

CAT6 DIRECT BURIAL F/UTP SHIELDED - GEL-FLOODED



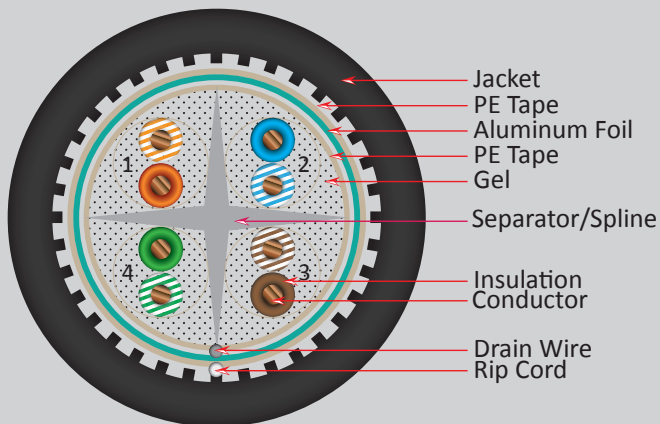
VERTICAL CABLE
Simply Connect.

DESCRIPTION

**CAT6 Shielded, 23 AWG Solid-Bare Copper
Direct Burial, Gel-flooded core**

FEATURES

- High-Performance Data Cable
- 550 MHz Bandwidth, 10/100/1000 Base-T
- CAT6 Overall Shielded Twisted Pair
- 23 AWG Solid Copper Conductors
- Gel-Flooded Core, LLDPE Jacket
- Easily Identified Color-Striped Pairs
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- ETL Listed, RoHS Compliant
- 1000 FT Wooden Spool
- Compatible with the following RJ45 Plugs: 012-021-100, 012-025/EZF-100, 012-026/EZF-100, 012-024/10G



SKU: 069-558/S/CMXF

Technical Data

Rated Temperature 70° C
Rated Voltage 30 V
Flammability Test IEC-332-1

Conductor

Size 23 AWG

Insulation

Average Thickness 0.0098 in. (0.248 mm)
Min. Point Thickness 0.0087 in. (0.222 mm)
Insulation Diameter 0.043 in. (1.08±0.01mm)
Twisted Pair Diameter 0.085 in. (2.16±0.02mm)

Shielding

PE-Tape Yes
Drain Wire (Tinned Copper) 0.016 in. (0.40 mm)

Separator

LDPE 0.26 in. (6.60 mm)

Assembly Diameter

LLDPE 0.32 in. (8.10 ±0.20mm)

Average Thickness 0.028 in. (0.70 mm)

Min. Point Thickness 0.025 in. (0.63 mm)

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)	>=10.8
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. 02/2021

Specs subject to change without notice.

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

CAT6 DIRECT BURIAL SHIELDED - GEL-FLOODED

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)	68.5
Resistance Unbalance (%)	<=2

Frequency (MHz)	Return loss (Min dB)	Attenuation Max	NEXT (Min dB)	PSNEXT Min (dB)
1	20.0	2.1	74.3	72.3
4	23.0	3.8	65.3	63.3
8	24.5	5.3	60.8	58.8
10	25.0	5.9	59.3	57.3
16	25.0	7.5	56.2	54.2
20	25.0	8.4	54.8	52.8
25	24.3	9.4	53.3	51.3
31.25	23.6	10.5	51.9	49.9
62.5	21.5	15.0	47.4	45.4
100	20.1	19.1	44.3	42.3
200	18.0	27.6	39.8	37.8
250	17.3	31.1	38.3	36.3
300	16.8	34.3	37.1	35.1
400	15.9	40.1	35.3	33.3
500	15.2	45.3	33.8	31.8
Frequency (MHz)	ACR-F Min (dB)	PSACR-F Min (dB)	Delay Max (ns/100m)	
1	67.8	64.8	570.0	
4	55.8	52.8	552.0	
8	49.7	46.7	547.0	
10	47.8	44.8	545.0	
16	43.7	40.7	543.0	
20	41.8	38.8	542.0	
25	39.8	36.8	541.0	
31.25	37.9	34.9	540.0	
62.5	31.9	28.9	539.0	
100	27.8	24.8	538.0	
200	21.8	18.8	537.0	
250	19.8	16.8	536.0	
300	18.3	15.3	536.0	
400	15.8	12.8	536.0	
500	13.8	10.8	536.0	

* Values above 250MHz are information only

VERTICAL CABLE

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



www.verticalcable.com

Rev. 02/2021

Specs subject to change without notice.

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