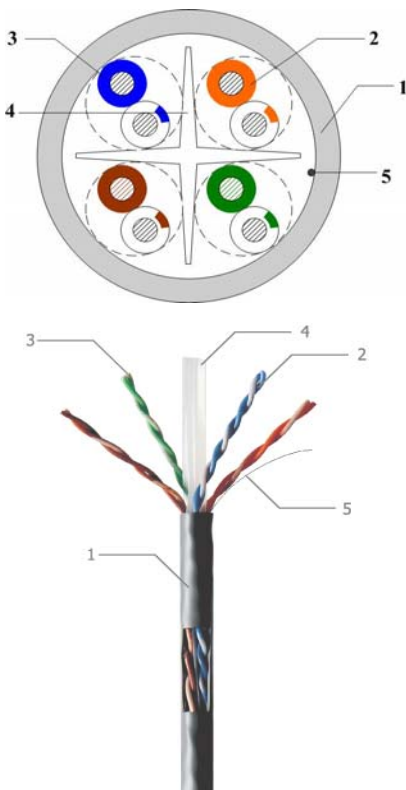


Description

- Rated temperature: 75 °C
- Reference standard:UL444,ANSI/TIA-568-C.2 IEC61156-5 & IEC/ISO 11801
- Product standard certification: CMR-LP (0.5A)
- Flame test: CMR
- Solid bare copper conductor
- Color-coded PE insulation
- PVC jacket
- Packaging: Per customer request

Application

- 100Base-T4
- 100Base-TX
- 100VG-AnyLAN
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM

Product Figure


- | |
|-----------------|
| 1. Outer Jacket |
| 2. Insulation |
| 3. Conductor |
| 4. Filler |
| 5. Rip cord |

Physical Characteristics

Structure	Construction	U/UTP
	Number of pairs	4Pair
	AWG	23 AWG
	Conductor dimension (mm)	0.566 +/- 0.02 mm
Insulation	Solid or stranded; bare or tinned	Solid bare copper
	Insulation Material	PE
	Insulation dimension (mm)	1.04 +/- 0.05 mm
	Number colour (stripe marking)	1.Blue , White/Blue(stripe) 2.Orange , White/Orange(stripe) 3.Green , White/Green(stripe) 4.Brown , White/Brown(stripe)
Filler	Filler	YES
Shield	Individual shield & material	N/A
	Primary overall shield & material	N/A
	Secondary overall shield & material	N/A
	Shield coverage (%)	N/A
Cabling	Twisting lay length	<=30 mm
	Cabling lay length	<=200 mm
Outer jacket	Outer jacket material	PVC
	Overall dimension	7.0 +/- 0.3 mm
	Outer jacket nominal thickness	0.85 mm
	Outer jacket rip cord	YES
Mechanical characteristics	Operating temp. range	-20 °C ~ +75 °C
	Bulk cable weight (KG)	56 kg/km
	Max. recommended pulling tension	110 N
	Min. bend radius (install)	4 x O.D.
	Outer jacket tensile strength	>= 13.8 Mpa
	Outer jacket elongation	>= 100%
	Outer jacket aging condition	100°C x 168 hrs
	After aging, tensile strength	>=85% of Unaging
	After aging, elongation	>=50% of Unaging
	Cold bend	No Crack (@ -20 °C x 4 hrs)
Electrical characteristics	Nom. mutual capacitance	<=5.6 nF/100m @1KHz
	Max. capacitance unbalance	<=330 pF/100m
	Nominal velocity of propagation	67%
	Max. delay skew	45 ns/100m
	Max. conductor resistance	93.8Ω/km (@ 20 °C)
	Max. conductor resistance unbalance	<=5% (@ 20 °C)
	Min. insulation resistance	5000 MΩ · m
	Max. operating voltage	300 V



Marking

TBD.	
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Electrical Characteristics

Frequency	upper characteristic impedance	lower characteristic impedance	ATT	NEXT	PSNEXT	ELFEXT	PSELFEXT	PD	RL
(MHz)	Zu(Ω)	Zl(Ω)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(ns/100m)	(dB)
1	/	/	2.0	74.3	72.3	67.8	64.8	570.0	20.0
4	115.2	86.8	3.8	65.3	63.3	55.8	52.8	552.0	23.0
8	112.6	88.8	5.3	60.8	58.8	49.7	46.7	546.7	24.5
10	111.9	89.4	6.0	59.3	57.3	47.8	44.8	545.4	25.0
16	111.9	89.4	7.6	56.2	54.2	43.7	40.7	543.0	25.0
20	111.9	89.4	8.5	54.8	52.8	41.8	38.8	542.0	25.0
25	112.9	88.5	9.5	53.3	51.3	39.8	36.8	541.2	24.3
31.25	114.1	87.7	10.7	51.9	49.9	37.9	34.9	540.4	23.6
62.5	118.3	84.5	15.4	47.4	45.4	31.9	28.9	538.6	21.5
100	121.9	82.0	19.8	44.3	42.3	27.8	24.8	537.6	20.1
200	128.8	77.6	29.0	39.8	37.8	21.8	18.8	536.5	18.0
250	131.5	76.0	32.8	38.3	36.3	19.8	16.8	536.3	17.3

Remark : Cable that meet the requirements of the template are not required to be measured for return loss; alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance.

Revision History:

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 Date : 2019.01.21

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