

GenSPEED™ 6600 Enhanced Category 6 Cable

signal strength and power

GenSPEED™ 6600

General Cable's GenSPEED™ 6600 Enhanced Category 6 cable features a revolutionary design that provides the industry with the best performing Category 6 cable in its class. GenSPEED 6600 offers the highest power-sum attenuation to crosstalk ratio (PSACR), and

lowest attenuation performance on the market for overall better signal strength and power. This cable is engineered to perform with a positive PSACR beyond 400MHz for increased available bandwidth. In addition, the construction utilizes four innovative patent-

pending flat tape separators resulting in PSACR headroom of 9.9dB and 10.8dB above the ANSI/TIA/EIA-568-B.2-1 Category 6 standard at 100MHz and 250MHz respectively.



Features and Benefits

- Patent-pending flat tape design for optimum pair separation improving crosstalk performance
- Positive PSACR beyond 400MHz for increased available bandwidth
- Lowest Category 6 attenuation performance available today
- Improved signal-to-noise ratio reducing network errors and related downtime
- 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
- ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Digital Video
- Broadband and Baseband analog video

Standard Compliances

- ANSI/TIA/EIA-568-B.2-1 (Category 6)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- 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

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: FEP

Color Code

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

Separator

- Patent-pending flat four tape design

Rip Cord

- Applied longitudinally under jacket

Jacket

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

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.260	0.250
Nominal Cable Weight (lbs/1000 ft)	30	32
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' Spool-Pac®

Jacket Color	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133721	7131721
White	7133722	7131722
Yellow	7133723	7131723
Gray	7133724	7131724
Red	7133725	7131725
Orange	7133726	7131726
Green	7133727	7131727
Black	7133728	7131728
Pink	7133729	7131729
Purple	7133730	7131730

ELECTRICAL PERFORMANCE

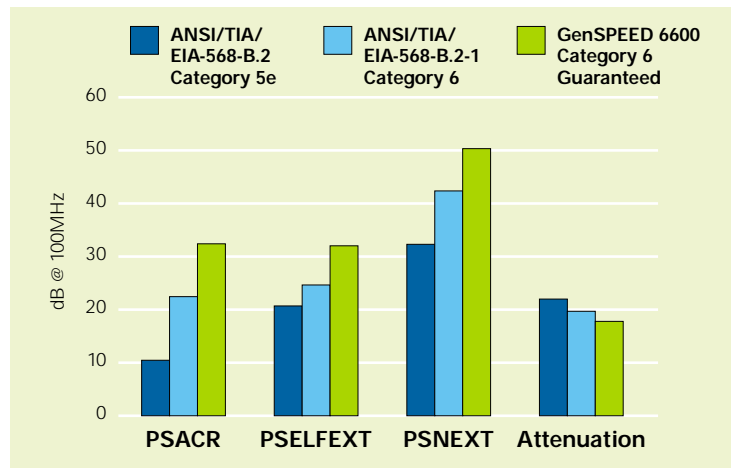
Frequency MHz	PSACR min.	ACR min.	Attenuation max.	PSNEXT min.	NEXT min.	PSELFEXT min.	ELFEXT min.	Return Loss min.	LCL min.
1	78.5	80.5	1.8	80.3	82.3	72.0	75.0	20.0	50.0
4	67.9	69.9	3.4	71.3	73.3	60.0	63.0	23.0	44.0
10	60.0	62.0	5.3	65.3	67.3	52.0	55.0	25.0	40.0
16	55.4	57.4	6.8	62.2	64.2	47.9	50.9	25.0	38.0
20	53.2	55.2	7.6	60.8	62.8	46.0	49.0	25.0	37.0
31.25	48.3	50.3	9.6	57.9	59.9	42.1	45.1	26.1	35.1
62.5	39.5	41.5	13.9	53.4	55.4	36.1	39.1	24.0	32.0
100	32.4	34.4	17.9	50.3	52.3	32.0	35.0	22.5	30.0
200	19.4	21.4	26.4	45.8	47.8	26.0	29.0	20.5	27.0
250	14.3	16.3	30.0	44.3	46.3	24.0	27.0	19.8	26.0
350	5.8	7.8	36.4	42.2	44.2	21.1	24.1	18.8	24.6
400	1.9	3.9	39.4	41.3	43.3	20.0	23.0	18.4	24.0
500	-	-	45.0	39.8	41.8	18.0	21.0	17.7	23.0

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

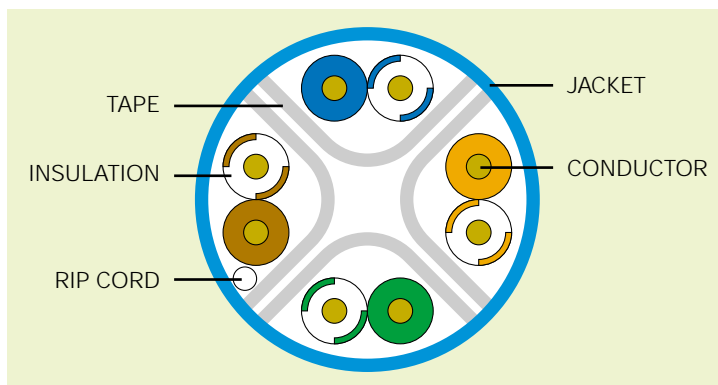
ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100m	35
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f):	Ohms 1-10MHz: 100 ± 15 10-500MHz: 100 ± 10
Input Impedance Frequency (f):	Ohms 1-100MHz: 100 ± 15 100-350MHz: 100 ± 22 350-500MHz: 100 ± 32

KEY PERFORMANCE PARAMETERS



GENSPEED 6600 CABLE CROSS SECTION



	ANSI/TIA/EIA-568-B.2 Category 5e	ANSI/TIA/EIA-568-B.2-1 Category 6	GenSPEED 6600 Category 6 Guaranteed
PSACR	10.3	22.5	32.4
PSELFEXT	20.8	24.8	32.0
PSNEXT	32.3	42.3	50.3
Attenuation	22.0	19.8	17.9

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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