

# CAT5E DIRECT BURIAL F/UTP (WATERPROOF)



**SKU: 059-486/CMXT**

## DESCRIPTION

Category-5E Direct Burial, F/UTP w/Drain Wire, 8-Conductor, Waterproof Outdoor Jacket, 24awg Solid-Bare Copper.

## FEATURES

- High-Performance Data Cable
- 350MHz Bandwidth for Data Applications,
- Category-5E Shielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 24AWG Solid Copper Conductors
- Exceeds ANSI/TIA- 568.2-D, ISO/IEC 11801
- CAN/CSA-C22.2 No. 214
- Direct Burial (Waterproof)
- ETL Listed, RoHS Compliant
- 1000ft Pull Box

### Technical Data

Rated Temperature (°C)	-20~75
Rated Voltage (V)	60
Flammability Test	IEC-332-1
Product Standard Certification	CMX

### Conductor

Size **Solid Bare Copper**  
24 AWG (0.51mm)

### Insulation

Average Thickness (mm)	0.208
Insulation Diameter (±0.005mm)	0.91
Twisted Pair Diameter (±0.01)	1.92

### Assembly Diameter

**3.80**

### Inner Jacket (Gray)

Average Thickness (mm)	0.40
Min. Point Thickness (mm)	0.36
Outer Diameter (±0.10mm)	4.80
AL Foil	Yes
Drain Wire (Tinned Copper) (mm)	.40

### Outer Jacket (Black)

Average Thickness (mm)	0.60
Min. Point Thickness (mm)	0.54
Outer Diameter (±0.10mm)	6.40
Rip Cord	Yes

### Color of Pairs

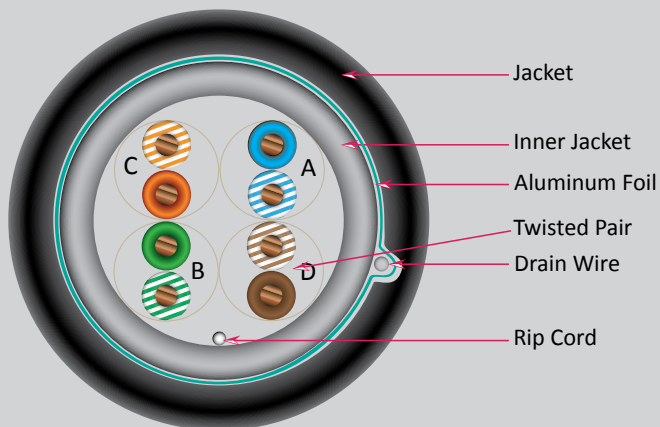
Pair 1:Blue,White-Blue  
Pair 2:Orange,White-Orange  
Pair 3:Green,White-Green  
Pair 4:Brown,White-Brown

### Mechanical Characteristics

Test Object	Jacket
Test Material	LSZH (UV)
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
Bend Radius	>20mm

### Marking on Jacket

VERTICAL 4001453 cETLus VERIFIED CMX F/UTP 4PR  
24AWG OUTDOOR DIRECT BURIAL (DRY) UV LSZH  
CAT5E 350MHz ANSI/TIA- 568.2-D RoHS XXXFT  
(SEQUENTIAL FOOT MARKERS ON JACKET)



**VERTICAL CABLE**

951.696.7772 California  
800.749.2447 Florida  
845.391.8318 New York



[www.verticalcable.com](http://www.verticalcable.com)

Rev. 12/2021

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:

1.0-350MHz Impedance (Ohms)	100±15
1.0-350MHz Delay Skew (ns/100m)	≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)	≤330
Max. Conductor DC Resistance 20°C (ohms/km)	88.5
Resistance Unbalance (%)	≤5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (db/100m)	Next (Min dB)
1	20.0	2.0	68.3
4	23.0	4.1	59.3
8	24.5	5.8	54.8
10	25.0	6.5	53.3
16	25.0	8.2	50.3
20	25.0	9.3	48.8
25	24.3	10.4	47.3
31.25	23.6	11.7	45.9
62.5	21.5	17.0	41.4
100	20.1	22.0	38.3
200	18.0	32.4	33.8
300	16.8	41.0	31.2
350	16.3	44.9	30.1

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(db/100m)	PSELFEXT Min(db/100m)
1	62.3	63.8	60.8
4	53.3	51.7	48.7
8	48.8	45.7	42.7
10	47.3	43.8	40.8
16	44.3	39.7	36.7
20	42.8	37.7	34.7
25	41.3	35.8	32.8
31.25	39.9	33.9	30.9
62.5	35.4	27.8	24.8
100	32.3	23.8	20.8
200	27.8	17.7	14.7
300	25.2	14.2	11.2
350	24.2	12.9	9.9

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