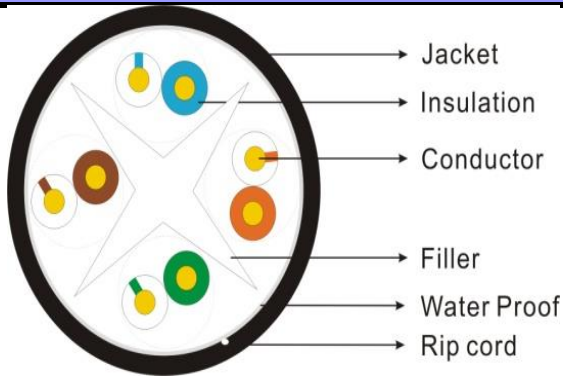




Category 6E Direct Burial Outdoor Cable



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 | 0.031 in |
| Outer Jacket Nom. O.D. | 0.318 in. ± 0.008 in. |
| Nominal Weight | 32 lbs. |

Mechanical Characteristics

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

XXXXXX CATEGORY 6E 550MHz 23AWG 4PR UTP UV RATED
OUTDOOR DIRECT BURIAL ****FT

Electrical Performance

| Frequency (MHz) | Attenuation (dB/100m) | Return loss (dB) | NEXT (dB) | PS-NEXT (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 (MHz) | ELFEXT (dB/100m) | PS-ELFEXT (dB/100m) | Delay (ns/100m) | ACR (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 Numbers

| Part Number | Color | Put-up |
|-------------|-------|-------------|
| 6E0SPBK2 | Black | 1,000' Reel |