

# GenSPEED™ 5500 Premium Category 5e Cable

enhanced transmission throughput

GenSPEED™ 5500

GenSPEED™ 5500 Premium Category 5e cable has been engineered for users who seek significant crosstalk performance for improved network optimization and reliability. With network systems, one of the most complex functions is the near-end crosstalk cancellation. Therefore, better performing cables such as

GenSPEED 5500 can lower overall system costs. This premium cable, tested up to 350MHz, ensures increased usable headroom for present through future application upgrades. Additionally, GenSPEED 5500 provides proven electrical performance—enhancing network efficiency by lowering bit error rate. The

guaranteed performance of our GenSPEED 5500 cable exceeds the ANSI/TIA/EIA-568-B.2 and ISO/IEC 11801 horizontal cable requirements. When improved network capability and signal transmission quality are critical, GenSPEED 5500 is the performance cable for the job.

### Features and Benefits

- Positive PSACR beyond 200MHz for increased available bandwidth
- Enhanced signal-to-noise ratio improving bit error rate
- Every master reel is tested for electrical performance compliance
- 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
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband analog video

### 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: Brown-White/Brown

#### Rip Cord

- Applied longitudinally under jacket

#### Jacket

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

### PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.210	0.190
Nominal Cable Weight (lbs/1000 ft)	22	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	6133299	6131278
White	6133255	6131361
Yellow	6133289	6131546
Gray	6133200	6131418
Red	6133274	6131477
Orange	6133746	6131422
Green	6133512	6131547
Black	6133696	6131683
Pink	6133290	6131380
Purple	6133445	6131730

**ELECTRICAL PERFORMANCE**

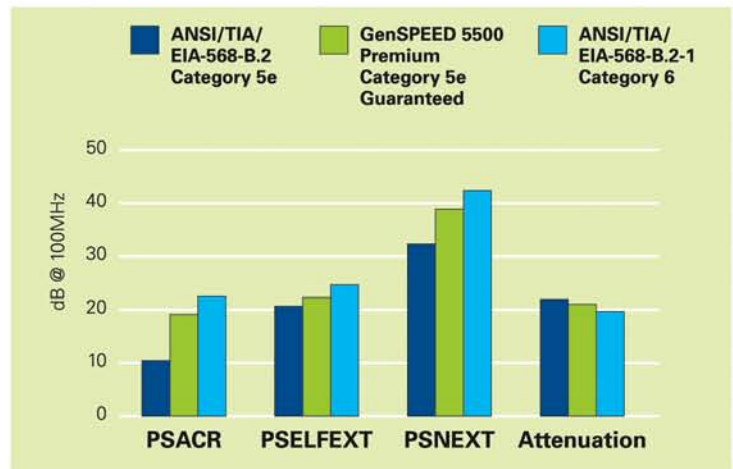
Frequency MHz	PSACR min.	ACR min.	Attenuation max.	PSNEXT min.	NEXT min.	PSELFEXT min.	ELFEXT min.	Return Loss min.
1	68.1	70.1	1.9	68.3	70.3	62.0	65.0	20.0
4	57.1	59.1	3.9	59.3	61.3	50.0	53.0	23.0
10	48.9	50.9	6.1	53.3	55.3	42.0	45.0	25.0
16	44.1	46.1	7.8	50.3	52.3	37.9	40.9	25.0
20	41.7	43.7	8.8	48.8	50.8	36.0	39.0	25.0
31.25	36.4	38.4	11.2	45.9	47.9	32.1	35.1	23.6
62.5	26.9	28.9	16.2	41.4	43.4	26.1	29.1	21.5
100	19.0	21.0	21.0	38.3	40.3	22.0	25.0	20.1
155	10.3	12.3	26.8	35.5	37.5	18.2	21.2	18.8
200	4.5	6.5	31.0	33.8	35.8	16.0	19.0	18.0
250	-	0.8	35.3	32.3	34.3	14.0	17.0	17.3
300	-	-	39.2	31.2	33.2	12.5	15.5	16.8
350	-	-	43.0	30.2	32.2	11.1	14.1	16.3

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

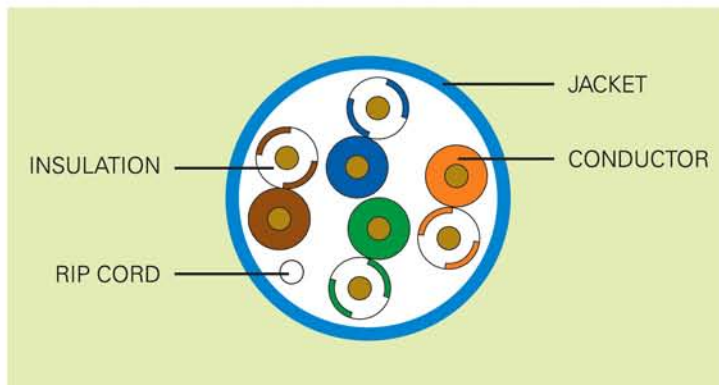
**ELECTRICAL CHARACTERISTICS**

<b>DC Resistance (max)</b> Ohms/100m (328ft) @ 20°C	8.9
<b>DC Resistance Unbalance (max)</b> Individual Pair %	3.0
<b>Delay Skew (max)</b> ns/100m	25
<b>Nom. Velocity of Propagation</b> % Speed of Light	CMP: 72 CMR: 70
<b>Characteristic Impedance</b> Frequency (f):	Ohms 1-350MHz 100 ± 15
<b>Input Impedance</b> Frequency (f):	Ohms 1-100MHz 100 ± 15 100-350MHz 100 ± 22

**KEY PERFORMANCE PARAMETERS**



**GENSPEED 5500 CABLE CROSS SECTION**



	ANSI/TIA/EIA-568-B.2 Category 5e	GenSPEED 5500 Premium Category 5e Guaranteed	ANSI/TIA/EIA-568-B.2-1 Category 6
PSACR	10.3	19.0	22.5
PSELFEXT	20.8	22.0	24.8
PSNEXT	32.3	38.3	42.3
Attenuation	22.0	21.0	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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