

GenSPEED® 5000 Category 5e Backbone 25 Pair Cable

Standards-Compliant

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-C.2
- 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)



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

PART NUMBERS

Standard packaging: 1000' Reel

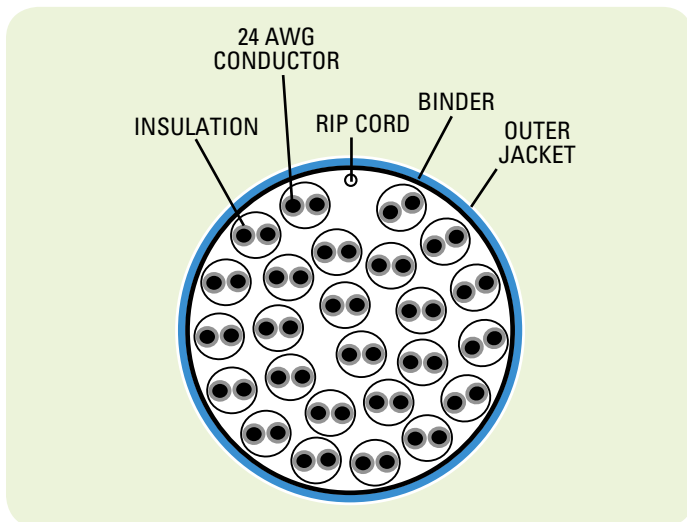
Jacket Color	Reel	Reel
	CMR (Non-Plenum)	CMP (Plenum)
Blue	2133694E	
White		2131550E
Gray	2133269E	

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	64.0	67.0	63.0	—
1	2.0	62.3	65.3	60.8	20.0
4	4.1	53.3	56.3	48.8	23.0
8	5.8	48.8	51.8	42.7	24.5
10	6.5	47.3	50.3	40.8	25.0
16	8.2	44.2	47.2	36.7	25.0
20	9.3	42.8	45.8	34.8	25.0
25	10.4	41.3	44.3	32.8	24.3
31.25	11.7	39.9	42.9	30.9	23.6
62.5	17.0	35.4	38.4	24.9	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 @ 20°C.

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