

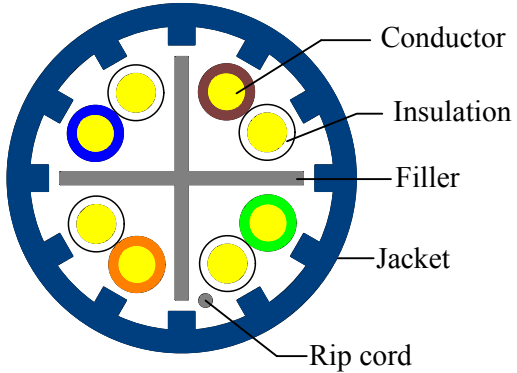


REV.	DESCRIPTION	DATE
A		01-2018

**Product Specifications**

**Construction & Material :**

Item		Specification	
Product		CAT-6A UTP 4P CMP Rated	
Conductor	Size	23 AWG	
	Number	4 Pairs	
	Material	Solid Bare Copper	
Insulation	Material	FEP	
	Color code & diameter	Blue & white/blue Stripe	1.12 ± 0.02 mm
		Orange & white/orange stripe	1.06 ± 0.02 mm
		Green & white/green stripe	1.10 ± 0.02 mm
		Brown & white/brown stripe	1.06 ± 0.02 mm
Twisting	Description	Left hand direction	
Filler	Material	Fluorinated Ethylene Propylene (FEP)	
Assembly	Description	Left hand direction	
Rip cord	Material	Polyester multi-yarn	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSFRPVC)	
	Min.thickness	0.90 mm	
	Avg.thickness	1.10 mm	
	Overall Diameter	8.1 ± 0.2 mm	
	Color	By Order	
Marking	ELITE 10GS CAT 6A --- Exxxxxx UTP 4PR 23AWG CMP(PCC-FT6) C(UL)US --- ETL VERIFIED TO TIA-568-C.2 CAT 6A mmyy <sup>1</sup> RoHS COMPLIANT XXXXFT		



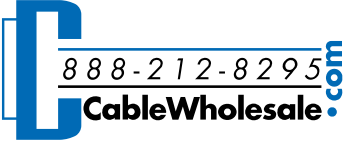
**Color Options**

- 21 Gray
- 22 Black
- 31 Orange
- 41 Purple
- 51 Green
- 61 Blue
- 71 Red
- 72 Pink
- 81 Yellow
- 91 White

DRAWER	JL
CHECKED	
APPROVED	

Note 1: mmyy is date code.

ID(NO.)	PART NUMBER	TITLE
97	14X6-0xxNH	Plenum Bulk Cat6a Ethernet Cable, Solid, CMP, UTP (Unshielded Twisted Pair), 23 AWG, Spool, 1000 foot



Electrical Property :

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Item	Unit	Standard
Conductor D-C Resistance	Ohms/100m	Max. 9.38
D-C Resistance Unbalance	%	Max.5
Mutual Capacitance	nF/100m	Max 5.6
Pair to Ground Unbalance	pF/100m	Max.330
Dielectric strength	AC for 2 s	1.5 KV
Temperature & voltage rating	-----	75°C / 300V



Applicable Standard

Electrical Transmission

- ANSI/TIA-568-C.2 (2009)
- ISO/IEC 11801 (Edition 2.2)
- IEC 61156-5 (Edition 2.0)

Flame Test

- NFPA 262 (CMP)

Material and Construction

- UL 444
- CSA 22.2 NO.214

EU Directive 2011/65/EC (RoHS2)

EU Directive 2006/95/EC (LVD)

CE compliance date: 2010.01.01

Frequency	Insertion	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS-ACRF	Return Loss	Propagation Delay	Delay Skew	PS ANEXT	PS AACRF
MHz	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	ns/100m	ns/100m	dB/100m	dB/100m
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.	Max.	Max.	Min.	Min.
1	2.08	74.30	72.30	72.22	70.22	67.80	64.80	20.00	570.00	45.00	67.00	67.00
4	3.80	65.27	63.27	61.47	59.47	55.76	52.76	23.01	552.00		67.00	66.16
8	5.31	60.75	58.75	55.44	53.44	49.74	46.74	24.52	546.73		67.00	60.14
10	5.93	59.30	57.30	53.37	51.37	47.80	44.80	25.00	545.38		67.00	58.20
16	7.49	56.24	54.24	48.75	46.75	43.72	40.72	25.00	543.00		67.00	54.12
20	8.38	54.78	52.78	46.41	44.41	41.78	38.78	25.00	542.05		67.00	52.18
25	9.38	53.33	51.33	43.95	41.95	39.84	36.84	24.32	541.20		67.00	50.24
31.25	10.50	51.88	49.88	41.37	39.37	37.90	34.90	23.64	540.44		67.00	48.30
62.5	14.99	47.36	45.36	32.37	30.37	31.88	28.88	21.54	538.55		65.56	42.28
100	19.14	44.30	42.30	25.17	23.17	27.80	24.80	20.11	537.60		62.50	38.20
150	23.68	41.66	39.66	17.98	15.98	24.28	21.28	18.87	536.94		59.86	34.68
200	27.58	39.78	37.78	12.21	10.21	21.78	18.78	18.00	536.55		57.98	32.18
250	31.07	38.33	36.33	7.26	5.26	19.84	16.84	17.32	536.28		56.53	30.24
300	34.27	37.14	35.14	2.88	0.88	18.26	15.26	16.77	536.08		55.34	28.66
350	37.25	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92		54.34	27.32
400	40.05	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80		53.47	26.16
450	42.71	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70		52.70	25.14
500	45.26	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61		52.02	24.22
550	47.70	33.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535.54		51.39	23.39
600	50.05	32.63	30.63	N.A.	N.A.	12.24	9.24	14.66	535.47		50.83	22.64
650	52.33	32.11	30.11	N.A.	N.A.	11.54	8.54	14.42	535.41	50.31	21.94	

Values above 500MHz are for information only.

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