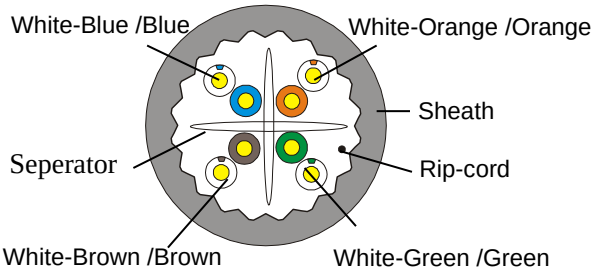
TECHNICAL DATA SHEET

Cat.6A U/UTP Installation Cable

P/N: 404542

Content of the Data Sheet					
Sheath Printing	TBD				
Customer No.		Customer Reference			
Category	U/UTP CAT6A-4P- LSZH(Dca,s2,d2,a1)				
Reference Standard	ISO/IEC11801、TIA-568-C.2				
Conductor	Material	Solid-Bare Copper			
	Nom.O.D.(mm)	0.565	up	+0.005	
			down	-0.005	
Insulation	Material	HDPE			
	Diameter	1.02±0.08mm			
Sheath	Thickness	0.70±0.05 mm (Avg.)			
	External O.D.	7.1±0.4 mm			
	Surface	Clean,Frap,Satiation			
	Material	FR-LSZH(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	No		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥10.0 Elongation(%) ≥125				
	Aging Period (℃×hrs) 100℃×24h×7d				
	After Aging Tensile Strength(Mpa) ≥8.0 Elongation(%) ≥100				
	Cold bend(-20±2℃×4h) 8×Cable O.D.，No visible cracks				
Electrical Characteristics (20℃)	Impedance(Ω) 1.0-250.0MHz 100±15 250.0-500.0MHz 100±22				
	1.0-500.0MHz Delay Skew (ns/100m) ≤45				
	DC Resistance (Ω/100m) max 9.38				
	DC Conductor Resistance Unbalance (%) max 5.0				



Technical Performance (100m):

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	58.8	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

Reaction to fire Classification：Dca,s2,d2,a1					**CPR Part no. G2501-023**				
Version	A/02	Date	2024-01-09	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua