



## Category 5E CMP



Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Bare solid copper
2. **Insulation:** Fluorinated Polyethylene FPE
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 CMP. 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 Listed CMP
- IEEE 802.3 and IEC 61156-5 Ed. 2.0
- RoHS-3 Complies with European Directive 2015/863
- NFPA 262
- TIA/EIA 568.D.2 test to 350MHz , beyond 100MHz only for reference
- NEC Article 800

### SAMPLE PRINT LEGEND:

SOUTHWIRE® SIGNAL®966956 CAT5E 24 AWG 4PR UTP E118871-LBI C(UL)US TYPE CMP 75C -- CMP FT6 TESTED TO 350 MHZ ETL VERIFIED TO TIA/EIA-568.D.2 CAT5E -- 0000FT -- MM/DD/YY HH:MM





**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size | Number of Pairs | Jacket Thickness | Approx. OD | Approx. Weight |
|--------------|------------|-----------------|------------------|------------|----------------|
|              | AWG/Kcmil  | pair            | mil              | inch       | lb/1000ft      |
| 966956       | 24         | 4               | 14               | 0.185      | 20             |

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 | Number of Pairs | Jacket Thickness | Approx. OD | Approx. Weight |
|--------------|------------|-----------------|------------------|------------|----------------|
|              | AWG/Kcmil  | pair            | mm               | mm         | lb/km          |
| 966956       | 24         | 4               | 0.36             | 4.70       | 30             |

**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                 |

