



**OVER 8000 SPARKIES
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Matrix CAT6 UTP LAN Cable Blue 305M CS-TE-6LAN305BLU



CABLE SPECIFICATION

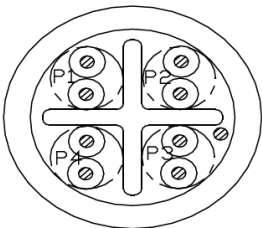
1.Scope:

The specification established a description for a HDPE insulation and X-filler and PVC jacket cable.

2.Design and Construction Data

Item	Description	
Conductor	No. of pair	4
	Material	Bare copper wire
	Construction	1/0.57±0.01
Insulation	Material	HDPE
	Nom.Thickness	0.20
	Nom. O.D.:	0.98±0.02
	Color	Per cross-section
Filer	Material	HDPE
Rip cord	Material	Polyester fiber
Jacket	Material	PVC
	Nom. Thickness	0.58
	Nom. O.D.:	6.00±0.30
	Color	Blue(RAL 5017)
Marking	E329097 (UL) TYPE CM 75°C 23AWG 4PAIR ETL VERIFIED TO TIA-568-C.2 CAT.6 PATCH CABLE UTP TE△+ BATCH NUMBER	
	Color	Black

3.Cross-section



P1:Blue-White/Blue
P2:Orange-White/Orange
P3:Green-White/Green
P4:Brown-White/Brown

4.Physical and Electrical Performance

Item	Requirement	
Spark test for insulation (DC)	2.50	
Conductor resistance max. at 20°C ohm/km	73.20	
DC resistance unbalanced	5%	
Insulation resistance min. Mohm*km	150.00	
Flame test	Vertical Flame	
Characteristic impedance ohm	100±15(1~100M Hz) 100±22(100~200M Hz) 100±32(200~250M Hz)	
Propagation delay skew ns/100m	45	
Mutual Capacitance nF/100m	5.6	
Capacitance unbalanced pF/100m	330	

5. Data transmission performance

Frequency	RL	IL	NEXT	PSNEXT	ACRF	PSACRF	TCL	ELTCTL	Delay
1	20.0	2.0	74.3	72.3	67.8	64.8	40.0	35.0	570
4	23.0	3.8	65.3	63.3	55.8	52.8	40.0	23.0	552
8	24.5	5.3	60.8	58.8	49.7	46.7	40.0	16.9	547
10	25.0	6.0	59.3	57.3	47.8	44.8	40.0	15.0	545
16	25.0	7.6	56.2	54.2	43.7	40.7	38.0	10.9	543
20	25.0	8.5	54.8	52.8	41.8	38.8	37.0	9.0	542
25	24.3	9.5	53.3	51.3	39.8	36.8	36.0	7.0	541
31.25	23.6	10.7	51.9	49.9	37.9	34.9	35.1	/	540
62.5	21.5	15.4	47.4	45.4	31.9	28.9	32.0	/	539
100	20.1	19.8	44.3	42.3	27.8	24.8	30.0	/	538
200	18.0	29.0	39.8	37.8	21.8	18.8	27.0	/	537
250	17.3	32.8	38.3	36.3	19.8	16.8	26.0	/	536

6. 100% Production Routine test for finished products:

- 100% Visual Check
- 100% Continuity Test
- 100% Performance Test
- 100% Hi-pot Test
- 100% Dimension Check

7.Remark:

The unit of the dimension is mm unless specified in the specification.
The cross section do not represent the actual size for your information.



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