



# Structured Cable Products™

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**SCP PART#: CAT6A-F/FTP-LSZH-BL-B2**

UPC: 817777015294

Content of the Data Sheet										
Sheath Printing	STRUCTURED CABLE PRODUCTS --- CAT6A-F/FTP-LSZH-BL-B2 --- CATEGORY 6A LOW SMOKE ZERO HALOGEN - 10GBASE-T 600MHZ F/FTP ISO/IEC 11801 CLASS EA 4PR 23AWG SOL BC EN50575:2014 CE B2ca-s1,d1,a1 EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***M									
Customer No.		Customer Reference								
Category	F/FTP- CAT6A-4P-LSZH(B2ca)									
Reference Standard	ISO/IEC11801 、TIA-568-C.2									
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								
Screening Material	Al/Mylar	Drain wire	Yes							
Sheath	Thickness	0.65±0.1 mm			Technical Performance (100m):					
	External O.D.	7.6±0.5 mm			Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	
	Surface	Clean			1	20.0	—	74.3	570	
	Material	FR-LSZH(complies RoHS)			4.0	23.0	3.8	65.3	552	
	Color	Blue RAL5012			8.0	24.5	5.3	60.8	547	
Surface Printing	Letter height	3.0±0.3mm			10.0	25.0	5.9	59.3	545	
	Color	Black			16.0	25.0	7.5	56.2	543	
	Print error & Space	≤±0.5%, 1m			20.0	25.0	8.4	54.8	542	
Core Color	1 White/Blue	2 White/Orange			25.0	24.3	9.4	53.3	541	
	3 White/Green	4 White/Brown			31.25	23.6	10.5	51.9	540	
Packing	Drum	Dimension:			62.5	21.5	15.0	47.4	539	
Packing length	305M/1000FT	Weight: N.W 18.4kgs,G.W 19.90kgs.			100	20.1	19.1	44.3	538	
Rip-cord	Yes			200	18.0	27.6	39.8	537		
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥9.0		250	17.3	31.1	38.3	536	
		Elongation (%)	≥100		300	16.8	34.3	37.1	536	
	Aging Period (°C×hrs)	100°C×24h×7d			400	15.9	40.1	35.3	536	
	After Aging	Tensile Strength (Mpa)	≥8.0		500	15.2	45.3	33.8	536	
		Elongation (%)	≥70		Frequency (MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB		
	Cold bend (-20±2°C×4h) 15times cable O.D. No visible cracks			1	72.3	67.8	64.8			
Electrical Characteristics (20°C)	Impedance(Ω)	1.0-250.0MHz	100±15		4	63.3	55.8	52.8		
		250.0-500.0MHz	100±22		8	58.8	49.7	46.7		
	1.0-500.0MHz	Delay Skew (ns/100m)	≤45		10	57.3	47.8	44.8		
	Unbalanced-to-ground capacitance(pf/100m)max	330			16	54.2	43.7	40.7		
	DC Resistance (Ω/100m) max	9.38			20	52.8	41.8	38.8		
	DC Conductor Resistance Unbalance (%) max	5.0			25	51.3	39.8	36.8		
					31.25	49.9	37.9	34.9		
					62.5	45.4	31.9	28.9		
					100	42.3	27.8	24.8		
					200	37.8	21.8	18.8		
					250	36.3	19.8	16.8		
					300	35.1	18.3	15.3		
					400	33.3	15.8	12.8		
					500	31.8	13.8	10.8		
<b>Reaction to fire Classification: B2ca,s1,d1,a1</b>										
Version	A/01	Date	2018-01-18	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua	