



Description

24 AWG Direct Burial Shielded Outdoor High Performance Cable

Applicable Standards

- ETL Listed Type CMX
- C(ETL) listed CMX
- ETL Verified to TIA - 568-C.2, and ISO/IEC 11801
- 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 | 24 AWG |
| Stranding | Solid |
| Conductor Material | Solid Annealed Bare Copper |
| Shield Material | AL Foil |
| Rip Cord | Yes |
| Insulation Material | HDPE |
| Insulation Overall Diameter | 0.040 in. ± 0.0002 in. |
| Insulation Average Thickness | 0.0081 in. |
| Jacket | LDPE (UV) |
| Outer Jacket Average Wall Thickness | 0.021 in. |
| Outer Jacket Nom. O.D. | 0.244 in. ± 0.008 in. |
| Flammability Test | IEC-332-1 |
| Nominal Weight | 27 lbs. |

Mechanical Characteristics

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

CATEGORY 5E 350MHZ 24AWG 4 PR FTP UV RATED OUTDOOR DIRECT BURIAL XXXXXXX C(ETL)US ****FT

Electrical Performance

| Frequency (MHz) | Attenuation (dB/100m) | Return loss (dB) | NEXT (dB) | PS-NEXT (dB) |
|-----------------|-----------------------|------------------|-----------|--------------|
| | Max. | Min. | Min. | Min. |
| 1 | 2.04 | 20.00 | 65.30 | 61.00 |
| 4 | 4.05 | 23.01 | 56.27 | 48.96 |
| 10 | 6.47 | 25.00 | 50.30 | 41.00 |
| 16 | 8.25 | 25.00 | 47.24 | 36.92 |
| 20 | 9.27 | 25.00 | 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) | PS-ELFEXT (dB/100m) | Delay (ns/100m) | ACR (dB) |
|-----------------|------------------|---------------------|-----------------|----------|
| | Min. | Min. | Max. | |
| 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

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 Unbalanced | ≤ 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 |

Part Numbers

| Part # | Color | Put- up |
|--------------|-------|-------------|
| SESOSP BK -2 | Black | 1,000' Reel |