

S/FTP 4Pairs cable-category8.1-LSZH Sheath

P/N: LG2801-018

Content of the Data Sheet

Sheath Printing		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)		0.620	up	+0.01							down
Insulation		Material		Skin-foam-skin PE									
		Diameter		1.580±0.05 mm									
Inner Screening Material		Al/Mylar		Drain wire		No							
Outer Screening Material		Tinned copper		Coverage		≥60%							
Sheath		Thickness		0.55±0.05 mm				Technical Performance (30m):					
		External O.D.		8.4±0.5 mm				Frequency RL (MHz)		≥dB	ATT ≤dB	NEXT ≥dB	PSNEXT ≥dB
		Surface		Clean				1.0	19.0	3.0	65.0	62.0	
		Material		LSZH (complies RoHS) Dca				4.0	19.0	3.0	63.8	60.5	
		Color		TBD				8.0	19.0	3.0	58.9	55.6	
Surface Printing		Letter height		3.0±0.3mm				10.0	19.0	3.0	57.3	54.0	
		Color		Black				16.0	18.0	3.0	53.9	50.6	
		Print error & Space		≤±0.5%, 1m				20.0	17.5	3.0	52.3	49.0	
								25.0	17.0	3.2	50.7	47.3	
Core Color		1 White/Blue		2 White/Orange				31.25	16.5	3.6	49.1	45.7	
		3 White/Green		4 White/Brown				62.5	16.0	5.1	44.0	40.6	
Packing		Drum				100 16.0 6.5 40.5 37.1							
Wooden Tray dimension		According to the requires				200 14.3 9.3 35.3 31.9							
Packing length		30±0.3m; 50±0.3m; 100±0.5m				250 13.4 10.4 33.6 30.2							
Rip-cord		Yes				300 12.7 11.5 32.3 28.8							
Sheath Physical Properties		Before Aging Tensile Strength (Mpa)		≥10.0				Frequency ACR-F (MHz)		≥dB	PS ACR-F ≥dB	ACR-N ≥dB	PS ACR-N ≥dB
		Elongation (%)		≥125				1.0	65.0	62.0	62.0	59.0	
		Aging Period (℃×hrs)		100℃×24h×7d				4.0	59.9	56.9	60.8	57.5	
		After Aging Tensile Strength (Mpa)		≥8.0				8.0	53.9	50.9	55.9	52.6	
		Elongation (%)		≥100				10.0	52.0	49.0	54.3	51.0	
Electrical Characteristics (20℃)		Cold bend (-20±2℃×4h) 8×Cable O.D., No visible cracks						16.0	47.9	44.9	50.9	47.6	
		Impedance(Ω) :		100±5 Ω @100MHz				20.0	45.9	42.9	49.3	46.0	
		Delay Skew (ns/100m)		≤25				25.0	44.0	41.0	47.5	44.1	
		Velocity of Propagation (%)		72				31.25	42.1	39.1	45.5	42.1	
		unbalanced-to-ground capacitance (pf/100m) max		120				62.5	36.0	33.0	38.9	35.5	
		DC Resistance (Ω/100m) max		6.98				100	32.0	29.0	34.0	30.6	
		DC Conductor Resistance Unbalance (%) max		2.0				200	25.9	22.9	26.0	22.6	
		CPR fire class:Dca-s1,d2,a1						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: ANSI/TIA-568.2-D Channel cat8 ; ISO/IEC 11801 Channel Class I													
Version	A/03	Date	2024-11-28	Revised By	Hanjunkang	Audited By	Caihanglie	Approved By	Nidonghua				

Number	Revise Contents	Revise Reasons	Revised By	Audited By	Approved By	Date
A/01	Specification Version 1		Zhangkun	Yaoyunxiang	Nidonghua	Yunxiang.Yao
A/02	Specification Version 2		Caihanglie	Nidonghua	Nidonghua	2022-02-25
A/03	Specification Version 3		Hanjunkang	Caihanglie	Nidonghua	2024-11-28