

GenSPEED® 10 UTP Indoor/Outdoor Plenum Category 6A Cable

Features

- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

Electrical Characteristics

- Outer jacket ensures electrical performance during long term water submersion
- Dry core construction for cleaner termination
- UL Listed CMP-LP 0.8A with certified performance for high-power PoE applications

Applications

- Intended for installation in below-grade conduit, duct, and other wet environments
- Cable jacket must remain unabraded to avoid water ingress. Water must not be allowed to ingress into the cable ends
- 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

- NEC/CEC Type CMP (NFPA 262) for plenum
- UL Listed SUN RES (720 hour) Rated to be installed permanently outdoor in direct sunlight
- ANSI/TIA 568.2-D
- RoHS Compliant Directive 2011/65/EU
- UL 444
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class EA)
- Wet Location rated per UL 83
- UL Listed CMP-LP 0.8A - equivalent to 160 watts using 50 volts over four pairs



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Fluoropolymer

Color Code

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

Separator

- Cross-web

Core Wrap

- Polyester encapsulated isolation core wrap

Jacket

- Fluoropolymer



PHYSICAL DATA

| | |
|------------------------------------|-------------|
| Nominal Cable Diameter (in) | 0.260 |
| Nominal Cable Weight (lbs/1000 ft) | 33 |
| Minimum Bend Radius (in) | 2.1 |
| Maximum Pulling Force (lbs) | 40 |
| Temperature Rating (°C) | |
| Installation: | 0 to +60 |
| Operation: | -20 to +125 |

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color

| | |
|---|----------------|
|  Black | 7141007 |
|  White | 7141001 |

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

ELECTRICAL PERFORMANCE

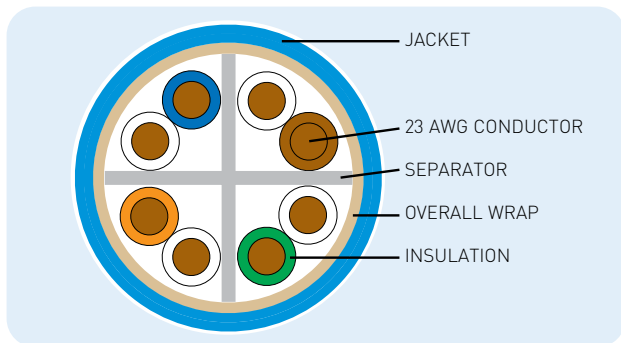
| Frequency MHz | PSACR** (min) | ACR** (min) | Insertion Loss (min) | PSNEXT (min) | NEXT (min) | PSACRF (min) | ACRF (min) | Return Loss (min) | TCL (min) | PSANEXT (min) | | PSAACRF (min) | | |
|------------------|------------------------|------------------------|----------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------|------------------|-------------------|------------------|
| | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA / GC Guaranteed | TIA Guaranteed | GC Guaranteed | TIA Guaranteed | GC Guaranteed |
| 1 | 70.2 | 72.2 | 2.1 | 72.3 | 74.3 | 64.8 | 67.8 | 20.0 | 40.0 | 67.0 | 69.0 | 67.0 | 69.0 | |
| 4 | 59.5 | 61.5 | 3.8 | 63.3 | 65.3 | 52.8 | 55.8 | 23.0 | 40.0 | 67.0 | 69.0 | 66.2 | 68.2 | |
| 10 | 51.4 | 53.4 | 5.9 | 57.3 | 59.3 | 44.8 | 47.8 | 25.0 | 40.0 | 67.0 | 69.0 | 58.2 | 60.2 | |
| 16 | 46.8 | 48.8 | 7.5 | 54.2 | 56.2 | 40.7 | 43.7 | 25.0 | 38.0 | 67.0 | 69.0 | 54.1 | 56.1 | |
| 20 | 44.4 | 46.4 | 8.4 | 52.8 | 54.8 | 38.8 | 41.8 | 25.0 | 37.0 | 67.0 | 69.0 | 52.2 | 54.2 | |
| 31.25 | 39.4 | 41.4 | 10.5 | 49.9 | 51.9 | 34.9 | 37.9 | 23.6 | 35.1 | 67.0 | 69.0 | 48.3 | 50.3 | |
| 62.5 | 30.4 | 32.4 | 15.0 | 45.4 | 47.4 | 28.9 | 31.9 | 21.5 | 32.0 | 65.6 | 67.6 | 42.3 | 44.3 | |
| 100 | 23.2 | 25.2 | 19.1 | 42.3 | 44.3 | 24.8 | 27.8 | 20.1 | 30.0 | 62.5 | 64.5 | 38.2 | 40.2 | |
| 150 | 16.0 | 18.0 | 23.7 | 39.7 | 41.7 | 21.3 | 24.3 | 18.9 | 28.2 | 59.9 | 61.9 | 34.7 | 36.7 | |
| 200 | 10.2 | 12.2 | 27.6 | 37.8 | 39.8 | 18.8 | 21.8 | 18.0 | 27.0 | 58.0 | 60.0 | 32.2 | 34.2 | |
| 250 | 5.2 | 7.2 | 31.1 | 36.3 | 38.3 | 16.8 | 19.8 | 17.3 | 26.0 | 56.5 | 58.5 | 30.2 | 32.2 | |
| 300 | 0.9 | 2.9 | 34.3 | 35.1 | 37.1 | 15.3 | 18.3 | 16.8 | 25.2 | 55.3 | 57.3 | 28.7 | 30.7 | |
| 400 | — | — | 40.1 | 33.3 | 35.3 | 12.8 | 15.8 | 15.9 | 24.0 | 53.5 | 55.5 | 26.2 | 28.2 | |
| 500 | — | — | 45.3 | 31.8 | 33.8 | 10.8 | 13.8 | 15.2 | 23.0 | 52.0 | 54.0 | 24.2 | 26.2 | |
| 600* | — | — | 50.1* | 30.6* | 32.6* | 9.2* | 12.2* | 14.7* | 22.2* | — | 50.8* | — | 22.6* | |
| 700* | — | — | 54.5* | 29.6* | 31.6* | 7.9* | 10.9* | 14.2* | 21.5* | — | 49.8* | — | 21.3* | |
| 750* | — | — | 56.7* | 29.2* | 31.2* | 7.3* | 10.3* | 14.0* | 21.2* | — | 49.4* | — | 20.7* | |

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

*Values are for reference only.

**PSACR & ACR not specified in ANSI/TIA 568.2-D

**TYPICAL GenSPEED® 10 CATEGORY 6A
INDOOR/OUTDOOR CROSS-SECTION**



ELECTRICAL CHARACTERISTICS

| | Max. | Nom. |
|---|------------------|------|
| DC Resistance Ohms/100 m (328 ft) @ 20°C | 9.38 | 7.00 |
| DC Resistance Unbalanced Individual Pair % | 4.00 | < 1 |
| Delay Skew ns/100 m | 45 | |
| Nom. Velocity of Propagation % Speed of Light | 70 | |
| Characteristic Impedance Frequency (f): 1-500 MHz | Ohms 100 ± 15 | |