

Product Specifications

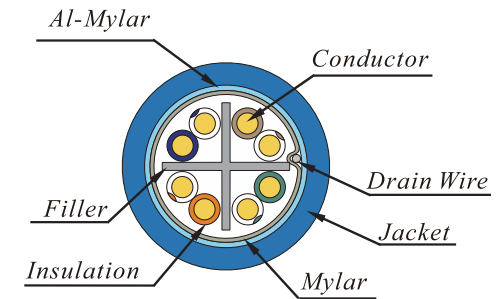
Construction & Material :

Item		Specification	
Product		CAT-6A FTP 4P CMP Rated	
Conductor	Size	23 AWG	
	Number	4 Pairs	
	Material	Solid Bare Annealed Copper	
Insulation	Material	FEP	
	Color Code & Diameter	Blue & White/Blue Stripe	1.09 ± 0.02 mm
		Orange & White/Orange stripe	1.02 ± 0.02 mm
		Green & White/Green stripe	1.08 ± 0.02 mm
		Brown & White/Brown stripe	1.02 ± 0.02 mm
Twisting	Description	Left hand direction	
Filler	Material	FEP	
Assembly	Description	Left hand direction	
Shield	Material	Mylar Tape	
Drain Wire	Material	26AWG Solid Tinned Copper	
Shield	Material	AL- Mylar	
	Description	Polyester-backed aluminum foil (aluminum side in)	
Jacket	Material	LSFR-PVC	
	Thickness	0.55±0.05 mm	
	Overall Diameter	7.60 ± 0.2 mm	
	Color	By Order	
Marking	ELITE 10GS CAT 6A --- E142890 FTP 4PR 23AWG 90°C C(UL)US CMP-LP (0.6A) (PCC-FT6) --- ETL VERIFIED TO TIA-568.2-D CAT 6A mmyy' RoHS COMPLIANT XXXXFT		

Note 1: mmyy is date code.

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CROSS-SECTION

Color Options

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



Item Number:	14X6-5xxNH	
Title:	Plenum Shielded Cat6a Bulk Ethernet Cable Solid, CMP, 23 AWG, Spool, 1000 foot	
Drawn by:	JL	
Approved by:	MAC	
ID:	97	

Electrical Property :

Item		Unit	Specification	Standard					
D-C Resistance		Ohm/100M	AT 20°C	9.38					
D-C Resistance Unbalance		%	-----	4.00					
Delay Skew (Max)		ns/100M	-----	45					
Characteristic Impedance		Ohm/100M	-----	100±15					
Nom. Velocity of Propagation		% Speed of Light	-----	70					
Dielectric Strength		AC / 2 Sec.	1500V	NO Breakdown					
Frequency	Insertion	NEXT	PS-NEXT	ACR	PS-ACR	ACRF	PS-ACRF	Return Loss	Propagation Delay
MHz	dB/100m Max.	dB/100m Min.	dB/100m Min.	dB/100m Min.	dB/100m Min.	dB/100m Min.	dB/100m Min.	dB/100m Min.	ns/100m Max.
1	2.08	74.30	72.30	72.22	70.22	6780	64.80	20.00	570.00
4	3.80	65.27	63.27	61.47	59.47	55.76	52.76	23.01	552.00
8	5.31	60.75	58.75	55.44	53.44	49.74	46.74	24.52	546.73
10	5.93	59.30	57.30	53.37	51.37	47.80	44.80	25.00	545.38
16	7.49	56.24	54.24	48.75	46.75	43.72	40.72	25.00	543.00
20	8.38	54.78	52.78	46.41	44.41	41.78	38.78	25.00	542.05
25	9.38	53.33	51.33	43.95	41.95	39.84	36.84	24.32	541.20
31.25	10.50	51.88	49.88	41.37	39.37	37.90	34.90	23.64	540.44
62.5	14.99	47.36	45.36	32.37	30.37	31.88	28.88	21.54	538.55
100	19.14	44.30	42.30	25.17	23.17	27.80	24.80	20.11	537.60
150	23.68	41.66	39.66	17.98	15.98	24.28	21.28	18.87	536.94
200	27.58	39.78	37.78	12.21	10.21	21.78	18.78	18.00	536.55
250	31.07	38.33	36.33	7.26	5.26	19.84	16.84	17.32	536.28
300	34.27	37.14	35.14	2.88	0.88	18.26	15.26	16.77	536.08
350	37.25	36.14	34.14	N.A.	N.A.	16.92	13.92	16.30	535.92
400	40.05	35.27	33.27	N.A.	N.A.	15.76	12.76	15.89	535.80
450	42.71	34.50	32.50	N.A.	N.A.	14.74	11.74	15.53	535.70
500	45.26	33.82	31.82	N.A.	N.A.	13.82	10.82	15.21	535.61
550	47.70	33.19	31.19	N.A.	N.A.	12.99	9.99	14.92	535.54
600	50.05	32.63	30.63	N.A.	N.A.	12.24	9.24	14.66	535.47
650	52.33	32.11	30.11	N.A.	N.A.	11.54	8.54	14.42	535.41
660	52.77	32.01	30.01	N.A.	N.A.	11.41	8.41	14.37	535.40

Values above 500MHz are for information only.



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PHYSICAL CHARACTERISTICS

Nominal Cable Diameter (mm)	6.9
Nominal Cable Weight (kg/1000 ft)	17.59
Minimum Bend Radius	≥ 8 times O.D.
Maximum Pulling Force	≤ 110 N
Temperature Rating (°C):	
Storage & shipping	-20°C to 75°C
Installation	0 to +60
Operation	-20 to +60

APPLICATION

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- Overall metal shielded providing good protection from EMI noise.
- IEEE 802.3an 10GBASE-T and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

STANDARD COMPLIANCES

- ANSI/TIA-568.2-D (2018)
- ISO/IEC 11801-1
- IEC 61156-5 (Edition 2.1)
- NFPA 262 (CMP)
- UL 444
- UL 444 LP-Rating 0.5A & 0.6A
- CSA 22.2 NO.214
- EU Directive 2011/65/EU (RoHS2)
- EU Directive 2006/95/EC (LVD)

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