SCP Structured Cable Products™
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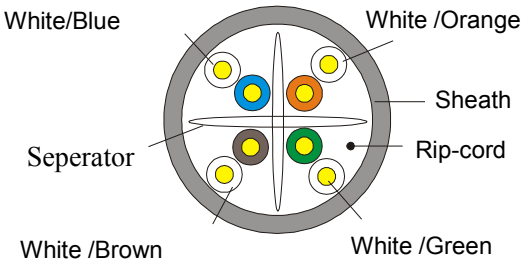
SCP PART#: CAT6-P-XX

Description	CAT6 PLENUM- ENHANCED 550 MHz 23 AWG SOLID 4PR UTP, TIA/EIA 568-C.2, CMP- 1000 FT BOX

Content of the Data Sheet

Sheath Printing	STRUCTURED CABLE PRODUCTS P/N CAT6-P - CAT6 ENHANCED 550 MHz UTP VERIFIED TO ANSI/TIA-568-C.2 E198134 -Z (UL) CMP 4PR 23AWG 75C---EU RoHS EC **** FEET MM/YY				
Category	U/UTP CAT6-4P-CMP PVC				
Test Standard	ISO/IEC11801、TIA-568-C.2 、YD/T1019				
Conductor	Material	SOLID-Bare Copper			
	Nom.O.D.(mm)	0.565	up	+0.005	
			down	-0.005	
Insulation	Material	FEP			
	Diameter	1.00±0.04mm			
Sheath	Thickness	0.45±0.05mm			
	External O.D.	5.8±0.4 mm			
	Surface	Clean,Frap,Satiation			
	Material	CMP PVC(complies RoHS)			
	Color	According to the requires			
Surface Printing	Letter height	3.0±0.3mm			
	Color	Black			
	Print error & Space	≤±0.5%，1m			
Core Color	1 White/Blue	2 White/Orange			
	3 White /Green	4 White/Brown			
Packing	Box 305m, 36 boxes each pallet				
Weight :	N.W 13.30KGS/ G.W16.60KGS				
Packing length	305±1.5m				
Rip-cord	Yes	Drain wire	No		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥13.5 Elongation(%) ≥150				
	Aging Period (℃x hrs) 100℃ x 24h x 7d				
	After Aging Tensile Strength(Mpa) ≥12.5 Elongation(%) ≥125				
	Cold bend(-20±2℃×4h) 8×Cable O.D，No visible cracks				
Electrical Characteristics (20 ℃)	1.0-250.0MHz Impedance ((Ω) 100±15				
	1.0-250.0MHz Delay Skew (ns/100m) ≤45				
	Velocity of Propagation (%) (NVP) 72				
	DC Resistance (Ω/100m) max 9.5				
	DC Conductor Resistance Unbalance (%) max 5.0				



Technical Performance (100m):

Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns
1	20.0	2.1	74.3	570.0
4.0	23.0	3.8	65.3	552.0
8.0	24.5	5.3	60.8	546.7
10.0	25.0	5.9	59.3	545.4
16.0	25.0	7.5	56.2	543.0
20.0	25.0	8.4	54.8	542.1
25.0	24.3	9.4	53.3	541.2
31.25	23.6	10.5	51.9	540.4
62.5	21.5	15.0	47.4	538.6
100	20.1	19.1	44.3	537.6
200	18.0	27.6	39.8	536.5
250	17.3	31.1	38.3	536.3
*350	16.3	39.79	36.1	535.92
∗550	12.6	61.7	33.2	535.5

Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	72.3	67.8	64.8
4	63.3	55.8	52.8
8	48.8	49.7	46.7
10	57.3	47.8	44.8
16	54.2	43.7	40.7
20	52.8	41.8	38.8
25	51.3	39.8	36.8
31.25	49.9	37.9	34.9
62.5	45.4	31.9	28.9
100	42.3	27.8	24.8
200	37.8	21.8	18.8
250	36.3	19.8	16.8
*350	34.1	16.9	13.9
∗550	31.2	13.2	10.1

Note：1. Remarks: * are the reference values