SHIREEN
Making Wireless Work

Outdoor Shielded Cat.6 Cable

Item # DC-2021

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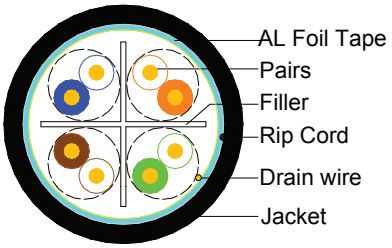
Cross Section



Electrical Characteristics(20°C)

Reference Standard: TIA/EIA-568-B.2-1 & IEC/ISO 11801

Test Item	Units	Spec
1. Max. Conductor DC Resistance	Ω/km	≤93.8
2. Unbalance or 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 250MHz)	Ω	100±15
(250 to 350MHz)	Ω	100±25
(350 to 550)	Ω	100±35

Cable Description

1)Conductor :

Material	Solid Bare Copper
Stranding	Solid
Wire Gage	23AWG
Dia.	Φ 0.57±0.02mm

2)Insulation:

Material	HDPE
Dia.	Φ 1.10±0.05mm
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)Shielding:

Vertical wrap	A1-Mylar Tape
Coverage%	100%
Dia.	Φ 0.40±0.02mm
Drain Wire	Solid Tinned Copper

6)Outer Sheath :

Material	LDPE
Rip Cord	200D*3
Thickness	0.75±0.05mm
Dia.	Φ 7.40±0.20mm

7)Packing :

1000Ft Reel-in-a-Box

Frequency (MHz)	Min.RL (dB)	Max.IL (dB/100m)	Min.NEXT (dB)	Min.PSNEXT (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
300	16.8	36.4	37.1	35.1
400	15.9	43.0	35.3	33.3
550	14.9	51.8	33.2	31.2

Frequency (MHz)	Min.ELFEXT (dB)	Min.PSELFEXT (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
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
300	18.3	15.3	536	45
400	15.8	12.8	536	45
550	13.0	10.0	536	45