

CAT6 HIGH GRADE 550MHz LOW SMOKE ZERO HALOGEN

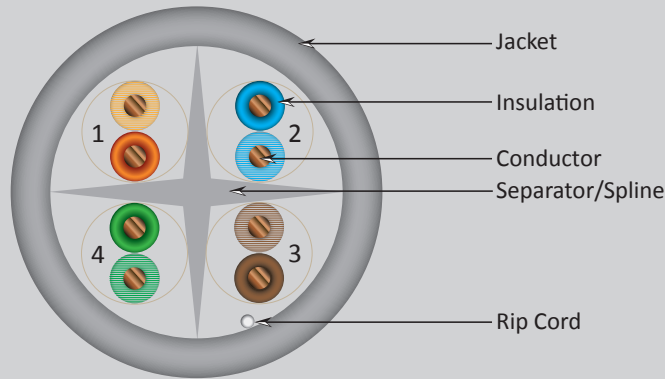


DESCRIPTION

Category-6, 23AWG, UTP, LSZH Jacket, 8C Solid Bare Copper, 1000ft.

FEATURES

- High-Performance Data Cable
- Category-6 Unshielded Twisted Pair
- 23AWG Solid Bare Copper Conductors
- Easily Identified Color-Striped Pairs
- Exceeds EIA/TIA 568-C.2, ISO/IEC-11801
- LSZH Jacket, RoHS Compliant
- 1000ft Pull Box



SKU: 070 Series

Technical Data

Rated Temperature	-20°C - 70°C
Rated Voltage	30V
Flammability Test	UL 444

Conductor

Size **Solid Bare Copper**

Conductor Diameter (mm) 23AWG

Insulation

Average Thickness (mm) **PE**

Min. Point Thickness (mm) 0.22

Insulation Diameter (±0.01mm) 0.20

Twisted Pair Diameter (±0.02) 1.01

Separator

Assembly Diameter

Jacket

Average Thickness (mm) **LPE**

Min. Point Thickness (mm) **5.00**

Outer Diameter (±0.20mm) **LSZH**

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	LSZH
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 the Jacket:

VERTICAL 4001453 cETLus VERIFIED UTP 4PR 23AWG LSZH CAT6550MHz
TIA/EIA-568-C.2 RoHS V1379P10965 XXXXFT

Jacket color available in
Blue, Gray and White

VERTICAL CABLE

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



www.verticalcable.com

Rev. 07/2015

Specs subject to change without notice.

It is the sole responsibility of the user to have the most current specs.

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PERFORMANCE

Electrical Characteristics:

1.0-500.0MHz Impedance (Ohms)	100±15
1.0-500.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	68.5
Resistance Unbalance (%)	<=5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (db/100m)	Next (Min dB)	Delay Max (ns/100m)
1	20.0	2.1	74.3	570.0
4	23.0	3.8	65.3	552.0
8	24.5	5.3	60.8	547.0
10	25.0	5.9	59.3	545.0
16	25.0	7.5	56.2	543.0
20	25.0	8.4	54.8	542.0
25	24.3	9.4	53.3	541.0
31.25	23.6	10.5	51.9	540.0
62.5	21.5	15.0	47.4	539.0
100	20.1	19.1	44.3	538.0
200	18.0	27.6	39.8	537.0
250	17.3	31.1	38.3	536.0
300	16.8	34.3	37.1	536.0
400	15.9	40.1	35.3	536.0
500	15.2	45.3	33.8	536.0

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(db/100m)	PSELFEXT Min(db/100m)
1	72.3	67.8	64.8
4	63.3	55.8	52.8
8	58.8	49.7	46.7
10	57.3	47.8	44.8
16	54.2	43.7	40.7
20	52.8	41.8	38.8
25	51.3	39.8	36.8
31.25	49.9	37.9	34.9
62.5	45.4	31.9	28.9
100	42.3	27.8	24.8
200	37.8	21.8	18.8
250	36.3	19.8	16.8
300	35.1	18.3	15.3
400	33.3	15.8	12.8
500	31.8	13.8	10.8

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