GenSPEED® 10 Category 6A F/UTP (ScTP) Cable
An Enhanced Overall Shielded Cable

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Insulation
- Non-Plenum: Thermoplastic
- Plenum: Fluoropolymer

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

Separator
- Cross Web

Core Tape
- Non-Plenum: Mylar
- Plenum: Mylar

Drain Wire
- 24 AWG solid tinned copper

Shield
- Polyester-backed aluminum foil

Jacket
- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flame-Retardant PVC

PHYSICAL DATA

Nominal Cable Diameter (in) 0.260 0.265
Nominal Cable Weight (lbs/1000 ft) 33 33
Minimum Bend Radius (in) 2.5 2.5
Maximum Pulling Force (lbs) 40 40
Temperature Rating (˚C) 20˚C to 75˚C

ELECTRICAL PERFORMANCE

Frequency MHz Insertion Loss NEXT [dB] Return Loss [dB] PSANEXT (min) PSAACRF (min)
1 2.1 7.43 20.0 67.0 73.0 85.0 67.0 73.0 85.0
4 3.8 65.4 23.0 67.0 73.0 85.0 67.0 73.0 85.0
10 5.9 59.3 25.0 67.0 73.0 85.0 58.2 64.2 76.2
16 7.5 56.2 25.0 67.0 73.0 85.0 54.1 60.1 72.1
20 8.4 54.8 25.0 67.0 73.0 85.0 52.2 58.2 70.2
31.25 10.5 51.9 23.6 67.0 73.0 85.0 48.3 54.3 66.3
62.5 15.0 47.4 21.5 65.6 71.6 83.6 42.3 48.3 60.3
100 19.1 44.4 20.1 62.5 68.5 80.5 38.2 44.2 56.2
150 23.7 41.7 18.9 59.9 66.9 77.9 34.7 40.7 52.7
200 27.6 39.8 18.0 58.0 64.0 76.0 32.2 38.2 50.2
250 31.1 38.3 17.3 56.5 61.5 74.5 30.2 36.2 48.2
300 34.3 37.1 16.8 55.3 61.3 72.3 28.7 34.7 46.7
400 40.1 35.3 15.9 53.5 59.5 71.5 26.2 32.2 44.2
500 45.3 33.8 15.2 52.0 58.0 70.0 24.2 30.2 42.2

ELECTRICAL CHARACTERISTICS

DC Resistance Ohms/100 m (328 ft) @ 20˚C 9.38 7.00
DC Resistance Unbalance Individual Pair % 4.00 < 1
Nom. Velocity of Propagation % Speed of Light 70
Characteristic Impedance Ohms Frequency (MHz): 1-500 MHz 100 ± 15

PART NUMBERS

Standard packaging: 1000’ Spool

Jacket Color | CMP (Plenum) | CMR (Non-Plenum) | Spool Color | CMP (Plenum) | CMR (Non-Plenum)
--- | --- | --- | --- | --- | ---
Blue | 7141586 | 7143586 | Red | 7141590 | 7143590
White | 7141587 | 7143587 | Orange | 7141591 | 7143591
Yellow | 7141588 | 7143588 | Green | 7141592 | 7143592
Gray | 7141589 | 7143589 | Purple | 7141593 | 7143593

Note: Non-stock items may be subject to minimum order quantities. Other colors available.

Features and Benefits
- An overall shielded or foiled-twisted pair (F/UTP) cable, requiring grounding and providing industry-leading protection from external cable noise sources, also known as alien crosstalk (PSANEXT and PSAACRF)
- CMP 105C jacket rating provides consistent performance in a wide range of operating environments
- UL Listed CMP-LP 0.7A with certified performance for high power PoE applications
- The internal separator optimizes internal pair geometry to yield superior electrical performance and maintain flexibility. This unique cross-web stabilizes each pair to create a smaller, round cable profile
- TRU-Mark® print legend contains footage markings from 1000’ to 0’

Applications
- IEEE 802.3: 100 BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE++
- ANSI/TIA 856: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

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 Listed CMP-LP 0.5A for Non-Plenum*
- UL Listed CMP-LP 0.7A for Plenum**
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class EA)

*0.5A is the ampacity rating of the cable, which equates to 140 watts using 50 volts over four pairs.
**0.7A is the ampacity rating of the cable, which equates to 140 watts using 50 volts over four pairs.

Notes:
- Values are expressed in dB per 100 m (328 ft.) length @ 20˚C.
- *PSACR & ACR not specified in ANSI/TIA 568.2-D
- #SPACR & ACR not specified in ANSI/TIA 568.2-D
- Data subject to change without notice.