

# GenSPEED® 6 Category 6 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
- Application assurance warranty

## Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 100 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- Indoor applications only

## Standard Compliances

- ANSI/TIA/EIA 568 B.2-1
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- UL 444



## CONSTRUCTION

### Conductors

- 23 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          |
| Nominal Cable Diameter (in)       | 0.450            |
| Nominal Cable Weight (lbs/1000ft) | 67.8             |
| Minimum Bend Radius (in)          | 1.0              |
| Maximum Pulling Force (lbs)       | 25               |
| Temperature Rating (°C)           |                  |
| Installation:                     | 0 to +60         |
| Operation:                        | -20 to +75       |

## PART NUMBERS

| Color | Part Number       | Spool    |            |
|-------|-------------------|----------|------------|
|       |                   | Unit 1   | Reel       |
| Blue  | <b>9133300</b>    | 6R Blue  | 1000' reel |
| Blue  | <b>9133300.2R</b> | 6R Blue  | 2000' reel |
| White | <b>9133305</b>    | 6R White | 1000' reel |
| White | <b>9133305.2R</b> | 6R White | 2000' reel |

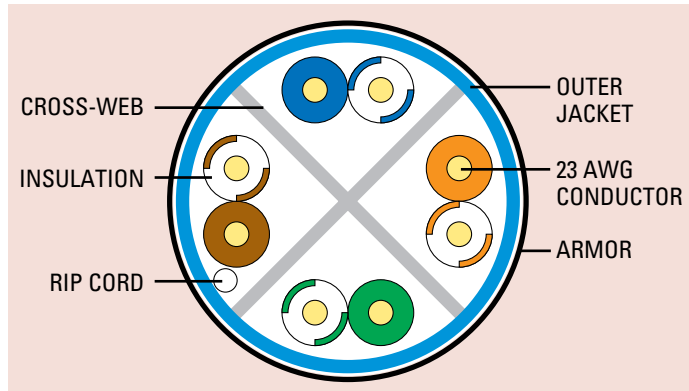
Data subject to change without notice.

**ELECTRICAL PERFORMANCE**

|              | PSACR<br>(min) | ACR<br>(min) | Attenuation<br>(max) | PSNEXT<br>(min) | NEXT<br>(min) | PSELFEXT<br>(min) | ELFEXT<br>(min) | Return<br>Loss<br>(min) | LCL<br>(min) | ELTCTL<br>(min) |
|--------------|----------------|--------------|----------------------|-----------------|---------------|-------------------|-----------------|-------------------------|--------------|-----------------|
| <b>1</b>     | 70.3           | 72.3         | 2.0                  | 72.3            | 74.3          | 64.8              | 67.8            | 20.0                    | 40.0         | 35.0            |
| <b>4</b>     | 59.3           | 61.5         | 3.8                  | 63.3            | 65.3          | 52.8              | 55.7            | 23.0                    | 40.0         | 23.0            |
| <b>10</b>    | 51.3           | 53.3         | 6.0                  | 57.3            | 59.3          | 44.8              | 47.8            | 25.0                    | 40.0         | 15.0            |
| <b>16</b>    | 46.7           | 48.7         | 7.6                  | 54.2            | 56.2          | 40.7              | 43.7            | 25.0                    | 38.0         | 10.9            |
| <b>20</b>    | 44.3           | 46.3         | 8.5                  | 52.8            | 54.8          | 38.8              | 41.7            | 25.0                    | 37.0         | 9.0             |
| <b>31.25</b> | 39.2           | 41.2         | 10.7                 | 49.9            | 51.9          | 34.9              | 37.9            | 23.6                    | 35.1         | 5.1             |
| <b>62.5</b>  | 29.9           | 32.0         | 15.4                 | 45.4            | 47.4          | 28.9              | 31.8            | 21.5                    | 32.0         | 5.0             |
| <b>100</b>   | 22.5           | 24.5         | 19.8                 | 42.3            | 44.3          | 24.8              | 27.8            | 20.1                    | 30.0         | 5.0             |
| <b>150</b>   | 14.9           | 16.9         | 24.7                 | 39.7            | 41.7          | 21.3              | 24.3            | 18.9                    | 28.2         | 5.0             |
| <b>200</b>   | 8.8            | 10.8         | 29.0                 | 37.8            | 39.8          | 18.8              | 21.8            | 18.0                    | 27.0         | 5.0             |
| <b>250</b>   | 3.5            | 5.5          | 32.8                 | 36.3            | 38.3          | 16.8              | 19.8            | 17.3                    | 26.0         | 5.0             |
| <b>350</b>   | -              | -            | 39.8                 | 34.1            | 36.1          | 13.9              | 16.9            | 16.3                    | -            | -               |
| <b>400</b>   | -              | -            | 43.0                 | 33.3            | 35.3          | 12.8              | 15.8            | 15.9                    | -            | -               |
| <b>500</b>   | -              | -            | 48.9                 | 31.8            | 33.8          | 10.8              | 13.8            | 15.2                    | -            | -               |

Note: Values are expressed in dB per 100m (328 ft.) length. Results beyond 250 MHz are for reference only.

**GenSPEED® 6 INTERLOCK ARMORED CABLE  
CROSS-SECTION**



**ELECTRICAL CHARACTERISTICS**

|   |                  |
|---|------------------|
| <b>DC Resistance (max)</b><br>Ohms/100m (328ft) @ 20°C      | 9.38             |
| <b>DC Resistance Unbalance (max)</b><br>Individual Pair %   | 3.0              |
| <b>Delay Skew (max)</b><br>ns/100m                          | 45               |
| <b>Nom. Velocity of Propagation</b><br>% Speed of Light     | CMR: 70          |
| <b>Characteristic Impedance</b><br>Frequency (f): 1-250 MHz | Ohms<br>100 ± 15 |