

# GenSPEED® Category 5e Cables

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GenSPEED® Category 5e cables are available in a wide variety of performance levels and constructions. With many options to pick from, you can select the GenSPEED Category 5e product that meets your specific performance requirements.

**GenSPEED® 5500** Premium Category 5e cable ensures increased headroom, lower bit-error rates and higher signal transmission quality. **GenSPEED® 5350** exceeds Category 5e transmission requirements, offering electrical performance for 1000 BASE-T and beyond Ethernet applications.

With steady, continuous performance, **GenSPEED® 5000** meets Category 5e requirements for present and future network requirements. Offered in a variety of constructions, there is a GenSPEED 5000 cable for nearly every application — including backbone, horizontal, outside, outside plant and residential cabling.

All GenSPEED cables are safety listed to the NEC and CEC requirements, and most are verified for electrical performance. This independent third-party testing further confirms the quality and performance of all GenSPEED Enhanced Cables.

GenSPEED's installer-friendly design means that customers won't lose valuable time and money. GenSPEED cables feature unique product-specific packaging for easy identification and TRU-Mark® footage marking so installers don't waste time pulling cable that's too short.

Through leadership and participation on industry committees, technical expertise and a focus on cultivating strong relationships, General Cable provides customers with first-class technical support and a competitive advantage. General Cable's comprehensive warranty program means that all GenSPEED cables conform to standard specifications and are free from defects in material and workmanship.

For more than a century and a half, General Cable has stayed ahead of the industry's changing needs with products that meet future performance requirements and provide the best value in cabling solutions.

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# GenSPEED® Category 5e Quick Reference Guide

| JACKET<br>COLOR | PACKAGE    | STANDARD                      |             | ENHANCED                               |            | PREMIUM                               |            |
|-----------------|------------|-------------------------------|-------------|----------------------------------------|------------|---------------------------------------|------------|
|                 |            | Category 5e<br>GenSPEED® 5000 |             | Category 5e<br>GenSPEED® 5350 Enhanced |            | Category 5e<br>GenSPEED® 5500 Premium |            |
|                 |            | CMR                           | CMP         | CMR                                    | CMP        | CMR                                   | CMP        |
| Blue            |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133299E                      | 5131278E    | 6133712                                | 6131690    | 6133299                               | 6131278    |
|                 | Spool-Pac® | 5133374E                      | 5131431E    | 6133707                                | 6131688    | 6133403                               | 6131433    |
|                 | Spool      | 5133300E                      | 5131282E    | 6133703                                | 6131686    | 6133282                               | 6131282    |
|                 | Bulk*      | 5133300E.2.5R                 | 5131282E.3R | 6133703.2.5R                           | 6131686.3R | 6133282.2.5R                          | 6131282.3R |
| White           |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133255E                      | 5131361E    | 6133713                                | 6131691    | 6133255                               | 6131361    |
|                 | Spool-Pac® | 5133342E                      | 5131450E    | 6133708                                | 6131689    | 6133339                               | 6131449    |
|                 | Spool      | 5133250E                      | 5131365E    | 6133704                                | 6131687    | 6133492                               | 6131618    |
|                 | Bulk*      | 5133250E.2.5R                 | 5131365E.3R | 6133704.2.5R                           | 6131687.3R | 6133492.2.5R                          | 6131618.3R |
| Yellow          |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133289E                      | 5131379E    | 6133715                                | 6131693    | 6133289                               | 6131546    |
|                 | Spool-Pac® | 5133448E                      | 5131546E    | 6133717                                | 6131695    | 6133369                               | 6131379    |
|                 | Spool      |                               | 5131648E    | 6133719                                | 6131697    | 6133348                               | 6131382    |
|                 | Bulk*      | 5133251E.2.5R                 | 5131648E.3R | 6133719.2.5R                           | 6131697.3R | 6133348.2.5R                          | 6131382.3R |
| Gray            |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133200E                      | 5131418E    | 6133714                                | 6131692    | 6133200                               | 6131418    |
|                 | Spool-Pac® | 5133329E                      | 5131456E    | 6133716                                | 6131694    | 6133331                               | 6131619    |
|                 | Spool      | 5133204E                      | 5131475E    | 6133718                                | 6131696    | 6133334                               |            |
|                 | Bulk*      |                               |             |                                        |            |                                       |            |
| Red             |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133274E                      | 5131477E    |                                        |            | 6133274                               | 6131477    |
|                 | Spool-Pac® | 5133427E                      | 5131553E    |                                        | 6131732    |                                       | 6131635    |
|                 | Spool      |                               | 5131383E    |                                        |            |                                       |            |
|                 | Bulk*      |                               |             |                                        |            |                                       |            |
| Orange          |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133383E                      | 5131422E    | 6133761                                |            | 6133746                               | 6131422    |
|                 | Spool-Pac® |                               |             |                                        |            | 6133383                               | 6131576    |
|                 | Spool      | 5133667E                      |             |                                        | 6131733    |                                       |            |
|                 | Bulk*      |                               |             |                                        |            |                                       |            |
| Green           |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133512E                      | 5131547E    |                                        | 6131699    | 6133512                               | 6131547    |
|                 | Spool-Pac® | 5133693E                      | 5131575E    |                                        | 6131731    | 6133615                               | 6131575    |
|                 | Spool      | 5133649E                      | 5131649E    |                                        | 6131700    | 6133616                               | 6131757    |
|                 | Bulk*      | 5133649E.2.5R                 | 5131649E.3R |                                        | 6131700.3R | 6133616.2.5R                          | 6131757.3R |
| Black           |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133696E                      | 5131683E    |                                        | 6131707    | 6133696                               | 6131683    |
|                 | Spool-Pac® |                               |             |                                        |            |                                       | 6131829    |
|                 | Spool      |                               | 5131689E    |                                        |            |                                       |            |
|                 | Bulk*      |                               |             |                                        |            |                                       |            |
| Pink            |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133290E                      | 5131380E    |                                        |            | 6133290                               | 6131709    |
|                 | Spool-Pac® | 5133447E                      | 5131478E    |                                        |            | 6133447                               | 6131478    |
|                 | Spool      |                               |             |                                        |            | 6133341                               |            |
|                 | Bulk*      |                               |             |                                        |            |                                       |            |
| Purple          |            |                               |             |                                        |            |                                       |            |
|                 | Pull-Pac®  | 5133445E                      | 5131730E    |                                        |            | 6133445                               | 6131710    |
|                 | Spool-Pac® |                               |             |                                        |            | 6133446                               |            |
|                 | Spool      |                               |             |                                        |            |                                       |            |
|                 | Bulk*      |                               |             |                                        |            |                                       |            |

Note: Non-stock items may be subject to minimum order quantities.  
 \* Bulk reels are available in 2000' (2R) and 3000' (3R) lengths.

# GenSPEED® 5500 Premium Category 5e Cable

## Features And Benefits

- Ensures increased headroom for future applications, lower bit-error rates, and higher signal transmission quality
- Enhanced signal-to-noise ratio, improving bit-error rate
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

## Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband Analog Video

## Standard Compliances

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



## CONSTRUCTION

### Conductors

- 24 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

### 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)       | 0.210            | 0.190        |
| Nominal Cable Weight (lbs/1000ft) | 22               | 20           |
| Minimum Bend Radius (in)          | 1.0              | 1.0          |
| Maximum Pulling Force (lbs)       | 25               | 25           |
| 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         | 6133299          | 6131278      | 6133403          | 6131433      | 6133282          | 6131282      |
| White        | 6133255          | 6131361      | 6133339          | 6131449      | 6133492          | 6131618      |
| Yellow       | 6133289          | 6131546      | 6133369          | 6131379      | 6133348          | 6131382      |
| Gray         | 6133200          | 6131418      | 6133331          | 6131619      | 6133334          |              |
| Red          | 6133274          | 6131477      |                  | 6131635      |                  |              |
| Orange       | 6133746          | 6131422      | 6133383          | 6131576      |                  |              |
| Green        | 6133512          | 6131547      | 6133615          | 6131575      | 6133616          | 6131757      |
| Black        | 6133696          | 6131683      |                  | 6131829      |                  |              |
| Pink         | 6133290          | 6131709      | 6133447          | 6131478      | 6133341          |              |
| Purple       | 6133445          | 6131710      | 6133446          |              |                  |              |

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.

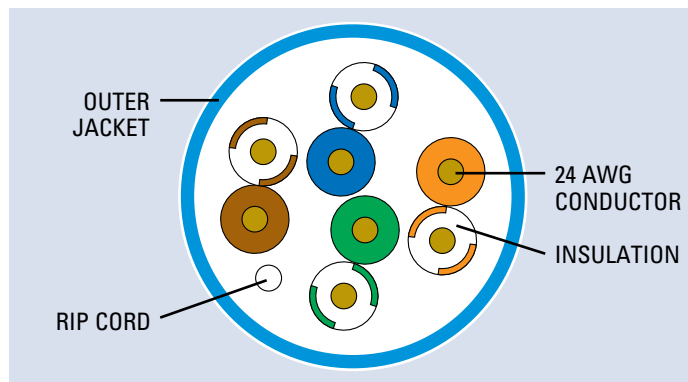
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## Enhanced Transmission Throughput

## GenSPEED® 5500 ELECTRICAL PERFORMANCE

| Frequency<br>MHz | PSACR<br>(min) | ACR<br>(min) | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | ELFEXT<br>(min) | Return Loss<br>(min) |
|------------------|----------------|--------------|----------------------|-----------------|---------------|-------------------|-----------------|----------------------|
| 1                | 66.3           | 68.3         | 2.0                  | 68.3            | 70.3          | 62.0              | 65.0            | 20.0                 |
| 4                | 55.4           | 57.4         | 3.9                  | 59.3            | 61.3          | 50.0              | 53.0            | 23.0                 |
| 10               | 47.1           | 49.1         | 6.2                  | 53.3            | 55.3          | 42.0              | 45.0            | 25.0                 |
| 16               | 42.3           | 44.3         | 7.9                  | 50.2            | 52.2          | 37.9              | 40.9            | 25.0                 |
| 20               | 39.9           | 41.9         | 8.9                  | 48.8            | 50.8          | 36.0              | 39.0            | 25.0                 |
| 25               | 37.4           | 39.4         | 10.0                 | 47.3            | 49.3          | 34.0              | 37.0            | 24.3                 |
| 31.25            | 34.7           | 36.7         | 11.2                 | 45.9            | 47.9          | 32.1              | 35.1            | 23.6                 |
| 62.5             | 25.1           | 27.1         | 16.3                 | 41.4            | 43.4          | 26.1              | 29.1            | 21.5                 |
| 100              | 17.3           | 19.3         | 21.0                 | 38.3            | 40.3          | 22.0              | 25.0            | 20.1                 |
| 155              | 8.6            | 10.6         | 26.9                 | 35.4            | 37.4          | 18.2              | 21.2            | 18.8                 |
| 200              | 2.8            | 4.8          | 31.0                 | 33.8            | 35.8          | 16.0              | 19.0            | 18.0                 |
| 250              | —              | —            | 35.3                 | 32.3            | 34.3          | 14.0              | 17.0            | 17.3                 |
| 300              | —              | —            | 39.2                 | 31.1            | 33.1          | 12.5              | 15.5            | 16.8                 |
| 350              | —              | —            | 42.9                 | 30.1            | 32.1          | 11.1              | 14.1            | 16.3                 |

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

GenSPEED® 5500 PREMIUM CATEGORY 5e  
CROSS-SECTION

## ELECTRICAL CHARACTERISTICS

|                                                             |                    |
|-------------------------------------------------------------|--------------------|
| <b>DC Resistance</b> (max)<br>Ohms/100m (328ft) @ 20°C      | 8.9                |
| <b>DC Resistance Unbalance</b> (max)<br>Individual Pair %   | 3.0                |
| <b>Delay Skew</b> (max)<br>ns/100m                          | 45                 |
| <b>Nom. Velocity of Propagation</b><br>% Speed of Light     | CMP: 72<br>CMR: 70 |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-350 MHz | Ohms<br>100 ± 15   |
| <b>Input Impedance</b><br>Frequency (f): 1-100 MHz          | Ohms<br>100 ± 15   |
| 100-250 MHz                                                 | 100 ± 22           |
| 250-350 MHz                                                 | 100 ± 32           |

# GenSPEED® 5350 Enhanced Category 5e Cable

## Features And Benefits

- For applications that require optimal Cat 5e performance with flexibility for the future
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

## Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband Analog Video

## Standard Compliances

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



## CONSTRUCTION

### Conductors

- 24 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

### Rip Cord

- Applied longitudinally under jacket

### Jacket

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

## PHYSICAL DATA

|                                   | CMR (Non-Plenum) | CMP (Plenum) |
|-----------------------------------|------------------|--------------|
| Nominal Cable Diameter (in)       | 0.200            | 0.180        |
| Nominal Cable Weight (lbs/1000ft) | 21               | 19           |
| Minimum Bend Radius (in)          | 1.0              | 1.0          |
| Maximum Pulling Force (lbs)       | 25               | 25           |
| 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         | 6133712          | 6131690      | 6133707          | 6131688      | 6133703          | 6131686      |
| White        | 6133713          | 6131691      | 6133708          | 6131689      | 6133704          | 6131687      |
| Yellow       | 6133715          | 6131693      | 6133717          | 6131695      | 6133719          | 6131697      |
| Gray         | 6133714          | 6131692      | 6133716          | 6131694      | 6133718          | 6131696      |
| Red          |                  |              |                  | 6131732      |                  |              |
| Orange       | 6133761          |              |                  |              |                  | 6131733      |
| Green        |                  | 6131699      |                  | 6131731      |                  | 6131700      |
| Black        |                  | 6131707      |                  |              |                  |              |
| Pink         |                  |              |                  |              |                  |              |
| Purple       |                  |              |                  |              |                  |              |

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.

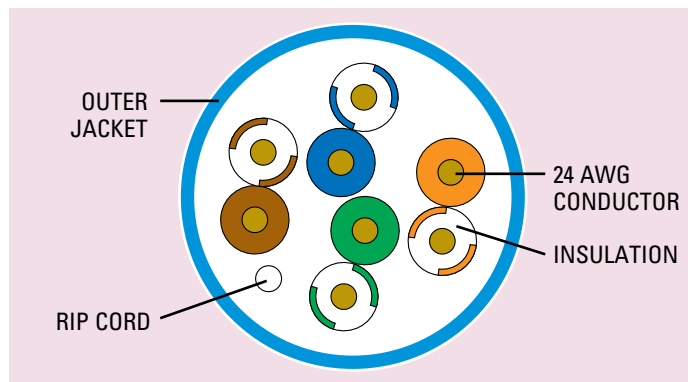
Data subject to change without notice.

### GenSPEED® 5350 ELECTRICAL PERFORMANCE

| Frequency<br>MHz | PSACR<br>(min) | ACR<br>(min) | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | ELFEXT<br>(min) | Return Loss<br>(min) |
|------------------|----------------|--------------|----------------------|-----------------|---------------|-------------------|-----------------|----------------------|
| 1                | 63.3           | 64.3         | 2.0                  | 65.3            | 66.3          | 61.0              | 64.0            | 25.0                 |
| 4                | 52.3           | 53.3         | 4.0                  | 56.3            | 57.3          | 49.0              | 52.0            | 25.0                 |
| 10               | 43.9           | 44.9         | 6.4                  | 50.3            | 51.3          | 41.0              | 44.0            | 25.0                 |
| 16               | 39.1           | 40.1         | 8.1                  | 47.2            | 48.2          | 36.9              | 39.9            | 25.0                 |
| 20               | 36.6           | 37.6         | 9.2                  | 45.8            | 46.8          | 35.0              | 38.0            | 25.0                 |
| 25               | 34.0           | 35.0         | 10.3                 | 44.3            | 45.3          | 33.0              | 36.0            | 24.3                 |
| 31.25            | 31.3           | 32.3         | 11.6                 | 42.9            | 43.9          | 31.1              | 34.1            | 23.6                 |
| 62.5             | 21.6           | 22.6         | 16.8                 | 38.4            | 39.4          | 25.1              | 28.1            | 21.5                 |
| 100              | 13.6           | 14.6         | 21.7                 | 35.3            | 36.3          | 21.0              | 24.0            | 20.1                 |
| 155              | 4.7            | 5.7          | 27.7                 | 32.4            | 33.4          | 17.2              | 20.2            | —                    |
| 200              | —              | —            | 32.0                 | 30.8            | 31.8          | 15.0              | 18.0            | —                    |
| 250              | —              | —            | 36.4                 | 29.3            | 30.3          | 13.0              | 16.0            | —                    |
| 300              | —              | —            | 40.5                 | 28.1            | 29.1          | 11.5              | 14.5            | —                    |
| 350              | —              | —            | 44.3                 | 27.1            | 28.1          | 10.1              | 13.1            | —                    |

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

### GenSPEED® 5350 ENHANCED CATEGORY 5e CROSS-SECTION



### ELECTRICAL CHARACTERISTICS

|                                                                                  |                                          |
|----------------------------------------------------------------------------------|------------------------------------------|
| <b>DC Resistance</b> (max)<br>Ohms/100m (328ft) @ 20°C                           | 8.9                                      |
| <b>DC Resistance Unbalance</b> (max)<br>Individual Pair %                        | 3.0                                      |
| <b>Delay Skew</b> (max)<br>ns/100m                                               | 45                                       |
| <b>Nom. Velocity of Propagation</b><br>% Speed of Light                          | CMP: 72<br>CMR: 70                       |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-350 MHz                      | Ohms<br>100 ± 15                         |
| <b>Input Impedance</b><br>Frequency (f): 1-100 MHz<br>100-250 MHz<br>250-350 MHz | Ohms<br>100 ± 15<br>100 ± 22<br>100 ± 32 |

# GenSPEED® 5000 Category 5e Cable

## Features And Benefits

- Engineered to provide stable and continuous performance
- Performance guaranteed to 200 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

## Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring

## Standard Compliances

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



VERIFIED



## CONSTRUCTION

### Conductors

- 24 AWG solid bare annealed copper

### Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

### Rip Cord

- Applied longitudinally under jacket

### Color Code

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

### Jacket

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

## PHYSICAL DATA

|                                   | CMR (Non-Plenum) | CMP (Plenum) |
|-----------------------------------|------------------|--------------|
| Nominal Cable Diameter (in)       | 0.200            | 0.180        |
| Nominal Cable Weight (lbs/1000ft) | 21               | 19           |
| Minimum Bend Radius (in)          | 1.0              | 1.0          |
| Maximum Pulling Force (lbs)       | 25               | 25           |
| 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         | 5133299E         | 5131278E     | 5133374E         | 5131431E     | 5133300E         | 5131282E     |
| White        | 5133255E         | 5131361E     | 5133342E         | 5131450E     | 5133250E         | 5131365E     |
| Yellow       | 5133289E         | 5131379E     | 5133448E         | 5131546E     |                  | 5131648E     |
| Gray         | 5133200E         | 5131418E     | 5133329E         | 5131456E     | 5133204E         | 5131475E     |
| Red          | 5133274E         | 5131477E     | 5133427E         | 5131553E     |                  | 5131383E     |
| Orange       | 5133383E         | 5131422E     |                  |              | 5133667E         |              |
| Green        | 5133512E         | 5131547E     | 5133693E         | 5131575E     | 5133649E         | 5131649E     |
| Black        | 5133696E         | 5131683E     |                  |              |                  | 5131689E     |
| Pink         | 5133290E         | 5131380E     | 5133447E         | 5131478E     |                  |              |
| Purple       | 5133445E         | 5131730E     |                  |              |                  |              |

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.

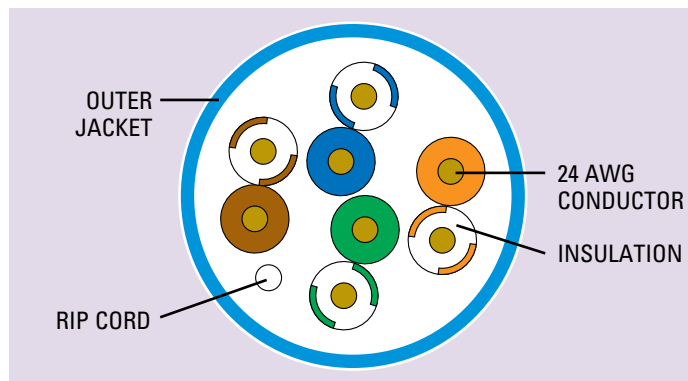
Data subject to change without notice.



**GenSPEED® 5000 ELECTRICAL PERFORMANCE**

| Frequency<br>MHz | PSACR<br>(min) | ACR<br>(min) | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | ELFEXT<br>(min) | Return Loss<br>(min) |
|------------------|----------------|--------------|----------------------|-----------------|---------------|-------------------|-----------------|----------------------|
| <b>1</b>         | 60.3           | 63.3         | 2.0                  | 62.3            | 65.3          | 60.8              | 63.8            | 20.0                 |
| <b>4</b>         | 49.2           | 52.2         | 4.1                  | 53.3            | 56.3          | 48.8              | 51.8            | 23.0                 |
| <b>10</b>        | 40.8           | 43.8         | 6.5                  | 47.3            | 50.3          | 40.8              | 43.8            | 25.0                 |
| <b>16</b>        | 36.0           | 39.0         | 8.2                  | 44.2            | 47.2          | 36.7              | 39.7            | 25.0                 |
| <b>20</b>        | 33.5           | 36.5         | 9.3                  | 42.8            | 45.8          | 34.8              | 37.8            | 25.0                 |
| <b>25</b>        | 30.9           | 33.9         | 10.4                 | 41.3            | 44.3          | 32.8              | 35.8            | 24.3                 |
| <b>31.25</b>     | 28.2           | 31.2         | 11.7                 | 39.9            | 42.9          | 30.9              | 33.9            | 23.6                 |
| <b>62.5</b>      | 18.4           | 21.4         | 17.0                 | 35.4            | 38.4          | 24.9              | 27.9            | 21.5                 |
| <b>100</b>       | 10.3           | 13.3         | 22.0                 | 32.3            | 35.3          | 20.8              | 23.8            | 20.1                 |
| <b>155</b>       | 1.4            | 4.4          | 28.1                 | 29.4            | 32.4          | 17.0              | 20.0            | —                    |
| <b>200</b>       | —              | —            | 32.4                 | 27.8            | 30.8          | 14.8              | 17.8            | —                    |
| <b>250</b>       | —              | —            | 36.9                 | 26.3            | 29.3          | 12.8              | 15.8            | —                    |
| <b>300</b>       | —              | —            | 41.0                 | 25.1            | 28.1          | 11.3              | 14.3            | —                    |
| <b>350</b>       | —              | —            | 44.9                 | 24.1            | 27.1          | 9.9               | 12.9            | —                    |

Note: Values are expressed in dB per 100m (328 ft.) length. Values above 200 MHz are for information only.

**GenSPEED® 5000 CATEGORY 5e CROSS-SECTION****ELECTRICAL CHARACTERISTICS**

|                                                             |                    |
|-------------------------------------------------------------|--------------------|
| <b>DC Resistance</b> (max)<br>Ohms/100m (328ft) @ 20°C      | 8.9                |
| <b>DC Resistance Unbalance</b> (max)<br>Individual Pair %   | 3.0                |
| <b>Mutual Capacitance</b> (nom)<br>pF/ft @ 1 KHz            | 14                 |
| <b>Delay Skew</b> (max)<br>ns/100m                          | 45                 |
| <b>Nom. Velocity of Propagation</b><br>% Speed of Light     | CMP: 72<br>CMR: 70 |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-200 MHz | Ohms<br>100 ± 15   |



# GenSPEED® 5000 Category 5e Interlock Armored Cable

## Features And Benefits

- Interlock armor provides outstanding mechanical protection
- Flexible and easy to install
- Eliminates the need for conduit, reducing installation time
- Single-pull installation

## Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Indoor applications only

## Standard Compliances

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- RoHS Compliant Directive 2002/95/EC



## CONSTRUCTION

### Conductors

- 24 AWG solid bare annealed copper

### Insulation

- Polyolefin

### Rip Cord

- Applied longitudinally under jacket

### Color Code

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

### Jacket

- Flame-Retardant PVC

## PHYSICAL DATA

|                                   | CMR (Non-Plenum)       |          |
|-----------------------------------|------------------------|----------|
|                                   | 1 Cable                | 2 Cables |
| Nominal Cable Diameter (in)       | 0.450                  | 0.620    |
| Nominal Cable Weight (lbs/1000ft) | 58.5                   | 96.0     |
| Minimum Bend Radius (in)          | 1.0                    | 1.0      |
| Maximum Pulling Force (lbs)       | 25                     | 25       |
| Temperature Rating (°C)           | 0 to +60<br>-20 to +75 |          |
| Installation:                     |                        |          |
| Operation:                        |                        |          |

## PART NUMBERS

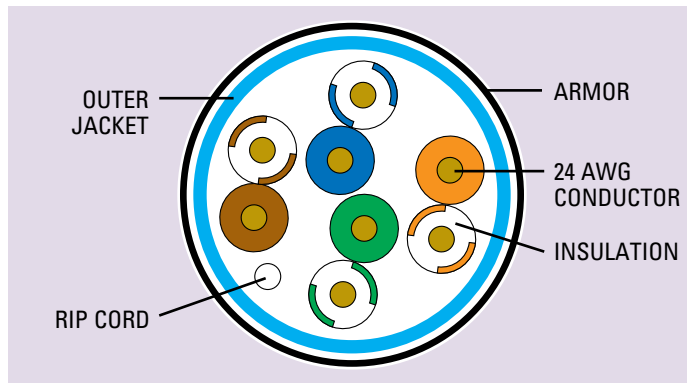
|             |             | Reel        |             |            |
|-------------|-------------|-------------|-------------|------------|
| Color       | Part Number | Unit 1      | Unit 2      | Reel       |
| Blue        | 8133300     | 5000R Blue  |             | 1000' reel |
| Blue        | 8133300.2R  | 5000R Blue  |             | 2000' reel |
| Blue/Blue   | 8133301     | 5000R Blue  | 5000R Blue  | 1000' reel |
| Blue/Blue   | 8133301.2R  | 5000R Blue  | 5000R Blue  | 2000' reel |
| Blue/White  | 8133307     | 5000R Blue  | 5000R White | 1000' reel |
| Blue/White  | 8133307.2R  | 5000R Blue  | 5000R White | 2000' reel |
| White       | 8133305     | 5000R White |             | 1000' reel |
| White       | 8133305.2R  | 5000R White |             | 2000' reel |
| White/White | 8133306     | 5000R White | 5000R White | 1000' reel |
| White/White | 8133306.2R  | 5000R White | 5000R White | 2000' reel |

Data subject to change without notice.

**ELECTRICAL PERFORMANCE**

| Frequency<br>MHz | PSACR<br>(min) | ACR<br>(min) | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | ELFEXT<br>(min) | Return Loss<br>(min) |
|------------------|----------------|--------------|----------------------|-----------------|---------------|-------------------|-----------------|----------------------|
| <b>1</b>         | 60.3           | 63.3         | 2.0                  | 62.3            | 65.3          | 60.8              | 63.8            | 20.0                 |
| <b>4</b>         | 49.2           | 52.2         | 4.1                  | 53.3            | 56.3          | 48.8              | 51.8            | 23.0                 |
| <b>10</b>        | 40.8           | 43.8         | 6.5                  | 47.3            | 50.3          | 40.8              | 43.8            | 25.0                 |
| <b>16</b>        | 36.0           | 39.0         | 8.2                  | 44.2            | 47.2          | 36.7              | 39.7            | 25.0                 |
| <b>20</b>        | 33.5           | 36.5         | 9.3                  | 42.8            | 45.8          | 34.8              | 37.8            | 25.0                 |
| <b>25</b>        | 30.9           | 33.9         | 10.4                 | 41.3            | 44.3          | 32.8              | 35.8            | 24.3                 |
| <b>31.25</b>     | 28.2           | 31.2         | 11.7                 | 39.9            | 42.9          | 30.9              | 33.9            | 23.6                 |
| <b>62.5</b>      | 18.4           | 21.4         | 17.0                 | 35.4            | 38.4          | 24.9              | 27.9            | 21.5                 |
| <b>100</b>       | 10.3           | 13.3         | 22.0                 | 32.3            | 35.3          | 20.8              | 23.8            | 20.1                 |

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

**GenSPEED® 5000 CATEGORY 5e INTERLOCK ARMORED CROSS-SECTION****ELECTRICAL CHARACTERISTICS**

|                                                             |                  |
|-------------------------------------------------------------|------------------|
| <b>DC Resistance</b> (max)<br>Ohms/100m (328ft) @ 20°C      | 8.9              |
| <b>DC Resistance Unbalance</b> (max)<br>Individual Pair %   | 3.0              |
| <b>Mutual Capacitance</b> (nom)<br>pF/ft @ 1 KHz            | 14               |
| <b>Delay Skew</b> (max)<br>ns/100m                          | 45               |
| <b>Nom. Velocity of Propagation</b><br>% Speed of Light     | CMR: 70          |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-100 MHz | Ohms<br>100 ± 15 |

# GenSPEED® 5000 Category 5e Screened Cable

## Features And Benefits

- Foil shield reduces electromagnetic interference (EMI) for optimal performance
- TRU-Mark® print legend contains footage markings from 1000' to 0'

## Applications

- 1000 BASE-T (Gigabit Ethernet)
- E52/155 Mbps ATM
- E100/10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- T1
- Voice

## Standard Compliances

- ANSI/TIA/EIA 568 B (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMP for Plenum
- NEC/CEC Type CMR for Non-Plenum
- RoHS Compliant Directive 2002/95/EC



## CONSTRUCTION

### Conductors

- 24 AWG solid bare annealed copper

### Insulation

- Plenum: Fluoropolymer
- Non-Plenum: Polyolefin

### Color Code

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

### Core Tape

- Polyester

### Drain Wire

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

### Shield

- Polyester-backed aluminum foil (aluminum side in)

### Jacket

- Flame-Retardant PVC

## PHYSICAL DATA

|                                   | CMR (Non-Plenum) | CMP (Plenum) |
|-----------------------------------|------------------|--------------|
| Nominal Cable Diameter (in)       | 0.250            | 0.225        |
| Nominal Cable Weight (lbs/1000ft) | 36               | 32           |
| Minimum Bend Radius (in)          | 1.0              | 1.0          |
| Maximum Pulling Force (lbs)       | 25               | 25           |
| Temperature Rating (°C)           |                  |              |
| Installation:                     | 0 to +60         | 0 to +60     |
| Operation:                        | -20 to +75       | -20 to +75   |

## PART NUMBERS

Standard packaging: 1000' Spool

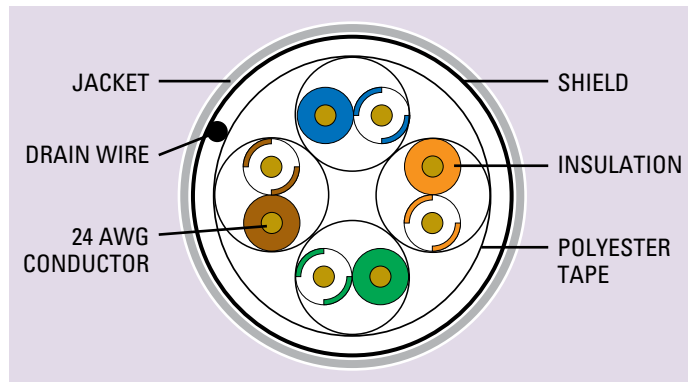
| Jacket Color                                                                               | Spool            |                 |
|--------------------------------------------------------------------------------------------|------------------|-----------------|
|                                                                                            | CMR (Non-Plenum) | CMP (Plenum)    |
|  Blue   | <b>2133496E</b>  | <b>2131611E</b> |
|  White  | <b>2133774E</b>  | <b>2131778E</b> |
|  Yellow | <b>2133777E</b>  | <b>2131777E</b> |
|  Gray   | <b>2133495E</b>  | <b>2131673E</b> |
|  Red    | <b>2133778E</b>  | <b>2131774E</b> |
|  Orange | <b>2133776E</b>  | <b>2131776E</b> |
|  Green  | <b>2133775E</b>  | <b>2131775E</b> |
|  Black  | <b>2133779E</b>  | <b>2131779E</b> |

Data subject to change without notice.

**ELECTRICAL PERFORMANCE**

| Frequency<br>MHz | PSACR<br>(min) | ACR<br>(min) | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | ELFEXT<br>(min) | Return Loss<br>(min) |
|------------------|----------------|--------------|----------------------|-----------------|---------------|-------------------|-----------------|----------------------|
| 1                | 60.3           | 63.3         | 2.0                  | 62.3            | 65.3          | 60.8              | 63.8            | 20.0                 |
| 4                | 49.2           | 52.2         | 4.1                  | 53.3            | 56.3          | 48.8              | 51.8            | 23.0                 |
| 10               | 40.8           | 43.8         | 6.5                  | 47.3            | 50.3          | 40.8              | 43.8            | 25.0                 |
| 16               | 36.0           | 39.0         | 8.2                  | 44.2            | 47.2          | 36.7              | 39.7            | 25.0                 |
| 20               | 33.5           | 36.5         | 9.3                  | 42.8            | 45.8          | 34.8              | 37.8            | 25.0                 |
| 25               | 30.9           | 33.9         | 10.4                 | 41.3            | 44.3          | 32.8              | 35.8            | 24.3                 |
| 31.25            | 28.2           | 31.2         | 11.7                 | 39.9            | 42.9          | 30.9              | 33.9            | 23.6                 |
| 62.5             | 18.4           | 21.4         | 17.0                 | 35.4            | 38.4          | 24.9              | 27.9            | 21.5                 |
| 100              | 10.3           | 13.3         | 22.0                 | 32.3            | 35.3          | 20.8              | 23.8            | 20.1                 |
| 155              | 1.4            | 4.4          | 28.1                 | 29.4            | 32.4          | 17.0              | 20.0            | —                    |
| 200              | —              | —            | 32.4                 | 27.8            | 30.8          | 14.8              | 17.8            | —                    |
| 250              | —              | —            | 36.9                 | 26.3            | 29.3          | 12.8              | 15.8            | —                    |
| 300              | —              | —            | 41.0                 | 25.1            | 28.1          | 11.3              | 14.3            | —                    |
| 350              | —              | —            | 44.9                 | 24.1            | 27.1          | 9.9               | 12.9            | —                    |

Note: Values are expressed in dB per 100m (328 ft.) length. Values above 100 MHz are for information only.

**GenSPEED® 5000 CATEGORY 5e SCREENED CROSS-SECTION****ELECTRICAL CHARACTERISTICS**

|                                                               |                    |
|---------------------------------------------------------------|--------------------|
| <b>DC Resistance (max)</b><br>Ohms/100m (328ft) @ 20°C        | 9.38               |
| <b>Mutual Capacitance (nom)</b><br>pF/ft @ 1 KHz              | 14                 |
| <b>Delay Skew (max)</b><br>ns/100m                            | 45                 |
| <b>Propagation Delay (max)</b><br>ns @ 100 MHz                | 538                |
| <b>Nom. Velocity of Propagation (NVP)</b><br>% Speed of Light | CMP: 72<br>CMR: 70 |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-100 MHz   | Ohms<br>100 ± 15   |

# GenSPEED® 5000 Category 5e Outside Plant Cable

## Features And Benefits

- Protects against environmental elements that can cause electrical performance failures
- TRU-Mark® print legend contains footage markings from 1000' to 0'

## Applications

- Aerial, duct and buried installations (the non-armored design is for duct installation only)
- 1000 BASE-T (Gigabit Ethernet)
- 52/155 Mbps ATM
- 100/10 BASE-T (IEEE 802.3)
- Voice/T1

## Standard Compliances

- ANSI/TIA/EIA 568 B (Category 5e)
- ISO 11801 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- MIL-C-24640A Water Penetration Requirements
- NEMA WC63.1 (Category 5e)
- RoHS Compliant Directive 2002/95/EC



## CONSTRUCTION

### Conductors

- 24 AWG solid bare annealed copper

### Insulation

- Polyolefin

### Color Code

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

### Flooding Compound

- Waterproof gel prevents moisture migration

### Optional Armor

- Aluminum applied helically (inner jacket is used with this construction)
- Armor diameter 12mm

### Jacket

- UV- and abrasion-resistant Polyethylene (PE)

## PHYSICAL DATA

|                                   | No Armor   | Aluminum Armor |
|-----------------------------------|------------|----------------|
| Nominal Cable Diameter (in)       | 0.230      | 0.340          |
| Nominal Cable Weight (lbs/1000ft) | 25         | 50             |
| Minimum Bend Radius (in)          | 1.0        | 1.0            |
| Maximum Pulling Force (lbs)       | 25         | 25             |
| Temperature Rating (°C)           |            |                |
| Installation:                     | -30 to +60 | -30 to +60     |
| Operation:                        | -45 to +80 | -45 to +80     |

## PART NUMBERS

Standard packaging: 1000' Reel

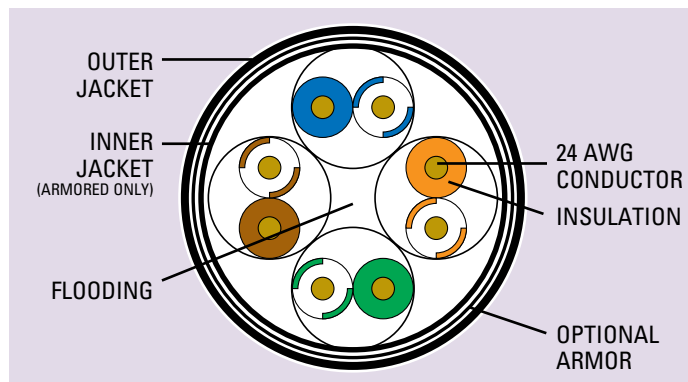
| Jacket Color | Reel    | Armor    |
|--------------|---------|----------|
| Black        | 5136100 | None     |
| Black        | 5136101 | Aluminum |

Data subject to change without notice.

**ELECTRICAL PERFORMANCE**

| Frequency<br>MHz | PSACR<br>(min) | ACR<br>(min) | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | ELFEXT<br>(min) | Return Loss<br>(min) |
|------------------|----------------|--------------|----------------------|-----------------|---------------|-------------------|-----------------|----------------------|
| 1                | 60.3           | 63.3         | 2.0                  | 62.3            | 65.3          | 60.8              | 63.8            | 20.0                 |
| 4                | 49.2           | 52.2         | 4.1                  | 53.3            | 56.3          | 48.8              | 51.8            | 23.0                 |
| 10               | 40.8           | 43.8         | 6.5                  | 47.3            | 50.3          | 40.8              | 43.8            | 25.0                 |
| 16               | 36.0           | 39.0         | 8.2                  | 44.2            | 47.2          | 36.7              | 39.7            | 25.0                 |
| 20               | 33.5           | 36.5         | 9.3                  | 42.8            | 45.8          | 34.8              | 37.8            | 25.0                 |
| 25               | 30.9           | 33.9         | 10.4                 | 41.3            | 44.3          | 32.8              | 35.8            | 24.3                 |
| 31.25            | 28.2           | 31.2         | 11.7                 | 39.9            | 42.9          | 30.9              | 33.9            | 23.6                 |
| 62.5             | 18.4           | 21.4         | 17.0                 | 35.4            | 38.4          | 24.9              | 27.9            | 21.5                 |
| 100              | 10.3           | 13.3         | 22.0                 | 32.3            | 35.3          | 20.8              | 23.8            | 20.1                 |
| 155              | 1.4            | 4.4          | 28.1                 | 29.4            | 32.4          | 17.0              | 20.0            | —                    |
| 200              | —              | —            | 32.4                 | 27.8            | 30.8          | 14.8              | 17.8            | —                    |
| 250              | —              | —            | 36.9                 | 26.3            | 29.3          | 12.8              | 15.8            | —                    |
| 300              | —              | —            | 41.0                 | 25.1            | 28.1          | 11.3              | 14.3            | —                    |
| 350              | —              | —            | 44.9                 | 24.1            | 27.1          | 9.9               | 12.9            | —                    |

Note: Values are expressed in dB per 100m (328 ft.) length. Values above 100 MHz are for information only.

**GenSPEED® 5000 CATEGORY 5e OUTSIDE PLANT  
CROSS-SECTION****ELECTRICAL CHARACTERISTICS**

|                                                               |                  |
|---------------------------------------------------------------|------------------|
| <b>DC Resistance</b> (max)<br>Ohms/100m (328ft) @ 20°C        | 9.38             |
| <b>Mutual Capacitance</b> (nom)<br>pF/ft @ 1 KHz              | 17               |
| <b>Delay Skew</b> (max)<br>ns/100m                            | 45               |
| <b>Propagation Delay</b> (max)<br>ns @ 100 MHz                | 583              |
| <b>Nom. Velocity of Propagation (NVP)</b><br>% Speed of Light | 69               |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-100 MHz   | Ohms<br>100 ± 15 |

# GenSPEED® 5000 Category 5e Residential CMX Outdoor-CMR Cable

## Features And Benefits

- CMX rating allows the cable to be exposed to temperature variations for short distances from the Network Interface Device on the outside of a house to the point where the cable enters the house
- Sunlight-resistant
- Sequential footage markings

## Applications

- 1000 BASE-T (Gigabit Ethernet)
- 52/155 Mbps ATM
- 100/10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- T1
- Voice

## Standard Compliances

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/ICEA S-100-685
- NEC/CEC Type CMX OUTDOOR-CMR
- RoHS Compliant Directive 2002/95/EC



VERIFIED

RoHS Compliant  
Directive 2002/95/EC



## CONSTRUCTION

### Conductors

- 24 AWG solid bare annealed copper

### Insulation

- Polyolefin

### Color Code

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

### Jacket

- Flame-Retardant PVC

### Rip Cord

- Applied longitudinally under jacket

## PHYSICAL DATA

|                                   | CMR (Non-Plenum) |
|-----------------------------------|------------------|
| Nominal Cable Diameter (in)       | 0.210            |
| Nominal Cable Weight (lbs/1000ft) | 26               |
| Temperature Rating (°C)           |                  |
| Installation:                     | -10 to +60       |
| Operation:                        | -40 to +75       |

## PART NUMBERS

Standard packaging: 600' Pull-Pac® II

| Jacket Color | Pull-Pac® II     |          |
|--------------|------------------|----------|
|              | CMR (Non-Plenum) |          |
|              | Ivory            | 2137113E |
|              | Gray             | 2137114E |

Note: For installations using staple guns, the 4-pair construction requires the use of T-25 size staples.

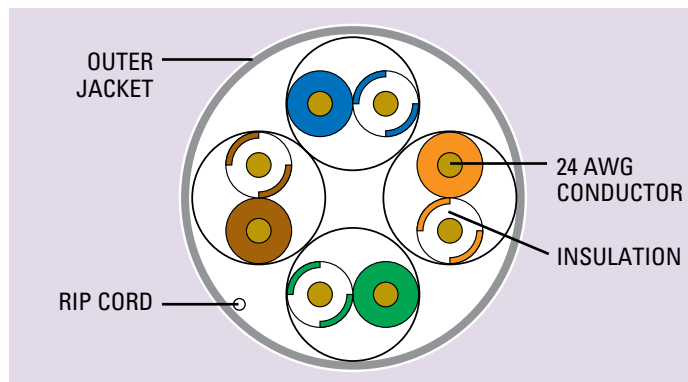
Data subject to change without notice.



**ELECTRICAL PERFORMANCE**

| Frequency<br>MHz | PSACR<br>(min) | ACR<br>(min) | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | ELFEXT<br>(min) | Return Loss<br>(min) |
|------------------|----------------|--------------|----------------------|-----------------|---------------|-------------------|-----------------|----------------------|
| 1                | 60.3           | 63.3         | 2.0                  | 62.3            | 65.3          | 60.8              | 63.8            | 20.0                 |
| 4                | 49.2           | 52.2         | 4.1                  | 53.3            | 56.3          | 48.8              | 51.8            | 23.0                 |
| 10               | 40.8           | 43.8         | 6.5                  | 47.3            | 50.3          | 40.8              | 43.8            | 25.0                 |
| 16               | 36.0           | 39.0         | 8.2                  | 44.2            | 47.2          | 36.7              | 39.7            | 25.0                 |
| 20               | 33.5           | 36.5         | 9.3                  | 42.8            | 45.8          | 34.8              | 37.8            | 25.0                 |
| 25               | 30.9           | 33.9         | 10.4                 | 41.3            | 44.3          | 32.8              | 35.8            | 24.3                 |
| 31.25            | 28.2           | 31.2         | 11.7                 | 39.9            | 42.9          | 30.9              | 33.9            | 23.6                 |
| 62.5             | 18.4           | 21.4         | 17.0                 | 35.4            | 38.4          | 24.9              | 27.9            | 21.5                 |
| 100              | 10.3           | 13.3         | 22.0                 | 32.3            | 35.3          | 20.8              | 23.8            | 20.1                 |
| 155              | 1.4            | 4.4          | 28.1                 | 29.4            | 32.4          | 17.0              | 20.0            | —                    |
| 200              | —              | —            | 32.4                 | 27.8            | 30.8          | 14.8              | 17.8            | —                    |
| 250              | —              | —            | 36.9                 | 26.3            | 29.3          | 12.8              | 15.8            | —                    |
| 300              | —              | —            | 41.0                 | 25.1            | 28.1          | 11.3              | 14.3            | —                    |
| 350              | —              | —            | 44.9                 | 24.1            | 27.1          | 9.9               | 12.9            | —                    |

Note: Values are expressed in dB per 100m (328 ft.) length. Values above 100 MHz are for information only.

**GenSPEED® 5000 CATEGORY 5e CMX/CMR CROSS-SECTION****ELECTRICAL CHARACTERISTICS**

|                                                               |                  |
|---------------------------------------------------------------|------------------|
| <b>DC Resistance (max)</b><br>Ohms/100m (328ft) @ 20°C        | 9.38             |
| <b>Mutual Capacitance (nom)</b><br>pF/ft @ 1 KHz              | 17               |
| <b>Delay Skew (max)</b><br>ns/100m                            | 45               |
| <b>Nom. Velocity of Propagation (NVP)</b><br>% Speed of Light | 70               |
| <b>Impedance</b><br>Frequency (f): 1-100 MHz                  | Ohms<br>100 ± 15 |

**Note:** CMX outdoor rating allows the cable to be exposed for short distances from the Network Interface Device on the outside of the house to the point where the cable enters the house. This type of cable is not to be buried, direct buried or aerially lashed.

# GenSPEED® 5000 Category 5e Backbone 25 Pair Cable

## Features And Benefits

- Connects all systems of a multi-level distributed system to an intermediate system
- Sequential footage markings

## Applications

- 1000 BASE-T (Gigabit Ethernet)
- 100/10 BASE-T
- 100 VG-AnyLAN
- 52/155 Mp/s ATM
- 4/16 Mb/s Token Ring
- T1
- Voice

## Standard Compliances

- ANSI/TIA/EIA 568 B.2 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR for Non-Plenum
- RoHS Compliant Directive 2002/95/EC



## CONSTRUCTION

### Conductors

- 25 pairs of 24 AWG solid bare annealed copper

### Insulation

- Polyolefin

### Color Code

- See Color Code Chart on page 86, except no bandmarking; only solid colors

### Rip Cord

- Applied longitudinally under jacket

### Jacket

- PVC

## PHYSICAL DATA

|                                   | CMR (Non-Plenum) |
|-----------------------------------|------------------|
| Nominal Cable Diameter (in)       | 0.500            |
| Nominal Cable Weight (lbs/1000ft) | 125              |
| Temperature Rating (°C)           |                  |
| Installation:                     | 0 to +60         |
| Operation:                        | -20 to +75       |

## PART NUMBERS

Standard packaging: 1000' Reel

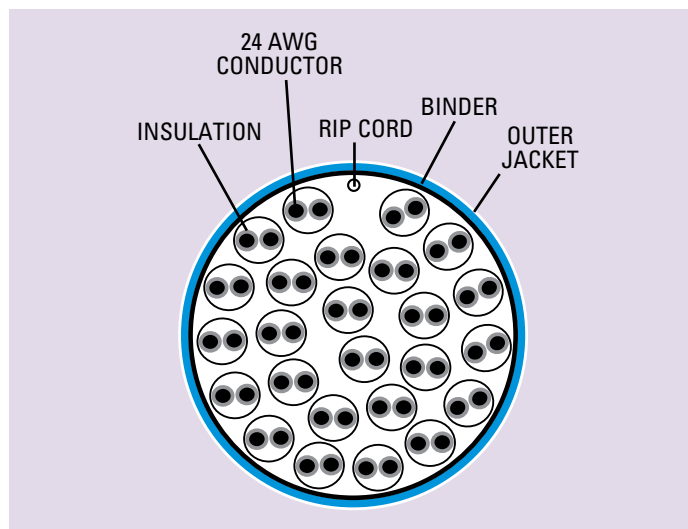
| Jacket Color | Reel             |          |
|--------------|------------------|----------|
|              | CMR (Non-Plenum) |          |
|              | Gray             | 2133269E |
|              | Blue             | 2133694E |
|              | White            | 2133781E |

Data subject to change without notice.

**ELECTRICAL PERFORMANCE**

| Frequency<br>MHz | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | Return Loss<br>(min) |
|------------------|----------------------|-----------------|---------------|-------------------|----------------------|
| <b>0.772</b>     | 1.8                  | 64.3            | 67.3          | 63.0              | —                    |
| <b>1</b>         | 2.0                  | 62.3            | 65.3          | 60.8              | 20.0                 |
| <b>4</b>         | 4.1                  | 53.3            | 56.3          | 48.7              | 23.0                 |
| <b>8</b>         | 5.8                  | 48.3            | 51.3          | 42.7              | 24.5                 |
| <b>10</b>        | 6.5                  | 47.3            | 50.3          | 40.8              | 25.0                 |
| <b>16</b>        | 8.2                  | 44.3            | 47.3          | 36.7              | 25.0                 |
| <b>20</b>        | 9.3                  | 42.3            | 45.3          | 34.7              | 25.0                 |
| <b>25</b>        | 10.4                 | 41.3            | 44.3          | 32.8              | 24.3                 |
| <b>31.25</b>     | 11.7                 | 39.3            | 42.3          | 30.9              | 23.6                 |
| <b>62.5</b>      | 17.0                 | 35.3            | 38.3          | 24.8              | 21.5                 |
| <b>100</b>       | 22.0                 | 32.3            | 35.3          | 20.8              | 20.1                 |

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

**GenSPEED® 5000 CATEGORY 5e BACKBONE  
25 PAIR CROSS-SECTION****ELECTRICAL CHARACTERISTICS**

|                                                               |                  |
|---------------------------------------------------------------|------------------|
| <b>DC Resistance</b> (max)<br>Ohms/100m (328ft) @ 20°C        | 9.38             |
| <b>Mutual Capacitance</b> (nom)<br>pF/ft @ 1 KHz              | 14               |
| <b>Delay Skew</b> (max)<br>ns/100m                            | 45               |
| <b>Propagation Delay</b> (max)<br>ns @ 100 MHz                | 538              |
| <b>Nom. Velocity of Propagation (NVP)</b><br>% Speed of Light | 68               |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-100 MHz   | Ohms<br>100 ± 15 |