

P-C6

Cat 6, Plenum

Description

Category 6 Cable - Unshielded
Solid Conductors - Plenum



Construction

Conductor

Material: 23 AWG Bare Solid Copper

Insulation

Material: FEP

Diameter: 0.039 in. Nominal

Pairing

2 Insulated Conductors twisted together
with varied lay lengths.

Color Code

Pair#1: Blue and White/Blue
Pair#2: Orange and White/Orange
Pair#3: Green and White/Green
Pair#4: Brown and White/Brown

Rip Cord

Nylon

UL Listing

Type CMP as Specified in Article 800 of the
National Electric Code.

Jacket

Material: PVC Alloy

Colors: C6-BLK (Black), C6-BLU (Blue), C6-WHT (White)

Overall Diameter:

0.240 in. +/- (6.1mm)

Approximate Weight

40 lbs.

Electrical Characteristics

Max. Conductor DC Resistance:

28.6 ohms/1000ft

DC Resistance Unbalance:

< = 5%

Mutual Capacitance:

14 pF/ft

Pair-to-Ground Capacitance Unbalance:

330 pF/100m

Impedance:

100±15 ohm

Max. Delay Skew:

18 ns/100m

Velocity of Propagation:

72%

Frequency	Return Loss	Attenuation	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT
MHz	dB	dB(100m)	dB	dB	dB	dB
	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum
1	20.0	2.0	80.3	78.3	73.8	70.8
4	23.0	3.8	71.3	69.3	61.8	58.8
10	25.0	6.0	65.3	63.3	53.8	50.8
16	25.0	7.6	62.2	60.2	49.7	46.7
20	25.0	8.5	60.8	58.8	47.8	44.8
31.25	23.6	10.7	57.9	55.9	43.9	40.9
62.5	21.5	15.4	53.4	51.4	37.9	34.9
100	20.1	19.8	50.3	48.3	33.8	30.8
200	18.0	29.0	45.8	43.8	27.8	24.8
250	17.3	32.8	44.3	42.3	25.8	22.8
300	16.8	36.4	43.1	41.1	24.3	21.3
350	16.3	39.8	42.1	40.1	22.9	19.9
400	15.9	43.0	41.3	39.3	21.8	18.8
500	14.8	49.5	40.2	38.2	20.0	17.0
550	14.4	53.1	39.5	37.5	18.9	15.9