



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 Pairs:	23 AWG Solid Bare Copper
Jacket Material:	4 Pair
Nominal Overall Cable Diameter:	Low Smoke Flame Retardant Polyvinyl Chloride
Approximate Cable Weight:	0.204 in.
	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 Capacitance:		72%
Capacitance Unbalance:		14 pF/ft Nominal
Maximum Conductor D.C.R.:		330 pF/ft maximum
Maximum D.C.R. Unbalance:		28.6Ω/1,000 ft
Maximum Delay Skew:		5%
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

SURFACE PRINT:

DELCO CABLES ETL VERIFIED CAT6 TO TIA-568C.23147706 CMP 23AWG 4UTP
550MHZ C(ETL)US FT6 MADE IN USA + Sequential Footage Marking

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