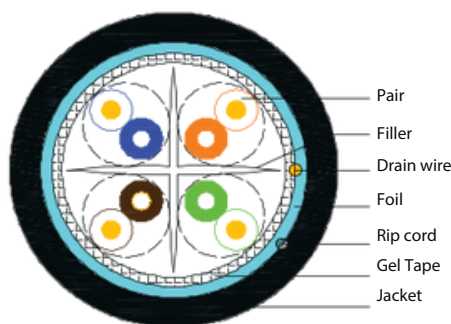


CAT6A

SKU: TS-ODSCMX/6A-BK

Cross Section



Electrical Characteristics(20°C)

Reference Standard: ANSI/TIA-568.2-D & IEC/ISO 11801

Test Item(20 °C)

1.Max.Conductor DC Resistance	Units	Spec
2.Max.Unbalance of Pair DC Resistance	Ω/km	93.8 2.5
3.Dielectric Strength between Pairs		DC 1.0
4.Min.Insulation Resistance	kV/min	5000
5.Max.Pair Mutual Capacitance	MΩ·km	5.6
6.Max.Pair Capacitance Unbalance	nF/100m	330
7.Impedance(1 to 250MHz)	pF/100m	100±15
(250 to 500MHz)	Ω Ω	100±22

Cable Description

- Conductor :
Material Solid Bare Copper
Stranding Solid
Wire Gage 23AWG
Dia. $\Phi 0.57 \pm 0.02 \text{mm}$
- Insulation :
Material HDPE
Nom. Thickness 0.275mm
Dia. $\Phi 1.10 \pm 0.05 \text{mm}$
Color Code White/Blue & Blue
White/Orange & Orange
White/Green & Green
White/Brown & Brown
- Paired :
Direction Right Hand Lay
Length of Lay < 30mm
- Cabling :
Order of the Pair See the Cross Section
Filling PE Filler
Gel-Tape Water Blocking Tape
- Shielding :
Vertical Wrap AL-Mylar Tape
Coverage 100%
Dia. $0.40 \text{mm} \pm 0.02 \text{mm}$
Drain Wire Solid Tinned Copper
- Outer Sheath :
Material LDPE
Thickness $0.75 \pm 0.05 \text{mm}$
Dia. $\Phi 8.30 \pm 0.40 \text{mm}$
Rip cord 200D*3
- Packaging : 1000Ft Wooden Spool
- Temperature rating : -40~+85°C
UV Rated

Frequency (MHz)	M in.RL (dB)	Max.IL (dB/100m)	Min.NEXT (dB)	Min.PS NEXT
1	20.0	2.1	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	5.9	59.3	57.3
16	25.0	7.5	56.2	54.2
20	25.0	8.4	54.8	52.8
25	24.3	9.4	53.3	51.3
31.25	23.6	10.5	51.9	49.9
62.5	21.5	15.0	47.4	45.4
100	20.1	19.1	44.3	42.3
200	18.0	27.6	39.8	37.8
250	17.3	31.1	38.3	36.3
300	16.8	34.3	37.1	35.1
400	15.9	40.1	35.3	33.3
500	15.2	45.3	33.8	31.8
750	14.0	62.3	31.8	29.1

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
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
300	18.3	15.3	536	45
400	15.8	12.8	536	45
500	13.8	10.8	536	45
750	10.5	7.5	535	45

Mechanical Characteristics

Reference Standard : UL 444

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±°C×4hrs)	No crack
Min.Bend Radius(Install)	8×D

