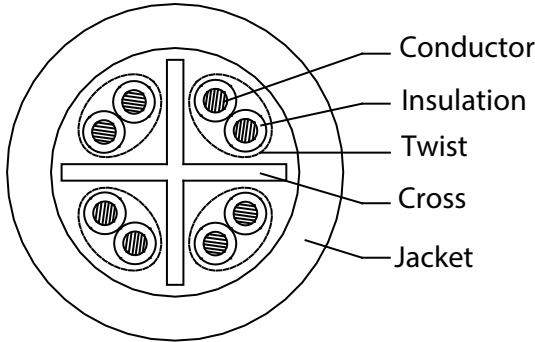


Rev.	Description	Date
A		06-2023

Construction & Material :

Item	Unit	Specification
Product		CAT6 UTP 4P CMR Rated
Conductor	Size	AWG 1/0.55±0.01 23AWG
	Number	pairs 4
	Material	Solid Annealed Bare Copper
Insulation	Material	HDPE
	Avg.thickness	mm 0.19
	Min.thickness	mm 0.18
	Diameter	mm 0.95±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
Jacket	Material	PVC
	Avg.thickness	mm 0.55
	Min.thickness	mm 0.45
	Overall Diameter	mm 6.20±0.20
	Color	By Order
Marking	COMZON® ExxxxxB TYPE CM 4P 23AWG 75°C c(UL)us ETL VERIFIED ANSI/TIA-568.2-D CAT.6 UTP XXXXMM xxxxFt Note 1: XXXX / Year , MM/ Month Note 2: Color / Inkjet (Black / White) ; (Other Color / Black)	

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



Cross Sectio

Item Number:	10X8-0xxTH	
Title:	COMZON® Bulk Cat6 Ethernet Cable, Solid, UTP (Unshielded Twisted Pair), CM, Pullbox, 1000 foot	
Drawn by:	JL	
Approved by:	MAC	
ID:	85	

No.	Specifications
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1.Standard : UL444、ANSI/TIA-568.2-D
 2.Application : LAN Cable Are Suitable for perfect AUDIO DATA
 and VIDEO of transfer for Local Area Network

Rev.	Description	Date
A		06-2023

Electrical Property :

Frequency	Attenuation	Return Loss	NEXT	PS-NEXT	ACRF	PSACRF	Propagation Delay	Delay Skew
MHz	dB(100m)	dB(100m)	dB(100m)	dB(100m)	dB(100m)	dB(100m)	ns(100m)	ns(100m)
	Max	Min	Min	Min	Min	Min	Max	Max
1	20.0	2.0	74.3	72.3	67.8	65.0	570.0	45
4	23.0	3.8	65.3	63.3	55.8	53.0	552.0	
10	25.0	6.0	59.3	57.3	47.8	45.0	545.4	
16	25.0	7.6	56.2	54.2	43.7	40.9	543.0	
20	25.0	8.5	54.8	52.8	41.8	39.0	542.0	
31.25	23.6	10.7	51.9	49.9	37.9	35.1	540.4	
62.5	21.5	15.4	47.4	45.4	31.9	29.1	538.6	
100	20.1	19.8	44.3	42.3	27.8	25.0	537.6	
200	18.0	29.0	39.8	37.8	21.8	19.0	536.5	
250	17.3	32.8	38.3	36.3	19.8	17.0	536.3	
300	16.8	36.4	37.1	35.1	18.3	15.5	536.1	
350	16.3	39.8	36.1	34.1	16.9	14.1	535.9	
400	15.9	43.0	35.3	33.3	15.8	13.0	535.8	
450	15.5	46.0	34.5	32.5	14.7	11.9	535.7	
500	15.2	48.9	33.8	31.8	13.8	11.0	535.6	
550	14.9	51.8	33.2	31.2	13.0	10.2	535.5	
600	14.7	54.5	32.6	31.5	12.2	9.4	535.4	

Values above 250MHz are information only



Electrical & Physical Properties

Item		Specification	
Rating Temp		75 °C	
Conductor Resistance		9.38 Ω/100m 20 °C Max.	
Mutual Capacitance		5.6 nF/m Max.	
DC. Resistance Unbalance		5% Max.	
Pair-to-Ground Capacitance Unbalance		330 pF/100m Max.	
Dielectric Strength		AC 1.5kv / 2sec	
Spark Test		2.5 KV	
Cold Bend Test		-20 °C x 4hrs No Crack.	
Insulation	Unaged	Tensile Strength	2400 PSI Min.(1.68kg/mm2)
	Aged	Elongation	300% Min.
	Unaged	Tensile Strength	Min. 75% (100 °C x 48 hrs)
	Aged	Elongation	Min. 75% (100 °C x 48 hrs)
Jacket	Unaged	Tensile Strength	2000 PSI Min.(1.41kg/mm2)
	Aged	Elongation	100% Min.
	Unaged	Tensile Strength	Min.85% (100°C x 240 hrs)
	Aged	Elongation	Min. 50% (100°C x 240 hrs)
Temperature Rating		Installation	0°C to +60°C
		Operating	-20°C to +60°C
Minimum bending radius		≥ 4 times of overall diameter	
Maximum pulling tension		≤ 110 N	

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