

GenSPEED™ 5000 Category 5e Cable

standards compliant

GenSPEED™ 5000

GenSPEED™ 5000 is the first in a series of Category 5e structured wiring cables that allow for Gigabit Ethernet transmission. As an evolution from Category 5 standards, Category 5e has been engineered to provide stable and continuous performance, with positive PSACR

beyond 155MHz. GenSPEED 5000 offers warranted results, which meet Category 5e cable requirements with proven test data up to 250MHz. As with all of the General Cable line of category products, this cable is engineered to perform under present network infrastructure

environments as well as with built-in capacity for future expansion. Every master reel is tested for electrical performance compliance.

Features and Benefits

- Positive PSACR beyond 155MHz for future bandwidth requirements
- Characterized and tested to 250MHz
- TRU-Mark™ print legend contains footage marking from 1000' to 0'
- Unique product-specific packaging for ease of identification
- UL Verified for guaranteed performance
- Application assurance warranty

Applications

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring

Standard Compliances

- ANSI/TIA/EIA-568-B.2 (Category 5e)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- UL Type CMR (UL 1666) & c(UL) CMG for Non-Plenum
- UL Type CMP (NFPA 262) & c(UL) CMP for Plenum
- UL 444

CONSTRUCTION

Conductors

- 24 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: 3 pairs FEP / 1 pair polyolefin

Color Code

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Non-Plenum: Brown-White/Brown
Plenum: Brown-White

Rip Cord

- Non-Plenum: Applied longitudinally under jacket
- Plenum: none

Jacket

- Non-Plenum: Flame-Retardant PVC
- Plenum: Low-Smoke, Flexguard® Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.200	0.180
Nominal Cable Weight (lbs/1000 ft)	21	20
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-10 to +60	-10 to +60

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	CMR (Non-Plenum)	CMP (Plenum)
Blue	5133299E	5131278E
White	5133255E	5131361E
Yellow	5133289E	5131379E
Gray	5133200E	5131418E
Red	5133274E	5131477E
Orange	5133383E	5131422E
Green	5133512E	5131547E
Black	5133696E	5131683E
Pink	5133290E	5131380E
Purple	5133445E	5131730E

ELECTRICAL PERFORMANCE

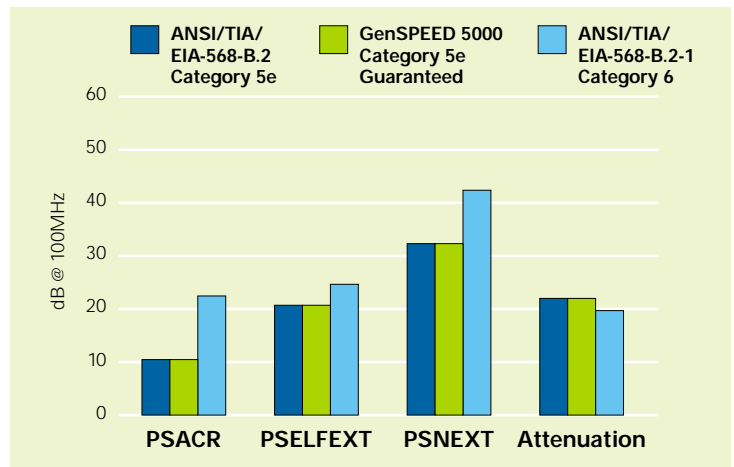
Frequency MHz	PSACR min.	ACR min.	Attenuation max.	PSNEXT min.	NEXT min.	PSELFEXT min.	ELFEXT min.	Return Loss min.
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.7	51.7	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.7	37.7	25.0
25	30.9	33.9	10.4	41.3	44.3	32.8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.8	27.8	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	16.9	19.9	-
200	-	-	32.4	27.8	30.8	14.7	17.7	-
250	-	-	36.9	26.3	29.3	12.8	15.8	-

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

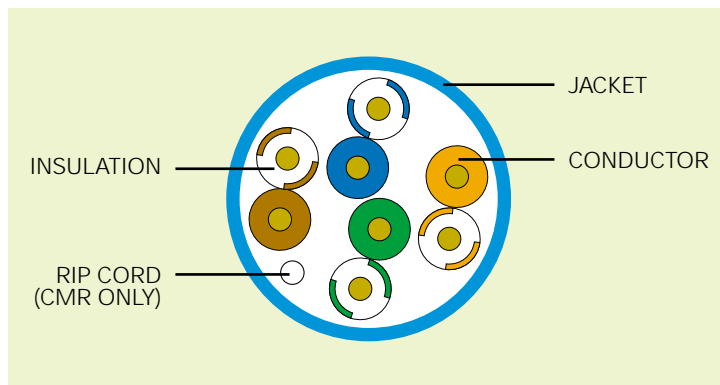
ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Mutual Capacitance (nom) PF/ft @ 1KHz	14
Delay Skew (max) ns/100m	25
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f):	Ohms 100 ± 15 1-250MHz

KEY PERFORMANCE PARAMETERS



GENSPEED 5000 CABLE CROSS SECTION



	ANSI/TIA/EIA-568-B.2 Category 5e	GenSPEED 5000 Category 5e Guaranteed	ANSI/TIA/EIA-568-B.2-1 Category 6
PSACR	10.3	10.3	22.5
PSELFEXT	20.8	20.8	24.8
PSNEXT	32.3	32.3	42.3
Attenuation	22.0	22.0	19.8

Note: Values are expressed in dB at 100MHz

An increased **PSACR** value will yield a better signal strength, which translates into extended usable bandwidth.

An increased **PSELFEXT** value delivers better signal strength at the far end for bi-directional transmission.

By increasing the **PSNEXT** value, noise immunity is boosted.

When **attenuation** is lower, the signal power is better.



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