

# CAT5E DIRECT BURIAL STP (WATERPOOF TAPE)



## DESCRIPTION

Category-5E CMXT Direct Burial, STP w/Drain Wire, Waterproof Tape (Dry), 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-568B.2, ISO/IEC 11801
- CAN/CSA -C22.2 No. 214
- Direct Burial (Waterproof Tape)
- ETL Listed
- 1000ft Wooden Spool



27pcs per pallet  
(Packaging may vary)

**SKU: 059-490/WS/CMXT**

### Technical Data

Rated Temperature (°C)	75
Product Standard Certification	CMX
Application	Horizontal Wiring in LAN
Reference Standard	TIA/EIA 568 & ISO/IEC 11801

### Conductor

Size **Solid Bare Copper**

### Insulation

Average Thickness (mm)	0.200
Min. Point Thickness (mm)	0.185
Insulation Diameter (±0.005mm)	0.91
Twisted Pair Diameter (±0.01)	1.82

### Assembly Diameter

Inner Jacket (Gray) **3.80**

Average Thickness (mm) 0.40

Min. Point Thickness (mm) 0.36

Outer Diameter (±0.10mm) 4.80

AL Foil

Drain Wire (Tinned Cooper) 7/0.16

### Outer Jacket (Black)

Average Thickness (mm) 0.60

Min. Point Thickness (mm) 0.54

Outer Diameter (±0.10mm) 6.20

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

### Marking on Jacket

VERTICAL 4001453 cETLus VERIFIED CMX STP 4PR 24AWG OUTDOOR DIRECT BURIAL (DRY) UV LSZH CAT5E 350MHz TIA/EIA - 568B.2 RoHS XXXFT (SEQUENTIAL FOOT MARKERS ON JACKET)

Jacket color available in  
Black

**VERTICAL CABLE**

954 454-3554 Florida Office

951 696-7772 California Office



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

Rev. 01/2011

Subject to change without notice.

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## PERFORMANCE

### Electrical Characteristics:

1.0-100.0MHz Impedance (Ohms)	100±15
100-200MHz Impedance (Ohms)	100±25
200-350MHz Impedance (Ohms)	100±35
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)	93.8
Resistance Unbalance (%)	<=5

Frequency (Mhz)	Return Loss (Min dB)	Attenuation Max (dB/100m)	Next (ns/100m)	ACR Typ(dB)
0.772	19.4	1.8	67.0	67.7
1	20.0	2.0	65.3	67.3
4	23.0	4.1	56.3	56.2
8	24.5	5.8	51.8	50.0
10	25.0	6.5	50.3	47.8
16	25.0	8.2	47.3	44.0
20	25.0	9.3	45.8	41.5
25	24.3	10.4	44.3	38.9
31.25	23.6	11.7	42.9	36.2
62.5	21.5	17.0	38.4	27.4
100	20.1	22.0	35.3	19.3
200	18.0	32.4	30.8	3.5
300	16.8	41.0	28.2	_____
350	16.3	44.9	27.2	_____

Frequency (Mhz)	PSNext (Min dB)	ELFEXT Min(db/100m)	PSELFEXT Min(db/100m)
0.772	64.0	66.0	63.0
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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