



## U / U T P 4Pairs cable -category 6 -CMP PVC Sheath -550MHz

Date	Author	Review	Approve	Version	Revision Declaration		
Updated2018-05-08			WallisGan	A0			
Content of the Data Sheet							
Sheath Printing	PSI DATA UTP CAT6E 4PR 23 AWG CMP (UL) c(UL) E164469 ▲ ETL VERIFIED TO ANSI/TIA-568-C.2 CAT 6 550MHZ RoHS xxxxFt						
Customer reference							
Category Test	U/UTP/CAT6-4P- CMP PVC						
Standard	ISO/IEC11801、ANSI/TIA-568-C.2、						
1. Conductor	Material	SOLID-Bare Copper					
	Nom. O.D. (mm)	0.550	Up	+0.005			
			Down	-0.005			
	Material	FEP					
Diameter	0.95 ± 0.04mm						
Color	A.Blue, White	B.Orange,White					
	C.Green,White	D.Brown, White					
3. Filling	Plastic Separator : FEP						
4. Rip-cord	Yes	Drain wire	No				
5. Sheath	Thickness	0.45 ± 0.05 mm					
	External O.D.	5.8 ± 0.4 mm					
	Surface	Clean, Frap, Satiation					
	Material	CMP PVC (complies RoHS)					
	Color	Multiple					
Surface Printing	Letter height	3.0 ± 0.3mm					
	Color	Black					
	Print error & Space	≤ ± 0.5%, 1m					
Packing	Easy pull box						
Carton dimension	According to the requires						
Packing length	305 ± 1.5m						
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) 8xCable O.D.	No visible cracks					
Electrical Characteristics (20°C)	1.0-500.0MHz, Characteristic impedance (Ω)	100 ± 15					
	1.0-500.0MHz, Delay Shew 20°C(ns/100m)	≤ 45					
	DC Resistance 20°C(Ω/100m)max	9.38					
	DC Conductor Resistance Unbalance (%)max	5.0					
<b>Technical Performance :</b>							
Fre. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	68.0	65.0
4	23.0	3.78	65.3	552.00	63.3	56.0	53.0
8	24.5	5.32	60.8	546.73	58.7	49.9	46.9
10	25.0	5.95	59.3	545.38	57.3	48.0	45.0
16	25.0	7.55	56.2	543.00	54.2	43.9	40.9
20	25.0	8.47	54.8	542.05	52.8	42.0	39.0
25	24.3	9.51	53.3	541.20	51.3	40.0	37.0
31.25	23.6	10.67	52.0	540.44	49.9	38.1	35.1
62.5	21.5	15.38	47.4	538.55	45.4	32.1	29.1
100	20.1	19.80	44.3	537.60	42.3	28.0	25.0
200	18.0	28.98	39.8	536.50	37.8	22.0	19.0
250	17.3	32.85	38.3	536.10	36.3	20.0	17.0
*350	16.3	39.79	36.1	535.90	34.1	16.9	13.9
*550	14.9	51.76	33.2	535.50	31.2	13.0	10.0
Note: Remarks: * are the reference values							
Note: The fire retardant of the outer sheath should be comply with national standard.							