

GenSPEED® 5000 Category 5e Backbone 25 Pair Cable

Standards-Compliant



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 95, 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
Minimum Bend Radius (in)	4.0	4.0
Maximum Pulling Force (lbs)	50	50
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75




ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
0.772	1.8	67.0	—
1	2.0	65.3	20.0
4	4.1	56.3	23.0
8	5.8	51.8	24.5
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.

PART NUMBERS

Standard packaging: 1000' Reel

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

Features and Benefits

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

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

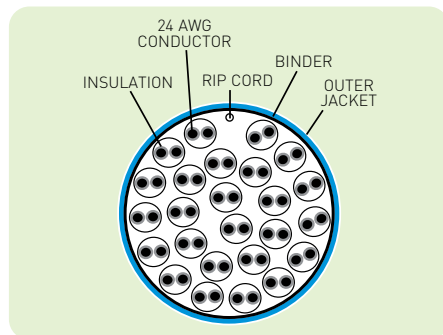
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	5.00
Delay Skew (max) ns/100 m	45
Propagation Delay (max) ns @ 100 MHz	CMP: 518 CMR: 538
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 68
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15

CROSS-SECTION



Data subject to change without notice.

