

CAT6 DIRECT BURIAL SHIELDED - GEL FILLED



VERTICAL CABLE
Simply Connect.

SKU: 069-558/S/CMXF

DESCRIPTION

Category-6 Shielded, 8-Conductor, 23AWG Solid-Bare Copper, Direct Burial, Gel Filled.

FEATURES

- High-Performance Data Cable
- 550MHz Bandwidth, 10/100/1000 Base-T
- Category-6 Shielded Twisted Pair
- 23AWG Solid Copper Conductors
- Gel Filled Core, LLDPE Jacket
- Easily Identified Color-Striped Pairs
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- ETL Listed, RoHS Compliant
- 1000ft Wooden Spool

Technical Data

Rated Temperature 70°C
Rated Voltage 60V
Flammability Test IEC-332-1

Conductor

Size **Solid Bare Copper**

23 AWG

Insulation

Average Thickness(mm) **PE** 0.248

Min. Point Thickness(mm) 0.222

Insulation Diameter (±0.01mm) 1.08

Twisted Pair Diameter (±0.02mm) 2.16

Shielding

PE-Tape

Drain Wire (Tinned Copper) (mm) 0.40

Separator

LDPE

Assembly Diameter

6.60

Jacket

Outer Diameter (±0.20mm) 8.10

Average Thickness(mm) 0.70

Min. Point Thickness(mm) 0.63

Gel Yes

Rip Cord Nylon

Color Black

Color of Pairs

Pair 1:Blue,White-Blue

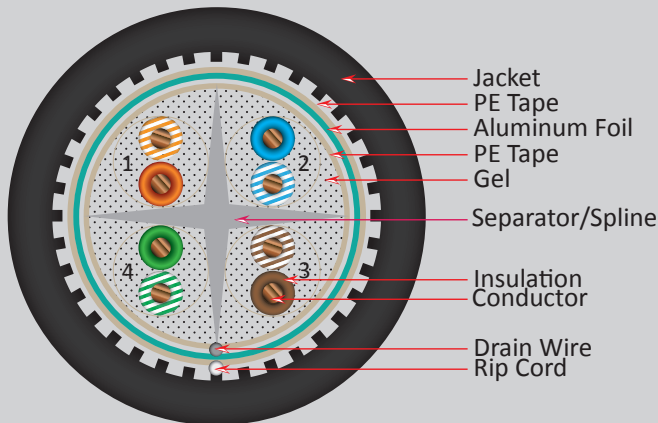
Pair 2:Orange,White-Orange

Pair 3:Green,White-Green

Pair 4:Brown,White-Brown

Mechanical Characteristics

Test Object	Jacket
Test Material	LLDPE
Before Tensile Strength (Mpa)	>=10.6
Aging Elongation (%)	>=300
Aging Condition (°Cxhrs)	100x168
After Tensile Strength (Mpa)	>=85% of unaged
Aging Elongation (%)	>=50% of unaged
Cold Bend (-20±2° Cx4hrs)	No Crack



VERTICAL CABLE

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



www.verticalcable.com

Rev. 02/2017

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:

1.0-100MHz Impedance (Ohms)	100±15
100-250MHz Impedance (Ohms)	100±25
250-550MHz Impedance (Ohms)	100±35
1.0-100.0MHz 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 (Min dB)
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	54.2	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	535.0
450	32.5	15.2	534.0
550	31.2	13.2	532.0

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