

## S/FTP 4Pairs cable-category 8.1-LSZH Sheath

Content of the Data Sheet

Customer No.		Customer Reference										
Category	S/FTP-CAT8.1-4P-LSZH-TC60(Dca)											
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	Al/Mylar	Drain wire	No									
Outer Screening Material	Tinned copper	Coverage	≥60%									
	Technical Performance (30m):											
Sheath	Thickness	0.55±0.05 mm							Frequency RL (MHz)	ATT ≤dB	NEXT ≥dB	PSNEXT ≥dB
	External O.D.	8.0±0.5 mm							1.0	19.0	3.0	65.0
	Surface	Clean							4.0	19.0	3.0	63.8
	Material	FR-LSZH(complies RoHS)							8.0	19.0	3.0	58.9
	Color	TBD		10.0	19.0	3.0	57.3					
Surface Printing	Letter height	3.0±0.3mm		16.0	18.0	3.0	53.9					
	Color	Black		20.0	17.5	3.0	52.3					
	Print error & Space	≤±0.5%, 1m		25.0	17.0	3.2	50.7					
				31.25	16.5	3.6	49.1					
Core Color	1 White/Blue	2 White/Orange		62.5	16.0	5.1	44.0					
	3 White/Green	4 White/Brown		100	16.0	6.5	40.5					
Packing	Drum			200	14.3	9.3	35.3					
Wooden Tray dimension	According to the requires			250	13.4	10.4	33.6					
				300	12.7	11.5	32.3					
Packing length	30±0.3m; 100±0.5m; 305±1.5m; 500±5m; 1000±10m			400	11.6	13.3	30.1					
				500	10.7	15.0	27.9					
Rip-cord	Yes			600	10.0	16.5	25.7					
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0		1000	8.0	22.0	19.3					
	Elongation (%)	≥125		1500	8.0	27.7	13.9					
	Aging Period (°C×hrs)	100°C×24h×7d		2000	8.0	32.7	9.8					
	After Aging Tensile Strength (Mpa)	≥8.0		Frequency ACR-F (MHz)	PS ACR-F ≥dB	ACR-N ≥dB	PS ACR-N ≥dB					
	Elongation (%)	≥100		1.0	65.0	62.0	60.0					
	Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks			4.0	59.9	56.9	60.8					
				8.0	53.9	50.9	55.9					
Electrical Characteristics (20°C)	Impedance(Ω) : 100±5Ω @100MHz			10.0	52.0	49.0	54.3					
	Delay Skew (ns/100m)	≤25		16.0	47.9	44.9	50.9					
	Velocity of Propagation (%)	78		20.0	45.9	42.9	49.3					
	unbalanced-to-ground capacitance (pf/100m) max	120		25.0	44.0	41.0	47.5					
	DC Resistance (Ω/100m) max	9.5		31.25	42.1	39.1	45.5					
	DC Conductor Resistance Unbalanc (%) max	2.0		62.5	36.0	33.0	38.9					
				100	32.0	29.0	34.0					

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