	---	---
350	16.3	26.9	12.9	22.3	9.9	17.3	---	---