

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

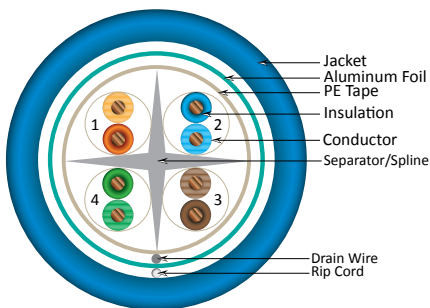


DESCRIPTION

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



168-400 SERIES

PART NUMBERS (Check Availability)

168-400/S/P/BK	Black	168-406/S/P/PR	Purple
168-401/S/P/BL	Blue	168-407/S/P/RD	Red
168-402/S/P/GR	Green	168-408/S/P/WH	White
168-403/S/P/GY	Gray	168-409/S/P/YL	Yellow
168-405/S/P/PK	Pink		

TECHNICAL DATA

Product Standard Certification: CMP

CONDUCTOR

Size: Solid Tinned Copper
23 AWG
0.023 in. (0.585 mm \pm 0.006)

INSULATION

Outer Diameter: FEP
0.043 in. (1.10 mm \pm 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

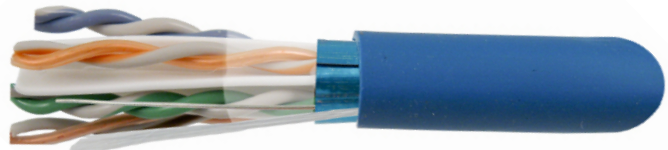
Outer Diameter: Plenum PVC
0.268 in. (6.8 mm \pm 0.3)
Nom. Thickness: 0.0197 in. (0.50 mm)

COLOR OF PAIRS

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

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
713.322.7242 Texas



verticalcable.com

Rev. 07/2025

Subject to change without notice.

CAT6 CMP F/UTP

PLENUM-RATED SHIELDED

PERFORMANCE

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%

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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