



U / U T P 4Pairs cable -category 6A PVC Sheath

Date	Author	Review	Approve	Version	Revision Declaration
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Content of the Data Sheet					
Sheath Printing	PSI DATA UTP CAT6A 4PR 23 AWG CMR 3057585 (ETL) c(ETL) VERIFIED TO TIA-568-C.2 CAT 6A RoHS xxxxFT				
Customer reference					
Category	U/UTP CAT6A-4P- PVC				
Test Standard	ISO/IEC11801、TIA-568-C.2				
Conductor	Material	SOLID-Bare Copper			
	Nom.O.D.(mm)	0.560	up	+0.005	
			down	-0.005	
Insulation	Material	HDPE			
	Diameter	1.0±0.03mm			
Sheath	Thickness	0.65±0.05mm			
	External O.D.	6.9±0.4 mm			
	Surface	Clean,Frap,Satiation			
	Material	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 /Blue	2 White-Orange /Orange			
	3 White-Green /Green	4 White- Brown /Brown			
Packing	Wooden drum				
Carton dimension	According to the requires				
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 (°C×hrs)	100°C×24h×7d			
	After Aging	Tensile Strength(Mpa)	≥12.5		
	Elongation(%)	≥125			
	Cold bend(-20±2°C×4h) 8×Cable O.D.No visible cracks				
Electrical Characteristics (20°C)	1.0-250.0MHz	Impedance(Ω)	100±15		
	250-550 MHz	Impedance(Ω)	reference values		
	1.0-550.0MHz	Delay Shew (ns/100m)	≤45		
		DC Resistance (Ω/100m) max	9.38		
	DC Conductor Resistance Unbalance (%)max	5.0			

The diagram shows a cross-section of a 4-pair UTP cable. It features four twisted pairs of conductors. Each conductor is labeled 'Conductor: Bare Copper'. The pairs are surrounded by 'Insulation'. The entire assembly is enclosed in a 'Jacket'. An 'Insert' is shown at the bottom of the diagram.

Technical Performance :							
Fre. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	68.0	65.0
4	23.0	3.78	65.3	552.00	63.3	56.0	53.0
8	24.5	5.32	60.8	546.73	58.7	49.9	46.9
10	25.0	5.95	59.3	545.38	57.3	48.0	45.0
16	25.0	7.55	56.2	543.00	54.2	43.7	40.9
20	25.0	8.47	54.8	542.05	52.8	41.8	39.0
25	24.3	9.51	53.3	541.20	51.3	39.8	37.0
31.25	23.6	10.5	52.0	540.44	49.9	37.9	35.1
62.5	21.5	15.0	47.4	538.55	45.4	31.9	28.9
100	20.1	19.10	44.3	537.60	42.3	27.8	24.8
200	18.0	27.6	39.8	536.50	37.8	21.8	18.8
250	17.3	31.1	38.3	536.10	36.3	19.8	16.8
300	16.8	34.3	36.1	535.90	35.1	18.3	15.3
500	15.2	45.3	33.2	535.50	31.8	13.8	10.8

Note: Remarks: * are the reference values