

Tight Twisted Pair Digital Terminating Cable

Spec. 7271 • Type CMR • 1161A Series

24 AWG Shielded/Extended Frequency

Product Construction

Conductors

- 24 AWG solid tinned annealed copper

Insulation:

- High-density polyethylene, nom. = 0.036"

Pairing:

- Tight pair lays

Color Code:

- See chart below

Shield:

- Polyester-backed aluminum foil shield

Drain Wire:

- 24 AWG solid tinned copper

Rip Cord:

- Applied longitudinally under jacket

Jacket:

- Flame-retardant gray PVC

Packaging

- 1000' reel (RL)
- Bulk reels are available upon request

Applications

- T1/DS1
- DS1C
- DS2
- 10 BASE-T
- Shielded digital terminating cable is designed for switching and transmission equipment cabling for telephone central office

Compliances

- TIA/EIA 568 C.2
- UL and c(UL) Type CMR

Features

- Nominal 100 Ohm impedance
- Shielding from EMI
- Short twist length for better crosstalk performance



| PRODUCT NUMBER | PAIRS | O.D. (INCHES) | WEIGHT (LBS/KFT) |
|----------------|-------|---------------|------------------|
| 7271.01224.S1R | 12 | 0.35 | 60 |
| 7271.02524.S1R | 25 | 0.48 | 109 |
| 7271.02824.S1R | 28 | 0.51 | 132 |

Data subject to change without notice.

Electrical Characteristics

| | 24 AWG | Frequency | Attenuation dB/100 m | NEXT dB |
|-----------------------------------------------------------|---------------------------------------------|-----------|----------------------|---------|
| DC Resistance (max) Ohms/100 m (328 ft) @ 20°C | 9.38 | 0.772 MHz | 1.9 | 56 |
| Mutual Capacitance (max) pF/ft @ 1 kHz | 17 | 1 MHz | 2.2 | 55 |
| Insulation Resistance (min) (mohms - 1000') | 500 | 4 MHz | 4.1 | 45 |
| Characteristic Impedance Frequency (f): 1.0 MHz | Ohms 100 ± 15 | 8 MHz | 5.0 | 41 |
| Capacitance Unbalance pF/100m | Pr to Pr 70 (max) Pr to Ground 330 (max) | 10 MHz | 5.7 | 39 |
| | | 16 MHz | 7.2 | 35 |

Color Code Chart

| PAIR NO. | TIP | RING | PAIR NO. | TIP | RING |
|----------|-------|--------|----------|--------|--------|
| 1 | White | Blue | 14 | Black | Brown |
| 2 | White | Orange | 15 | Black | Slate |
| 3 | White | Green | 16 | Yellow | Blue |
| 4 | White | Brown | 17 | Yellow | Orange |
| 5 | White | Slate | 18 | Yellow | Green |
| 6 | Red | Blue | 19 | Yellow | Brown |
| 7 | Red | Orange | 20 | Yellow | Slate |
| 8 | Red | Green | 21 | Violet | Blue |
| 9 | Red | Brown | 22 | Violet | Orange |
| 10 | Red | Slate | 23 | Violet | Green |
| 11 | Black | Blue | 24 | Violet | Brown |
| 12 | Black | Orange | 25 | Violet | Slate |
| 13 | Black | Green | | | |

