

GenSPEED® 10,000 Category 6A Cable

Signal Strength and Power

Features and Benefits

- Extensive design development conducted to find the perfect blend of product performance and consistent manufacturability
- Innovative T-Top cross-web provides superior internal electrical characteristics by locking the pairs into a systematic orientation within the cable
- Superior flame and smoke characteristics achieved through innovative design and careful selection of materials with certified suppliers
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- AirEs jacket provides superior flexibility and maximum separation of pairs from cable to cable for consistent PSANEXT and PSAACRF performance
- Made in U.S.A.

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

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-116-732
- ISO/IEC 11801 Ed. 2.0 (Class E_A)



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

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

Separator

- T-Top cross-web

Jacket

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

PHYSICAL DATA

| | CMR (Non-Plenum) | CMP (Plenum) |
|------------------------------------|------------------|--------------|
| Nominal Cable Diameter (in) | 0.330 | 0.320 |
| Nominal Cable Weight (lbs/1000 ft) | 42 | 45 |
| Minimum Bend Radius (in) | 1.5 | 1.5 |
| Maximum Pulling Force (lbs) | 40 | 40 |
| 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 | 7133819 | 7131819 |
| White | 7133820 | 7131820 |
| Yellow | 7133822 | 7131822 |
| Gray | 7133821 | 7131821 |
| Red | 7133824 | 7131824 |
| Orange | 7133826 | 7131826 |
| Green | 7133823 | 7131823 |
| Black | 7133828 | 7131828 |
| Pink | 7133827 | 7131827 |
| Purple | 7133825 | 7131825 |

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

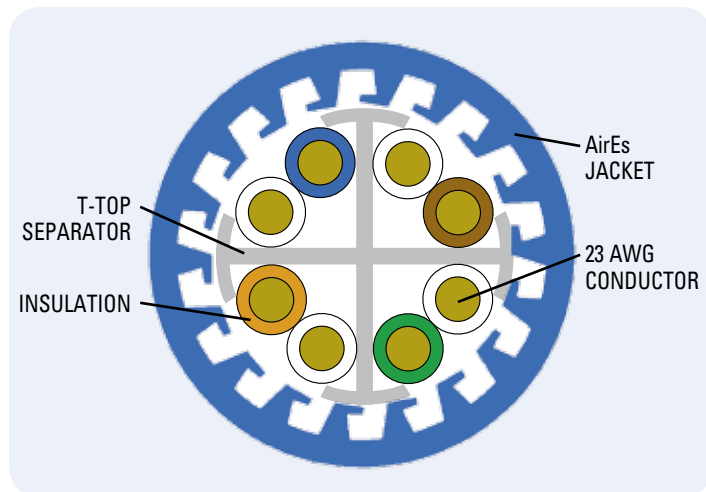
Data subject to change without notice.

ELECTRICAL PERFORMANCE

| Frequency MHz | PSACR* (min) | ACR* (min) | Insertion Loss (max) | PSNEXT (min) | NEXT (min) | PSACRF (min) | ACRF (min) | Return Loss (min) | TCL (min) | PSANEXT (min) | PSAACRF (min) |
|------------------|-----------------|---------------|----------------------------|-----------------|---------------|-----------------|---------------|----------------------|--------------|------------------|------------------|
| 1 | 70.2 | 72.2 | 2.1 | 72.3 | 74.3 | 64.8 | 67.8 | 20.0 | 40.0 | 67.0 | 67.0 |
| 4 | 59.5 | 61.5 | 3.8 | 63.3 | 65.3 | 52.8 | 55.8 | 23.0 | 40.0 | 67.0 | 66.2 |
| 8 | 53.5 | 55.5 | 5.3 | 58.8 | 60.8 | 46.7 | 49.7 | 24.5 | 40.0 | 67.0 | 60.1 |
| 10 | 51.4 | 53.4 | 5.9 | 57.3 | 59.3 | 44.8 | 47.8 | 25.0 | 40.0 | 67.0 | 58.2 |
| 16 | 46.7 | 48.7 | 7.5 | 54.2 | 56.2 | 40.7 | 43.7 | 25.0 | 38.0 | 67.0 | 54.1 |
| 20 | 44.4 | 46.4 | 8.4 | 52.8 | 54.8 | 38.8 | 41.8 | 25.0 | 37.0 | 67.0 | 52.2 |
| 25 | 41.9 | 43.9 | 9.4 | 51.3 | 53.3 | 36.8 | 39.8 | 24.3 | 36.0 | 67.0 | 50.2 |
| 31.25 | 39.4 | 41.4 | 10.5 | 49.9 | 51.9 | 34.9 | 37.9 | 23.6 | 35.1 | 67.0 | 48.3 |
| 62.5 | 30.4 | 32.4 | 15.0 | 45.4 | 47.4 | 28.9 | 31.9 | 21.5 | 32.0 | 65.6 | 42.3 |
| 100 | 23.2 | 25.2 | 19.1 | 42.3 | 44.3 | 24.8 | 27.8 | 20.1 | 30.0 | 62.5 | 38.2 |
| 200 | 10.2 | 12.2 | 27.6 | 37.8 | 39.8 | 18.8 | 21.8 | 18.0 | 27.0 | 58.0 | 32.2 |
| 250 | 5.2 | 7.2 | 31.1 | 36.3 | 38.3 | 16.8 | 19.8 | 17.3 | 26.0 | 56.5 | 30.2 |
| 300 | 0.8 | 2.8 | 34.3 | 35.1 | 37.1 | 15.3 | 18.3 | 16.8 | 25.2 | 55.3 | 28.7 |
| 400 | — | — | 40.1 | 33.3 | 35.3 | 12.8 | 15.8 | 15.9 | 24.0 | 53.5 | 26.2 |
| 500 | — | — | 45.3 | 31.8 | 33.8 | 10.8 | 13.8 | 15.2 | 23.0 | 52.0 | 24.2 |

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

GenSPEED® 10,000 CATEGORY 6A CROSS-SECTION



ELECTRICAL CHARACTERISTICS

| | Max. | Nom. |
|---|------------------|------|
| DC Resistance Ohms/100 m (328 ft) @ 20°C | 9.38 | 7.50 |
| DC Resistance Unbalance Individual Pair % | 4.00 | < 1 |
| Delay Skew ns/100 m | 45 | 30 |
| Nom. Velocity of Propagation % Speed of Light | 70 | |
| Characteristic Impedance Frequency (f): 1-500 MHz | Ohms 100 ± 15 | |