

TECHNICAL DATA SHEET

U/UTP 4Pairs cable-category5E-PVC Sheath

Content of the Data Sheet									
Sheath Printing	TBD								
Customer No.		Customer Reference							
Category	U/UTP CAT5E-4P-PVC								
Reference Standard	ISO/IEC11801、TIA-568-C.2								
Conductor	Material	Solid-Bare Copper							
	Nom.O.D.(mm)	0.480	up	+0.005					
			down	-0.005					
Insulation	Material	HDPE							
	Diameter	0.86±0.05mm							
Sheath	Thickness	0.50±0.05 mm							
	External O.D.	4.9±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±1.5)m								
Rip-cord	Yes	Drain wire	No						
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥13.5							
	Elongation(%)	≥150							
	Aging Period(℃×hrs)	100℃×24h×7d							
	After Aging Tensile Strength(Mpa)	≥12.5							
		Elongation(%) ≥125							
	Cold bend(-20±2℃×4h) 8×Cable O.D., No visible cracks								
Electrical Characteristics (20℃)	1.0-100.0MHz Impedance(Ω)	100±15							
	1.0-100.0MHz Delay Skew (ns/100m)	≤45							
	DC Resistance(Ω/100m) max	11.0							
	DC Conductor Resistance Unbalance(%) max	5.0							
Version	A/01	Date	2017-08-25	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua

Technical Performance (100m):

(MHz)	RL ≥dB	ATT(20℃) ≤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