Matrix CAT5E UTP LAN Cable Blue 305M
CS-TE-5ELAN305BLU



CABLE SPECIFICATION

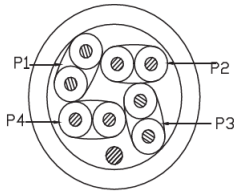
1.Scope:

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

2.Design and Construction Data

Item		Description
Conductor	No. of pair	4
	Material	Bare copper wire
	Construction	1/0.51
Insulation	Material	HDPE
	Nom.Thickness	0.18
	Nom. O.D.:	0.87±0.02
	Color	Per cross-section
Jacket	Material	PVC
	Nom. Thickness	0.58
	Nom. O.D.:	5.00±0.20
	Color	Blue(RAL 5017)
Marking	E329097 (UL) TYPE CM 75°C 24AWG 4PAIR ETL VERIFIED TO TIA-568-C.2 CAT.5e 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℃	ohm/km	93.8
DC resistance unbalanced		5%
Insulation resistance min.	Mohm*km	150.00
Flame test		Vertical Flame
Characteristic impedance	ohm	100±15(1~100MHz)
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	ELFEXT	PSELFEXT	Delay
1	20	2.0	65.3	62.3	63.8	60.8	570
4	23	4.1	56.3	53.3	51.8	48.8	552
8	24.5	5.8	51.8	48.8	45.7	42.7	547
10	25	6.5	50.3	47.3	43.8	40.8	545
16	25	8.2	47.2	44.2	39.7	36.7	543
20	25	9.3	45.8	42.8	37.8	34.8	542
25	24.3	10.4	44.3	41.3	35.8	32.8	541
31.25	23.6	11.7	42.9	39.9	33.9	30.9	540
62.5	21.5	17.0	38.4	35.4	27.9	24.9	539
100	20.1	22.0	35.3	32.3	23.8	20.8	538

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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