

TECHNICAL DATA SHEET

U/UTP 4Pairs cable-category 6A- PVC Sheath

Content of the Data Sheet									
Sheath Printing	TBD								
Customer No.		Customer Reference							
Category	U/UTP CAT6A-4P-PVC								
Reference Standard	ISO/IEC11801、TIA-568-C.2								
Conductor	Material	Solid-Bare Copper							
	Nom.O.D.(mm)	0.565	up	+0.005					
			down	-0.005					
Insulation	Material	HDPE							
	Diameter	1.02±0.05mm							
Sheath	Thickness	0.70±0.05 mm (Avg.)							
	External O.D.	7.1±0.4 mm							
	Surface	Clean,Frap,Satiation							
	Material	PVC(complies RoHS)							
	Color	TBD							
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 Tray & Carton								
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							
Electrical Characteristics (20°C)	Cold bend(-20±2°C×4h)	8×Cable O.D., No visible cracks							
	Impedance(Ω)	1.0-250.0MHz	100±15						
		250.0-500.0MHz	100±22						
	1.0-500.0MHz Delay Skew (ns/100m)	≤45							
	DC Resistance (Ω/100m) max	9.38							
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
					300	16.8	34.3	37.1	536.1
					500	15.2	45.3	33.8	535.6
					Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB	
					1	72.3	67.8	64.8	
					4	63.3	55.8	52.8	
					8	58.8	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	
					300	35.1	18.3	15.3	
					500	31.8	13.8	10.8	
Version	A/01	Date	2017-08-25	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua