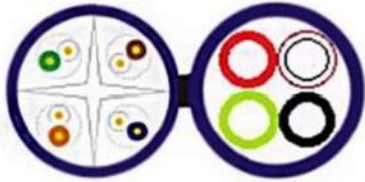


(1) CAT6E 600MHz UTP Cable + (1) 16AWG 4C Audio Cable

Cable Detail



Approval



Description

- Combination: CAT6E 600MHZ UTP + 16AWG 4C Audio Cable

CAT6 UTP - Physical Characteristics

Conductor Material		Bare Solid Copper
AWG		23AWG
Insulation Material		HDPE
Jacket Material		Flame retardant PVC
Conductor Diameter	(mm)	0.57
Insulation Diameter	(mm)	0.23 Nom.
Outer Diameter	(mm)	6.5 Nom.
Insulation colors		White insulation with stripe (White/Blue, White/Green, White/Brown, White/Orange.)

16AWG 4C Audio - Physical Characteristics

Conductor Material		Copper
AWG		16AWG
Insulation Material		Polyethylene/Polypropylene
Average Thickness	(mm)	0.303 Nom.
Conductor Diameter	(mm)	1.98 Nom.
Number of Conductors		4
Insulation colors		Red / White / Yellow / Blue
Lay Length		Twist
Jacket Material		PVC
Average Thickness	(mm)	0.406 Nom.
Overall Cable Dia.	(mm)	5.4 Nom.
Nominal Weight	1000 ft.	45 lbs.

CAT6 UTP - Electrical Characteristics

Frequency (MHz)	Attenuation (dB/100m) Max.	RL (dB) Min.	NEXT (dB) Min.	PS-NEXT (dB) Min.
1	2.10	20.0	75.3	72.3
4	3.80	23.0	66.3	63.3
8	5.30	24.5	61.8	58.8
10	5.90	25.0	60.3	57.3
16	7.50	25.0	57.2	54.2
20	8.40	25.0	55.8	52.8
25	9.40	24.3	54.3	51.3
31.25	10.50	23.6	52.9	49.9
62.5	15.00	21.5	48.4	45.4
100	19.10	20.1	45.3	42.3
200	27.60	18.0	40.8	37.8
250	31.10	15.6	39.3	36.6
300	34.30	16.8	38.1	35.1
500	-	15.2	34.8	35.1
600	-	14.7	33.6	30.6

Frequency (MHz)	ELFEXT (dB/100m) Min.	PS-ELFEXT (dB) Min.	Delay (<=ns)
1	68.0	65.00	552
4	56.0	53.00	546
8	49.9	46.90	545
10	48.0	45.00	543
16	43.3	40.90	542
20	42.0	39.00	541
25	40.0	37.00	540
31.25	38.1	35.10	538
62.5	32.1	29.10	537
100	28.0	25.00	536
200	22.0	19.00	535
250	20.0	17.00	534
300	18.5	15.50	534
500	14.0	11.00	-
600	12.0	10.00	-

* Values above 250MHz are information only.

16AWG 4C Audio - Electrical Characteristics

Temperature Rating	-20 ~ +60°C
Operating Voltage Rating	300 Volts
Capacitance Between Conductor @1 KHz	23.5 Pf/M Nom.
DC Resistance (Ω/km) per Conductor @ 20 °C	13.9 Ohms Nom.

Cable Marking

CATEGORY 6E 600 MHZ 4PR 23AWG AND 4 COND 16AWG
AUDIO CABLE CMR FT4 C(ETL)US XXXXXXXX ****FT

	Jacket Color	Package
	Yellow	500ft / RIB