

CAT6A CABLE

UTP CMP (PLENUM-RATED)

065-700 SERIES

TECHNICAL DATA

Rated Temperature:	75° C
Rated Voltage:	300 V
Product Standard Certification:	CMP (Plenum)
NVP:	69%

CONDUCTOR

Size:	Solid Bare Copper
Outer Diameter:	23 AWG
Separator:	0.023 in. (0.585 mm ±0.006)
	Yes

INSULATION

Outer Diameter:	FEP
	0.04 in. (1.0 mm ±0.05)

JACKET

Wall Thickness:	Plenum PVC
Outer Diameter :	0.0157 in. Nom. (0.4 mm)
Rip Cord:	0.236 in. ±0.008 (6 mm ±0.2)
	Yes (Kevlar)

COLOR OF PAIRS

Pair 1:	Brown,White-Brown
Pair 2:	Blue,White-Blue
Pair 3:	Orange,White-Orange
Pair 4:	Green,White-Green

PRODUCT CERTIFICATIONS

NEC Article 800, ANSI/TIA-568-2.D Category 6A, 11801:2002
Category 6A, UL 910:CMP Rating, RoHS Compliant

MARKING ON JACKET

4PR 23AWG SOLID CAT6A AUGMENTED 10GS UTP CMP
FT6 75C 5011596(ETL) C(ETL) ---ETL-VERIFIED TO
ANSI/TIA-568-2.D 11/29/2022 ROHS COMPLIANT XXXXFT



DESCRIPTION

CAT6A UTP CMP (Plenum-Rated)
23 AWG Solid Bare Copper

FEATURES

- Unshielded Twisted Pair (UTP) Construction
- Plenum Fire Safety Rating (CMP)
- 23 AWG Solid Bare Copper Conductors
- High-Performance Data Cable
- Suitable for 10GS High-Speed Applications
- Meets or exceeds ANSI/TIA-568-2.D
- Supports PoE++ (Type 4) IEEE 802.3bt (up to 100W)
- ETL-Listed, RoHS Compliant
- Supplied in 1000 ft Wooden Spool (Dimensions: 15 inches x 8.5 inches)



VERTICAL CABLE

951.696.7772 California
800.749.2447 Florida
845.391.8318 New York
713.322.7242 Texas



verticalcable.com

Rev. 06/2025

Subject to change without notice.

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UTP CMP (PLENUM-RATED)

PERFORMANCE

ELECTRICAL PROPERTIES

Max. Mutual Capacitance	5.6nF/100m Nom.
Max. Resistance Unbalance	≤5%
Max. D.C. Resistance	9.38 Ω/100m Nom.
Characteristic Impedance	1-100 MHz, 100 ±15%; 101-250 MHz, 100 ±22%; 250-500 MHz, 100 ±25%
Velocity of Propagation	≥67%

Frequency (MHz)	Attenuation _n (dB/100m)	NEXT (dB)	ACRF (dB/)	PS.NEXT (dB)	PS.ACRF (dB)	PS.ANEXT (dB)	RL (dB)	Delay (ns/100m)	Skew (ns/100m)
1	2.1	74.3	67.8	72.3	64.8	67.0	20.0	570	45
4	3.8	65.3	55.8	63.3	52.8	67.0	23.0	552	
8	5.3	60.8	49.7	58.8	46.7	67.0	24.5	547	
10	5.9	59.3	47.8	57.3	44.8	67.0	25.0	545	
16	7.5	56.2	43.7	54.2	40.7	67.0	25.0	543	
20	8.4	54.8	41.8	52.8	38.8	67.0	25.0	542	
25	9.4	53.3	39.8	51.3	36.8	67.0	24.3	541	
31.25	10.5	51.9	37.9	49.9	34.9	67.0	23.6	540	
62.5	15.0	47.4	31.9	45.4	28.9	65.6	21.5	539	
100	19.1	44.3	27.8	42.3	24.8	62.5	20.1	538	
200	27.6	39.8	21.8	37.8	18.8	58.0	18.0	537	
250	31.1	38.3	19.8	36.3	16.8	56.5	17.3	536	
300	34.3	37.1	18.3	35.1	15.3	55.3	16.8	536	
400	40.1	35.3	15.8	33.3	12.8	53.5	15.9	536	
500	45.3	33.8	13.8	31.8	10.8	52.0	15.2	536	
550	47.7	33.2	13.0	31.2	10.0	51.4	14.9	536	
600	50.0	32.6	12.2	30.6	9.2	50.9	14.7	535	
650	52.3	32.4	11.5	30.1	8.5	50.3	14.4	535	
750	56.6	31.2	10.3	29.2	7.3	49.4	14.0	535	

Note: Values over 500 MHz are informational only.

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