



Structured Cable Products

Quality Installations Deserve Quality Products

PRODUCT SPECIFICATIONS

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SCP PART#: CAT5E-P-BK, CAT5E-P-BL, CAT5E-P-GY, CAT5E-P-YL, CAT5E-P-WT, CAT5E-P-GN, CAT5E-PUR		DESCRIPTION: CAT5E PLENUM- 350 MHz 24 AWG SOLID 4PR UTP, TIA/EIA 568-C.2, CMP- BLUE- 1000 FT BOX	
Edition A1	Est.Date 2012/11/13	Rev. Date 2013/06/20	
Approval Handle	Checked ANDREW	Finish JENNIFER	



Standard:

UL444 、ISO/IEC11801 & TIA/EIA-568-C.2 CAT5e

Application:

ULTRA HIGH PERFORMANCE LAN CABLE ARE
SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF
TRANSFER FOR NETWORK

Construction Characters:

Conductor	Material	Solid Bare Copper
	Size	24AWG X 4P
	Construction	1/0.50±0.008mm
Insulation	Material	FEP
	Min. Thickness	0.196mm
	AVG. Thickness	0.205mm
	Diameter	0.90±0.01mm
	Colors	Blue-White/Blue
		Orange-White/Orange
		Green-White/Green
		Brown-White/Brown
Jacket	Material	LS FR-PVC
	Min. Thickness	0.50mm
	AVG. Thickness	0.55mm
	Diameter	5.30±0.10mm
	Rip Cord	Nylon
	Colors	BK,BL,GN,OR,RD,GY, WT,PK

Electrical & Physical Characters:

Rating			75°C 300V	Packaging: Approx. Weight(kg)
Conductor Resistance			Max 58pF/m	
Dielectric Strength			MinAC1.5KV	
Spark Test			2.5KV	Approx. Dimension(mm)
Mutual Capacitance			Max 58pF/m	34*34*24
AC Leakage Current Through overall Jacket			AC 1500V ≤10mA	Package
Insulation	Unaged	Tensile Strength	2500psi	1000 ft/Box
		Elongation	200%	Packages per Pallet
	Aged	Tensile Strength	2200psi (100°C 48h)	45
		Elongation	180%(100°C 48h)	Marking: STRUCTURED CABLE PRODUCTS - P/N: CAT5E-P – xx CAT5E 350MHZ 4PR 24AWG SOLID UTP ETL No.3009905 APPROVED CMP FT6 75 °C VERIFIED TO A NSI/TIA-568-C.2 CE EU RoHS ZONE/JACK A B C D E 0 1 2 3 4 5 6 7 8 9 xxxFT
Jacket	Unaged	Tensile Strength	2500psi	
		Elongation	200%	
Aged	Tensile Strength	2200psi (100°C 48h)		
	Elongation	75%(100°C 48h)		
Insulation Shrink back			150mm 121±1°C HR≤9.5mm	
Cold Bend Test			-20°C 4hours No Cracking	
Flame Retardant Test			CMP	
DC Resistance Unbalance			Max 5%	
Pair-to-Ground Capacitance Unbalance			Max 3300pF/km	
Characteristic Impedance			1~100MHZ 100± 15OHM	
Structural Return Loss			100MHZ Min 8.6dB	
Propagation Delay			100MHZ Max 536ns/100m	
Delay Skew			1~100MHZ Max 30ns/100m	



Performance

ITEM Frequency	Attenuation Max (dB/100m)	NEXT Min (dB)	ACR Min (dB)	PS NEXT Min (dB)	PS ACR Min (dB)	ELFEXT Min (dB/100m)	PS ELFEXT Min (dB)	RL Min (dB)
1	2.0	75.3	73.3	73.3	71.3	67.8	64.8	20.0
4	3.8	66.3	62.5	64.3	60.5	55.7	52.7	23.0
8	5.4	61.8	56.4	59.8	54.4	49.7	46.7	24.5
10	6.0	60.3	54.3	58.3	52.3	47.8	44.8	25.0
16	7.6	57.3	49.7	55.3	47.7	43.7	40.7	25.0
20	8.5	55.8	47.3	53.8	45.3	41.7	38.7	25.0
25	9.6	54.3	44.8	52.3	42.7	39.8	36.8	24.3
31.25	10.7	52.9	42.2	50.9	40.2	37.9	34.9	23.6
62.5	15.5	48.4	32.9	46.4	30.9	31.8	28.8	21.5
100	19.9	45.3	25.4	43.3	23.4	27.8	24.8	20.1