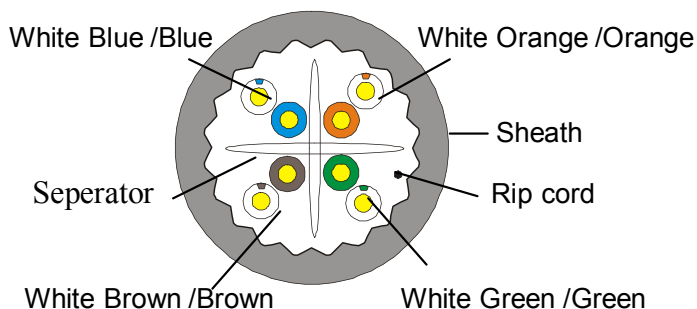


# TECHNICAL DATA SHEET

## U/UTP 4Pairs cable category 6A PVC Sheath(550MHz)

**CALYX**  
Cabling system



Part No: P14-1601

### Content of the Data Sheet

Category	U/UTP CAT6A4 PPVC ( 550MHz)			Technical Performance (100m):					
Test Standard	ISO/IEC11801、TIA5 68C .2 YD/T1019			Frequency (MHz)	RL ≥dB	ATT(20℃) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	
Conductor	Material	Solid Bare Copper		1	20.0	2.1	74.3	570.0	
	Nom.O.D.(mm)	0.570	up	+0.005	4.0	23.0	3.8	65.3	552.0
			down	0.005	8.0	24.5	5.3	60.8	546.7
Insulation	Material	HDPE		10.0	25.0	5.9	59.3	545.4	
	Diameter	1.03±0.03mm		16.0	25.0	7.5	56.2	543.0	
				20.0	25.0	8.4	54.8	542.1	
Sheath	Thickness	0.65±0.05 mm (Avg.)		25.0	24.3	9.4	53.3	541.2	
	External O.D.	6.9±0.4 mm		31.25	23.6	10.5	51.9	540.4	
	Surface	Clean,Frap,Satiation		62.5	21.5	15.0	47.4	538.6	
	Material	PVC ,(complies RoHS)		100	20.1	19.1	44.3	537.6	
	Color	Standard Gray		200	18.0	27.6	39.8	536.5	
				250	17.3	31.1	38.3	536.3	
Surface Printing	Letter height	3.0±0.3mm		300	16.8	34.3	37.1	536.1	
	Color	Black		500	15.2	45.3	33.8	535.6	
	Print error & Space	≤±0.5%, 1m		*550	14.9	44.7	33.2	535.5	
Core Color	1 White Blue /Blue	2 White Orange /Orange		Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB		
	3 White Green /Green	4 White Brown /Brown		1	72.3	67.8	64.8		
Packing	Wooden Tray & Carton			4	63.3	55.8	52.8		
Carton dimension	40.5*40.5*21cm			8	48.8	49.7	46.7		
Packing length	305±1.5m			10	57.3	47.8	44.8		
Ripcord	Yes	Drain wire	Yes	16	54.2	43.7	40.7		
				20	52.8	41.8	38.8		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥13.5		25	41.3	39.8	36.8		
	Elongation(%)	≥150		31.25	49.9	37.9	34.9		
	Aging Period (℃×hrs)	100℃×24h×7d		62.5	45.4	31.9	28.9		
	After Aging Tensile Strength(Mpa)	≥12.5		100	42.3	27.8	24.8		
	Elongation(%)	≥125		200	37.8	21.8	18.8		
	Cold bend( 20±2℃×4h) 8×Cable O.D., No visible cracks			250	36.3	19.8	16.8		
Electrical Characteristics (20℃)	1.0 500.0MHz Delay Shew (ns/100m) ≤45			300	35.1	18.3	15.3		
	NVP	69		500	31.8	13.8	10.8		
	DC Resistance (Ω/100m) max	9.5		*550	31.2	13.0	10.0		
	DC Conductor Resistance Unbalance (%) max	5.0		Remarks: * are the reference values					