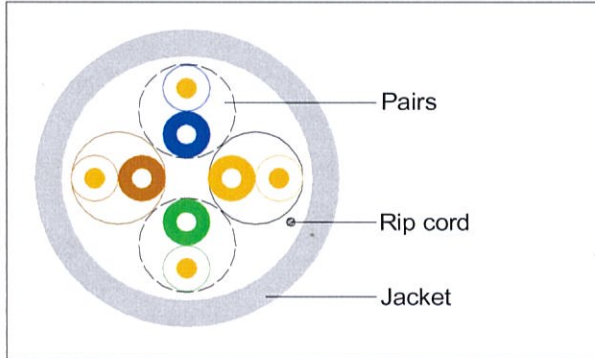


# 4 Pairs Cat.5e UTP Lan Cable

NO:2203

## Cross Section



## Electrical Characteristics (20°C)

Reference Standard: TIA/EIA-568-B.2 & ISO/IEC 11801

Test Item	Units	Spec
1.Max.Conductor DC Resistance	Ω/km	93.8
2.Max.Unbalance of Pair DC Resistance	%	2.5
3.Dielectric Strength between Pairs	kV/min	DC1.0
4.Min.Insulation Resistance	MΩ·km	5000
5.Max.Pair Mutual Capacitance	nF/100m	5.6
6.Max.Pair Capacitance Unbalance	pF/100m	330
7.Impedance(1 to 100MHz)	Ω	100±15

## Cable Description

### Cat.5E cable

#### 1) Conductor:

Material	BC
Stranding	Solid
Wire Gage	24AWG
Dia.(+/-0.01mm)	0.51

#### 2) Insulation:

Material	HDPE
Dia.(+/-0.05mm)	0.91
Color Code	White/Blue & Blue White/Orange & Orange White/Green & Green White/Brown & Brown

#### 3) Paired:

Direction	Z
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#### 4) Cabling:

Order of the Pair	See the Cross Section
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#### 5) Outer Sheath:

Material	PVC
Thickness(+/-0.05mm)	0.54
Dia.(+/-0.3mm)	5.0
Rip cord	200d*3

Frequency (MHz)	Min.RL (dB)	Max.IL (dB/100m)	Min.NEXT (dB)	Min.PSNEXT (dB)
1	20.0	2.0	65.3	62.3
4	23.0	4.1	56.3	53.3
8	24.5	5.8	51.8	48.8
10	25.0	6.5	50.3	47.3
16	25.0	8.2	47.3	44.2
20	25.0	9.3	45.8	42.8
25	24.3	10.4	44.3	41.3
31.25	23.6	11.7	42.9	39.9
62.5	21.5	17.0	38.4	35.4
100	20.1	22.0	35.3	32.3

Frequency (MHz)	Min.ELFEXT (dB)	Min.PSELFEXT (dB)	Max.Delay (ns/100m)	Max.Delay skew(ns/100m)
1	63.8	60.8	570	45
4	51.8	48.8	552	45
8	45.7	42.7	547	45
10	43.8	40.8	545	45
16	39.7	36.7	543	45
20	37.8	34.8	542	45
25	35.8	32.8	541	45
31.25	33.9	30.9	540	45
62.5	27.9	24.9	539	45
100	23.8	20.8	538	45

## RoHS Guideline

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	< 0.1%
Mercury content (Hg)	< 0.1%
Chromium (VI) content	< 0.1%
Polybrominated Biphenyls (PBB)	< 0.1%
Polybrominated Diphenyl Ether (PBDE)	< 0.1%

## Mechanical

### Test Object

#### Test Material

Before Tensile Strength(Mpa)	≥ 13.8
Aging Elongation(%)	≥ 100
After Tensile Strength(% of unaged)	≥ 85
Aging Elongation(% of unaged)	≥ 50
Cold Bend(-20±°C×4hrs)	No crack
Operating Temperature Range	-10~+60°C
Min.Bend Radius(Install)	8×D

### Sheath

PVC