

# CAT6 HIGH GRADE 550MHz UTP CMR RATED

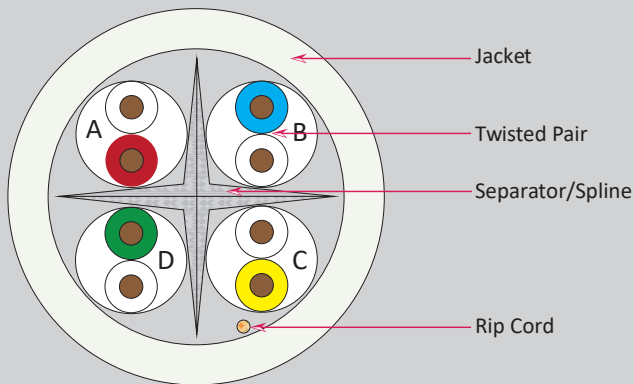


## DESCRIPTION

CAT6, 23 AWG, UTP, 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 and ISO/IEC 11801 Transmission Performance Specifications
- Easily Identified Color-Striped Pairs
- ETL Listed, RoHS Compliant
- Designed in the USA, Imported Product
- Packaging: 1,000 ft Pull Box
- Weight: 30 lbs



## SKU: 060 SERIES

### Technical Data

Rated Temperature	70 °C
Voltage Rating	30 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)

### 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

VERTICAL 4009208 c(ETL)us VERIFIED CMR FT4 UTP 4PR 23AWG  
CAT6 550MHz ANSI/TIA-568.2-D & ISO/IEC 11801 2002 RoHS  
V1684P10239 XXXFT (SEQUENTIAL FOOT MARKERS ON JACKET)

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

**VERTICAL CABLE**

954 454-3554 Florida Office

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Rev. 06/2019

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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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