

# GenSPEED® 6 MAX™ Category 6 CMP Cable (22 AWG)

The Most Versatile Cable in the Industry



### Features & Benefits

- 100% fluoropolymer insulation construction
- Performance guaranteed to 350 MHz
- Guaranteed 7% Insertion Loss improvement over Category 6 industry standard, substantially increasing headroom of ACR and PSACR
- 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
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM
- Supports the growth of higher-wattage devices (IT/IP, IoT, and IoE)
- Compatible with new higher-speed, higher-power USB 3.1 SuperSpeed

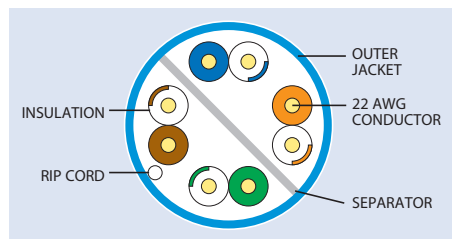
### Standard Compliances

- ANSI/TIA 568.2-D
- TIA TSB-184:2009
- NEC/CEC Type CMP-LP (0.7A) (NFPA 262)
- RoHS Compliant Directive 2011/65/EU
- UL 444
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)

### ELECTRICAL CHARACTERISTICS

	Max.	Nom.
<b>DC Resistance</b> Ohms/100 m (328 ft) @ 20°C	9.38	6.50
<b>DC Resistance Unbalance</b> Individual Pair %	4.00	< 1
<b>Delay Skew</b> ns/100 m	45	35
<b>Nom. Velocity of Propagation</b> % Speed of Light	72	
<b>Characteristic Impedance</b> Frequency (f): 1-350 MHz	Ohms 100 ± 15	

### CROSS-SECTION



### CONSTRUCTION

<b>Conductors</b> • 22 AWG solid bare annealed copper	<b>Separator</b> • Divider
<b>Insulation</b> • Fluoropolymer	<b>Rip Cord</b> • Applied longitudinally under jacket
<b>Color Code</b> • Pair 1: Blue-White/Blue • Pair 2: Orange-White/Orange • Pair 3: Green-White/Green • Pair 4: Brown-White/Brown	<b>Jacket</b> • Low-Smoke, Flame-Retardant PVC

### PHYSICAL DATA

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

### ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (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	16.3	—
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 350MHz are for reference only.  
\*PSACR & ACR not specified in ANSI/TIA 568.2-D

### PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II		Jacket Color	Pull-Pac® II	
		CMP (Plenum)			CMP (Plenum)
Blue		8131800	Red		8131804
White		8131801	Orange		8131805
Yellow		8131802	Green		8131806
Gray		8131803			

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply. Non-stock items may be subject to minimum order quantities. Other colors available.