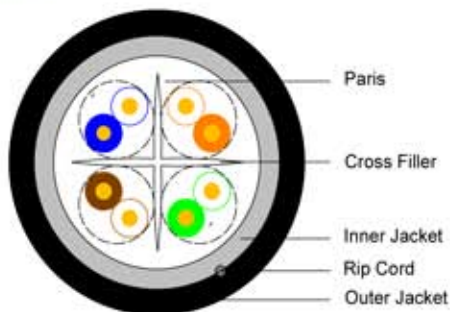


**Cross Section**



**Cable Description**

<b>Conductor</b>	
Material	BC
Stranding	Solid
Wire Gage	23AWG
Dia.(+/-0.005mm)	0.555
<b>Insulation</b>	
Material	HDPE
Dia.(+/-0.05mm)	1.00
Color Code	WH/BL & BL WH/OG & OG WH/GN & GN WH/BN & BN
<b>Paired</b>	
<b>Cabling</b>	
Order of the Pair	See the Cross Section
<b>Sheath :</b>	
Material	Inner LSZH Outer LDPE
Thickness(+/-0.05mm)	0.65 0.54
Dia.(+/-0.3mm)	6.40 7.50
Rip Cord	200D*3

**Mechanical Characteristics**

<b>Reference Standard: UL 444</b>	
Test Material	LDPE
Before Tensile Strength(Mpa)	≥9.7
Aging Elongation(%)	≥350
After Tensile Strength(% of unaged)	≥75
Aging Elongation(% of unaged)	≥75
Cold Bend(-20±℃ ×4hrs)	No crack
Operating Temperature Range	-40~+60℃
Min.Bend Radius(Install)	8×D

**Revision History**

Define by: Bob	Rev: A/0
Prepared by: King	Date: 2020-11-11
Approved by:Gavin	Page: 1 of 1

**Electrical Characteristics**

<b>Reference Standard: ANSI/TIA-568.2-D</b>					
<b>Test Item(20℃)</b>					
1.Max.Conductor DC Resistance	Ω/km	93.8	Units	Spec	
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 250MHz)	Ω	100±15			
<b>Frequency Characteristics</b>					
Frequency (MHz)	Min.RL (dB)	Max.IL (dB/100m)	Min. NEXT(dB)	Min.PS NEXT(dB)	
1	20.0	2.0	74.3	72.3	
4	23.0	3.8	65.3	63.3	
8	24.5	5.3	60.8	58.8	
10	25.0	6.0	59.3	57.3	
16	25.0	7.6	56.2	54.2	
20	25.0	8.5	54.8	52.8	
25	24.3	9.5	53.3	51.3	
31.25	23.6	10.7	51.9	49.9	
62.5	21.5	15.4	47.4	45.4	
100	20.1	19.8	44.3	42.3	
200	18.0	29.0	39.8	37.8	
250	17.3	32.8	38.3	36.3	
<b>Frequency Characteristics (Continued)</b>					
Frequency (MHz)	Min.ELFEXT (dB)	Min.PS ELFEXT(dB)	Max.Delay (ns/100m)	Max.Delay skew(ns/100m)	
1	67.8	64.8	570	45	
4	55.8	52.8	552	45	
8	49.7	46.7	547	45	
10	47.8	44.8	545	45	
16	43.7	40.7	543	45	
20	41.8	38.8	542	45	
25	39.8	36.8	541	45	
31.25	37.9	34.9	540	45	
62.5	31.9	28.9	539	45	
100	27.8	24.8	538	45	
200	21.8	18.8	537	45	
250	19.8	16.8	536	45	

**RoHS3 Guideline**

Cadmium content (Cd)	< 0.01%(100ppm)
Lead content (Pb)	<0.1%(1000ppm)
Mercury content (Hg)	<0.1%(1000ppm)
Chromium (VI) content	<0.1% (1000ppm)
Polybrominated Biphenyls (PBB)	<0.1% (1000ppm)
Polybrominated Diphenyl Ether (PBDE)	<0.1% (1000ppm)
Diethyl hexyl phthalate (DEHP)	<0.1% (1000ppm)
Butyl phenyl phthalate (BBP)	<0.1% (1000ppm)
Dibutyl phthalate (DBP)	<0.1% (1000ppm)
Diisobutyl phthalate (DIBP)	<0.1% (1000ppm)