

# TECHNICAL DATA SHEET

## U/UTP cable - category 6- 4 Pair Unshielded –PVC+PE Sheath

Content of the Data Sheet									
Sheath Printing	TBD								
Customer No.		Customer Reference							
Category	U/UTP CAT6-4P-PVC+PE								
Reference Standard	ISO/IEC11801、TIA- 568-C..2								
Conductor	Material	SOLID-Bare Copper							
	Nom. O.D. (mm)	0.530	Up	+0.005	Down				
Insulation	Material	HDPE							
	Diameter	0.93±0.05mm							
Color	A.Blue, White-Blue	B.Orange, White-Orange							
	C.Green, White-Green	D.Brown, White-Brown							
Inner Jacket	Material	PVC	Color	TBD					
	Thickness	0.55 mm(nom.)							
Outer Sheath	Thickness	0.6±0.05 mm							
	External O.D.	7.0±0.5 mm							
	Surface	Clean, Frap, Satiation							
	Material	LDPE(complies RoHS)							
	Color	Black							
Surface Printing	Letter height	3.0±0.3mm							
	Color	White							
	Print error & Space	≤±0.5%, 1m							
	Packing	Wooden Tray & Carton							
Carton dimension	According to the requires								
Packing length	305 ± 1.5m								
Out Jacket 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)	Characteristic impedance (Ω)	100 ± 15							
	Delay Skew 20°C(ns/100m)	≤45							
	DC Resistance 20°C(Ω/100m) max	9.5							
	DC Conductor Resistance Unbalance (%)max	5.0							
					<b>Technical Performance (100m):</b>				
					Frequency (MHz)	RL ≥dB	ATT(20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns
					1	20.0	2.03	74.3	570.00
					4.0	23.0	3.78	65.3	552.00
					8.0	24.5	5.32	60.8	546.73
					10.0	25.0	5.95	59.3	545.38
					16.0	25.0	7.55	56.2	543.00
					20.0	25.0	8.47	54.8	542.05
					25.0	24.3	9.51	53.3	541.20
					31.25	23.6	10.67	51.9	540.44
					62.5	21.5	15.38	47.7	538.55
					100	20.1	19.80	44.3	537.60
					200	18.0	28.98	39.8	536.54
					250	17.3	32.85	38.3	536.27
					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	
Version	A/01	Date	2017-08-25	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua