

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
- ANSI/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

- 25 pairs of 24 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

- See Color Code Chart on page 94, except no bandmarking; only solid colors

Rip Cord

- Applied longitudinally under jacket

Jacket

- Non-Plenum: Flame-retardant PVC
- Plenum: Low-smoke, flame-retardant PVC

Separator




- Non-Plenum: N/A
- Plenum: Core filler

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.500	0.500
Nominal Cable Weight (lbs/1000 ft)	125	160
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard packaging: 1000' Reel

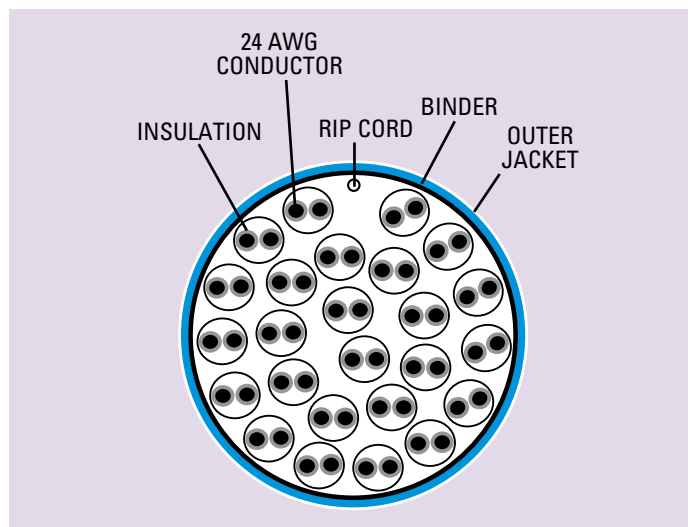
Jacket Color	Reel	
	CMR (Non-Plenum)	CMP (Plenum)
 Blue	2133694E	2131753E
 White	2133781E	2131550E
 Gray	2133269E	2131752E

Data subject to change without notice.

ELECTRICAL PERFORMANCE

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

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

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

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 KHz	14
Delay Skew (max) ns/100 m	45
Propagation Delay (max) ns @ 100 MHz	CMP: 518 CMR: 538
Nom. Velocity of Propagation (NVP) % Speed of Light	CMP: 72 CMR: 68
Characteristic Impedance Frequency (f):	Ohms 1-100 MHz 100 ± 15