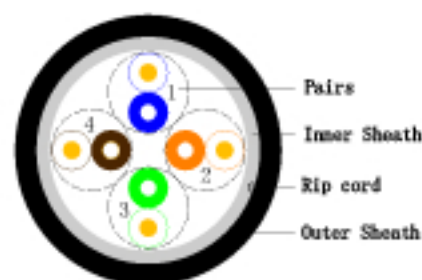


100 Ω 4- pair CAT 5E UTP Cable

NO:2103J

Cross Section

Electrical Characteristics (20 °C)



Reference Standard:

Test Item(20°C)	Units	Spec
1.Max.Conductor DC Resistance	Ω/km	≤93.8
2.Unbalance of Pair DC Resistance	%	≤2.5
3.Dielectric Strength between Pairs	kV/min	≤1.0
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

8.Delay Skew (1 to 100MHz)	ns/100m	≤45		
Frequency (MHz)	Min.RL (dB)	Min.SRL (dB)	Max.IL (dB/100)	Min.NEXT (dB)
1	20.0	28.0	2.0	65.3
4	23.0	28.0	4.0	56.3
16	25.0	28.0	8.2	47.2
20	25.0	25.0	9.2	45.6
25	24.3	27.0	10.3	44.3
31.25	23.6	26.1	11.6	42.9
62.5	21.5	23.1	16.8	38.4
100	20.1	21.0	21.7	35.3

Frequency (MHz)	Min.PSNE XT(dB)	Min.ELFE XT(dB)	Min.PSE LFEXT(d)	Max.Delay (ns/100m)
1	62.3	64.0	61.0	570
4	53.3	52.0	49.0	552
16	44.2	39.9	36.9	543
20	42.8	38.0	35.0	542
25	41.3	36.0	33.0	541
31.25	39.9	34.1	31.1	540
62.5	35.4	28.1	25.1	539
100	32.3	24.0	21.0	538

Cable Description

1) Conductor:

Material	BC - Bare Copper
Stranding	Solid
Wire Gage	24AWG
Dia.(+/-0.005mm)	0.495

2) Insulation:

Material	HDPE
Dia.(+/-0.05mm)	0.90
Color Code	White/Blue & Blue White/Orange & Orange White/Green & Green White/Brown & Brown

3) Paired:

Direction	Right Hand Lay
Length of Lay	< 38 mm

4) Cabling:

Order of the Pair	See the Cross Section
Direction	Right Hand Lay

5) Sheath :

Material	PVC
Rip Cord	200D*3
Inner Thickness(+/-0.05mm)	0.50
Inner Dia.(+/-0.20mm)	5.00
Outer Thickness(+/-0.05mm)	0.55
Outer Dia.(+/-0.20mm)	6.20

6) Net Weight:

42kg/km

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%

Sheath Mechanical Characteristics

Reference Standard: UL 444

Test Material	PVC
Before Tensile Strength(Mpa)	≥13.8
Aging Elongation(%)	≥100
After Tensile Strength(Mpa)	≥10.35
Aging Elongation(%)	≥75
Cold Bend(-20±℃ ×4hrs)	No crack
Operating Temperature Range	-10~+60℃
Min.Bend Radius(Install)	8×D

Revision History

Rev. : A/2

Prepared by : King Date: 10/12/2010
Approved by: Gavin Page: 1 of 1

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