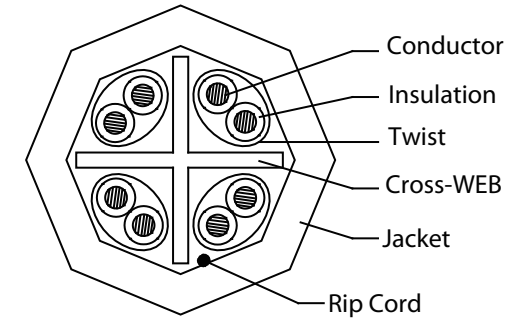


Construction & Material :

Item	Unit	Specification
Product		CAT-6 UTP 4P CM Rated
Conductor	Size	AWG 23
	Number	pairs 4
	Material	Solid Annealed Bare Copper
Insulation	Material	HD-PE
	Avg.thickness	mm 0.22
	Diameter	mm 1.02±0.05
	Color	Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Twisting	Construction	See Cross Section
Cross	Material	PE
Cabling	Construction	See Cross Section
Rip Cord	Construction	Yes
Jacket	Material	Flame Retardant PVC
	Avg.thickness	mm 0.58
	Overall Diameter	mm 6.20±0.20
	Color	By Order
Marking	CATEGORY 6E 600MHZ 23AWG 4 PR UTP XXXXXX CMR C(ETL)US FT4 ETL LISTED & VERIFIED TO TIA-568-C.2 ****FT	
Nominal Weight	30 lbs.	

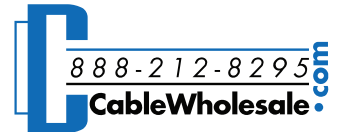
Rev.	Description	Date
A		01-2021



Cross Section

RoHS

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

Item Number:	10X8-0xxTH	
Title:	Bulk Cat6 Purple Ethernet Cable, Solid, UTP (Unshielded Twisted Pair), Pullbox, 1000 foot	
Drawn by:	JL	
Approved by:	MAC	
ID:	125	

No.	Specifications
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Rev.	Description	Date
A		01-2021

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	-----	Max.40					
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	77.3	75.3	70.8	67.8	75.0	73.0
4.0	3.8	23.6	68.3	66.3	58.7	55.7	64.0	62.0
8.0	5.3	25.4	63.8	61.8	52.7	49.7	57.7	55.7
10.0	5.9	26.0	62.3	60.3	50.8	47.8	55.6	53.6
16.0	7.4	26.0	59.3	57.3	46.7	43.7	50.7	48.7
20.0	8.3	26.0	57.8	55.8	44.7	41.7	48.2	16.2
25.0	9.3	25.5	56.3	54.3	42.8	39.8	45.6	13.6
31.25	10.4	25.0	54.9	52.9	40.9	37.9	42.8	40.8
62.5	14.9	23.5	50.4	48.4	34.8	31.8	32.9	30.9
100	19.0	22.5	47.3	45.3	30.8	27.8	24.9	22.9
155	23.9	21.6	45.8	43.5	27.0	23.6	21.0	21.5
200	27.4	21.0	42.8	40.8	24.7	21.7	18.4	16.4
250	30.8	20.5	41.3	39.3	22.8	19.8	13.5	11.5
300	34.0	20.1	40.2	38.2	21.2	18.2	9.6	5.0
350	37.0	19.8	39.2	37.2	19.9	16.9	5.2	3.2
400	39.7	19.5	38.3	36.6	18.7	15.7	1.5	-
450	42.1	19.2	37.5	35.5	17.7	14.7	-	-
500	44.9	19.0	36.8	34.8	16.8	13.8	-	-
550	47.3	18.6	36.2	34.2	15.9	12.9	-	-
600	54.5	18.8	37.6	35.6	15.9	12.9	17.2	14.2

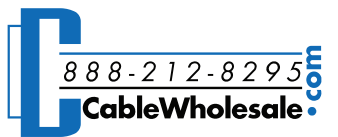


Mechanical Characteristics

Temperature Rating	Installation	0°C to +60°C
	Operating	-20°C to +75°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

Applicable Standards

- UTP CAT6, 23 AWG 4 Pair w/HDPE Insulation & Flame-Retardant PVC Jacket
- ETL Listed Type CMR
- C(ETL) listed CMG FT4
- TIA/EIA-568-C.2, UL 1666 CMR RATED
- RoHS Compliant
- 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)

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