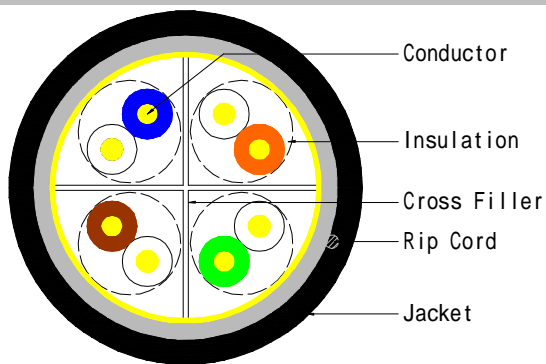


Cross Section



Cable Scription

1) Conductor:

Pairs	4
Total Conductor	8
AWG	23
Dia. of Conductor	Φ 0.55mm±0.01
Material	Solid Bare Copper
Elongation	≥15%

2) Insulate:

Material	HDPE
Nom. Thickness	0.20mm
Dia.	Φ 0.95mm±0.05
Elongation	≥300%
Color Cord	Pair 1: White-Blue/Blue Pair 2: White-Orange/Orange Pair 3: White-Green/Green Pair 4: White-Brown/Brown

3) Paired:

Length of Lay	<30mm
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4) Cabling:

Order of the Pair	See the Cross Section
Cross Filler	PE
PET Tape	0.02×20mm

5) Sheath:

Nom. Thickness	Inner:0.50mm±0.05 Outer:0.50mm±0.05
Min. Thickness	0.40mm
O.D.	Φ 7.2mm±0.3
Color	Inner:Gray Outer:Black
Marking	Per Customer

6) Packing:

Packing Mark	Accord to Contract
Appearance	Orderliness
Reel	Per Request

Electrical Characteristics(20°C)

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

Product Standard Certification : E227171

Test Item	Units	Spec
1. Conductor D.C. Resistance	Ω /100m	≤7.5
2. Unbalance of Pair D.C Resistance	%	≤2.5
3. Dielectric Strength between Pairs	kv/min	≤1.0
4. Insulation Resistance	M Ω ·km	≥5000
5. Capacitance	nF/100m	---
6. Unbalance of Capacitance	pF/100m	≤330
7. Characteristic impedance	Ω	100±15
8. Short or Open of the loop	—	None
9. Shield	—	—

Frequency (MHz)	RL (dB)	SRL (dB)	ATTEN (dB/100m)	NEXT (dB/100m)
1	20.00	30.00	1.85	74.30
4	23.01	30.00	3.69	65.27
8	24.52	30.00	5.26	60.75
10	25.00	30.00	5.89	59.30
16	25.00	30.00	7.51	56.24
20	25.00	30.00	8.43	54.78
25	24.32	29.03	9.47	53.33
31.25	23.64	28.06	10.64	51.88
62.5	21.54	25.05	15.36	47.36
100	20.11	23.01	19.78	44.30
155	18.77	21.11	25.15	41.45
200	18.00	20.00	28.97	39.78
250	17.32	19.03	32.84	38.33

Frequency (MHz)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	72.30	68.00	65.00	45.00
4	63.27	55.96	52.96	45.00
8	58.75	49.94	46.94	45.00
10	57.30	48.00	45.00	45.00
16	54.24	43.92	40.92	45.00
20	52.78	41.98	38.98	45.00
25	51.33	40.04	37.04	45.00
31.25	49.88	38.10	35.10	45.00
62.5	45.36	32.08	29.08	45.00
100	42.3	28.00	25.00	45.00
155	39.45	24.19	21.19	45.00
200	37.78	21.98	18.98	45.00
250	36.33	20.04	17.04	45.00

Mechanical Characteristics

Test Object	Jacket
Test Material	PVC
Before Tensile Strength(Mpa)	≥13.5
Aging Elongation(%)	≥150
Aging Condition(°C × hrs)	100×168
Before Tensile Strength(Mpa)	≥12.5
Aging Elongation(%)	≥125
Cold Bend(-20±°C×4hrs)	No crack

Other Characteristics

Weight	14 kg/305m
Length	100m Coil 305m Reel Box 500m Plywood Drum 1000m Plywood Drum

Revision History

Date: Define by Rev:

