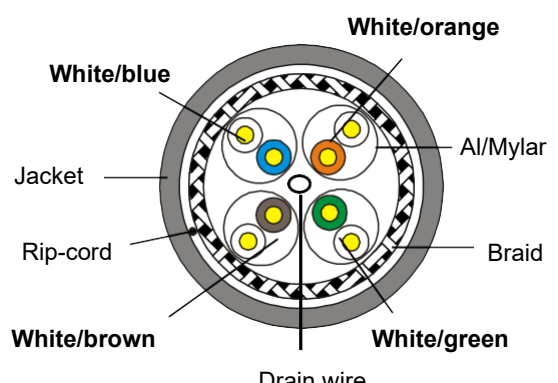




Content of the Data Sheet

Sheath Printing		TBD			
Customer No.		Customer Reference			
Category		S/FTP-CAT8.1-4P-LSZH			
Reference Standard		ISO/IEC 11801 & ANSI/TIA-568.2-D			
Conductor	Material	Solid-Bare Copper			
	Nom.O.D. (mm)	0.596	up	+0.005	
			down	-0.005	
Insulation	Material	Skin-foam-skin PE			
	Diameter	1.480±0.05 mm			
Inner Screening Material	Material	Al/Mylar	Drain wire	Yes	
	Outer Screening Material	Magnesium aluminum wire 0.12mm	Coverage	≥40%	
Sheath	Thickness	0.55±0.05 mm			
	External O.D.	8.0±0.5 mm			
	Surface	Clean			
	Material	LSZH (complies RoHS), IEC60332-1			
	Color	TBD			
Surface Printing	Letter height	3.0±0.3 mm			
	Color	Black			
	Print error & Space	≤±0.5%, 1 m			
Core Color	1. White/Blue	2. White/Orange			
	3. White/Green	4. White/Brown			
Packing	Drum				
Wooden Tray dimension	According to the requires				
Packing length	30±0.3m; 50±0.5m; 100±0.5m;				
Rip-cord	Yes				
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		
	Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks				
Electrical Characteristics (20°C)	Impedance (Ω)	100±5Ω @100MHz			
	Delay Skew (ns/100m)	≤25			
	Velocity of Propagation (%)	78			
	unbalanced-to-ground capacitance (pf/100m) max	120			
	DC Resistance (Ω/100m) max	9.5			
	DC Conductor Resistance Unbalance (%) max	2.0			



Technical Performance (30m) :				
Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PSNEXT ≥dB
1.0	19.0	3.0	65.0	62.0
4.0	19.0	3.0	63.8	60.5
8.0	19.0	3.0	58.9	55.6
10.0	19.0	3.0	57.3	54.0
16.0	18.0	3.0	53.9	50.6
20.0	17.5	3.0	52.3	49.0
25.0	17.0	3.2	50.7	47.3
31.25	16.5	3.6	49.1	45.7
62.5	16.0	5.1	44.0	40.6
100	16.0	6.5	40.5	37.1
200	14.3	9.3	35.3	31.9
250	13.4	10.4	33.6	30.2
300	12.7	11.5	32.3	28.8
400	11.6	13.3	30.1	26.6
500	10.7	15.0	27.9	24.8
600	10.0	16.5	25.7	22.7
1000	8.0	22.0	19.3	16.5
1500	8.0	27.7	13.9	11.2
2000	8.0	32.7	9.8	7.3
Frequency (MHz)	ACR-F ≥dB	PS ACR-F ≥dB	ACR-N ≥dB	PS ACR-N ≥dB
1.0	65.0	62.0	62.0	59.0
4.0	59.9	56.9	60.8	57.5
8.0	53.9	50.9	55.9	52.6
10.0	52.0	49.0	54.3	51.0
16.0	47.9	44.9	50.9	47.6
20.0	45.9	42.9	49.3	46.0
25.0	44.0	41.0	47.5	44.1
31.25	42.1	39.1	45.5	42.1
62.5	36.0	33.0	38.9	35.5
100	32.0	29.0	34.0	30.6
200	25.9	22.9	26.0	22.6
250	24.0	21.0	23.2	19.7
300	22.4	19.4	20.8	17.3
400	19.9	16.9	16.8	13.2
500	18.0	15.0	12.9	9.9
600	16.4	13.4	9.2	6.2
1000	12.0	9.0	-2.6	-5.5
1500	8.4	5.4	-13.8	-16.4
2000	5.9	2.9	-22.9	-25.3

Acceptance criterion: FLUKE Channel test 30 m, pass (ANSI/TIA-568.2-D CAT8)