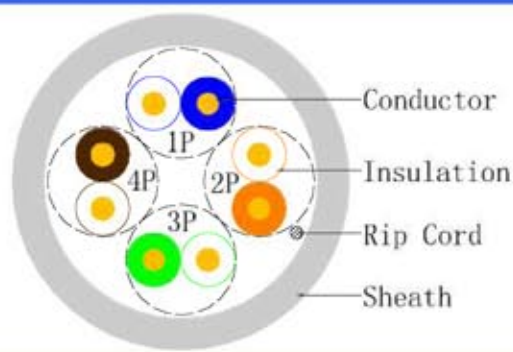


**Cross Section**



**Electrical Characteristics (20°C)**

Reference Standard: TIA/EIA-568-B.2 & ISO/IEC 11801  
 Product Standard Certification: UL File E227171

Test Item	Units	Spec
1.Max.Conductor DC Resistance	Ω/100m	≤ 9.5
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.Characteristic impedance(1 to 100MHz)	Ω	100±15
8.Characteristic impedance(100 to 200MHz)	Ω	100±25
9.Characteristic impedance(200 to 350MHz)	Ω	100±35
10.Delay Skew (1 to 350MHz)	ns/100m	≤ 45
11.Short or Open of the loop		None

**Cable Description**

<b>1) Conductor:</b>	
Number of Pairs	4
Total Number of Conductors	8
Material	BC - Bare Copper
Stranding	Solid
Wire Gage	24AWG
Diameter	Φ 0.495±0.005 mm
<b>2) Insulation:</b>	
Material	HDPE - Polyolefin
Diameter	Φ 0.88±0.05 mm
Pair Color Code(Stripe)	Pair 1:White/Blue & Blue Pair 2:White/Orange & Orange Pair 3:White/Green & Green Pair 4:White/Brown & Brown
<b>3) Paired:</b>	
Direction	Right Hand Lay
Length of Lay	< 38 mm
Twisted Pair Diameter	1.76 mm
<b>4) Cabling:</b>	
Order of the Pair	See the Cross Section
Direction	Right Hand Lay
<b>5) Outer Sheath:</b>	
Material	PVC - Polyvinyl Chloride(UL CMR)
Colors	Grey
Rip Cord	200D±3
Min.Thickness	0.40 mm
Thickness	0.50±0.05 mm
Diameter	Φ 5.10±0.20 mm
Marking	Per Customer Request

Frequency (MHz)	Min.RL (dB)	Min.SRL (dB)	Max.IL (dB/100m)	Min.NEXT (dB)
1	20.0	28.0	2.0	65.3
4	23.0	28.0	4.0	56.3
8	24.5	28.0	5.7	51.8
10	25.0	28.0	6.4	50.3
16	25.0	28.0	8.2	47.2
20	25.0	25.0	9.2	45.8
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
155	18.8	19.1	27.6	32.5
200	18.0	18.0	31.8	30.8
250	17.3	17.0	36.1	29.3
300	16.8	16.2	40.0	28.1
350	16.3	15.6	43.8	27.1

Frequency (MHz)	Min.PS NEX T (dB)	Min.ELFEXT (dB)	Min.PSELF EXT (dB)	Max.Delay (ns/100m)
1	62.3	64.0	61.0	570
4	53.3	52.0	49.0	552
10	47.3	44.0	41.0	545
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
155	29.5	20.2	17.2	537
200	27.8	18.0	15.0	537
250	26.3	16.0	13.0	536
300	25.1	14.5	11.5	536
350	24.1	13.1	10.1	536

**Other Characteristics**

About Net Weight	28	kg/km
Length	100m	Coil
	305m	Pully Box
	500m	Plywood Drum
	1000m	Plywood Drum
	2000m	Plywood Drum

**Mechanical Characteristics**

<b>Test Object</b>		<b>Sheath</b>
Test Material		PVC
Before	Tensile Strength(Mpa)	≥ 13.5
Aging	Elongation(%)	≥ 150
Aging Condition(°C hrs)		100±168
After	Tensile Strength(Mpa)	≥ 12.5
Aging	Elongation(%)	≥ 125
Cold Bend(-20°C 4hrs)		No crack
Operating Temperature Range		-10°C To +75°C
Min.Bend Radius(Install)		8D

**Revision History**

Rev	Description	Date
1		
2		
3		
4		

Prepared by: Wang Sheng Jie Date : 2009-04-06  
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