

# GenSPEED® 6 with 17 FREE™ Category 6 Cable



## Features And Benefits

- Halogen-free
- Reduced toxicity
- More environmentally friendly
- Increased flexibility for easy installation
- Unique tape design engineered for consistent electrical performance
- 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
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- Digital Video
- Broadband and Baseband Analog Video
- Draft IEEE 802.3at for PoE Plus

## Standard Compliances

- ANSI/TIA/EIA 568 C.2
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



Data subject to change without notice.



## CONSTRUCTION

### Conductors

- 23 AWG solid bare annealed copper

### Insulation

- 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

### Separator

- Tape

### Rip Cord

- Applied longitudinally under jacket

### Jacket










- Non-Plenum: Zero-Halogen Polyolefin

## PHYSICAL DATA

	CMR (Non-Plenum)
Nominal Cable Diameter (in)	0.210
Nominal Cable Weight (lbs/1000ft)	29
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (°C)	
Installation:	-20 to +75
Operation:	-20 to +75

## PART NUMBERS

Standard packaging: 1000' Pull-Pac® II with environmentally friendly packaging. Spool-Pac® and Spool by special order.

Jacket Color	Pull-Pac® II	Spool-Pac®	Spool
	CMR (Non-Plenum)	CMR (Non-Plenum)	CMR (Non-Plenum)
 Blue	7133800-17F	7133840-17F	7133860-17F
 White	7133801-17F	7133841-17F	7133861-17F
 Yellow	7133802-17F	7133842-17F	7133862-17F
 Gray	7133803-17F	7133843-17F	7133863-17F
 Red	7133804-17F	7133844-17F	7133864-17F
 Orange	7133805-17F	7133845-17F	7133865-17F
 Green	7133806-17F	7133846-17F	7133866-17F
 Black	7133807-17F	7133847-17F	7133867-17F
 Purple	7133809-17F	7133859-17F	7133869-17F

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.

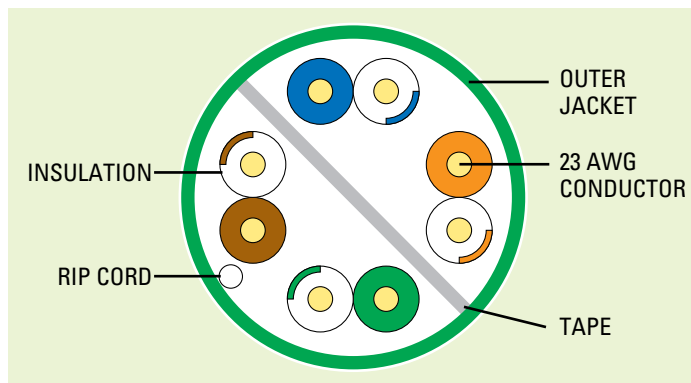


## GenSPEED® 6 with 17 FREE Electrical Performance

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)	LCL (min)	ELTCTL (min)
1	70.3	72.3	2.0	72.3	74.3	64.8	67.8	20.0	40.0	35.0
4	59.3	61.5	3.8	63.3	65.3	52.8	55.7	23.0	40.0	23.0
10	51.3	53.3	6.0	57.3	59.3	44.8	47.8	25.0	40.0	15.0
16	46.7	48.7	7.6	54.2	56.2	40.7	43.7	25.0	38.0	10.9
20	44.3	46.3	8.5	52.8	54.8	38.8	41.7	25.0	37.0	9.0
31.25	39.2	41.2	10.7	49.9	51.9	34.9	37.9	23.6	35.1	5.1
62.5	29.9	32.0	15.4	45.4	47.4	28.9	31.8	21.5	32.0	5.0
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1	30.0	5.0
150	14.9	16.9	24.7	39.7	41.7	21.3	24.3	18.9	28.2	5.0
200	8.8	10.8	29.0	37.8	39.8	18.8	21.8	18.0	27.0	5.0
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3	26.0	5.0
350	—	—	39.8	34.1	36.1	13.9	16.9	16.3	—	—
400	—	—	43.0	33.3	35.3	12.8	15.8	15.9	—	—
500	—	—	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 350 MHz are for reference only. Spec meets TIA/EIA 568 C.2 standard for Cat 6 UTP cabling.

## GenSPEED® 6 with 17 FREE CATEGORY 6 CROSS-SECTION



## ELECTRICAL CHARACTERISTICS

<b>DC Resistance (max)</b> Ohms/100m (328ft) @ 20°C	9.38
<b>DC Resistance Unbalance (max)</b> Individual Pair %	4.0
<b>Delay Skew (max)</b> ns/100m	45
<b>Nom. Velocity of Propagation</b> % Speed of Light	CMR: 68
<b>Characteristic Impedance</b> Frequency (f): 1-350 MHz	Ohms 100 ± 15
<b>Input Impedance</b> Frequency (f): 1-100 MHz 100-350 MHz	Ohms 100 ± 15 100 ± 22



### Going Green with General Cable

General Cable has accelerated its environmental commitment, addressing its green alternative approach by identifying greener opportunities and promoting green cabling solutions wherever feasible. This includes promoting our existing green products; partnering with key customers in their green endeavors; identifying and providing for green product gaps; and participating as members in collaborative ventures such as the Green Suppliers Network (GSN).



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