

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

Standards-Compliant



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 |









ELECTRICAL PERFORMANCE

| Frequency MHz | Insertion Loss (max) | NEXT (min) | Return Loss (min) |
|------------------|-------------------------|---------------|----------------------|
| 1 | 2.0 | 65.3 | 20.0 |
| 4 | 4.1 | 56.3 | 23.0 |
| 10 | 6.5 | 50.3 | 25.0 |
| 16 | 8.2 | 47.2 | 25.0 |
| 20 | 9.3 | 45.8 | 25.0 |
| 25 | 10.4 | 44.3 | 24.3 |
| 31.25 | 11.7 | 42.9 | 23.6 |
| 62.5 | 17.0 | 38.4 | 21.5 |
| 100 | 22.0 | 35.3 | 20.1 |
| 155 | 28.1 | 32.4 | — |
| 200 | 32.4 | 30.8 | — |
| 250 | 36.9 | 29.3 | — |
| 300 | 41.0 | 28.1 | — |
| 350 | 44.9 | 27.1 | — |

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 568.2-D

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.



Features and Benefits

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

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 568.2-D
- 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)

ELECTRICAL CHARACTERISTICS

| | |
|---|--------------------|
| DC Resistance (max) Ohms/100 m (328 ft) @ 20°C | 9.38 |
| DC Resistance Unbalance (max) Individual Pair % | 4.00 |
| Delay Skew (max) ns/100 m | 45 |
| Nom. Velocity of Propagation % Speed of Light | CMP: 72 CMR: 70 |
| Characteristic Impedance Frequency (f): 1-100 MHz | Ohms 100 ± 15 |

CROSS-SECTION

