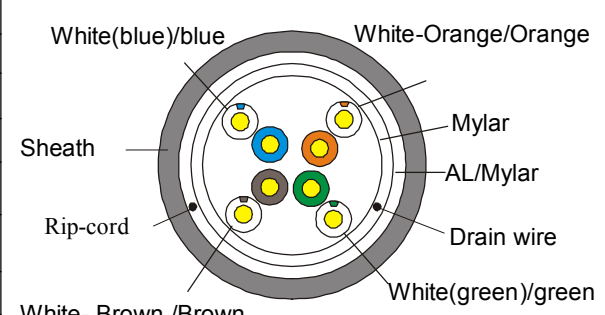


## F/UTP 4Pairs cable-category5E-PVC Sheath

Content of the Data Sheet									
Sheath Printing	TBD								
Customer No.		Customer Reference							
Category	F/UTP CAT5E-4P-PVC								
Reference Standard	ISO/IEC11801、TIA-568-C.2								
Conductor	Material	Solid-Bare Copper							
	Nom.O.D.(mm)	0.495	up	+0.005					
			down	-0.005					
Insulation	Material	HDPE							
	Diameter	0.95±0.05 mm							
Screening Material	Mylar+ AL/Mylar								
Sheath	Thickness	0.55±0.05mm							
	External O.D.	5.8±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	Yes						
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)	1.0-100.0MHz Characteristic Impedance(Ω)	100±15							
	1.0-100.0MHz Delay Skew (ns/100m)	≤45							
	unbalanced-to-ground capacitance (pf/100m) max	330							
	DC Resistance (Ω/100m) max	9.5							
	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):					
Frequency (MHz)	RL	ATT (20°C)	NEXT	PHASE	DELAY
	≥dB	≤dB	≥dB		≤ns
1	20.0	—	65.3		570.00
4	23.0	4.1	56.3		552.00
8	24.5	5.8	51.8		546.73
10	25.0	6.5	50.3		545.38
16	25.0	8.2	47.2		543.00
20	25.0	9.3	45.8		542.05
25	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

Frequency (MHz)	PSNEXT	ELFEXT	PSELFEXT
	≥dB	≥dB	≥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