

# CAT6A HIGH GRADE CABLE PLENUM F/UTP (SHIELDED)

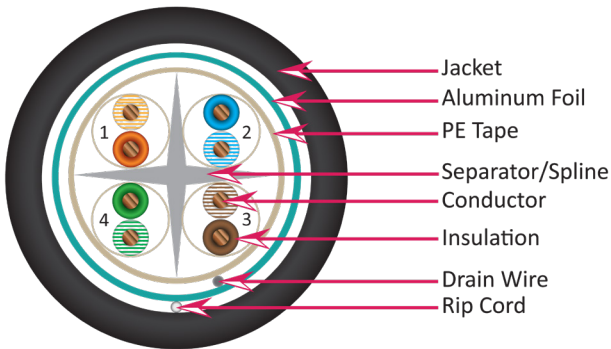


## DESCRIPTION

CAT6A, 23 AWG, F/UTP, 8C Solid Bare Copper, Plenum Rated, 1000 FT

## FEATURES

- 23 AWG Bare Copper Conductors
- Overall Foil-Shielded Twisted-Pair (F/UTP) Construction
- Plenum Fire Safety Rating (CMP)
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 Transmission Performance Specifications
- Supports POE + type 2
- Supports High-Speed Data Applications including Ethernet 10 Gigabit, 100 BASE TX, 100BaseVG AnyLan, 155ATM, 622ATM, NTSC/PAL, Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422
- UL-Listed, RoHS-Compliant
- Designed in the USA, Imported Product (TAA-Compliant)
- Packaging: 1000 ft Wooden Spool



## 165 SERIES

Part Number:	Description:
165-300/A/PS/BK	CAT6A Shielded (F/UTP) CMP, Black
165-301/A/PS/BL	CAT6A Shielded (F/UTP) CMP, Blue
165-302/A/PS/GR	CAT6A Shielded (F/UTP) CMP, Green
165-303/A/PS/GY	CAT6A Shielded (F/UTP) CMP, Gray
165-308/A/PS/WH	CAT6A Shielded (F/UTP) CMP, White
165-309/A/PS/YL	CAT6A Shielded (F/UTP) CMP, Yellow

## TECHNICAL DATA

Product Standard Certification CMP

## CONDUCTOR

Solid Bare Copper

Size 23 AWG

## CONSTRUCTION

Tape PE Tape

Drain Wire Solid Tin Copper

Shield (100% Coverage) AL/Poly Tape

Divider (Pair Separator) Yes

Ripcord Yes

## JACKET

Outer Diameter Plenum PVC

0.268 in.  $\pm 0.012$

(6.8 mm  $\pm 0.3$ )

## COLOR OF PAIRS

Pair 1 Blue, White-Blue

Pair 2 Orange, White-Orange

Pair 3 Green, White-Green

Pair 4 Brown, White-Brown

## MARKING

Vertical Cable E191267 (UL) c(UL) CMP FT 75C 23AWG  
4PR CAT6A F/UTP ANSI/TIA-568.2-D RoHS COMPLIANT  
XXXXFT

## WEIGHT

48 lbs. (21.77 kg)

## VERTICAL CABLE

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York

713.322.7242 Texas



verticalcable.com

Rev. 02/2025

Subject to change without notice.

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## PERFORMANCE

### MECHANICAL CHARACTERISTICS

Rated Temperature (°C)

-20°C to 80°C

Operating Voltage

60 V \*

Insulation Safety Voltage

300 V (per standards UL/ETL/CSA)

\* Note: This test is done in the manufacturing side.

Withstand Voltage Test

1000V (1 min. no insulation breakdown)

Capacitance

5.6nF/100m Nominal

Velocity of Propagation (VPN)

65 %

Max. Conductor D.C.R.

9.38Ω/100m Nominal

Max. D.C.R. Unbalance

5%

### CHARACTERISTIC IMPEDANCE

1 MHz - 100 MHz

100±15%

101 MHz - 250 MHz

100±22%

251 MHz - 500 MHz

100±25%

### RATINGS

NEC Article 800, UL 444 Type CMP Rating FT6, ETL verified to ANSI/TIA 568.2-D Category 6, C(ETL)US, RoHS Compliant.

### MARKING

Vertical Cable E191267 (UL) c(UL) CMP FT 75C 23AWG 4PR CAT6A F/UTP  
ANSI/TIA-568.2-D RoHS COMPLIANT XXXXFT

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	ACRF (dB/)	PS.NEXT (dB)	PS.ACRF (dB)	RL (dB)	Delay (ns/100m)	Skew (ns/100m)
1	1.9	65.0	64.2	62.0	61.2	19.1	521	44
4	3.5	64.1	52.1	61.8	49.1	21.0	504	
8	5.0	59.4	46.1	57.0	43.1	21.0	500	
10	5.5	57.8	44.2	55.5	41.2	21.0	498	
16	7.0	54.6	40.1	52.2	37.1	20.0	496	
20	7.8	53.1	38.2	50.7	35.2	19.5	495	
25	8.8	51.5	36.2	49.1	33.2	19.0	495	
31.25	9.8	50.0	34.3	47.5	31.3	18.5	494	
62.5	14.0	45.1	28.3	42.7	25.3	16.0	492	
100	18.0	41.8	24.2	39.3	21.2	14.0	491	
200	26.1	36.9	18.2	34.3	15.2	11.0	490	
250	29.5	35.3	16.2	32.7	13.2	10.0	490	
300	32.7	34.0	14.6	31.4	11.6	9.2	490	
400	38.4	32.0	12.1	29.3	9.1	8.0	490	
500	43.8	30.4	10.2	27.6	7.2	8.0	490	
550	46.3	29.7	9.4	26.9	6.4	8.0	489	

• Note: Per TIA standards CAT6A is rated at 500+ MHz

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