

# CAT5E DIRECT BURIAL STP (WATERPOOF TAPE)

# Jack2Rack

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

## 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 Bandwith 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)

## Technical Data

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

## Conductor

**Solid Bare Copper**

Size 24 AWG

## Insulation

**PE**

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

**3.80**

## Inner Jacket (Gray)

**PVC**

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)

**LSZH(UV)**

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

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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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