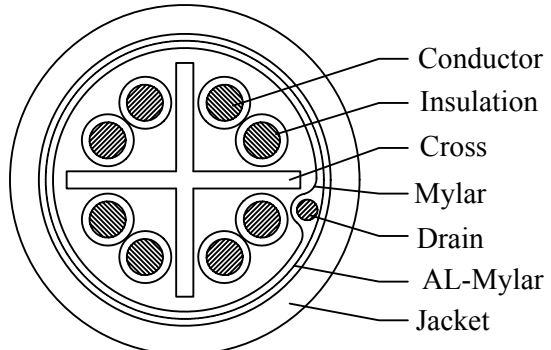


REV.	DESCRIPTION	DATE
A		01-2017

Construction & Material :

Item		Unit	Specification	
Product			CAT.6A FTP 4P CMR Rated	
Conductor	Size	AWG	23	
	Number	pairs	4	
	Material		Solid Bare Copper	
Insulation	Material		Polyolefin (PO)	
	Color code & Diameter	mm	Blue-White/Blue Stripe	1.15±0.02mm
		mm	Orange-White/Orange Stripe	1.11±0.02mm
		mm	Green-White/Green Stripe	1.15±0.02mm
		mm	Brown-White/Brown Stripe	1.11±0.02mm
Twisted	Description		Left hand direction	
Cross	Material		Polyolefin (PO)	
Assembly	Description		Left hand direction	
Shielding	Material		Mylar	
Drain Wire	Material		24AWG Solid Tinned Copper	
	Description		100% Coverage and Mylar Side Facing out	
Shielding	Material		AL-Mylar	
	Description		100% Coverage and Mylar Side Facing out	
	Material		Flame Retardant Polyvinyl Chloride(FRPVC)	
	Avg.thickness	mm	0.55±0.05	
Jacket	Overall Diameter	mm	7.60±0.20	
	Color		By Order	
	Marking	ELITE 10GS CAT 6A --- Exxxxxx FTP 4PR 23AWG CMR C(UL)US --- ETL VERIFIED TO TIA-568-C.2 CAT 6A mmyy ¹ RoHS COMPLIANT XXXXFT		
	<u>Note 1: mmyy is date code</u>			



Sectional Drawing

Color Options

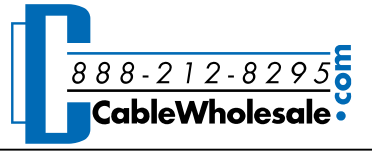
- 21 Gray
- 22 Black
- 31 Orange
- 41 Purple
- 51 Green
- 61 Blue
- 71 Red
- 72 Pink
- 81 Yellow
- 91 White



DRAWER	JL
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SHEET
3 OF 1

ID(NO.)	PART NUMBER	TITLE
97	13X6-5xxnNH	Bulk Shielded Cat6a Ethernet Cable, 10 gig Solid, UTP (Unshielded Twisted Pair), 500Mhz, 23 AWG, Spool, 1000 foot



REV.	DESCRIPTION	DATE
A		01-2017

RoHS

Physical & Electrical Characteristics (at 20°C)

Temperature & voltage rating	75°C /300V
Spark test	2.5 KV DC
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4hr
Conductor DC resistance	≤ 9.38 ohm/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV an for 2s
Insulation resistance	≥ 5000 Mohm.m
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

Applicable Standard

Electrical Transmission



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

Flame Test

- UL 1666 (CMR)

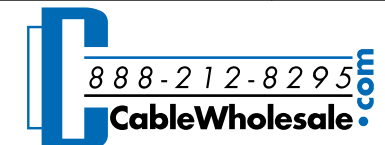
Material and Construction

- UL 444
- CSA 22.2 NO.214

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SHEET
3 OF 2

ID(NO.)	PART NUMBER	TITLE
97	13X6-5xxnNH	Bulk Shielded Cat6a Ethernet Cable, 10 gig Solid, UTP (Unshielded Twisted Pair), 500Mhz, 23 AWG, Spool, 1000 foot



REV.	DESCRIPTION	DATE
A		01-2017

Transmission Performance(at 20°C)

Frequency MHz	IL	NEXT	PS. NEXT	ACR	PS. ACR	ACRF	PS. ACRF	RL	Propagation Delay	Delay Skew	PS. ANEXT	PS. AACRF
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. dB/100m	Max. dB/100m	Min. dB/100m	Min. dB/100m
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	54.24	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	32.27	30.27	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	12.22	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		65.53	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	



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Values above 500MHz are for information only

SHEET	ID(NO.)	PART NUMBER	TITLE
	97	13X6-5xxnNH	Bulk Shielded Cat6a Ethernet Cable, 10 gig Solid, UTP (Unshielded Twisted Pair), 500Mhz, 23 AWG, Spool, 1000 foot
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