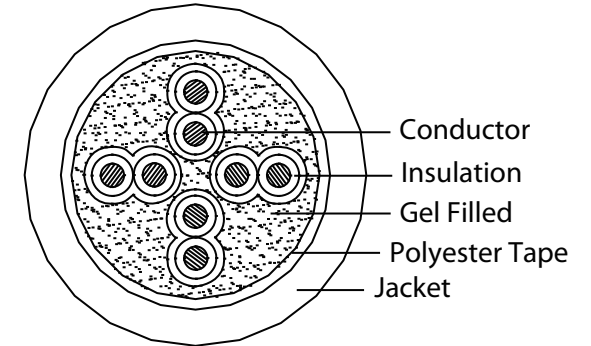


Construction & Material :

Item	Unit	Specification
Product		CAT.5e 4P CMX Rated
Conductor	Size	AWG 24
	Number	pairs 4
	Material	Solid Bare Copper
	Construction	mm 0.496±0.005
Insulation	Material	HD-PE
	Identification	With Strip Colour Marking On White Cores
	Min.thickness	mm 0.19
	Avg.thickness	mm 0.22
	Diameter	mm 0.94
Color		Blue-White/Blue Orange-White/Orange Green-White/Green Brown-White/Brown
Structure	Material	Gel Filled
Taping	Material	Polyester Tape
	Lay Length	% Overlap 25
Jacket	Material	PE(CMX Rated)
	Min.thickness	mm 0.46
	Avg.thickness	mm 0.51
	Overall Diameter	mm 5.40±0.30
	Color	Black
Cable Marking	CAT5E 4PR 24AWG UTP GEL FILLED TYPE CMX DIRECT BURIAL OUTDOOR PE EIA/TIA-568-C ROHS xxxFT	

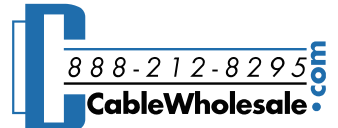
Voltage rating ≤ 48V

Rev.	Description	Date
A		08-2021



Cross Section



Item Number:	10X6-822NH	
Title:	Direct Burial/Outdoor rated Cat 5e Black Ethernet Cable, Solid, CMX, UTP, Gel-Filled, 24 AWG, Spool, 1000 foot	
Drawn by:	JL	
Approved by:	MAC	
ID:	245	

No.	Specifications
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Rev.	Description	Date
A		08-2021

Electrical Property :

Item		Unit		Standard		
Conductor DC Resistance @20°C		Ohms/100 Meters		≤ 9.5		
DC Resistance Unbalance @20°C		%		≤ 2.5		
Max. Delay Skew		nS/100 Meters		≤ 45.0		
Mutual Capacitance		nF/100 Meters		≤5.6		
Capacitance Unbalance		pF/100 Meters		≤ 330		
Characteristic Impedance ((1-100MHz)		Ω		100 ± 15		
Frequency	Attenuation	Return Loss	NEXT	PS-NEXT	ELFEXT	Delay
MHz	dB(100m)	dB	dB	dB	dB(100m)	ns(100m)
	Maximum	Minimum	Minimum	Minimum	Minimum	Maximum
1	2.0	20.0	65.3	62.3	63.8	570.0
4	4.1	23.0	56.3	53.3	51.7	552.0
8	5.8	24.5	51.8	48.8	45.7	546.7
10	6.5	25.0	50.3	47.3	43.8	545.4
16	8.2	25.0	47.3	44.3	39.7	543.0
20	9.3	25.0	45.8	42.8	37.7	542.0
25	10.4	24.3	44.3	41.3	35.8	541.2
31.25	11.7	23.6	42.9	39.9	33.9	540.4
62.5	17.0	21.5	38.4	35.4	27.8	538.6
100	22.0	20.1	35.3	32.3	23.8	537.6

Mechanical Characteristics

Temperature Rating	Installation	-76°C to + 96°C
	Operating	-76°C to + 96°C
Min. Ben Radius	Eight times the outer diameter of cable	
Min. Ben Radius	Before	> = 14 Mpa
Elongation	Aging	> = 300%
Aging Condition		100°C x 120 hours
Rated Temperature / Voltage		5000M Ω/km



Item Number:	10X6-822NH	
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