

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

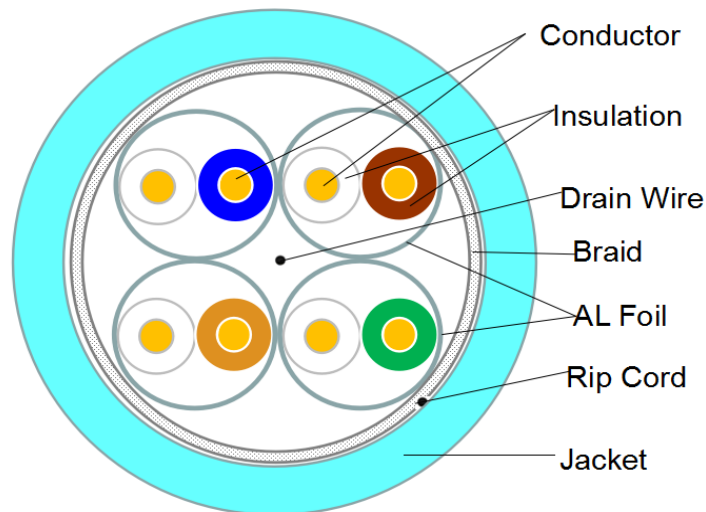
**Description:**

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

**Regulatory:**

ANSI/TIA 568.2-D and ISO/IEC 11801  
 EU RoHS 2011/65 EU Compliant  
 IEC 60332-1-2

**Application: Lan Cable**



**Construction Characteristics:**

Conductor	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.57+/-0.005mm
Insulation	Material	Skin-Foam-Skin PE
	Min.Thickness	0.350mm
	AVG.Thickness	0.360mm
	Diameter	1.35+/-0.1mm
	Colors	Light Blue/Blue Light Orange/Orange Light Green/Green Light Brown/Brown
Shield	Material	Aluminum Foil every pair
Drain Wire	Material	Tinned Copper
	Size	1/0.40TC
Braid	Material	Tinned copper
	Size	16x7/0.12 TC
Jacket	Material	LSZH
	Min.Thickness	0.54mm
	AVG.Thickness	0.60mm
	Diameter	7.50+/-0.20mm
	Rip Cord	Nylon
	Color	Ice Blue
Bend Radius		Min 20D/150mm

**Electrical & Physical Characteristics:**

Operating Temperature Range		- 20°C + 75°C	
Voltage Rating		Max 300Volts	
Conductor Resistance		Max 72.2ohm/km at 20°C	
Dielectric Strength		Min AC1.5KV	
Spark Test		5.0KV	
Insulation	Unaged	Tensile Strength	16.5Mpa
		Elongation	500%
	Aged	Tensile Strength	14.2Mpa(100°C 168h)
		Elongation	250%(100°C 168h)
Jacket	Unaged	Tensile Strength	11.3 Mpa
		Elongation	100%
	Aged	Tensile Strength	8.5Mpa(100°C 168h)
		Elongation	50%(100°C 168h)
DC Resitance Unbalance		Max 5%	
Pair-to-Ground Capacitance Unbalance		Max 3300pF/km	
Characteristic Impedance		100+/-15OHM	
Nominal Velocity of Propagation(%)		67~69	
Propagation Delay		Max 536ns/100m	
Delay Skew		Max 40ns/100m	

**Marking:**

STRUCTURED CABLE PRODUCTS --- CAT7A-LSZH --- CATEGORY 7A 10GBASE-T 1200MHZ S/FTP ISO/IEC 11801 CLASS FA 4PR 23AWG SOL BC - LSZH JKT EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 \*\*\*M

**Packaging:**

Approx.Weight	Approx.Dimension(mm)	Package	Packages per pallet
20.8kgs/45.856lbs	360X270X160	1000FT/305M Spool	36

### Performance-1

ITEM Frequency	Attenuation Max (dB/100m)		NEXT Min (dB)		PS NEXT Min (dB)		SKW(ns/100m)	
	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
4	3.75	3.4	96.37	95.31	75	96.83	25	16.84
8	5.22	4.73	91.85	97.6	75	99.35	25	16.66
10	5.82	5.29	90.4	103.22	75	102.32	25	16.62
16	7.34	6.8	87.34	92.77	75	100.57	25	16.54
20	8.21	7.72	85.88	92.99	75	103.41	25	16.51
25	9.18	8.66	84.43	103.26	75	97.3	25	16.48
31.25	10.26	9.66	82.98	98.09	75	100.31	25	16.45
50	13.01	12.22	79.92	98.69	75	100.55	25	16.41
62.5	14.57	13.75	78.46	90.66	75	100.89	25	16.39
100	18.52	17.35	75.4	92.02	72.4	101.12	25	16.36
125	20.77	19.49	73.95	89.96	70.95	96	25	16.34
200	26.47	24.74	72.55	84.37	67.88	98.37	25	16.32
250	29.73	27.73	70.88	88.43	66.43	91.56	25	16.31
300	32.69	30.51	69.43	82.64	65.24	90.75	25	16.31
350	35.44	33.03	68.24	76.06	64.24	94.8	25	16.3
400	38.01	35.44	67.24	72.47	63.37	90.61	25	16.3
450	40.45	37.65	66.37	76.58	62.6	91.33	25	16.29
500	42.76	39.61	65.6	81.43	61.92	89.94	25	16.29
550	44.97	41.58	64.92	77.65	61.29	85.26	25	16.29
600	47.1	43.59	63.73	72.8	60.73	98.56	25	16.29
650	49.15	44.27	63.2	92	60.21	89.49	25	15.75
700	51.13	45.85	62.7	83.7	59.72	83.47	25	15.75
750	53.05	47.76	62.3	89.9	59.27	88.2	25	15.75
800	54.92	49.55	61.9	83.5	58.85	82.73	25	15.74
900	58.51	52.45	61.1	80.7	58.09	79.5	25	15.74
1000	61.93	55.49	60.4	86.1	57.4	83.76	25	15.74

### Performance-2

ITEM Frequency	RL Min (dB)		ELFEXT Min (dB)		PS ELFEXT Min (dB)		Vop%	
	Standard	Typical	Standard	Typical	Standard	Typical	Standard	Typical
4	23.01	28.29	78	93.64	75	93.6	70	72.4
8	24.52	39.02	77.24	107.38	74.2	92.4	70	73.24
10	25	37.65	75.3	102.12	72.3	91	70	73.46
16	25	36.77	71.22	96.07	68.2	93.4	70	73.85
20	25	38.08	69.28	96.57	66.3	87.6	70	74
25	24.32	38.1	67.34	92.83	64.3	88.4	70	74.14
31.25	23.64	37.94	65.4	95.67	62.4	88.9	70	74.27
50	22.21	39.05	61.32	98.97	58.3	76.2	70	74.5
62.5	21.54	41.56	59.38	94.86	56.4	74.2	70	74.59
100	20.11	38.51	55.3	87.34	52.3	67.3	70	74.75
125	19.43	38.5	53.36	89.19	50.4	66.8	70	74.81
200	18	28.94	49.28	74.38	46.3	65.7	70	74.92
250	17.32	30.12	47.34	74.22	44.3	59.8	70	74.97
300	17.3	33.96	45.76	73.38	42.8	59.2	70	75
350	17.3	34.55	44.42	78.21	41.4	60.5	70	75.03
400	17.3	27.96	43.26	82.03	40.3	57.5	70	75.05
450	17.3	28.69	42.24	73.78	39.2	51.6	70	75.07
500	17.3	26.38	41.32	64.45	38.3	47.6	70	75.08
550	17.3	26.19	40.49	72.9	37.5	46.5	70	75.09
600	17.3	23.54	39.74	57.47	36.7	47.3	70	75.11
650	17	26.8	39	54.5	36	43.2	70	74.59
700	16.6	26.3	38.4	54.2	35.4	43.6	70	74.75
750	16.3	25.8	37.8	53.4	34.8	44.5	70	74.81
800	16.1	26.9	37.2	51.4	34.2	40.2	70	74.92
900	15.5	25	36.2	50.2	33.2	38.2	70	74.97
1000	15.1	24.8	35.3	45.2	32.3	37.6	70	75.11