

GenSPEED® 6000 Enhanced Category 6 Cable

Optimally Balanced Enhanced Performance

Features and Benefits

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance
- Made in U.S.A.

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- 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-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)



CONSTRUCTION

Conductors

- 23 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

Separator

- Cross-web

Rip Cord

- Applied longitudinally under jacket

Jacket

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

PHYSICAL DATA

| | CMR (Non-Plenum) | CMP (Plenum) |
|------------------------------------|------------------|--------------|
| Nominal Cable Diameter (in) | 0.235 | 0.215 |
| Nominal Cable Weight (lbs/1000 ft) | 28 | 28 |
| Minimum Bend Radius (in) | 1.0 | 1.0 |
| Maximum Pulling Force (lbs) | 32 | 32 |
| Temperature Rating (°C) | | |
| Installation: | 0 to +60 | 0 to +60 |
| Operation: | -20 to +75 | -20 to +75 |

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

| Jacket Color | Pull-Pac® II | | Spool-Pac® | | Spool | |
|--------------|------------------|--------------|------------------|--------------|------------------|--------------|
| | CMR (Non-Plenum) | CMP (Plenum) | CMR (Non-Plenum) | CMP (Plenum) | CMR (Non-Plenum) | CMP (Plenum) |
| Blue | 7133900 | 7131900 | 7133940 | 7131940 | 7133960 | 7131960 |
| White | 7133901 | 7131901 | 7133941 | 7131941 | 7133961 | 7131961 |
| Yellow | 7133902 | 7131902 | 7133942 | 7131942 | 7133962 | 7131962 |
| Gray | 7133903 | 7131903 | 7133943 | 7131943 | 7133963 | 7131963 |
| Red | 7133904 | 7131904 | 7133944 | 7131944 | 7133964 | 7131964 |
| Orange | 7133905 | 7131905 | 7133945 | 7131945 | 7133965 | 7131965 |
| Green | 7133906 | 7131906 | 7133946 | 7131946 | 7133966 | 7131966 |
| Black | 7133907 | 7131907 | 7133947 | 7131947 | 7133967 | 7131967 |
| Pink | 7133908 | 7131908 | 7133948 | 7131948 | 7133968 | 7131968 |
| Purple | 7133909 | 7131909 | 7133949 | 7131949 | 7133969 | 7131969 |

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply.

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

Data subject to change without notice.

ELECTRICAL PERFORMANCE

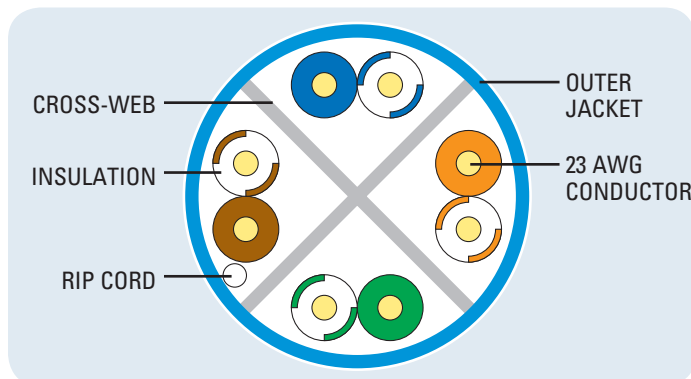
| Frequency MHz | PSACR* (min) | | ACR* (min) | | Insertion Loss (max) | | PSNEXT (min) | | NEXT (min) | |
|------------------|--------------|-------------|------------|-------------|----------------------|-------------|--------------|-------------|------------|-------------|
| | Guaranteed | TIA 568-C.2 | Guaranteed | TIA 568-C.2 | Guaranteed | TIA 568-C.2 | Guaranteed | TIA 568-C.2 | Guaranteed | TIA 568-C.2 |
| 1 | 75.3 | 77.3 | 2.0 | 2.0 | 72.3 | 77.3 | 74.3 | 79.3 | | |
| 4 | 64.5 | 66.5 | 3.8 | 3.8 | 63.3 | 68.3 | 65.3 | 70.3 | | |
| 10 | 56.4 | 58.4 | 6.0 | 5.9 | 57.3 | 62.3 | 59.3 | 64.3 | | |
| 16 | 51.7 | 53.8 | 7.6 | 7.5 | 54.2 | 59.3 | 56.2 | 61.3 | | |
| 20 | 49.4 | 51.4 | 8.5 | 8.4 | 52.8 | 57.8 | 54.8 | 59.8 | | |
| 31.25 | 44.3 | 46.3 | 10.7 | 10.6 | 49.9 | 54.9 | 51.9 | 56.9 | | |
| 62.5 | 35.1 | 37.1 | 15.4 | 15.3 | 45.4 | 50.4 | 47.4 | 52.4 | | |
| 100 | 27.6 | 29.6 | 19.8 | 19.7 | 42.3 | 47.3 | 44.3 | 49.3 | | |
| 150 | 20.0 | 22.0 | 24.7 | 24.7 | 39.7 | 44.7 | 41.7 | 46.7 | | |
| 200 | 13.8 | 15.8 | 29.0 | 29.0 | 37.8 | 42.8 | 39.8 | 44.8 | | |
| 250 | 8.7 | 10.7 | 32.8 | 32.6 | 36.3 | 41.3 | 38.3 | 43.3 | | |
| 350 | — | 1.7 | — | 39.5 | — | 39.2 | — | 41.2 | | |
| 500 | — | — | — | 48.6 | — | 36.8 | — | 38.8 | | |

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz for reference only.
 *PSACR & ACR not specified in ANSI/TIA 568-C.2

| Frequency MHz | PSACRF (min) | | ACRF (min) | | Return Loss (min) | | TCL (min) | | ELTCTL (min) | |
|------------------|--------------|-------------|------------|-------------|-------------------|-------------|------------|-------------|--------------|-------------|
| | Guaranteed | TIA 568-C.2 | Guaranteed | TIA 568-C.2 | Guaranteed | TIA 568-C.2 | Guaranteed | TIA 568-C.2 | Guaranteed | TIA 568-C.2 |
| 1 | 64.8 | 69.8 | 67.8 | 72.8 | 20.0 | 20.0 | 40.0 | 40.0 | 35.0 | 35.0 |
| 4 | 52.8 | 57.7 | 55.7 | 60.7 | 23.0 | 23.6 | 40.0 | 40.0 | 23.0 | 23.0 |
| 10 | 44.8 | 49.8 | 47.8 | 52.8 | 25.0 | 26.0 | 40.0 | 40.0 | 15.0 | 15.0 |
| 16 | 40.7 | 45.7 | 43.7 | 48.7 | 25.0 | 26.0 | 38.0 | 38.0 | 10.9 | 10.9 |
| 20 | 38.8 | 43.7 | 41.7 | 46.7 | 25.0 | 26.0 | 37.0 | 37.0 | 9.0 | 9.0 |
| 31.25 | 34.9 | 39.9 | 37.9 | 42.9 | 23.6 | 25.0 | 35.1 | 35.1 | — | 5.1 |
| 62.5 | 28.9 | 33.8 | 31.8 | 36.8 | 21.5 | 23.5 | 32.0 | 32.0 | — | 5.0 |
| 100 | 24.8 | 29.8 | 27.8 | 32.8 | 20.1 | 22.5 | 30.0 | 30.0 | — | 5.0 |
| 150 | 21.3 | 26.3 | 24.3 | 29.3 | 18.9 | 21.6 | 28.2 | 28.2 | — | 5.0 |
| 200 | 18.8 | 23.8 | 21.8 | 26.8 | 18.0 | 21.0 | 27.0 | 27.0 | — | 5.0 |
| 250 | 16.8 | 21.8 | 19.8 | 24.8 | 17.3 | 20.5 | 26.0 | 26.0 | — | 5.0 |
| 350 | — | 18.9 | — | 21.9 | — | 19.8 | — | — | — | — |
| 500 | — | 15.8 | — | 18.8 | — | 19.0 | — | — | — | — |

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz for reference only.

GenSPEED® 6000 ENHANCED CATEGORY 6 CROSS-SECTION



ELECTRICAL CHARACTERISTICS

| | Max. | Nom. |
|---|--------------------|--------------------|
| DC Resistance Ohms/100 m (328 ft) @ 20°C | 9.38 | 7.20 |
| DC Resistance Unbalance Individual Pair % | 4.00 | < 1 |
| Delay Skew ns/100 m | 45 | CMP: 30 CMR: 40 |
| Nom. Velocity of Propagation % Speed of Light | CMP: 70 CMR: 68 | |
| Characteristic Impedance Frequency (f): 1-500 MHz | Ohms 100 ± 15 | |