

U/UTP 4Pairs cable-category6A-PVC Sheath

P/N:LG2501-039

Content of the Data Sheet											
Sheath Printing		TBD									
Customer No.			Customer Reference				White- Blue /Blue Seperator White-Orange /Orange Polyester Tape Isolation Wrap White-Green /Green White-Brown /Brown Sheath Rip-cord				
Category		U/UTP-DF CAT6A-4P-PVC									
Reference Standard		ISO/IEC11801、ANSI/TIA-568-C.2									
Conductor		Material		Solid-Bare Copper							
		Nom.O.D.(mm)		0.565	up	+0.01					
				down	-0.01						
Insulation 1		Material		PE							
		Diameter		1.10±0.08mm							
Insulation 2		Material		PE							
		Diameter		1.20±0.08 mm							
Wrapping		Polyester Tape+Isolation Wrap				Technical Performance (100m)：					
Sheath		Thickness		0.55±0.05 mm		Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PSNEXT ≥dB	
		External O.D.		7.3±0.5 mm		1	20.0	—	74.3	72.3	
		Surface		Clean, Frap, Satiation		4.0	23.0	3.8	65.3	63.3	
		Material		PVC(complies RoHS)		8.0	24.5	5.3	60.8	58.8	
		Color		TBD		10.0	25.0	5.9	59.3	57.3	
						16.0	25.0	7.5	56.2	54.2	
Surface Printing		Letter height		3.0±0.3mm		20.0	25.0	8.4	54.8	52.8	
		Color		Black		25.0	24.3	9.4	53.3	51.3	
		Print error & Space		≤±0.5%， 1m		31.25	23.6	10.5	51.9	49.9	
Core Color		1 White- Blue /Blue		2 White-Orange /Orange		62.5	21.5	15.0	47.4	45.4	
		3 White-Green /Green		4 White- Brown /Brown		100	20.1	19.1	44.3	42.3	
Packing		Drum				200	18.0	27.6	39.8	37.8	
Carton dimension		---				250	17.3	31.1	38.3	36.3	
Packing length		305±1.5m/500±2.5m				300	16.8	34.3	37.1	35.1	
Rip-cord		Yes		Drain wire		No	500	15.2	45.3	33.8	31.8
Sheath Physical Properties		Before Aging Tensile Strength (Mpa)		≥13.5		Frequency (MHz)	ELFEXT ≥dB	PSELFEXT ≥dB	PSANEXT ≥dB	PSAACRF ≥dB	
		Elongation(%)		≥150		1	67.8	64.8	67.0	67.0	
		Aging Period (℃×hrs)		100℃×24h×7d		4	55.8	52.8	67.0	66.2	
		After Aging Tensile Strength(Mpa)		≥12.5		8	49.7	46.7	67.0	60.1	
		Elongation(%)		≥125		10	47.8	44.8	67.0	58.2	
Electrical Characteristics (20℃)		Cold bend(-20±2℃×4h)		8×Cable O.D., No visible cracks		16	43.7	40.7	67.0	54.1	
		Impedance(Ω)		1.0-250.0MHz 100±15		20	41.8	38.8	67.0	52.2	
				250.0-500.0MHz 100±22		25	39.8	36.8	67.0	50.2	
		1.0-500.0MHz Delay Skew (ns/100m)		≤45		31.25	37.9	34.9	67.0	48.3	
		DC Resistance (Ω/100m) max		9.38		62.5	31.9	28.9	65.6	42.3	
		DC Conductor Resistance Unbalance (%) max		5.0		100	27.8	24.8	62.5	38.2	
						200	21.8	18.8	58.0	32.2	
						250	19.8	16.8	56.5	30.2	
						300	18.3	15.3	55.3	28.7	
						500	13.8	10.8	52.0	24.2	
Version	A/03	Date	2024-01-08	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua		

Number	Revise Contents	Revise Reasons	Revised By	Audited By	Approved By	Date
A/01	Specification Version 1		Caihanglie	Nidonghua	Nidonghua	2018-04-25
A/02	Specification Version 2		Caihanglie	Nidonghua	Nidonghua	2023-06-02
A/03	Specification Version 3		Caihanglie	Nidonghua	Nidonghua	2024-01-08