

CAT6 HIGH GRADE 550MHz UTP CMR RATED

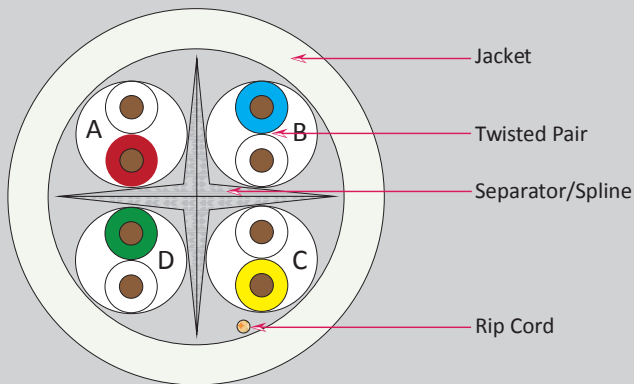


DESCRIPTION

Category-6, 23AWG, UTP, 8C Solid Copper, 550MHz, Riser Rated, PVC Jacket 1000ft.

FEATURES

- High-Performance Data Cable
- 550MHz Bandwidth for Data Applications
- Category-6 Unshielded Twisted Pair
- 23AWG Solid Bare Copper Conductors
- Easily Identified Color-Striped Pairs
- Exceeds EIA/TIA 568-B.2-1, ISO/IEC-11801
- Riser Rated PVC Jacket, CMR
- ETL Listed, 1,000ft Pull Box



SKU: 060 SERIES

Technical Data

Rated Temperature	70 °C
Rated Voltage	30v
Product Standard Certification	CMR

Conductor

Size **Solid Bare Copper**

Insulation

23AWG **PE**

Average Thickness (mm) 0.22

Min. Point Thickness (mm) 0.19

Insulation Diameter (± 0.005 mm) 1.01

Twisted Pair Diameter (± 0.01) 2.02

Separator

Assembly Diameter **PP** **5.00**

Jacket

PVC Average Thickness (mm) 0.60

Min. Point Thickness (mm) 0.50

Outer Diameter (± 0.10 mm) 6.20

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 ($^{\circ}\text{C} \times \text{hrs}$)	100x168
After Tensile Strength (Mpa)	$\geq 85\%$ of unaged
Aging Elongation (%)	$\geq 50\%$ of unaged
Cold Bend ($-20 \pm 2^{\circ} \text{C} \times 4 \text{hrs}$)	No Crack

Marking on Jacket

VERTICAL 4001453 cETLus VERIFIED CMR UTP 4PR 23AWG
CAT6 550MHz TIA/EIA-568B.2-1 RoHS 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

951 696-7772 California Office



www.verticalcable.com

Rev. 02/2013

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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