

## DT-CAT6-DBGEL-BLK

**UTP CAT6 (4PR/8C) Network Cable, 23 AWG Bare Solid Copper, 550 MHz Direct Burial, Gel, 1000', Black PE (Polyethylene) Jacket**



The Datatronix CAT6 Copper Direct Burial Cable is engineered for high-performance, reliable networking in outdoor and underground environments. Featuring 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 CAT6 standard, supporting data transmission speeds of up to 10 Gbps for demanding 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:

- 23 AWG UTP 4-pair 8-conductor (bare solid copper)
- Meets TIA/EIA-568-B standards for CAT6 compliance
- High-density polyethylene insulation (HDPE)
- Waterproof gel filling to prevent moisture damage in direct burial installations
- Black UV-resistant outer jacket
- Ripcord
- Integrated Plastic Pair Separator
- 1000 ft Pull box

### Physical Specifications

|                          |                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------|
| Type                     | UTP CAT6 4PR/8C                                                                      |
| Conductor                |                                                                                      |
| Conductor                | 23 AWG Bare Solid Copper                                                             |
| Cable Size               | 4p                                                                                   |
| Conductor Diameter Nom.  | 0.022" (0.56 mm)                                                                     |
| Material                 | Bare Solid Copper                                                                    |
| Insulation               |                                                                                      |
| Material                 | HDPE (High-density polyethylene)                                                     |
| Waterproof               | Jelly                                                                                |
| Insulation Diameter Nom. | 0.039" (1.0 mm)                                                                      |
| Jacket                   | PE (Polyethylene)                                                                    |
| Outer Diameter Nom.      | 0.244" (6.2mm)                                                                       |
| Color Code               | White/Blue, White /Green, White/ Brown, White/Orange, White with Stripe - Insulation |

### Electrical Characteristics

| MHz   | Return Loss | Loss (dB/100M) | NEXT | PSNEXT | ELFEXT | PSELFEXT | PD NS/100m | PD Skew nS/100m |
|-------|-------------|----------------|------|--------|--------|----------|------------|-----------------|
| 1     | 20.0        | 2.0            | 74.3 | 72.3   | 67.8   | 64.8     | 570        | 45              |
| 4     | 23.0        | 3.8            | 65.3 | 63.3   | 55.8   | 52.8     | 570        | 45              |
| 8     | 24.5        | 5.3            | 60.8 | 58.8   | 49.7   | 46.7     | 570        | 45              |
| 10    | 25.0        | 6.0            | 59.3 | 57.3   | 47.8   | 44.8     | 545        | 45              |
| 16    | 25.0        | 7.6            | 56.2 | 54.2   | 43.7   | 40.7     | 545        | 45              |
| 20    | 25.0        | 8.5            | 54.8 | 52.8   | 41.8   | 38.8     | 545        | 45              |
| 25    | 24.3        | 9.5            | 53.3 | 51.3   | 39.8   | 36.8     | 545        | 45              |
| 31.25 | 23.6        | 10.7           | 51.9 | 49.9   | 37.9   | 34.9     | 545        | 45              |
| 62.5  | 21.5        | 15.4           | 47.4 | 45.4   | 31.9   | 28.9     | 545        | 45              |
| 100   | 20.1        | 19.8           | 44.3 | 42.3   | 27.8   | 24.8     | 538        | 45              |
| 155   | 18.8        | 25.2           | 41.4 | 39.4   | 24.0   | 21.0     | 538        | 45              |
| 200   | 18.0        | 29.0           | 39.8 | 37.8   | 21.8   | 18.8     | 538        | 45              |
| 250   | 17.3        | 32.8           | 38.3 | 36.3   | 19.8   | 16.38    | 536        | 45              |
| 300   | 16.8        | 36.4           | 37.1 | 35.1   | 18.3   | 15.3     | 538        | 45              |
| 350   | 16.3        | 39.8           | 36.1 | 34.1   | 16.9   | 13.9     | 538        | 45              |