

CAT6 CMP F/UTP PLENUM-RATED **SHIELDED**



DESCRIPTION

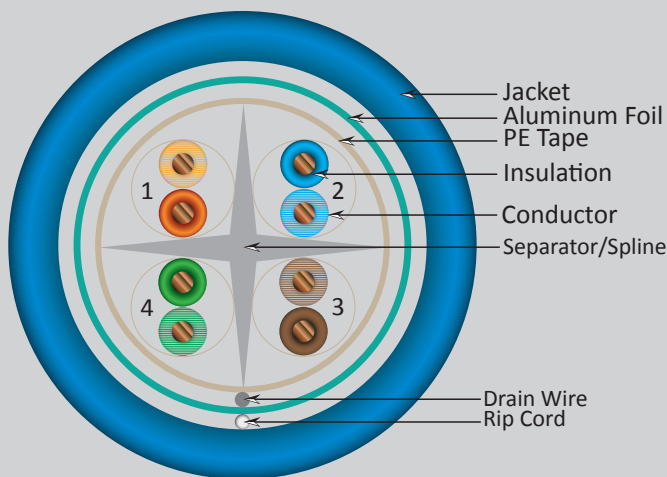
**CAT6, 23 AWG
F/UTP (Shielded), CMP (Plenum-Rated)
Solid Bare Copper, 550 MHz, 1000 ft.**

FEATURES

- Overall Foil-Shielded Twisted-Pair (F/UTP) Construction
- Plenum Fire Safety Rating (CMP)
- 23 AWG Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Meets or exceeds ANSI/TIA-568.2-D
- ETL-Listed, RoHS Compliant
- Packaging: 1,000 ft Wooden Spool (15 in. x 11 in.)
- Weight: 45.2 lbs

Ratings

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



PART NUMBERS (Check Availability)			
168-400/S/P/BK	Black	168-405/S/P/PK	Pink
168-401/S/P/BL	Blue	168-406/S/P/PR	Purple
168-402/S/P/GR	Green	168-407/S/P/RD	Red
168-403/S/P/GY	Gray	168-408/S/P/WH	White
168-404/S/P/OR	Orange	168-409/S/P/YL	Yellow

Technical Data

Product Standard Certification CMP

Conductor

Size Solid Tinned Copper
23 AWG
0.023 in. (0.585 mm ±0.006)

Insulation

Outer Diameter FEP
0.043 in. (1.10 mm ±0.5)

Construction

Tape PE Tape (20/0.025 mm)
 Drain Wire Solid Tinned Copper
 Shield (100% coverage with 25% overlapping) Aluminum/Poly Tape
 Divider (Pair Separator) Yes, FEP CROSSWEB
 Ripcord Yes, Kevlar

Jacket

Outer Diameter Plenum PVC
0.268 in. (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%

Characteristic Impedance

1 MHz - 100 MHz 100 ± 15%
 101 MHz - 250 MHz 100 ± 22%
 251 MHz - 550 MHz 100 ± 25%

Marking on Jacket

4PR 23AWG SOLID CAT6 550MHZ F/UTP CMP FT6 75C 5011596 (ETL) C(ETL)---
 ETL VERIFIED TO ANSI/TIA-568.2-D 10/31/2022 ROHS COMPLIANT XXXXFT

VERTICAL CABLE

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



www.verticalcable.com

Rev. 09/2022

Specs subject to change without notice.

It is the sole responsibility of the user to have the most current specs.

CAT6 CMP F/UTP

PLENUM-RATED SHIELDED

PERFORMANCE

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	7.9	53.1	38.2	50.7	35.2	19.5	495	
25	8.9	51.5	36.2	49.1	33.2	19.0	495	
31.25	10.0	50.0	34.3	47.5	31.3	18.5	494	
62.5	14.4	45.1	28.3	42.7	25.3	16.0	492	
100	18.6	41.8	24.2	39.3	21.2	14.0	491	
200	27.4	36.9	18.2	34.3	15.2	11.0	490	
250	31.1	35.3	16.2	32.7	13.2	10.0	490	
300	34.6	34.0	14.6	31.4	11.6	9.2	490	
400	41.1	32.0	12.1	29.3	9.1	8.0	490	
500	47.1	30.4	10.2	27.6	7.2	8.0	490	

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