



Content of the Data Sheet

Sheath Printing	TBD			
Customer No.		Customer Reference		
Category	S/FTP-CAT7A-4P-LSZH			
Reference Standard	ISO/IEC 61156-5, EN 50288-4			
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		
Inner Screening Material	Al/Mylar	Drain wire	Yes	
Outer Screening Material	Aluminum-magnesium alloy 0.12mm	Coverage	≥30%	
Sheath	Thickness	0.55±0.05 mm		
	External O.D.	7.6±0.5 mm		
	Surface	Clean		
	Material	LSZH (complies RoHS)		
	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	305±1.0 m			
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		
Electrical Characteristics (20°C)	Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks			
	Impedance (Ω)	(1-100MHz)	100±15Ω	
		(100-250MHz)	100±18Ω	
		(250-1000MHz)	100±25Ω	
	Delay Skew (ns/100m)	≤25		
	Velocity of Propagation (%)	74		
	unbalanced-to-ground capacitance (pf/100m) max	330		
	DC Resistance (Ω/100m) max	9.38		
	DC Conductor Resistance Unbalance (%) max	2.0		

Technical Performance (100m) :				
Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns
1.0	20.0	—	78.0	570.0
4.0	23.0	3.74	78.0	552.0
8.0	24.5	5.24	78.0	546.7
10.0	25.0	5.86	78.0	545.4
16.0	25.0	7.41	78.0	543.0
20.0	25.0	8.29	78.0	542.0
25.0	24.3	9.29	78.0	541.2
31.25	23.6	10.41	78.0	540.4
62.5	21.5	14.88	75.5	538.6
100	20.1	19.02	72.4	537.6
150	18.9	23.56	69.8	536.9
200	18.0	27.47	67.9	536.5
250	17.3	30.97	66.4	536.3
300	17.3	34.19	65.2	536.1
600	17.3	50.10	60.7	535.5
700	14.2	54.63	59.7	535.4
1000	13.1	66.93	57.3	535.1

Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	75.0	78.0	75.0
4	75.0	78.0	75.0
8	75.0	75.9	72.9
10	75.0	74.0	71.0
16	75.0	69.9	66.9
20	75.0	68.0	65.0
25	75.0	66.0	63.0
31.25	75.0	64.1	61.1
62.5	72.5	58.1	55.1
100	69.4	54.0	51.0
150	66.8	50.2	47.2
200	64.9	48.0	45.0
250	63.4	46.0	43.0
300	62.2	44.5	41.5
600	57.7	38.4	35.4
700	56.7	37.1	34.1
1000	54.4	34.0	31.0