

## DT-CAT5E-DBGEL-BLK

### UTP CAT5e (4PR/8C) Network Cable, 24 AWG Bare Solid Copper, 350 MHz Direct Burial, Gel, 1000', Black PE (Polyethylene) Jacket



The DataTronix CAT5E Copper Direct Burial Cable is engineered for reliable, high-performance networking in outdoor and underground environments. With a rugged, gel-filled construction, this 1000-foot spool of black cable is designed to protect against moisture and ensure long-lasting durability, making it ideal for direct burial installations. The cable meets the CAT5E standard, supporting data transmission speeds of up to 1000 Mbps for a variety of networking applications. Whether you're setting up a local area network (LAN), CCTV systems, or other outdoor communication systems, this direct burial cable is built to withstand harsh conditions while delivering secure, high-quality performance.

#### Key Features:

- 24 AWG UTP 4-pair 8-conductor (bare solid copper)
- Meets TIA/EIA-568-B standards for CAT5E compliance
- High-density polyethylene insulation (HDPE)
- Waterproof gel filling to prevent moisture damage in direct burial installations
- Black UV-resistant outer jacket
- Ripcord
- 1000 ft Pull box

#### Mechanical Characteristics

|                                |                       |
|--------------------------------|-----------------------|
| Operating Temperature Range    | 68- 158°F (20 - 70°C) |
| Installation Temperature Range | 32- 140°F (0 - 60°C)  |
| Max. Recommend Pull Tension    | 25 lbs. ( 11.33kg)    |
| Min. Bend Radius ( Install)    | 0.8 in. (20.32 mm)    |

#### Physical Specifications

|                          |                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------|
| Type                     | UTP CAT5e 4PR/8C                                                                     |
| Conductor                | 24 AWG Bare Solid Copper                                                             |
| Cable Size               | 4p                                                                                   |
| Conductor Diameter Nom.  | 0.0019" (0.50 mm ±0.02)                                                              |
| Material                 | Bare Solid Copper                                                                    |
| Insulation               |                                                                                      |
| Material                 | HDPE (High-density polyethylene)                                                     |
| Waterproof               | Jelly                                                                                |
| Insulation Diameter Nom. | 0.033"(0.85 mm)                                                                      |
| Jacket                   | PE (Polyethylene)                                                                    |
| Outer Diameter Nom.      | 5.1                                                                                  |
| Color Code               | White/Blue, White /Green, White/ Brown, White/Orange, White with Stripe - Insulation |
| Rip Cord                 | Yes                                                                                  |

#### Electrical Performance

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Capacitance          | 14pF/ft                                                                          |
| Velocity of Property | PE+71%                                                                           |
| Conductor DCR        | 9.0 Ω/100m                                                                       |
| Impedance            | 1.0 – 100Mhz /100 Ω+ 15%<br>100 – 155Mhz /100 Ω+ 18%<br>155 – 200Mhz /100 Ω+ 19% |
| Compliants           | TIA/EIA 568B                                                                     |

#### Electrical Performance (@68°F. (20°C))

| Frequency<br>MHz | Pair To Pair       |                       | ACR<br>(dB/100m) Min | Power Sum   |             |
|------------------|--------------------|-----------------------|----------------------|-------------|-------------|
|                  | NEXT (dB/100m) Min | ELFEXT (dB/100m) Min. |                      | Attenuation | Return Loss |
| 0.772            | 70.0               | 69.0                  | 68.2                 | 1.8         | NA          |
| 1.0              | 68.3               | 66.8                  | 66.3                 | 2.0         | 20.0        |
| 4.0              | 59.3               | 54.7                  | 55.2                 | 4.0         | 23.0        |
| 8.0              | 54.8               | 48.7                  | 49.0                 | 5.8         | 24.5        |
| 10.0             | 53.3               | 46.8                  | 46.8                 | 6.5         | 25.0        |
| 16.0             | 50.3               | 42.9                  | 42.0                 | 8.2         | 25.0        |
| 20.0             | 48.8               | 40.7                  | 39.5                 | 9.2         | 25.0        |
| 25.0             | 47.3               | 38.8                  | 36.9                 | 10.4        | 24.3        |
| 31.25            | 45.9               | 36.9                  | 34.2                 | 11.7        | 23.6        |
| 62.5             | 41.4               | 30.8                  | 24.4                 | 17.0        | 21.5        |
| 100              | 38.3               | 26.8                  | 16.3                 | 22.0        | 20.1        |