

# 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

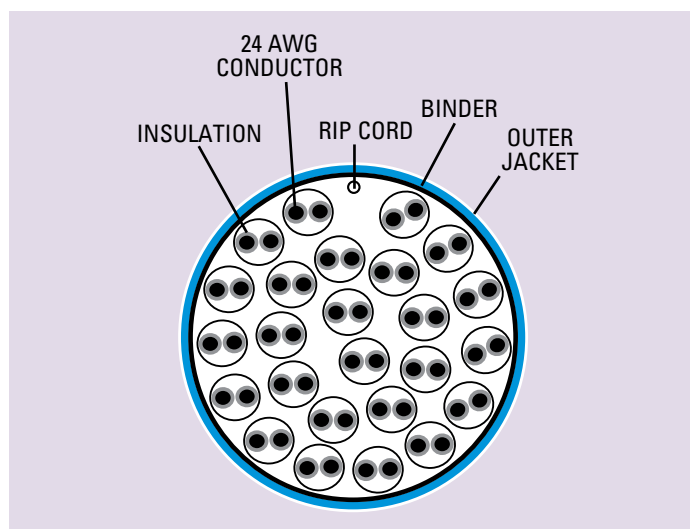
Jacket Color	Reel	
	CMR (Non-Plenum)	
 Gray	2133269E	
 Blue	2133694E	
 White	2133781E	

Data subject to change without notice.

**ELECTRICAL PERFORMANCE**

Frequency MHz	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	Return Loss (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) Ohms/100m (328ft) @ 20°C	9.38
<b>Mutual Capacitance</b> (nom) pF/ft @ 1 KHz	14
<b>Delay Skew</b> (max) ns/100m	45
<b>Propagation Delay</b> (max) ns @ 100 MHz	538
<b>Nom. Velocity of Propagation (NVP)</b> % Speed of Light	68
<b>Characteristic Impedance</b> Frequency (f):	Ohms 100 ± 15