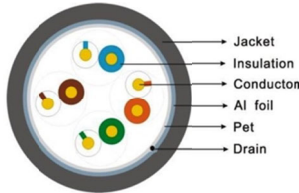


Category 5E 350MHz FTP

Direct Burial Shielded Outdoor Cable

Cable Detail



Description

24 AWG Direct Burial Shielded 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

| | |
|---------------------------|----------------------------|
| Conductor Material | Solid Annealed Bare Copper |
| Number of Conductor Pairs | 4 |
| Size | 24 AWG |
| Stranding | Solid |
| Insulation Material | HDPE |
| Overall Diameter | 0.040 in. ± 0.0002 in |
| Average Thickness | 0.0081 in |
| Jacket Material | LDPE |
| Average Wall Thickness | 0.021 in. |
| Nominal Outer Diameter | 0.244 in. ± 0.008 in |
| Nominal Weight | 28 lbs. |
| Shield Material | Al Foil |
| Ripcord | Yes |

Mechanical Characteristics

| | | |
|--------------------|------------------|------------------|
| Temperature Rating | Installation | -40°C to + 75°C |
| | Operating | -40°C to + 75°C |
| Tensile Strength | Before | >= 19 Mpa |
| Elongation | Aging | >= 300% |
| | 100°C x 96 hours | |
| | After | >= 85% of unaged |
| Aging Condition | Aging | >= 50% of unaged |

Insulation Colors

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

Part Numbers

Jacket Color

Package

5ESOSPBK2

Black

1000FT / Reel

Electrical Characteristics

| | |
|--|---------------------|
| Max. Conductor DC Resistance @ 20°C | 9.5 Ω / 100 Meters |
| Maximum DC Resistance Unbalanced @ 20°C | 2.5% |
| Max. 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 |
| Max. Delay Skew | 45 nS / 100 Meters |

Electrical Performance

| Frequency (MHz) | Attenuation (dB/100m) Max | Return loss (dB) Min. | NEXT (dB) Min. | PS-NEXT (dB) Min. |
|-----------------|---------------------------|-----------------------|----------------|-------------------|
| 1 | 2.04 | 20.00 | 65.30 | 61.00 |
| 4 | 4.05 | 23.01 | 56.27 | 48.96 |
| 10 | 6.47 | 25.0 | 50.30 | 41.00 |
| 16 | 8.25 | 25.0 | 47.24 | 36.92 |
| 20 | 9.27 | 25.0 | 45.78 | 34.98 |
| 25 | 10.42 | 24.32 | 44.33 | 33.04 |
| 31.25 | 11.72 | 23.64 | 42.88 | 31.10 |
| 62.5 | 16.99 | 21.54 | 38.36 | 25.08 |
| 100 | 21.98 | 20.11 | 35.30 | 21.00 |
| 350 | 44.85 | 16.30 | 27.14 | 10.12 |

| Frequency (MHz) | ELFEXT (dB/100m) Min. | PS-ELFEXT (dB) Min. | Delay (ns/100m) Max. | ACR (dB) |
|-----------------|-----------------------|---------------------|----------------------|----------|
| 1 | 64.00 | 61.00 | 570.00 | 62.90 |
| 4 | 51.96 | 48.96 | 552.00 | 51.37 |
| 10 | 44.00 | 41.00 | 545.38 | 42.50 |
| 16 | 39.92 | 36.92 | 543.00 | 37.34 |
| 20 | 37.98 | 34.98 | 542.05 | 34.68 |
| 25 | 36.04 | 33.04 | 541.20 | 31.83 |
| 31.25 | 34.10 | 31.10 | 540.44 | 28.78 |
| 62.5 | 28.08 | 25.08 | 538.55 | 17.96 |
| 100 | 24.00 | 21.00 | 537.60 | 8.90 |
| 350 | 13.12 | 10.12 | 535.92 | -17.71 |

* Values above 100MHz are information only.

Cable Marking

CATEGORY 5E 350MHZ 24AWG 4PR FTP UV RATED OUTDOOR DIRECT BURIAL *****