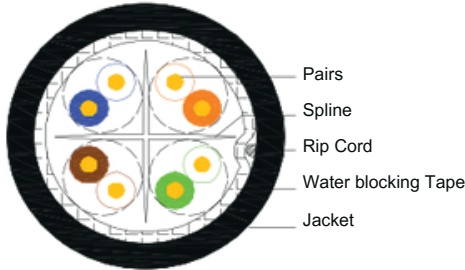


CAT6

SKU: TS-ODCMX/6-DB

Cross Section



Electrical Characteristics(20°C)

Reference Standard:

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

Test Item

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 550MHz)	Ω	100±35

Cable Description

1)Conductor	
Pairs	4 8 23 Φ
Total Conductor	0.57±0.02mm BC
AWG	- Bare Copper
Dia. of Conductor	
Material	
2)Insulation:	
Material	HDPE
Dia.	Φ 1.00±0.05mm
Color Cord	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
Filling	PE Filler
	Water Blocking Tape
5)Outer Sheath:	
Material	LDPE 200D*3
Rip Cord	0.75±0.05mm Φ
Thickness	7.20±0.20mm
Dia.	1000Ft Reel-in-a-Box
6)Packing:	-40C to +85C UV
7)Temperature rating:	Rated ASTM D1603
	ASTM D3349
	2.6%
	440 kAB/m

Frequency (MH z)	M in.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 (MH z)	EXT (dB)	Min.PSELFEXT (dB)	Max.Delay (ns/100m)	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

