



## Category 5E CM



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 CM. 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 Delay: <534 ns/100m
- Propagation Delay Skew: <45 ns/100m

### SPECIFICATIONS:

- UL 444 CM/CL2
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test
- 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:

CAT 5E SOUTHWIRE® SIGNAL®96262 CAT 5E 24AWG 4PR UTP C(UL)US LISTED E118871-LBI TYPE CM 75C SUN RES -- TESTED to 350MHZ -- ETL VERIFIED to TIA/EIA-568.D.2 CAT 5E YYMMDD 0000FT





**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size<br>AWG/Kcmil | Number of Pairs<br>pair | Jacket Thickness<br>mil | Approx. OD<br>inch | Approx. Weight<br>lb/1000ft |
|--------------|-------------------------|-------------------------|-------------------------|--------------------|-----------------------------|
| 96262        | 24                      | 4                       | 18                      | 0.193              | 23                          |

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<br>AWG/Kcmil | Number of Pairs<br>pair | Jacket Thickness<br>mm | Approx. OD<br>mm | Approx. Weight<br>lb/km |
|--------------|-------------------------|-------------------------|------------------------|------------------|-------------------------|
| 96262        | 24                      | 4                       | 0.46                   | 4.90             | 34                      |

**Electrical Performance**

| Freq.<br>(MHz) | Attenuation<br>(dB/100m)Max | NEXT<br>(dB/100m) Min | PSNEXT<br>(dB/100m)Min | ELFEXT<br>(dB/100m)Min | PSELFEXT<br>(dB/100m)Min | RL<br>(dB/100m) Min | P.Delay<br>(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                     |

