

# CAT6 HIGH GRADE 550MHz UTP CMR RATED

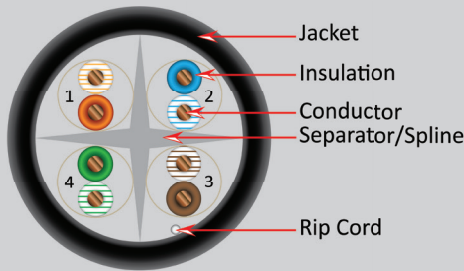


## DESCRIPTION

CAT6, 23 AWG, UTP, ETL-Listed, 8C Solid Copper, 550MHz, Riser Rated, PVC Jacket 1000 ft.

## FEATURES

- Unshielded Twisted-Pair (UTP) Construction
- Riser Fire Safety Rating (CMR)
- 23 AWG Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Meets or exceeds ANSI/TIA-568.2-D Transmission Performance Specifications
- Easily Identified Color-Striped Pairs
- Supports PoE++ (Type 3) IEEE 802.3bt (51W)
- ETL Listed, RoHS Compliant
- Designed in the USA, Imported Product
- Packaging: 1,000 ft Pull Box
- Weight: 30 lbs



## 060 SERIES

### TECHNICAL DATA

Temperature Rating:	70 °C
Voltage Rating:	300 V
Product Standard Certification:	CMR
NVP:	69%

### CONDUCTOR

Size:	Solid Bare Copper
	23 AWG

### INSULATION

Average Thickness:	0.009 in. (0.22 mm)
Min. Point Thickness:	0.007 in. (0.19 mm)
Insulation Diameter:	0.04 in. (1.01 mm 0.005)
Twisted Pair Diameter:	0.08 in. (2.02 mm ±0.01)

### SEPERATOR

PP

### ASSEMBLY DIAMETER

0.2 in. (5.00 mm)

### JACKET

PVC

Average Thickness:	0.024 in. (0.60 mm)
Min. Point Thickness:	0.02 in. (0.50 mm)
Outer Diameter:	0.24 in. (6.20 mm ±0.1)
Rip Cord:	Yes

### COLOR OF PAIRS

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

### MECHANICAL CHARACTERISTICS

Test Object:	Jacket
Test Material:	PVC
Before	
Tensile Strength (Mpa):	>=13.8
Aging Elongation (%):	>=100
Aging Condition (°Cxhrs):	100x168
After	
Tensile Strength (Mpa):	>=85% of unaged
Aging Elongation (%):	>=50% of unaged
Cold Bend (-20±2° Cx4hrs):	No Crack

### MARKING ON JACKET

E502490 ETL CMR 75C UTP 4PR 23AWG FT4 550MHz  
CAT6 ANSI/TIA-568.2-D RoHS XXXXFT

Jacket color available in  
Blue, Black, White, Green, Gray, Red, Yellow, Orange, Pink, Purple

**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

### ELECTRICAL CHARACTERISTICS

1.0-100MHz Impedance (Ohms):	100±15
100-250MHz Impedance (Ohms):	100±25
250-550MHz Impedance (Ohms):	100±35
1.0-250MHz Delay Skew (ns/100m):	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m):	<=330
Max. Conductor DC Resistance 20°C (ohms/km):	95
Resistance Unbalance (%):	<=5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	Next (ns/100m)
0.772	19.4	1.8	76.0
1	20.0	2.0	74.3
4	23.0	3.8	65.3
8	24.5	5.3	60.8
10	25.0	6.0	59.3
16	25.0	7.6	56.2
20	25.0	8.5	54.8
25	24.3	9.5	53.3
31.25	23.6	10.7	51.9
62.5	21.5	15.4	47.4
100	20.1	19.8	44.3
200	18.0	29.0	39.8
250	17.3	32.8	38.3
350	16.3	39.8	36.1
450	15.5	46.0	34.5
550	14.9	51.7	33.2

PSNext (Min dB)	ELFEXT Min(db/100m)	Delay Max(ns/100m)
74.0	70.0	-----
72.3	67.8	570.0
63.3	55.8	552.0
58.8	49.7	546.0
57.3	47.8	545.0
54.3	43.7	543.0
52.8	41.8	542.0
51.3	39.8	541.0
49.9	37.9	540.0
45.4	31.9	538.0
42.3	27.8	537.0
37.8	21.8	536.0
36.3	19.8	536.0
34.1	17.1	
32.5	15.2	
31.2	13.2	

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