

CAT6A HIGH GRADE CABLE PLENUM F/UTP (SHIELDED)

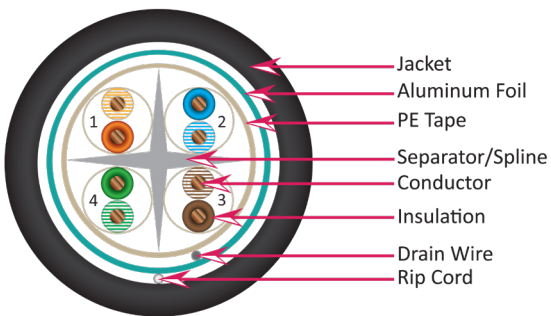


DESCRIPTION

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. ± 0.012
(6.8 mm ± 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. 07/2025

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)	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: Per TIA standards CAT6A is rated at 500+ MHz

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