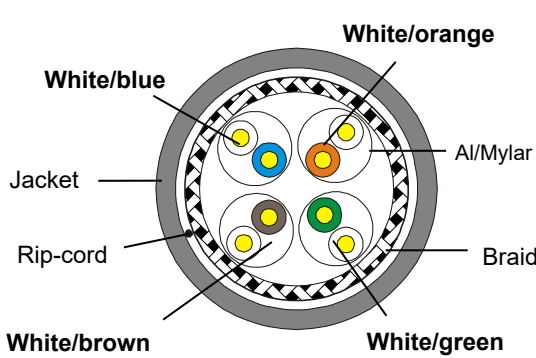


S/FTP 4Pairs cable-category7A-PVC Sheath

P/N: LG2701-002

Content of the Data Sheet

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Sheath Printing		TBD									
Customer No.			Customer Reference								
Category		S/FTP-CAT7A-4P-PVC-TC30									
Reference Standard		ISO/IEC 61156-5;EN 50288-9-1									
Conductor		Material		SOLID-Bare Copper							
		Nom.O.D.(mm)		0.560							up down
Insulation		Material		Skin-foam-skin PE							
		Diameter		1.330±0.05 mm							
Inner Screening Material		Al/Mylar		Drain wire		No					
Outer Screening Material		Tinned copper			Coverage		≥30%				
Sheath		Thickness		0.55±0.05 mm							
		External O.D.		7.6±0.5 mm							
		Surface		Clean							
		Material		PVC (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									
Wooden Tray dimension		According to the requires									
Packing length		305±1.0m									
Rip-cord		Yes									
Sheath Physical Properties		Before Aging		Tensile Strength (Mpa)		≥13.5					
				Elongation (%)		≥150					
		Aging Period (℃×hrs)		100℃×24h×7d							
		After Aging		Tensile Strength (Mpa)		≥12.5					
				Elongation (%)		≥125					
				Cold bend (-20±2℃×4h) 8×Cable O.D., No visible cracks							
Electrical Characteristics (20℃)		Impedance(Ω) : (1-100MHz) 100±15Ω (100-250MHz) 100±18Ω (250-1000MHz) 100±25Ω			Frequency RL ATT NEXT PHASE DELAY (MHz) ≥dB ≤dB ≥dB ≤ns						
					1.0 20.0 2.1 78.0 570.0						
					4.0 23.0 3.7 78.0 552.0						
					8.0 24.5 5.2 78.0 546.7						
		Delay Skew (ns/100m) ≤25			10.0 25.0 5.8 78.0 545.4						
					16.0 25.0 7.3 78.0 543.0						
					20.0 25.0 8.2 78.0 542.0						
					25.0 24.3 9.2 78.0 541.2						
					31.25 23.6 10.3 78.0 540.4						
Velocity of Propagation (%) 74			62.5 21.5 14.6 78.0 538.6								
			100 20.1 18.5 75.4 537.6								
			125 19.4 22.8 74.0 536.9								
			200 18.0 26.5 70.9 536.5								
unbalanced-to-ground capacitance (pf/100m) max 330			250 17.3 29.7 69.4 536.3								
			300 17.3 32.7 68.2 536.1								
			600 17.3 47.1 63.7 535.5								
			700 16.6 51.1 62.7 535.4								
DC Resistance (Ω/100m) max 9.38			1000 15.1 61.9 60.4 535.1								
			Frequency PSNEXT ELFEXT PSELFEXT (MHz) ≥dB ≥dB ≥dB								
DC Conductor Resistance Unbalanc (%) max 2.0		100±15Ω		1		75.0		78.0		75.0	
				4		75.0		78.0		75.0	
				8		75.0		78.0		75.0	
				10		75.0		78.0		75.0	
		100±18Ω		16		75.0		78.0		75.0	
				20		75.0		78.0		75.0	
				25		75.0		77.3		74.3	
				31.25		75.0		75.4		72.4	
100±25Ω		62.5		75.0		69.4		66.4			
		100		72.4		65.3		62.3			
		125		71.0		63.4		60.4			
		200		67.9		59.3		56.3			
≤25		250		66.4		57.3		54.3			
		300		65.2		55.8		52.8			
		600		60.7		49.7		46.7			
		700		59.7		48.4		45.4			
74		1000		57.4		45.3		42.3			
Note: It is recommended to limit the cable length to 50 m for a better accuracy in high frequencies.(IEC61156-5)											
Version	A/02	Date	2022-02-25	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua		

Number	Revise Contents	Revise Reasons	Revised By	Audited By	Approved By	Date
A/01	Specification Version 1		Caihanglie	Nidonghua	Nidonghua	2017-08-25
A/02	Specification Version 2		Caihanglie	Nidonghua	Nidonghua	2022-02-25