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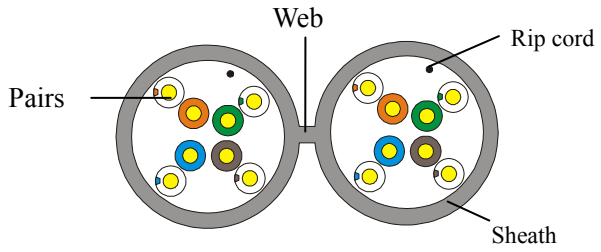
P/N：CAT5E-S

REF : DUPLEX UTP 4 pairs cable - category 5e - 100MHz -PVC Sheath

Date	Prepared by	Checked by	Approved by	Version	Revision Declaration
2015-09-05	Caihanglie	Nidonghua	Wangfuzhu	A0	

Content of the Data Sheet

Sheath Printing	STRUCTURED CABLE PRODUCTS --- P/N CAT5E-S --- 2×ENHANCED CAT5E 350 MHz 4 PR 24 AWG SOLID ETL VERIFIED TO ANSI/TIA-568-C.2 CMR 4PR 23AWG 75C 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			
Customer reference	CAT5E-S			
Category	DUPLEX U/UTP CAT5e-4P-PVC			
Test Standard	ISO/IEC11801、TIA-568-C.2 YD/T1019			
1. Conductor	Material	SOLID-Bare Copper		
	Nom. O.D. (mm)	0.490	Up	+0.005
			Down	-0.005
2. Insulation	Material	HDPE		
	Diameter	0.87±0.04mm		
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.	(5.0/10.8)±0.4mm		
	Surface	Clean,Frap,Satiation		
	Material	PVC(complies RoHS)		
	Color	Multiple		
Surface Printing	Letter height	3.0±0.3mm		
	Color	Black		
	Print error & Space	≤±0.5%，1m		
Packing	Wooden reel, 24 or 36 reels each pallet			
Weight:	N.W.:17.60KGS / G.W: 20.00KGS			
Packing length	305±1.5m			
Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥13.5 Elongation (%) ≥150			
	Aging Period (℃ x hrs) 100℃ x 24hrs x 7d			
	After Aging Tensile Strength (Mpa) ≥12.5 Elongation (%) ≥125			
	Cold bend (-20±2℃ x 4hrs) No Visible Cracks			
Electrical Characteristics (20 ℃)	1.0-100.0MHz, Characteristic impedance (Ω) 100±15			
	1.0-100.0MHz, Delay Shew 20℃(ns/100m) ≤45			
	DC Resistance 20℃(Ω/100m) max 9.5			
	DC Conductor Resistance Unbalance (%)max 5.0			



Technical Performance (100m):

(MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤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

(MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥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