



Description

23 AWG CAT6A Plenum, High-Performance Data Cable

Applicable Standards

- ETL Listed Type CMP
- C(ETL) listed FT6
- TIA - 568-B.2-10, and ISO/IEC 11801
- Alien Crosstalk and ROHS Compliant
- ATM 155 Mbps
- 10/100/1000/10G Base-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps TP-PMD
- ISDN, ADSL
- ATM LAN 1.2G
- Horizontal Distribution & Backbone Cabling

Physical Characteristics

Number of Conductor Pairs	4
Size	23 AWG
Stranding	Solid
Conductor Material	Solid Bare Copper
Shield Material	Unshielded
Rip Cord	Yes
Insulation Material	FEP
Insulation Diameter	0.041 in.
Jacket Material	Plenum Rated PVC
Jacket Diameter	0.3543 in.
Jacket Spacer Thickness	0.0393 in.
Outer Sheath Thickness	.0177 in.
Nominal Weight	54 lbs.

Color Code

Pair 1	White / Blue	Blue
Pair 2	White / Orange	Orange
Pair 3	White / Green	Green
Pair 4	White / Brown	Brown

Cable Marking

XXXXXX 23AWG 4 PR UTP CMP 75C C(UL)US VERIFIED (UL)
CATEGORY 6A ANSI/TIA-568-C.2 0000FT

Electrical Performance

Frequency (MHz)	Attenuation (dB/100m)	Return loss (dB/100m)	NEXT (dB/100m)	PS-NEXT (dB)
1	2.1	20.0	74.3	72.3
4	3.8	23.0	65.3	63.3
8	5.3	24.5	60.8	58.8
10	5.9	25.0	59.3	57.3
16	7.5	25.0	56.2	54.2
20	8.4	25.0	54.8	52.8
25	9.4	24.3	53.3	51.3
31.25	10.5	23.6	51.9	49.9
62.5	15.0	21.5	47.4	45.4
100	19.1	20.1	44.3	42.3
200	27.6	18.0	39.8	37.8
250	31.1	17.3	38.3	36.3
300	34.3	16.8	37.1	35.1
400	40.1	15.9	35.3	33.3
500	45.3	15.2	33.8	31.8
Frequency (MHz)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	PS-ANEXT (dB/100m)	PS-AELFEXT (dB/100m)
1	67.8	64.8	67.0	67.0
4	55.8	52.8	67.0	66.2
8	49.7	46.7	67.0	60.1
10	47.8	44.8	67.0	56.2
16	43.7	40.7	67.0	54.1
20	41.8	38.8	67.0	52.2
25	39.8	36.8	67.0	50.2
31.25	37.9	34.9	67.0	48.3
62.5	31.9	28.9	65.6	42.3
100	27.8	24.8	62.5	38.2
200	21.8	18.8	58.0	32.2
250	19.8	16.8	56.5	30.2
300	18.3	15.3	55.3	28.7
400	15.8	12.8	53.5	26.2
500	13.8	10.8	52.0	24.2

* Values above 250MHz are information only

Electrical Characteristics

DC Resistance	9.38 Ω / 100 Meters
DC Resistance Unbalanced	5%
Mutual Capacitance	5.6 nF / 100 Meters
Capacitance Unbalance (Pair to Ground)	330 pF / 100 Meters
Characteristic Impedance	100 ± 15 Ω
Delay Skew	45 nS / 100 Meters
Temperature Rating	Installation: 0 to + 60°C
	Storage: -20°C to + 80°C
Tensile Strength	Before: > = 13.8 Mpa
Elongation	Aging: > = 100%
Aging Condition	100°C x 168 hours
	After Aging: > = 85% of unaged
	> = 50% of unaged

Part Numbers

Part Number	Color	Put-up
	Blue	1,000' Reel