

# TECHNICAL DATA SHEET

LAN Cable U/UTP Cat.6A 23AWG 305M/Box

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

P/N:CL-23U-C6A

Date	Author	Review	Approve	Version	Revision Declaration					
2014-01-09	Peterliu	Jennywu	Jeffchan	A0						
Content of the Data Sheet										
Sheath Printing	It will be printed as customer's requirement with batch produce.									
Customer reference										
Category	U/UTP CAT6A-4P-PVC									
Test Standard	ISO/IEC11801、TIA-568-C.2 YD/T1019									
Conductor	Material	Solid-Bare Copper								
	Nom.O.D.(mm)	0.565	up	+0.005	down	-0.005				
Insulation	Material	HDPE								
	Diameter	1.02±0.03mm								
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	Grey RAL7035								
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	40.5*40.5*21cm									
Packing length	(305±1.5)m									
Rip-cord	Yes	Drain wire	TC0.45mm							
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0								
	Elongation(%)	≥125								
	Aging Period (°C × hrs)	100°C × 24h × 7d								
	After Aging Tensile Strength(Mpa)	≥8.0								
	Elongation(%)	≥100								
Electrical Characteristics (20°C)	Cold bend(-20±2°C×4h)	8xCable O.D., No visible cracks								
	1.0-250.0MHz Impedance ((Ω)	100±15								
	1.0-250.0MHz Delay Shew (ns/100m)	≤45								
	DC Resistance (Ω/100m) max	9.5								
	DC Conductor Resistance Unbalance (%) max	5.0								
	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	48.8	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							

