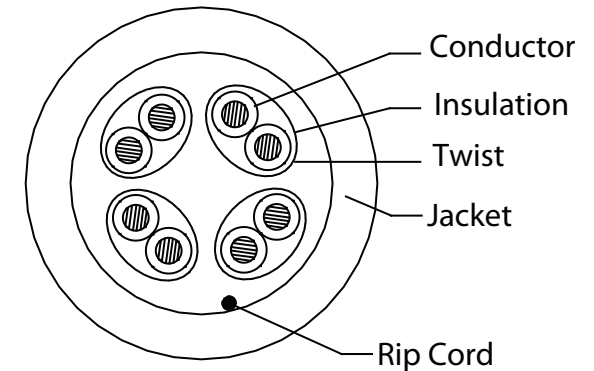


Rev.	Description	Date
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Construction & Material :

Item	Unit	Specification
Product		CAT6 UTP 4P CMP Rated
Conductor	Size	AWG 23
	Number	pairs 4
	Material	Solid Annealed Bare Copper
Insulation	Material	Polymer Alloy(FEP)
	Avg.thickness	mm 0.22
	Diameter	mm 0.94±0.05
	Color	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Twisting	Construction	See Cross Section
Rip Cord	Construction	Yes
Jacket	Material	Flame Retardant PVC
	Avg.thickness	mm 0.58
	Overall Diameter	mm 5.80±0.20
	Color	By Order
Marking	EXXXXXX CATEGORY 6 550MHZ 23AWG 4 PR UTP CMP-LP (0.6A) 105C C(UL)US VERIFIED (ETL) CAT6 ANSI/TIA-568-C.2 ****FT	
Nominal Weight	25 lbs.	

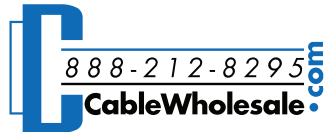
Cross Section



Color Options

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



Item Number:	11X8-0xxTH	
Title:	Plenum Cat6 Bulk Cable, Solid, UTP (Unshielded Twisted Pair), CMP, 23 AWG, Pullbox, UL listed, 1000 foot	
Drawn by:	JL	
Approved by:	MAC	
ID:	125	

No.	Specifications
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Electrical Property :

Item	Unit	Specification	Standard					
D-C Conductor Resistance	Ohms/100 M	AT 20°C	Max 9.38					
D-C Resistance Unbalance	%	----	Max.5					
Capacitance Unbalance	pF/100 M	----	Max.330					
Characteristic Impedance 1.0-350.0 MHz	Ohms/100 M	----	100 ± 15					
Mutual Capacitance	nF / 100 M	----	5.6					
Delay Skew	nS / 100 M	----	40					
NVP Nominal Velocity Propagation		----	0.7					
Frequency	Attenuation	Return Loss	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
MHz	dB(100m)	dB	dB	dB	dB	dB	dB	dB
	Maximum	Minimum	Minimum	Minimum	Maximum	Minimum	Minimum	Minimum
1.0	2.0	20.0	74.3	75.3	67.80	64.80	72.8	69.8
4.0	3.8	23.0	65.3	66.3	55.76	52.76	60.8	57.8
8.0	5.3	24.5	60.8	61.8	49.74	46.74	52.8	56.24
10.0	6.0	25.0	59.3	60.3	47.80	44.80	47.7	49.8
16.0	7.6	25.0	56.2	57.3	43.72	40.72	48.7	45.7
20.0	8.5	25.0	54.8	55.8	41.78	38.78	46.8	43.8
25.0	9.5	24.3	53.3	54.3	39.84	36.84	45.33	41.55
31.25	10.7	23.6	51.9	52.9	37.90	34.90	46.9	39.9
62.5	15.4	21.5	47.4	48.4	31.88	28.88	36.9	33.9
100	19.8	20.1	44.3	45.3	27.80	24.80	32.80	29.8
155	23.9	21.6	43.2	43.5	26.50	22.25	29.0	26.0
200	29.0	18.0	39.8	40.8	21.78	18.78	26.8	23.8
250	32.8	17.3	38.3	39.3	18.84	16.84	24.8	21.8
300	36.4	16.8	38.9	38.2	18.26	15.26	23.85	20.76
350	37.0	19.8	39.2	37.2	17.25	14.75	21.9	18.9
400	43.0	15.9	38.3	36.3	15.76	12.76	20.55	17.10
450	42.1	15.2	37.5	35.5	14.80	11.30	19.25	16.29
500	44.9	15.0	36.8	34.8	13.82	10.82	18.8	15.80
550	47.3	14.8	36.2	34.2	12.75	9.85	18.0	16.10

Values above 250MHz are information only

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Applicable Standards

- UL444 Listed Type CMP
- cUL listed CMP FT6
- C(UL)US Verified to ANSI/TIA-568-C.2 & ISO/IEC 11801
- PoE IEEE 802.bt Type 3,4 Application
- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4
- 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)
- 16 Mbps Token Ring™ (IEEE 802.5)

Mechanical Characteristics

Temperature Rating	Installation	0°C to +60°C
	Operating	-20°C to +105°C
Tensile Strength	Before	≥ 13.8 Mpa
Elongation	Aging	≥ 100%
Aging Condition		100°C x 168 hours
	After	≥ 85% of unaged
	Aging	≥ 50% of unaged

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