

CAT5E DIRECT BURIAL F/UTP GEL FILLED (FLOODED CORE)

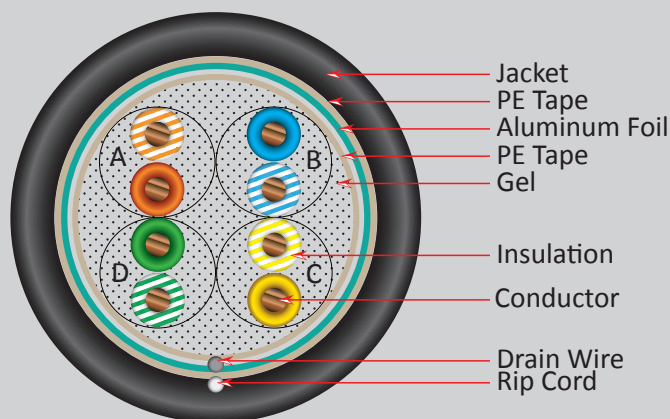


DESCRIPTION

CAT5E F/UTP, CMX Direct Burial, Flooded Core, 8-Conductor, Outdoor Jacket, 24 AWG Solid-Bare Copper.

FEATURES

- Outdoor- and UV-Resistant Jacket Material
- Gel-flooded core
- 24 AWG Bare Copper Conductors
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Meets or exceeds ANSI/TIA-568.2-D, ISO/IEC 11801 Transmission Performance Specifications
- ETL Listed, RoHS Compliant
- Packaging: 1000 ft Pull Box or 2000 ft Wooden Spool
- Weight: 34 lbs (wooden spool)



Jacket color available in
Black

SKU: 059-487/S/CMXF

Technical Data

Rated Temperature	-40~70 °C
Voltage Rating	60 V*
Product Standard Certification	CMX

Conductor

Size	24 AWG
Diameter	0.2 in (0.515 mm)

Insulation

Average Thickness	0.011 in. (0.273 mm)
Min. Point Thickness	0.009 in. (0.245 mm)
Insulation Diameter	0.042 in.

Twisted Pair Diameter	(1.06 mm ±0.005) 0.083 in.
Insulation Rating	(2.12 mm ±0.01) 300 V*

Filler

PE Tape

Drain Wire (Solid Tinned Copper)

Al-foil

PE Film

Assembly Dia.

Jacket (Black)

Gel	Yes
Drain Wire	0.016 in. (0.40 mm)
Al-foil	Yes
PE Film	Yes
Assembly Dia.	0.19 in. (4.80 mm)
Jacket (Black)	LLDPE (UV)
Average Thickness	0.024 in. (0.60 mm)
Min. Point Thickness	0.021 in. (0.54 mm)
Outer Diameter	0.244 in. (6.20 mm ±0.1)
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	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 (-40±2° Cx4hrs)	No Crack

Marking on Jacket

VERTICAL 4001453 cETLus VERIFIED STP 4PR 24AWG OUTDOOR DIRECT BURIAL (FLOODED) UV LLDPE CAT5E 350MHz ANSI/TIA-568.2-D RoHS XXXFT (SEQUENTIAL FOOT MARKERS ON JACKET)

* Conductors will handle up to PoE type 3 voltages 60 V, insulation material will handle up to 300 V.

VERTICAL CABLE

800.749.2447 Florida
951.696.7772 California
845.391.8318 New York



www.verticalcable.com

Rev. 10/2021

Specs subject to change without notice.
It is the sole responsibility of the user to have the most current specs.

CAT5E DIRECT BURIAL F/UTP GEL FILLED (FLOODED CORE)

PERFORMANCE

Electrical Characteristics:

1.0-350MHz Impedance (Ohms)	100±15
1.0-350.0MHz Delay Skew (ns/100m)	<=45
Pair-to-Ground Capacitance Unbalance (pF/100m)	<=330
Max. Conductor DC Resistance 20°C (ohms/km)	86.5
Resistance Unbalance (%)	<=5

Frequency (MHz)	Return loss (Min dB)	Attenuation Max	NEXT (Min dB)	ACR (Min dB)
1	20.0	2.0	68.3	66.3
4	23.0	4.1	59.3	55.2
8	24.5	5.8	54.8	49.0
10	25.0	6.5	53.3	46.8
16	25.0	8.2	50.3	42.1
20	25.0	9.3	48.8	39.5
25	24.3	10.4	47.3	36.9
31.25	23.6	11.7	45.9	34.2
62.5	21.5	17.0	41.4	24.4
100	20.1	22.0	38.3	16.3
155	18.8	28.1	35.5	7.4
200	18.0	32.4	33.8	1.4
240	17.4	36.0	32.6	---
300	16.8	41.0	31.2	---
350	16.3	44.9	30.1	---

Frequency (MHz)	PSNEXT Min (dB)	ELFEXT Min (dB/100m) in (dB/100m)	PSELFEXT
1	66.3	63.8	60.8
4	57.3	51.7	48.7
8	52.8	45.7	42.7
10	51.3	43.8	40.8
16	48.3	39.7	36.7
20	46.8	37.8	34.8
25	45.3	35.8	32.8
31.25	43.9	33.9	30.9
62.5	39.4	27.8	24.8
100	36.3	24.0	21.0
155	33.5	20.0	17.0
200	31.8	17.7	14.7
240	30.6	16.2	13.2
300	29.2	14.2	11.2
350	28.1	12.9	9.9

* Values above 100MHz are information only

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