

CAT6 HIGH GRADE 550MHz UTP CMR RATED

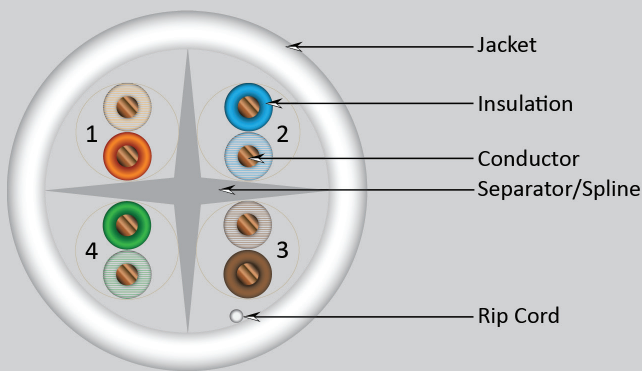


DESCRIPTION

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

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)
- UL Listed, RoHS Compliant
- Designed in the USA, Imported Product
- Packaging: 1,000 ft Pull Box
- Weight: 30 lbs



SKU: 060 SERIES UL-LISTED

Technical Data

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

Conductor

Size	Solid Bare Copper
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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)

Separator

Assembly Diameter Jacket

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 (UL)c(UL) CMR 75C UTP 4PR 23AWG FT4 550MHz CAT6 ANSI/TIA-568.2-D RoHS XXXXFT (SEQUENTIAL FOOT MARKERS ON JACKET)

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



www.verticalcable.com

Rev. 03/2025

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

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(db/100m)	Delay Max(ns/100m)
0.772	74.0	70.0	-----
1	72.3	67.8	570.0
4	63.3	55.8	552.0
8	58.8	49.7	546.0
10	57.3	47.8	545.0
16	54.3	43.7	543.0
20	52.8	41.8	542.0
25	51.3	39.8	541.0
31.25	49.9	37.9	540.0
62.5	45.4	31.9	538.0
100	42.3	27.8	537.0
200	37.8	21.8	536.0
250	36.3	19.8	536.0
350	34.1	17.1	
450	32.5	15.2	
550	31.2	13.2	

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