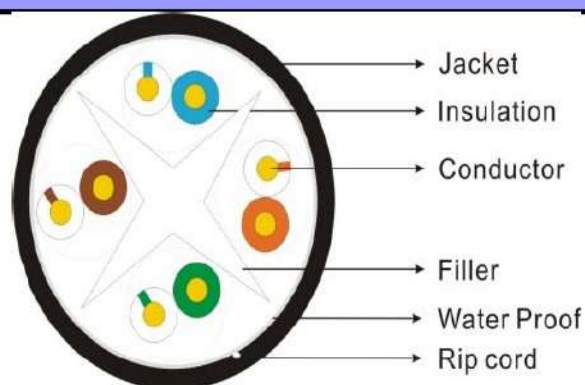




### Description

23 AWG Direct Burial Outdoor High Performance Cable

### Applicable Standards

- Meets or exceeds TIA - 568-C.2
- ROHS Compliant
- ATM 155 Mbps
- Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4,
- 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)
- 16 Mbps Token Ring™ (IEEE 802.5)

### Physical Characteristics

|                                     |                            |
|-------------------------------------|----------------------------|
| Number of Conductor Pairs           | 4                          |
| Size                                | 23 AWG                     |
| Stranding                           | Solid                      |
| Conductor Material                  | Solid Annealed Bare Copper |
| Shield Material                     | Unshielded                 |
| Rip Cord                            | Yes                        |
| Insulation Material                 | HDPE                       |
| Insulation Overall Diameter         | 0.040 in. ± 0.0002 in.     |
| Insulation Average Thickness        | 0.0088 in.                 |
| Jacket                              | LDPE                       |
| Outer Jacket Average Wall Thickness | 0.022 in.                  |
| Outer Jacket Nom. O.D.              | 0.244 in. ± 0.008 in.      |
| Nominal Weight                      | 30 lbs.                    |

### Mechanical Characteristics

|                    |              |                  |
|--------------------|--------------|------------------|
| Temperature Rating | Installation | -40° to + 75°C   |
|                    | Operating    | -40° to + 75°C   |
| Tensile Strength   | Before       | ≥ 19 Mpa         |
| Elongation         | Aging        | ≥ 300%           |
| Aging Condition    |              | 100°C x 96 hours |
|                    | After        | ≥ 80% of unaged  |
|                    | Aging        | ≥ 50% of unaged  |

### Color Code

|        |               |        |
|--------|---------------|--------|
| Pair 1 | White/Blue    | Blue   |
| Pair 2 | White/Orange  | Orange |
| Pair 3 | White / Green | Green  |
| Pair 4 | White / Brown | Brown  |

### Cable Marking

XXXXXXX-X CATEGORY 6E 550MHZ 23AWG 4PR UTP UV RATED  
OUTDOOR DIRECT BURIAL XXXXT

### Electrical Performance

| Frequency<br>(MHz) | Attenuation<br>(dB/100m) | Return loss<br>(dB) | NEXT<br>(dB) | PS-NEXT<br>(dB) |
|--------------------|--------------------------|---------------------|--------------|-----------------|
|                    | Max.                     | Min.                | Min.         | Min.            |
| 1                  | 2.03                     | 20.00               | 74.30        | 72.30           |
| 4                  | 3.87                     | 23.01               | 65.27        | 63.27           |
| 10                 | 5.95                     | 25.00               | 59.30        | 57.30           |
| 16                 | 7.55                     | 25.00               | 56.24        | 54.24           |
| 20                 | 8.47                     | 25.00               | 54.78        | 52.78           |
| 25                 | 9.51                     | 24.32               | 53.33        | 51.33           |
| 31.25              | 10.67                    | 23.64               | 51.88        | 49.88           |
| 62.5               | 15.38                    | 21.54               | 47.36        | 45.36           |
| 100                | 19.80                    | 20.11               | 44.30        | 51.30           |
| 200                | 28.98                    | 18.00               | 39.78        | 37.78           |
| 250                | 32.85                    | 17.32               | 38.33        | 36.33           |
| 350                | 39.79                    | 16.30               | 36.14        | 34.14           |
| 550                | 51.76                    | 14.92               | 33.19        | 31.19           |

| Frequency<br>(MHz) | ELFEXT<br>(dB/100m) | PS-ELFEXT<br>(dB/100m) | Delay<br>(ns/100m) | ACR<br>(dB) |
|--------------------|---------------------|------------------------|--------------------|-------------|
|                    | Min.                | Min.                   | Max.               |             |
| 1                  | 67.80               | 64.80                  | 570.00             | 72.70       |
| 4                  | 55.76               | 52.76                  | 552.00             | 61.40       |
| 10                 | 47.80               | 44.80                  | 545.38             | 53.35       |
| 16                 | 43.72               | 40.72                  | 543.00             | 48.69       |
| 20                 | 41.78               | 38.78                  | 542.05             | 46.31       |
| 25                 | 39.84               | 36.84                  | 541.20             | 43.82       |
| 31.25              | 37.90               | 34.90                  | 540.44             | 41.21       |
| 62.5               | 31.88               | 28.88                  | 538.55             | 31.98       |
| 100                | 27.80               | 24.80                  | 537.60             | 24.50       |
| 200                | 21.78               | 18.78                  | 536.55             | 10.80       |
| 250                | 19.84               | 16.84                  | 536.28             | 5.48        |
| 350                | 16.92               | 13.92                  | 535.92             | -3.65       |
| 550                | 12.99               | 9.99                   | 535.54             | -18.57      |

\* Values above 250MHz are information only

### Electrical Characteristics

|                                                   |                     |
|---------------------------------------------------|---------------------|
| Maximum Conductor DC Resistance @ 20°C            | ≤ 9.5 Ω/100 Meters  |
| Maximum DC Resistance Unbalanced @ 20°C           | ≤ 2.5%              |
| Maximum Pair-to-Pair Ground Capacitance Unbalance | ≤ 330 pF/100 Meters |
| Characteristic Impedance (1 ~ 350 MHz)            | 100 ± 15 Ω          |
| Mutual Capacitance                                | ≤ 5.6 nF/100 Meters |
| Maximum Delay Skew                                | ≤ 45 nS/100 Meters  |
| Nom. Velocity of Propagation                      | 70%                 |

### Part No :

BW-L6EUX-1000BLK

### Product Description :

CAT6E 23AWG UNSHIELDED CMX OUTDOOR SOLID, BLACK, 1000 FT