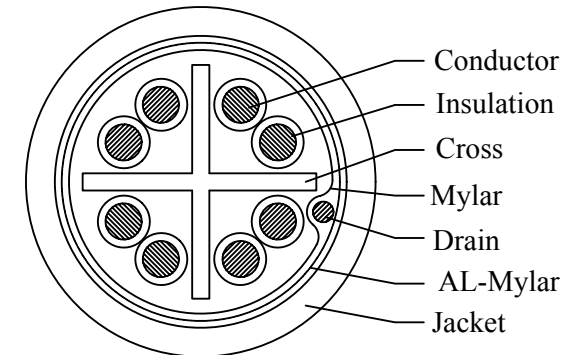


REV.	DESCRIPTION	DATE
A		01-2017

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		
Shielding	Material		AL-Mylar		
	Description		100% Coverage and Mylar Side Facing out		
Jacket	Material		Flame Retardant Polyvinyl Chloride(FRPVC)		
	Avg.thickness	mm	0.55±0.05		
	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 Note 1: mmyy is date code				



[Sectional Drawing](#)

Color Options

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

RoHS

DRAWER	JL
CHECKED	
APPROVED	

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

SHEET

3 OF 1



REV.	DESCRIPTION	DATE
A		01-2017

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

DRAWER	JL
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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 Max. dB/100m	NEXT Min. dB/100m	PS. NEXT Min. dB/100m	ACR Min. dB/100m	PS. ACR Min. dB/100m	ACRF Min. dB/100m	PS. ACRF Min. dB/100m	RL Min. dB/100m	Propagation Delay Max. dB/100m	Delay Skew Max. dB/100m	PS. ANEXT Min. dB/100m	PS. AACRF 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

RoHS

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CHECKED	
APPROVED	
	

Values above 500MHz are for information only

SHEET	ID(NO.)	PART NUMBER	TITLE
3 OF 3	97	13X6-5xxnNH	Bulk Shielded Cat6a Ethernet Cable, 10 gig Solid, UTP (Unshielded Twisted Pair), 500Mhz, 23 AWG, Spool, 1000 foot