

# CAT5E DIRECT BURIAL STP GEL FILLED (FLOODED CORE)

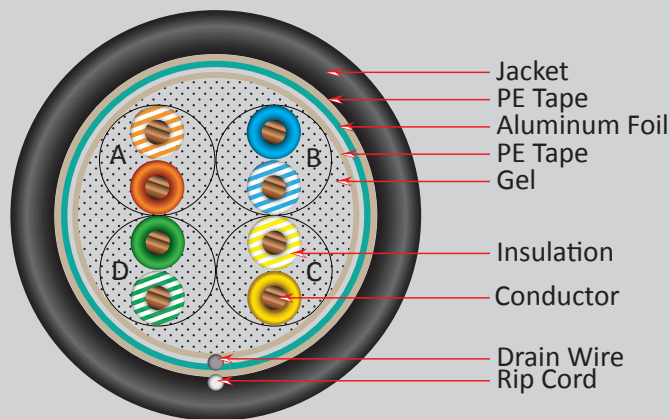


## DESCRIPTION

Category-5E STP, CMXF Direct Burial, Flooded Core, 8-Conductor, Outdoor Jacket, AWG24 Solid-Bare Copper.

## FEATURES

- High-Performance Data Cable
- 350MHz Bandwidth for Data Applications, Fast Ethernet and 155Mbps TP-PMD/CDDI
- Category-5E Shielded Twisted Pair
- Easily Identified Color-Striped Pairs
- 24AWG Solid Copper Conductors
- Exceeds TIA/EIA-568C.2, ISO/IEC 11801
- CAN/CSA -C22.2 No. 214
- Direct Burial Gel Filled (Flooded Core)
- ETL Listed, RoHS Compliant
- 1000ft Wooden Spool



**SKU: 059-487/S/CMXF**

### Technical Data

Rated Temperature	-40~70 °C
Rated Voltage	60v
Product Standard Certification	CMX
<b>Conductor</b>	<b>Solid Bare Copper</b>
Size	24 AWG
<b>Insulation</b>	<b>PE</b>
Average Thickness (mm)	0.228
Min. Point Thickness (mm)	0.220
Insulation Diameter (±0.005mm)	0.97
Twisted Pair Diameter (±0.01)	1.94
<b>Filler</b>	<b>Gel</b>
PE Film	Yes
Drain Wire (Solid Tinned Copper) (mm)	0.40
Al-foil	Yes
PE Film	Yes
Assembly Dia. (mm)	4.80
<b>Jacket (Black)</b>	<b>LLDPE (UV)</b>
Average Thickness (mm)	0.60
Min. Point Thickness (mm)	0.54
Outer Diameter (±0.10mm)	6.15
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)	≥13.8
Aging Elongation (%)	≥100
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 TIA/EIA - 568 C.2 RoHS XXXFT (SEQUENTIAL FOOT MARKERS ON JACKET)

Jacket color available in  
Black

**VERTICAL CABLE**

800.749.2447 Florida  
951.696.7772 California  
845.391.8318 New York



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

1.0-350MHz 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)	95
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
155	18.8	28.1	35.5
200	18.0	32.4	33.8
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)	PSELFEXT Min(dB/100m)
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

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