

**SCP PART#: CAT7A-LSZH-BL-B2**

CAT7A - CLASS Fa- LOW SMOKE ZERO HALOGEN -10GBASE-T 1200 MHz 23AWG SOLID BC, 4PR, S/FTP, ISO/IEC 11801 CLASS Fa, EN50575:2014 B2ca-s1a,d1,a1, LSZH JKT- BLUE- 1000FT/305M SPOOL

Reference Standard	ISO/IEC 61156-5;EN 50288-4										
Conductor	Material	SOLID-Bare Copper									
	Insulation	Material	Skin-foam-skin PE								
	Diameter	1.350±0.05 mm									
Inner Screening Material	Al/Mylar	Drain wire	No								
Outer Screening Material	Tinned copper 0.10mm	Coverage	≥30%								
Sheath	Thickness	0.70±0.1 mm			Technical Performance (100m):						
	External O.D.	7.9±0.5 mm			Frequency (MHz)	RL R dB	ATT ≤dB	NEXT R dB	PHASE DELAY ≤ns		
	Surface	Clean			1.0	20.0	—	78.0	570.0		
	Material	FR-LSZH(complies RoHS)			4.0	23.0	3.74	78.0	552.0		
	Color	TBD			8.0	24.5	5.24	78.0	546.7		
Surface Printing	Letter height	3.0±0.3mm			10.0	25.0	5.86	78.0	545.4		
	Color	Black			16.0	25.0	7.41	78.0	543.0		
	Print error & Space	≤±0.5%S 1m			20.0	25.0	8.29	78.0	542.0		
					25.0	24.3	9.29	78.0	541.2		
Core Color	1 White/Blue	2 White/Orange			31.25	23.6	10.41	78.0	540.4		
	3 White/Green	4 White/Brown			62.5	21.5	14.88	75.5	538.6		
Packing	Wooden reel 38cmx38cmx24cm				100	20.1	19.02	72.4	537.6		
Weight	N.W 20.0kgs, G.W.21.60Kkgs.				150	18.9	23.56	69.8	536.9		
					200	18.0	27.47	67.9	536.5		
Packing length	305±1.0m				250	17.3	30.97	66.4	536.3		
Rip-cord	Yes				300	17.3	34.19	65.2	536.1		
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥10.0		600	17.3	50.10	60.7	535.5		
		Elongation (%)	≥125		700	14.2	54.63	59.7	535.4		
	Aging Period (P ×hrs)	100P ×24h×7d			1000	13.1	66.93	57.3	535.1		
	After Aging	Tensile Strength (Mpa)	≥8.0		*1200	13.1	68.36	59.2	535.0		
		Elongation (%)	≥100		Frequency (MHz)	PSNEXT R dB	ELFEXT R dB	PSELFEXT R dB			
Electrical Characteristics (20P)	Impedance(Ω) :	(1-100MHz)	100±15Ω		1	75.0	78.0	75.0			
		(100-250MHz)	100±18Ω		4	75.0	78.0	75.0			
		(250-1000MHz)	100±25Ω		8	75.0	75.9	72.9			
	Delay Skew (ns/100m)	≤25				10	75.0	74.0	71.0		
	Velocity of Propagation (%)	74				16	75.0	69.9	66.9		
	unbalanced-to-ground capacitance (pf/100m) max	330				20	75.0	68.0	65.0		
	DC Resistance (Ω/100m) max	9.38				25	75.0	66.0	63.0		
DC Conductor Resistance Unbalanc (%) max	2.0				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			
					*1200	56.2	33.7	30.7			
Reaction to fire Classification		B2ca,s1a,d1,a1		CPR Part no. :G2701-068		PoE IEEE 802.3bt Compliant					