

SCP Part #: CAT5E-SH-DB

Product Specifications: CAT5E SHIELDED DIRECT BURIAL- 350 MHz 24 AWG SOLID 4PR F/UTP, GEL TYPE, TIA/EIA 568-C.2, LLDPE JKT- BLACK- 1000 FT SPOOL

Date	Prepared by	Checked by	Approved by	Version	Revision Declaration				
2013-11-14	Caixiaoping	Nidonghua	Wangfuzhu	A0					
Content of the Data Sheet									
Sheath Printing	STRUCTURED CABLE PRODUCTS --- P/N CAT5E-SH-DB --- CAT5E SHIELDED DIRECT BURIAL ENHANCED 350 MHz 4 PR 24 AWG SOLID F/UTP GEL FILLED LLDPE VERIFIED TO ANSI/TIA-568-C.2 CE EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 XXXX FEET MM/YY								
Category	F/UTP GEL CAT5e-4P-PE								
Test Standard	ISO/IEC11801、TIA-568-C.2								
1. Conductor	Material	Solid-Bare copper							
	Nom. O.D. (mm)	0.500	Up	+0.005					
			Down	-0.005					
2. Insulation	Material	HDPE							
	Diameter	1.00±0.03mm							
Color	A.Blue, White-Blue	B.Orange,White-Orange							
	C.Green,White-Green	D.Brown, White-Brown							
3. Rip-cord	Yes	Drain wire	0.45mmTC						
4. Shielded	AL Foil								
5. Sheath	Thickness	0.55±0.05 mm							
	External O.D.	6.5±0.4 mm							
	U.V Stability	U.V Resistant							
	Material	LLDPE(complies RoHS)							
	Color	Multiple							
	Surface Printing	Letter height	3.0±0.3mm						
	Color	Black							
	Print error & Space	≤±0.5%, 1m							
Packing	Wooden reel, 36 reels each pallet								
Weight:	N.W.:16.0KGS / G.W: 18.0KGS								
Packing length	305±1.5m								
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0						
		Elongation (%)	≥350						
	Aging Period (°C×hrs)	100°C×24h×10d							
	After Aging	Elongation (%)	≥300						
		Cold bend (-20±2°C×4h)	No visible cracks						
	Electrical Characteristics (20°C)	1.0-250.0MHz, Characteristic impedance (Ω)	100±15						
1.0-250.0MHz, Delay Shew 20°C(ns/100m)		≤45							
Capacitance unbalance to earth (pf/100m) max		330							
DC Resistance 20°C(Ω/100m) max		9.5							
Technical Performance (100m):					RL	ATT	NEXT	Phase	
					DELAY (MHz)	≥dB	≤dB	≥dB	≤ns
					1	20.0	2.0	65.3	570.00
					4.0	23.0	4.1	56.3	552.00
					8.0	24.5	5.8	51.8	546.73
					10.0	25.0	6.5	50.3	545.38
					16.0	25.0	8.2	47.2	543.00
					20.0	25.0	9.3	45.8	542.05
					25.0	24.3	10.4	44.3	541.20
					31.25	23.6	11.7	42.9	540.44
					62.5	21.5	17.0	38.4	538.55
					100	20.1	22.0	35.3	537.60
					*155	18.0	28.1	32.4	536.90
					*350	16.0	44.9	27.1	535.90
						PSNEXT	ELFEXT	PSELFEXT	
					(MHz)	≥dB	≥dB	≥dB	
					1	62.3	63.8	60.8	
					4	53.3	51.8	48.8	
					8	48.8	45.7	42.7	
					10	47.3	43.8	40.8	
					16	44.4	39.7	36.7	
					20	42.8	37.8	34.8	
					25	41.3	35.8	32.8	
					31.25	39.9	33.9	30.9	
					62.5	35.4	27.9	24.9	
					100	32.3	23.8	20.8	
					*155	29.4	20.0	17.0	
					*350	24.1	12.9	9.9	
					Remarks: * are the reference values				

