

GenSPEED® 6 MAX Category 6 Cable (22 AWG)



PART NUMBERS

Standard packaging: 1000' Lengths

Jacket Color	Spool		Pull-Pac®	Spool
	CMR (Non-Plenum)	CMP (Plenum)	CMP (Plenum)	CMP (Plenum)
Blue	8133860	8131800	8131860	8131860
White	8133861	8131801	8131861	8131861
Yellow	8133862	8131802	8131862	8131862
Gray	8133863	8131803	8131863	8131863
Red	8133864	8131804	8131864	8131864
Orange	8133865	8131805	8131865	8131865
Green	8133866	8131806	8131866	8131866
Black	8133867	8131807	8131867	8131867
Pink	8133868	8131808	8131868	8131868
Purple	8133869	8131809	8131869	8131869

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Weight (lbs/1000 ft)	34	38
Nominal Cable Diameter (in)	0.270	0.245
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C)		
Installation:	-10 to +60	0 to +60
Operation:	-40 to +75	-20 to +105

CONSTRUCTION:

Conductors

- 22 AWG solid bare annealed copper

Insulation

- Plenum: Fluoropolymer
- Non-Plenum: Polyolefin

Color Code

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

Separator

- Divider

Rip Cord

- Applied longitudinally under jacket

Jacket

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

Features and Benefits

- Guaranteed 7% insertion loss improvement over Category 6 industry standard, substantially increasing headroom of ACR and PSACR
- Performance guaranteed to 350 MHz
- CMX Rating allows the cable to be exposed to temperature variations for short distances from the Network Interface Device on the outside of a house to the point where the cable enters the house
- CMR rating also allows the cable to be used in the traditional indoor CMR installations.
- CMR: Sunlight-resistant
- CMR: Aerial applications
- Third-party verified for guaranteed performance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+, POE++
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video
- Supports the growth of higher wattage devices (IT/IP, IoT, and IoE)
- Compatible with new higher-speed, higher-power USB 3.1 SuperSpeed

Standard Compliances

- NEC/CEC Type CMX Outdoor - CMR
- UL444 Sunlight-Resistant for Non-Plenum
- ICEA S-100-685
- Telcordia GR-3164 Severe Cold Impact for Non-Plenum
- UL Listed CMP-LP (0.7A)*
- ANSI/TIA 568.2-E
- UL 444
- NEC/CEC Type CMP (NFPA 262) for Plenum
- TIA TSB-184:2009
- RoHS Compliant Directive 2011/65/EU
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0(Class E)
- ANSI/TIA 862 (Building Automation)

*0.7A is the ampacity rating of the cable, which equals to 140 watts using 50 volts over four pairs.

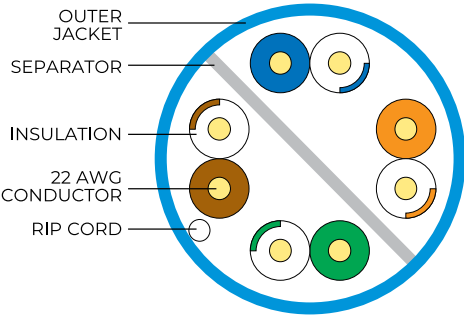
GenSPEED® 6 MAX Category 6 Cable (22 AWG)

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSAACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)
1	70.4	72.4	1.9	72.3	74.3	64.8	67.8	20.0	40.0
4	59.8	61.8	3.5	63.3	65.3	52.8	55.7	23.0	40.0
10	51.8	53.8	5.5	57.3	59.3	44.8	47.8	25.0	40.0
16	47.2	49.2	7.0	54.2	56.2	40.7	43.7	25.0	38.0
20	44.9	46.9	7.9	52.8	54.8	38.8	41.7	25.0	37.0
31.25	40.0	42.0	9.9	49.9	51.9	34.9	37.9	23.6	35.1
62.5	31.1	33.1	14.3	45.4	47.4	28.9	31.8	21.5	32.0
100	23.9	25.9	18.4	42.3	44.3	24.8	27.8	20.1	30.0
150	16.7	18.7	23.0	39.7	41.7	21.3	24.3	18.9	28.2
200	10.8	12.8	27.0	37.8	39.8	18.8	21.8	18.0	27.0
250	5.7	7.7	30.6	36.3	38.3	16.8	19.8	17.3	26.0
350	—	—	37.0	34.1	36.1	13.9	16.9	16.8	—
400	—	—	40.0	33.3	35.3	12.8	15.8	15.9	—
500	—	—	45.5	31.8	33.8	10.8	13.8	15.2	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20 °C. Results beyond 350 MHz are for Plenum and reference only.
*PSACR & ACR not specified in ANSI/TIA 568.2-E

CROSS-SECTION



ELECTRICAL CHARACTERISTICS

	Max	Nom
DC Resistance Ohms/100 m (328 ft) @ 20 °C	9.38	6.5
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (max) ns/100 m	45	35
Nom. Velocity of Propagation % Speed of Light	72	
Characteristic Impedance Frequency (f): 1-600 MHz	Ohms 100 ± 15	