



VERTICAL CABLE

CAT6A CMP CABLE

SHIELDED | PLENUM-RATED

165-500 SERIES

DESCRIPTION

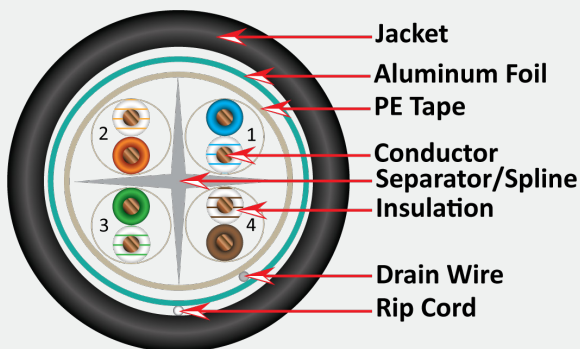
CAT6A, PoE Type 4, 23 AWG, 4 Pair, 750 MHz, F/UTP, CMP (Plenum-Rated), 1000 ft Wooden Spool

FEATURES

- Shielded Twisted-Pair (F/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
- Weight: 48.4 lbs (106.7 kg)

Compatible with VC RJ45 plugs

012-021-100 | 012-024/10G | 012-026/EZF-100



PART NUMBERS

165-500/A/PS/BK ● (Black)	165-503/A/PS/GY ● (Grey)
165-501/A/PS/BL ● (Blue)	165-508/A/PS/WH ○ (White)
165-502/A/PS/GR ● (Green)	165-509/A/PS/YL ● (Yellow)

CONSTRUCTION

Tape: PET (20/0.025 mm)
 Drain Wire: 24 AWG Solid Tinned Copper
 Shield: Aluminum/Poly Tape
 100% coverage with 25% overlapping
 Separator: Yes, LSZH CROSSWEB
 Ripcord: Yes, Kevlar

CONDUCTORS

Size: Solid Bare Copper

INSULATION

Outside Diameter: 0.04 in. (1.10 mm)
 Color Coding: Pair 1: Blue/White-Blue Pair 2: Orange/White-Orange
 Pair 3: Green/White-Green Pair 4: Brown/White-Brown

JACKET

Nominal Thickness: Plenum PVC
 0.02 in (0.50 mm)
 Outer Diameter: 0.29 in (7.4 mm)
 Marking: 2127105 4PR 23AWG SOLID CAT6A 500MHz
 FTP CMP 5011596(ETL) C(ETL) ---
 ETL VERIFIED TO ANSI/TIA-568.2-D
 ROHS COMPLIANT XXXXFT



Florida (HQ)
800-749-2447

California
951-696-7772

New York
845-391-8318

Texas
713-322-7242

verticalcable.com

This specification sheet is subject to change without notice.



RoHS



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Rev. 04/2026

ELECTRICAL CHARACTERISTICS

Temperature Rating:	75°C
Voltage Rating:	300V
Capacitance:	5.6nF/100m .Nom
Characteristic Impedance:	1-100 MHz Impedance, 100±15% 101-250 MHz Impedance, 100±22% 251-500 MHz Impedance, 100±25% 501-750 MHz Impedance, 100±30%
Velocity of Propagation:	≥67%
DCR Conductor:	9.38 Ohms/100m .Nom
DC Resistance Unbalance:	≤5%

Frequency (Mhz)	Attenuation (dB/100m)	NEXT (dB)	ACRF (dB/)	PS.NEXT (dB)	PS.ACRF (dB)	RL (dB)	Delay (ns/100m)	Skew (ns/100)
1	2.1	74.3	67.8	72.3	64.8	20.0	570	45
4	3.8	65.3	55.8	63.3	52.8	23.0	552	
8	5.3	60.8	49.7	58.8	46.7	24.5	547	
10	5.9	59.3	47.8	57.3	44.8	25.0	545	
16	7.5	56.2	43.7	54.2	40.7	25.0	543	
20	8.4	54.8	41.8	52.8	38.8	25.0	542	
25	9.4	53.3	39.8	51.3	36.8	24.3	541	
31.25	10.5	51.9	37.9	49.9	34.9	23.6	540	
62.5	15.0	47.4	31.9	45.4	28.9	21.5	539	
100	19.1	44.3	27.8	42.3	24.8	20.1	538	
200	27.6	39.8	21.8	37.8	18.8	18.0	537	
250	31.1	38.3	19.8	36.3	16.8	17.3	536	
300	34.3	37.1	18.3	35.1	15.3	16.8	536	
400	40.1	35.3	15.8	33.3	12.8	15.9	536	
500	45.3	33.8	13.8	31.8	10.8	15.2	536	
550	47.7	33.2	13.0	31.2	10.0	14.9	536	
600	50.1	32.6	12.2	30.6	9.2	14.7	535	
650	52.3	32.1	11.5	30.1	8.5	14.4	535	
750	56.7	31.2	10.3	29.2	7.3	14.0	535	

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