

CAT6 HIGH GRADE 550MHz UTP - CMR RATED



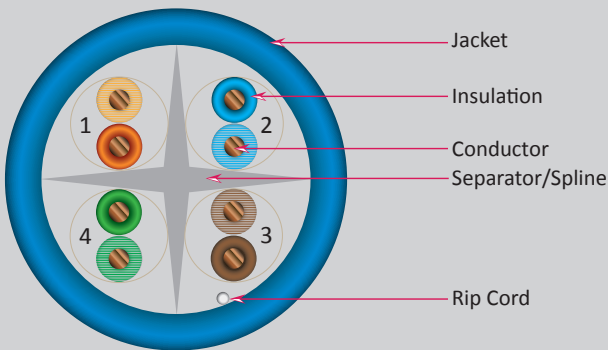
SKU: 161 SERIES

DESCRIPTION

Category-6, 23AWG, UTP, 8C Solid Copper, 550MHz, Riser Rated, PVC Jacket 1,000ft.

FEATURES

- Category-6 Unshielded Twisted Pair
- 23AWG Solid Bare Copper Conductors
- 550MHz Bandwidth for Data Applications
- Easily Identified Color-Striped Pairs
- Exceeds EIA/TIA 568-C.2, ISO/IEC-11801
- RoHS and TAA Compliant, CSA Approved
- ETL Listed
- 1,000ft Pull Box



Technical Data

Product Standard Certification	CMR
Rated Voltage	30V
NVP	67%

Conductor

Size

Solid Bare Copper

23AWG

Insulation

Insulation Diameter

PE

1.00 mm (±0.05mm)

Separator

Jacket

Outer Diameter

Rip Cord

Yes

PVC

6.10 mm (±0.2mm)

Yes

Color of Pairs

Pair 1

Pair 2

Pair 3

Pair 4

Blue, White-Blue

Orange, White-Orange

Green, White-Green

Brown, White-Brown

Mechanical Properties

Bending Radius:

Operating Temperature:

4XOD (without load)

-20°C ~ 75°C

Marking on Jacket

VERTICAL ETL VERIFIED CAT6 TO ANSI/TIA 568-C.2 ETL CMR
23 AWG 4PR 75C UTP c(ETL)us FT 4 550MHZ 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



www.verticalcable.com

Rev. 08/2017

Subject to change without notice.

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PERFORMANCE

Electrical Properties:

DC resistance:	Max 9.38Ω / 100m at 20°C
Resistance unbalance:	Max 5% at 20°C
Mutual capacitance:	Max 5.6 nf / 100m at 1kHz
Cap. unbalance to ground:	Max 330 pf / 100m at 1kHz
Characteristic impedance:	(100 ± 15) Ω at 1 ~ 100 MHz
Nonimal velocity of propagation:	67%
Propagation delay:	≤ 535 ns / 100m
Delay skew:	≤ 45ns / 100m

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	Next (ns/100m)
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)
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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