

# GenSPEED® 5000 Category 5e F/UTP (ScTP) Cable

## Standards-Compliant

### Features and Benefits

- Foil shield reduces electromagnetic interference (EMI) for optimal performance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

### Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

### Standard Compliances

- ANSI/TIA 568-C.2
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)



### CONSTRUCTION

#### Conductors

- 24 AWG solid bare annealed copper

#### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

#### Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown

#### Core Tape

- Polyester

#### Drain Wire

- 26 AWG stranded (7/34) solid tinned copper

#### Shield

- Polyester-backed aluminum foil (aluminum side in)

#### Jacket









- Flame-Retardant PVC

### PHYSICAL DATA

|                                    | CMR (Non-Plenum) | CMP (Plenum) |
|------------------------------------|------------------|--------------|
| Nominal Cable Diameter (in)        | 0.250            | 0.225        |
| Nominal Cable Weight (lbs/1000 ft) | 36               | 32           |
| Minimum Bend Radius (in)           | 1.0              | 1.0          |
| Maximum Pulling Force (lbs)        | 25               | 25           |
| Temperature Rating (°C)            |                  |              |
| Installation:                      | 0 to +60         | 0 to +60     |
| Operation:                         | -20 to +75       | -20 to +75   |

### PART NUMBERS

Standard packaging: 1000' Spool

| Jacket Color   | Spool            |              |
|--|------------------|--------------|
|  | CMR (Non-Plenum) | CMP (Plenum) |
|  Blue   | 2133496E         | 2131611E     |
|  White  | 2133774E         | 2131778E     |
|  Yellow | 2133777E         | 2131777E     |
|  Gray   | 2133495E         | 2131673E     |
|  Red    | 2133778E         | 2131774E     |
|  Orange | 2133776E         | 2131776E     |
|  Green  | 2133775E         | 2131775E     |
|  Black  | 2133779E         | 2131779E     |

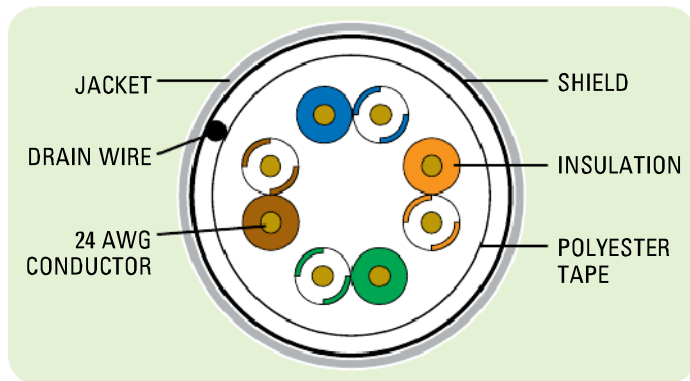
Data subject to change without notice.

**ELECTRICAL PERFORMANCE**

| Frequency<br>MHz | PSACR*<br>(min) | ACR*<br>(min) | Insertion Loss<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSACRF<br>(min) | ACRF<br>(min) | Return Loss<br>(min) |
|------------------|-----------------|---------------|-------------------------|-----------------|---------------|-----------------|---------------|----------------------|
| 1                | 60.3            | 63.3          | 2.0                     | 62.3            | 65.3          | 60.8            | 63.8          | 20.0                 |
| 4                | 49.2            | 52.2          | 4.1                     | 53.3            | 56.3          | 48.8            | 51.8          | 23.0                 |
| 10               | 40.8            | 43.8          | 6.5                     | 47.3            | 50.3          | 40.8            | 43.8          | 25.0                 |
| 16               | 36.0            | 39.0          | 8.2                     | 44.2            | 47.2          | 36.7            | 39.7          | 25.0                 |
| 20               | 33.5            | 36.5          | 9.3                     | 42.8            | 45.8          | 34.8            | 37.8          | 25.0                 |
| 25               | 30.9            | 33.9          | 10.4                    | 41.3            | 44.3          | 32.8            | 35.8          | 24.3                 |
| 31.25            | 28.2            | 31.2          | 11.7                    | 39.9            | 42.9          | 30.9            | 33.9          | 23.6                 |
| 62.5             | 18.4            | 21.4          | 17.0                    | 35.4            | 38.4          | 24.9            | 27.9          | 21.5                 |
| 100              | 10.3            | 13.3          | 22.0                    | 32.3            | 35.3          | 20.8            | 23.8          | 20.1                 |
| 155              | 1.4             | 4.4           | 28.1                    | 29.4            | 32.4          | 17.0            | 20.0          | —                    |
| 200              | —               | —             | 32.4                    | 27.8            | 30.8          | 14.8            | 17.8          | —                    |
| 250              | —               | —             | 36.9                    | 26.3            | 29.3          | 12.8            | 15.8          | —                    |
| 300              | —               | —             | 41.0                    | 25.1            | 28.1          | 11.3            | 14.3          | —                    |
| 350              | —               | —             | 44.9                    | 24.1            | 27.1          | 9.9             | 12.9          | —                    |

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Values above 100 MHz are for information only.  
\*PSACR & ACR not specified in ANSI/TIA 568-C.2

**GenSPEED® 5000 CATEGORY 5e F/UTP (ScTP)  
CROSS-SECTION**



**ELECTRICAL CHARACTERISTICS**

|   |                    |
|---|--------------------|
| <b>DC Resistance</b> (max)<br>Ohms/100 m (328 ft) @ 20°C  | 9.38               |
| <b>DC Resistance Unbalance</b> (max)<br>Individual Pair % | 4.00               |
| <b>Delay Skew</b> (max)<br>ns/100 m                       | 45                 |
| <b>Nom. Velocity of Propagation</b><br>% Speed of Light   | CMP: 72<br>CMR: 70 |
| <b>Characteristic Impedance</b><br>Frequency (f):         | Ohms<br>100 ± 15   |