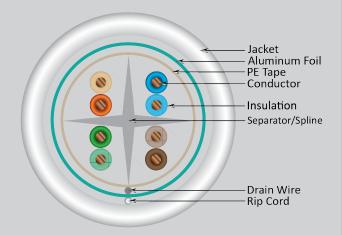


### **DESCRIPTION**

CAT6A, 23 AWG, F/UTP (SHIELDED) Solid Bare Copper, Plenum-Rated, 1000 ft Spool

### **FEATURES**

- 23 AWG Bare Copper Conductors
- 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 4
- 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
- ETL-Listed, RoHS-Compliant
- Packaging: 1000 ft Wooden Spool 15 in. x 11.5 in.
- Weight: 48.4 lb



## CAT6A CMP F/UTP PLENUM-RATED SHIELDED

### **SKU: 165-500 SERIES**

Part Number	Description
165-500/A/PS/BK	CAT6A, Solid F/UTP, 23 AWG, Plenum, Black
165-501/A/PS/BL	CAT6A, Solid F/UTP, 23 AWG, Plenum, Blue
165-502/A/PS/GR	CAT6A, Solid F/UTP, 23 AWG, Plenum, Green
165-508/A/PS/WH	CAT6A, Solid F/UTP, 23 AWG, Plenum, White
165-509/A/PS/YL	CAT6A, Solid F/UTP, 23 AWG, Plenum, Yellow

### **Technical Data**

Product Standard Certification

**Conductor** Solid Tinned Copper

Size 23 AWG

0.023 in. (0.585 mm ±0.006)

**CMP** 

Insulation SAMP® FEP

Outer Diameter 0.044 in. (1.12 mm ±0.5)

Construction

Ripcord

Tape PE Tape (20/0.025 mm)
Drain Wire Solid Tin Copper
Shield (100% coverage with 25% overlapping) Aluminum/Poly Tape

Divider (Pair Separator) Yes, SAMP® FEP CROSSWEB

Yes, Kevlar

Jacket Plenum PVC

Outer Diameter 0.268 in. ±0.012 (6.8 mm ±0.3)

Nom. Thickness 0.0197 in. (0.50 mm)

**Color of Pairs** 

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

**Mechanical Characteristics** 

Rated Temperature (°C) -20°C to 80°C

Voltage Rating 30 V

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%



## **VERTICAL CABLE**

951.696.7772 California 800.749.2447 Florida 845.391.8318 New York 713.322.7242 Houston

www.verticalcable.com Rev. 07/2025

# CAT6A CMP F/UTP PLENUM-RATED SHIELDED

### **Characteristic Impedance**

1 MHz - 100 MHz 101 MHz - 250 MHz 251 MHz - 550 MHz 100 ± 22% 100 ± 25%

#### Ratings

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

### **Marking on Jacket**

4PR 23AWG SOLID CAT6A 550MHz F/UTP CMP FT6 75C 5011596(ETL)C(ETL)......ETL VERIFIED TO ANSI/TIA-568.2-D 02/25/2023 ROHS COMPLIANT XXXXFT

## **PERFORMANCE**

Frequency	Attenuation	NEXT	ACRF	PS.NEXT	PS.ACRF	RL	Delay	Skew
(MHz)	(dB/100m)	(dB)	(dB/)	(dB)	(dB)	(dB)	(ns/100m)	(ns/100m)
1	1.9	65.0	64.2	62.0	61.2	19.1	521	
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	44
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	

## **VERTICAL CABLE**



