



SCP Part #: CAT5E-DB-GEL

Product Specifications: CAT5E DIRECT BURIAL GEL TYPE- 350 MHz 24 AWG SOLID 4PR UTP, GEL FILLED, TIA/EIA 568-C.2, ISO/IEC 11801 Ed2, 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-DB-GEL --- CAT5E DIRECT BURIAL ENHANCED 350 MHz 4 PR 24 AWG SOLID 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	U/UTP GEL CAT5e-4P-PE				
Test Standard	ISO/IEC11801、TIA- 568C.2 YD/T1019				
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	No		
4. Sheath	Thickness	0.55±0.05 mm			
	External O.D.	5.5±0.5 mm			
	U.V Stability	U.V Resistant			
	Material	LLDPE (complies RoHS)			
	Color	Black			
Surface Printing	Letter height	3.0±0.3mm			
	Color	White			
	Print error & Space	≤±0.5%, 1m			
Packing	Wooden reel, 45 reels each pallet				
Weight	N.W:11.0KGS/ GW.:12.50KGS				
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)	1.0-100.0MHz, Characteristic impedance (Ω)	100±15			
	1.0-100.0MHz, Delay Shew 20°C(ns/100m)	≤45			
	DC Resistance 20°C(Ω/100m) max	9.5			
	DC Conductor Resistance Unbalance (%)max	5.0			
		Remarks: * are the reference values			

(MHz)	RL	ATT	NEXT
	≥dB	≤dB	≥dB
1	20.0	2.0	65.3
4.0	23.0	4.1	56.3
8.0	24.5	5.8	51.8
10.0	25.0	6.5	50.3
16.0	25.0	8.2	47.2
20.0	25.0	9.3	45.8
25.0	24.3	10.4	44.3
31.25	23.6	11.7	42.9
62.5	21.5	17.0	38.4
100	20.1	22.0	35.3
*155	18.0	28.1	32.4
*350	16.0	44.9	27.1

(MHz)	PSNEXT	ELFEXT	PSELFEXT
	≥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