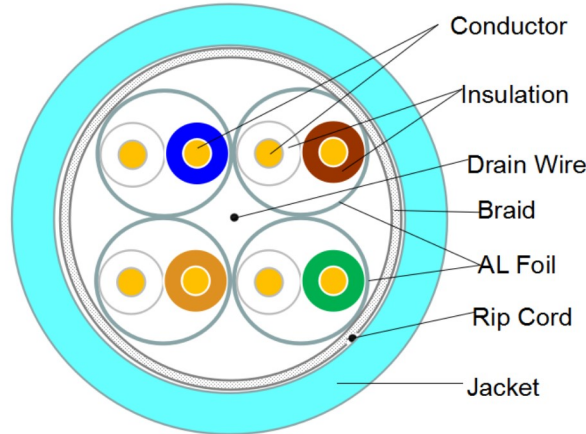




**SCP PART#: CAT7A-XX**

CAT7A - 10GBaseT 1200 MHz 23AWG Solid BC, 4PR, S/FTP, ANSI/TIA 568.2-D, ISO/IEC 11801 Class Fa, IEEE 802.3bt, UL CMR, Jacket -1000FT/305M Spool



**Regulatory**

TIA/EIA 568-2.D and ISO/IEC 11801 Class Fa  
EU RoHS 2011/65 EU Compliant  
PoE: IEEE 802.3bt

<b>Part Number:</b>	<b>Jacket Color:</b>
CAT7A-BL	Blue
CAT7A-WT	White

**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+/-0.01mm
	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	16x4/0.12 TC
Jacket	Material	PVC
	Min.Thickness	0.54mm
	AVG.Thickness	0.60mm
	Diameter	7.50+/-0.20mm
	Rip Cord	Nylon
	Color	according customer request
Bend radius	Min 20D/150mm	

## Electrical & Physical Characteristics:

Operating Temperature Range	- 20°C + 75°C
Minimum installation temperature	0°C + 40°C
Conductor Resistance	Max 72.2ohm/km at 20°C
Dielectric Strength	Min AC1.5KV
Spark Test	5.0KV
Rated Voltage	Max 300Volts
DC Resisitance 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 --- CAT7A UTP ENHANCED 10GBASE-T 1200MHZ  
S/FTP ANSI/TIA 568.2-D ISO/IEC 11801 CLASS Fa-----E198134 SCP3 (UL) C(UL) CMR 4PR 23AWG  
SOL BC-----IEEE802.3bt TYPE 1-4 PVC JKT FT4 75C EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3  
4 5 6 7 8 9 \*\*\*FEET DDDMMYY

### Packaging:

Approx.Weight	Approx.Dimension(mm)	Package	Packages per pallet
20.8kgs/45.856lbs	360X270X160	1000FT/305M Spool	27

## 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