

CAT6 DIRECT BURIAL F/UTP (DUAL JACKET) WATERPROOF

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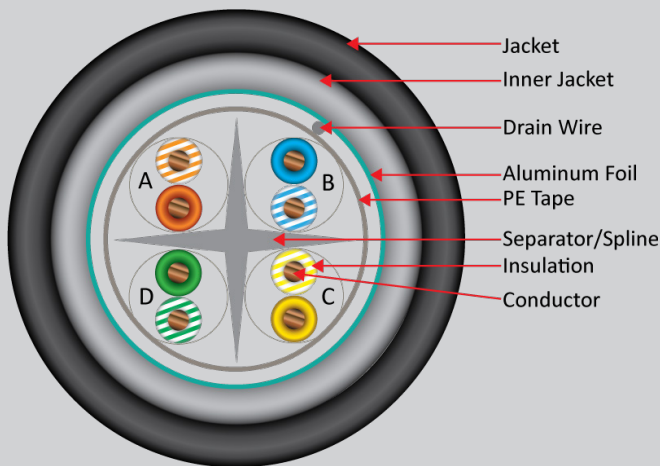
SKU: 069-561/CMXT

DESCRIPTION

Category-6 F/UTP Outdoor, Direct Burial (UV), 23AWG Solid-Bare Copper.

FEATURES

- Category-6 with Overall Shield
- 23AWG Solid Copper Conductors
- Dual Jacket Direct Burial UV Rated
- 550MHz Bandwidth for Data Applications
- IEC 61156-5, IEC11801, ANSI/TIA 568D.2, UL444
- ETL Listed, RoHS Compliant
- 1,000ft Wooden Spool



Technical Data

| | |
|--------------------------|-----------------------|
| Operating Temperature | -40~+60 °C |
| Installation Temperature | 0~+50 °C |
| Rated Voltage | 30V |
| Conductor | Solid Bare Copper |
| Size | 23 AWG |
| Insulation | Three Pairs with HDPE |
| | One pair with Foam PE |
| | 0.308 |
| | 1.189 |
| | HDPE |
| | Yes |

Separator

Rip Cord

Overall Shield

| | |
|--------------------------------------|--------------------------------------|
| PET Tape and Aluminium poly laminate | 0.4+/-0.01mm |
| | TC Drain Wire |
| | PVC (ROHS and IEC60332-1 flame rate) |
| | 7.3+/- 0.4 mm |
| | 0.5+/-0.1mm |
| | LLDPE(ROHS+UV) |
| | 9.2+/- 0.5 mm |
| | 0.65+/-0.1mm |

Inner Jacket

Nominal Diameter
Nominal Thickness

Outer Jacket

Nominal Diameter
Nominal Thickness

Colors of Pairs

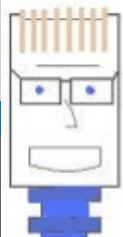
- Pair 1: Blue,White-Blue
- Pair 2: Orange,White-Orange
- Pair 3: Green,White-Green
- Pair 4: Brown,White-Brown

Mechanical Characteristics

| | |
|-------------------------------|----------------|
| Test Object | Jacket |
| Test Material | LLDPE |
| Before Tensile Strength (Mpa) | ≥14.8 |
| Aging Elongation (%) | ≥100 |
| Aging Condition (°Cxhrs) | 100x240 |
| After Tensile Strength (Mpa) | ≥85% of unaged |
| Aging Elongation (%) | ≥50% of unaged |
| Cold Bend (-40±2° Cx4hrs) | No Crack |
| Maximum Pulling Force | 100 N |
| Minimum Bending Radius | 8XOD |

Marking on Jacket

VERTICAL CABLE c(ETL)us 5006092 CMX 75C F/UTP OUTDOOR DIRECT BURIAL UV LLDPE 4PR 23AWG 550MHZ CAT6 ANSI/TIA-568-C.2 RoHS V2034P11458 XXXXFT



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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:

| | |
|------------------------------|--------------------------|
| Characteristics Impedance | 100±15 Ohms |
| Delay Skew | ≤45 (nS/100m) |
| Pair to Ground Capacitance | ≤330 (Pf/100m) Unbalance |
| Max. conductor DC Resistance | 93.8 (ohms/km) 20°C |
| Resistance Unbalance | 5% Max |

| Frequency (Mhz) | Return Loss (Min dB) | Attenuation Max (dB/100m) | Next Min (dB) |
|-----------------|----------------------|---------------------------|---------------|
| 1 | 20.0 | 2.0 | 76.3 |
| 4 | 23.0 | 3.8 | 67.3 |
| 8 | 24.5 | 5.3 | 62.8 |
| 10 | 25.0 | 6.0 | 61.3 |
| 16 | 25.0 | 7.6 | 58.3 |
| 20 | 25.0 | 8.5 | 56.8 |
| 25 | 24.3 | 9.5 | 55.3 |
| 31.25 | 23.6 | 10.7 | 53.9 |
| 62.5 | 21.5 | 15.4 | 49.4 |
| 100 | 20.1 | 19.8 | 46.3 |
| 155 | 18.8 | 25.1 | 43.5 |
| 200 | 18.0 | 29.0 | 41.8 |
| 250 | 17.3 | 32.8 | 40.3 |
| 300 | 16.8 | 36.4 | 39.2 |
| 400 | 15.9 | 43.0 | 37.3 |
| 500 | 15.5 | 47.2 | 35.4 |
| 550 | 14.4 | 50.3 | 32.8 |

| Frequency (Mhz) | PSNext Min (dB) | ELFEXT Min(db/100m) | ACR Min(dB) |
|-----------------|-----------------|---------------------|-------------|
| 1 | 74.3 | 67.8 | 74.3 |
| 4 | 65.3 | 55.7 | 63.5 |
| 8 | 60.8 | 49.7 | 57.5 |
| 10 | 59.3 | 47.8 | 55.3 |
| 16 | 56.3 | 43.7 | 50.7 |
| 20 | 54.8 | 41.7 | 48.3 |
| 25 | 53.3 | 39.8 | 45.8 |
| 31.25 | 51.9 | 37.9 | 43.2 |
| 62.5 | 47.4 | 31.8 | 34.0 |
| 100 | 44.3 | 27.8 | 26.5 |
| 155 | 41.5 | 23.9 | 18.4 |
| 200 | 39.8 | 21.7 | 12.8 |
| 250 | 38.3 | 19.8 | 7.5 |
| 300 | 37.2 | 18.2 | 2.8 |
| 400 | 35.3 | 15.7 | NA |
| 500 | 33.6 | 13.4 | NA |
| 550 | 32.1 | 12.6 | NA |

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