



CAT6 PLENUM ETL LISTED US MADE UNSHIELDED SOLID BARE COPPER

Description:

Category 6 Horizontal Cable 23AWG Plenum, unshielded four twisted pairs assembled in a splineless construction. Extended Testing to 550 MHz.

Ratings/Approvals:

NEC Article 800, UL 910, UL Subject 444 CMP Rating FT6, ETL Electrically Verified to ANSI/TIA/EIA 568C.2 Category 6, C(ETL)US, RoHS Compliant

Applications:

Supports all category 6 applications including Ethernet 1BASE-TX, 100BASE-VG and 155 ATM. Particularly suited for high bandwidth application such as 622 ATM, Wideband, Ethernet 1000BASE-T and emerging applications with anticipated data rates to 3.2 Gbps.

CONSTRUCTION

Conductor: Number of Conductors or

23-AWG Solid Bare Copper

Pairs:

4 Pair

Jacket Material:

Low Smoke Flame Retardant Polyvinyl Chloride

Nominal Overall Cable Diameter:

0.204 in.

Approximate Cable Weight:

25 lb/1,000 ft.

ELECTRICAL & PHYSICAL PROPERTIES

Temperature Rating:

Installation: 0°C to 50°C

Operation: -10°C to 75°C

Velocity of Propagation: Mutual

72%

Capacitance:

14 pF/ft Nominal

Capacitance Unbalance:

330 pF/ft maximum

Maximum Conductor D.C.R.:

28.6Ω/1,000 ft

Maximum D.C.R. Unbalance:

5%

Maximum Delay Skew:

45 ns/100m

Characteristic Impedance:

From 0.772 MHz - 100 MHz

100Ω ± 15%

From 101 MHz - 250 MHz

100Ω ± 22%

From 201 MHz - 550 MHz

100Ω ± 32%

Minimum bend radius:

1.0 in.

Insulation Colors:

Blue paired with White/Blue Orange
paired with White/Orange Green paired
with White/Green Brown paired with
White/Brown

Issue Date: Jan '15

Revision: 2



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ELECTRICAL CHARACTERISTICS



Frequency	Return Loss	Insertion Loss	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR
MHz	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)	dB(100M)
	Minimum	Maximum	Minimum	Minimum	Minimum	Minimum	Minimum	Minimum
1	20.0	2.0	80.3	78.3	73.8	70.8	78.3	76.3
4	23.0	3.8	71.3	69.3	61.8	58.8	67.5	65.5
10	25.0	6.0	65.3	63.3	53.8	50.8	59.3	57.3
16	25.0	7.6	62.2	60.2	49.7	46.7	54.6	52.6
20	25.0	8.5	60.8	58.8	47.8	44.8	52.3	50.3
31.25	23.6	10.7	57.9	55.9	43.9	40.9	47.2	45.2
62.5	21.5	15.4	53.4	51.4	37.9	34.9	38.0	36.0
100	20.1	19.8	50.3	48.3	33.8	30.8	30.5	28.5
200	18.0	29.0	45.8	43.8	27.8	24.8	16.8	14.9
250	17.3	32.8	44.3	42.3	25.8	22.8	11.5	9.5
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	---	---

* Values above 250 MHz are for engineering information only

PACKAGING

1,000' Easy Pull Box

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