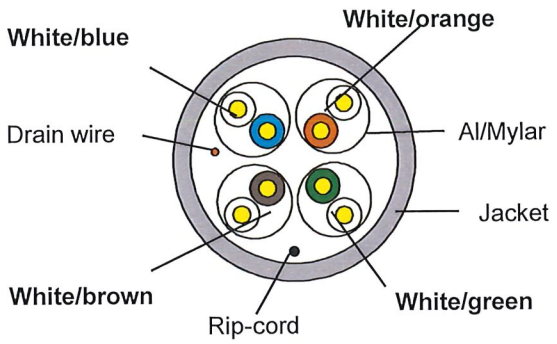
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TECHNICAL DATA SHEET

U/FTP 4Pairs cable-category 6A-LSZH Sheath

20122335 P/N: G2503-025

Content of the Data Sheet					
Sheath Printing	TBD				
Customer No.		Customer Reference			
Category	U/FTP- CAT6A-4P-LSZH(Eca)				
Reference Standard	ISO/IEC11801 、TIA-568-C.2				
Conductor	Material	SOLID-Bare Copper			
	Nom.O.D.(mm)	0.560	up	+0.005	
			down	-0.005	
Insulation	Material	Skin-foam-skin PE			
	Diameter	1.330±0.05 mm			
Screening Material	Al/Mylar	Drain wire	TC 0.45mm		
Sheath	Thickness	0.55±0.05 mm			
	External O.D.	7.3±0.5 mm			
	Surface	Clean			
	Material	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	2 White/Orange			
	3 White/Green	4 White/Brown			
Packing	Drum				
Packing length	305±1.5m				
Rip-cord	Yes				
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				
	unbalanced-to-ground capacitance(pf/100m)max 330				
	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	PHASE DELAY ≤ns
1	20.0	—	74.3	570
4.0	23.0	3.8	65.3	552
8.0	24.5	5.3	60.8	547
10.0	25.0	5.9	59.3	545
16.0	25.0	7.5	56.2	543
20.0	25.0	8.4	54.8	542
25.0	24.3	9.4	53.3	541
31.25	23.6	10.5	51.9	540
62.5	21.5	15.0	47.4	539
100	20.1	19.1	44.3	538
200	18.0	27.6	39.8	537
250	17.3	31.1	38.3	536
300	16.8	34.3	37.1	536
400	15.9	40.1	35.3	536
500	15.2	45.3	33.8	536

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
400	33.3	15.8	12.8
500	31.8	13.8	10.8

Reaction to fire Classification：Eca

Version	A/01	Date	2017-08-25	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua