

# GenSPEED® 10,000 Category 6A S/FTP Cable

Individually Foil Wrapped Pairs with Overall Braided Shield 10 Gig Option for Peace of Mind



## PART NUMBERS

Standard packaging: 1000' Spool

| Jacket Color | CMP (Plenum) | Jacket Color | CMP (Plenum) |
|--------------|--------------|--------------|--------------|
| Blue         | 9131786      | Red          | 9131790      |
| White        | 9131787      | Orange       | 9131791      |
| Yellow       | 9131788      | Green        | 9131792      |
| Gray         | 9131789      | Purple       | 9131793      |

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

## PHYSICAL DATA

|                                    | CMP (Plenum) |
|------------------------------------|--------------|
| Nominal Cable Diameter (in)        | 0.315        |
| Nominal Cable Weight (lbs/1000 ft) | 59           |
| Minimum Bend Radius (in)           | 2.52         |
| Maximum Pulling Force (lbs)        | 32           |
| Temperature Rating (°C)            |              |
| Installation:                      | 0 to +60     |
| Operation:                         | -20 to +90   |

## ELECTRICAL PERFORMANCE

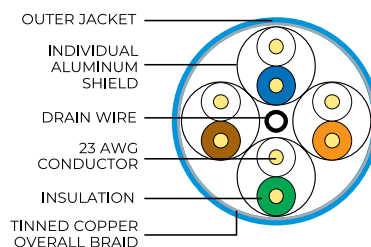
| Frequency MHz | Insertion Loss (max) | NEXT (min) | Return Loss (min) | PSANEXT (min) | PSAACRF (min) |
|---------------|----------------------|------------|-------------------|---------------|---------------|
| 1             | 2.1                  | 74.3       | 20.0              | 77.0          | 77.0          |
| 4             | 3.8                  | 74.3       | 23.0              | 77.0          | 76.2          |
| 10            | 5.9                  | 74.3       | 25.0              | 77.0          | 68.2          |
| 16            | 7.5                  | 74.2       | 25.0              | 77.0          | 64.1          |
| 20            | 8.4                  | 72.8       | 25.0              | 77.0          | 62.2          |
| 31.25         | 10.5                 | 69.9       | 23.6              | 77.0          | 58.3          |
| 62.5          | 15.0                 | 65.4       | 21.5              | 75.6          | 52.3          |
| 100           | 19.1                 | 62.3       | 20.1              | 72.5          | 48.2          |
| 200           | 27.6                 | 57.8       | 18.0              | 68.0          | 42.2          |
| 250           | 31.1                 | 56.3       | 17.3              | 66.5          | 40.2          |
| 300           | 34.3                 | 55.1       | 16.8              | 65.3          | 38.7          |
| 350           | 37.2                 | 54.1       | 16.3              | 64.3          | 37.3          |
| 400           | 40.1                 | 53.3       | 15.9              | 63.5          | 36.2          |
| 500           | 45.3                 | 51.8       | 15.2              | 62.0          | 34.2          |

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20 °C.

## ELECTRICAL CHARACTERISTICS

|                                                             | Max.             | Nom. |
|-------------------------------------------------------------|------------------|------|
| <b>DC Resistance</b><br>Ohms/100 m (328 ft) @ 20 °C         | 9.38             | 7.00 |
| <b>DC Resistance Unbalanced</b><br>Individual Pair %        | 4.00             | < 1  |
| <b>Delay Skew (max)</b><br>ns/100 m                         | 45               | 20   |
| <b>Nom. Velocity of Propagation</b><br>% Speed of Light     | CMP: 78          |      |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-600 MHz | Ohms<br>100 ± 15 |      |

## CROSS-SECTION



## CONSTRUCTION:

### Conductors

- 23 AWG solid bare annealed copper

### Insulation

- Plenum: Foamed Fluoropolymer

### Color Code

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

### Shield

- Each pair is individually shielded with an aluminum foil

### Drain Wire

- 24 AWG stranded (7/32) solid tinned copper

### Jacket

- Plenum: Low-Smoke, Flame-Retardant PVC

## Features and Benefits

- Individually pair shielded design allows for maximum pair separation, increasing key electrical performance parameters and providing EMI protection
- Typical positive PSACR beyond 500 MHz for increased available bandwidth
- Improved cable temperature rating (90°C Plenum) for greater protection against increased operating temperatures
- TRU-Mark® print legend contains footage markings from 1000' to 0'

## Applications

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

## Standard Compliances

- ANSI/TIA 568.2-E
- 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<sub>A</sub>)