



Category 5E CMR



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Bare solid copper
2. **Insulation:** Polyvinyl Chloride PVC
3. **Rip Cord:** Rip cord for ease of jacket removal
4. **Jacket:** Polyvinyl Chloride PVC.

APPLICATIONS AND FEATURES:

Southwire Cat 5e unshielded twisted pair cable is a high performance data communication cable. This ethernet cable is designed for indoor network installations TYPE CMR. It may be used in Ethernet Networking system, Video MPEG4 / M-JPEG / Digital / Analog / Baseband / Broadband and other Multimedia Voice applications.

- DC Resistance: <9.38 ohm/100m
- DC Resistance Unbalance: <5.00%
- Mutual Capacitance: <5.60 nF/100m
- Capacitance Unbalance (Pair to Ground): <330 pF/100m
- Insulation Resistance: >500 MOhm-100m
- Dielectric Strength: 2.5 DCkV/sec
- Impedance (mean): >100+/- 15% (1 < freq < 350MHz)
- Propagation 011 Delay: <534 ns/100m
- Propagation 011 Delay Skew: <45 ns/100m

SPECIFICATIONS:

- UL 444 Listed CMR
- UL 1666 Standard for Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts
- IEEE 802.3 and IEC 61156-5 Ed. 2.0
- RoHS-3 Complies with European Directive 2015/863
- TIA/EIA 568.D.2 test to 350MHz , beyond 100MHz only for reference
- NEC Article 800

SAMPLE PRINT LEGEND:

CAT5E SOUTHWIRE® SIGNAL®96263 CAT5E 24AWG 4PR UTP C(UL)US LISTED E118871-LBI TYPE CMR 75C SUN RES TYPE CMR FT4 TESTED to 350MHZ ETL VERIFIED to TIA/EIA-568.D.2 CAT5E YYMMDD 0000FT





Table 1 – Weights and Measurements

| Stock Number | Cond. Size AWG/Kcmil | Number of Pairs pair | Jacket Thickness mil | Approx. OD inch | Approx. Weight lb/1000ft |
|--------------|-------------------------|-------------------------|-------------------------|--------------------|-----------------------------|
| 96263 | 24 | 4 | 18 | 0.193 | 21 |

All dimensions are nominal and subject to normal manufacturing tolerances
 ◊ Cable marked with this symbol is a standard stock item

Table 2 – Weights and Measurements (Metric)

| Stock Number | Cond. Size AWG/Kcmil | Number of Pairs pair | Jacket Thickness mm | Approx. OD mm | Approx. Weight lb/km |
|--------------|-------------------------|-------------------------|------------------------|------------------|-------------------------|
| 96263 | 24 | 4 | 0.46 | 4.90 | 31 |

Electrical Performance

| Freq. (MHz) | Attenuation (dB/ 100m)Max | NEXT (dB/ 100m) Min | PSNEXT (dB/ 100m)Min | ELFEXT (dB/ 100m)Min | PSELFEXT (dB/ 100m)Min | RL (dB/ 100m) Min | PDelay (ns/ 100m)Max |
|----------------|---------------------------------|------------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|
| 1 | 2 | 65.3 | 62.3 | 63.8 | 60.8 | 20 | 570 |
| 4 | 4.1 | 56.3 | 53.3 | 51.8 | 48.8 | 23 | 552 |
| 8 | 5.8 | 51.8 | 48.8 | 45.7 | 42.7 | 24.5 | 547 |
| 10 | 6.5 | 50.3 | 47.3 | 43.8 | 40.8 | 25 | 545 |
| 16 | 8.2 | 47.2 | 44.2 | 39.7 | 36.7 | 25 | 543 |
| 20 | 9.3 | 45.8 | 42.8 | 37.8 | 34.8 | 25 | 542 |
| 25 | 10.4 | 44.3 | 41.3 | 35.8 | 32.8 | 24.3 | 541 |
| 31.25 | 11.7 | 42.9 | 39.9 | 33.9 | 30.9 | 23.6 | 540 |
| 62.5 | 17 | 38.4 | 35.4 | 27.9 | 24.9 | 21.5 | 539 |
| 100 | 22 | 35.3 | 32.3 | 23.8 | 20.8 | 20.1 | 538 |
| 200 | 32.4 | 30.8 | 27.8 | 17.8 | 14.8 | 18 | 537 |
| 350 | 44.9 | 27.1 | 24.1 | 12.9 | 9.9 | 16.3 | 536 |

