

GenSPEED® 6 Category 6 Cable LP (23 AWG)

Standards-Compliant Extended Frequency



Features and Benefits

- Unique separator design engineered for consistent electrical performance
- Performance guaranteed to 350 MHz
- Improved cable temperature rating (105°C Plenum) for greater protection against increased operating temperatures
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance
- 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

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMP-LP (0.6A) for Plenum*
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)

* 0.6A is the ampacity rating of the cable, which equates to 120 watts using 50 volts over four pairs.

CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Separator

- Divider

Insulation

- Plenum: FEP

Rip Cord

- Applied longitudinally under jacket

Color Code

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

Jacket

- Plenum: Low-Smoke, Flame-Retardant PVC

PHYSICAL DATA

	CMP (Plenum)
Nominal Cable Diameter (in)	0.205
Nominal Cable Weight (lbs/1000 ft)	25
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +105

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	Pull-Pac® II	Spool-Pac®	Spool
	CMP (Plenum)	CMP (Plenum)	CMP (Plenum)
Blue	7131800	7131840	7131860
White	7131801	7131841	7131861
Yellow	7131802	7131842	7131862
Gray	7131803	7131843	7131863
Red	7131804	7131844	7131864
Orange	7131805	7131845	7131865
Green	7131806	7131846	7131866
Black	7131807	7131847	7131867
Pink	7131808	7131848	7131868
Purple	7131809	7131849	7131869

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.

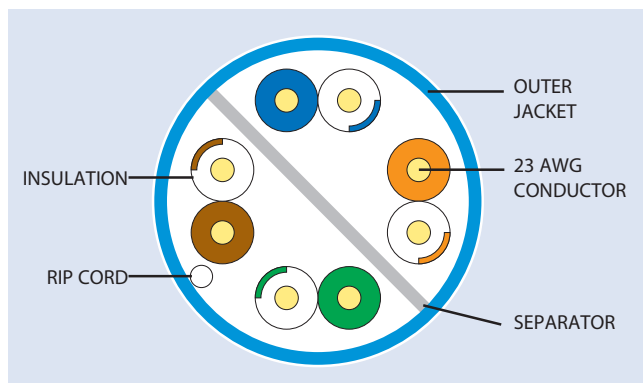
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ELECTRICAL PERFORMANCE

Frequency MHz	PSACR** (min)	ACR** (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	ELTCTL (min)
1	70.3	72.3	2.0	72.3	74.3	64.8	67.8	20.0	40.0	35.0
4	59.3	61.5	3.8	63.3	65.3	52.8	55.7	23.0	40.0	23.0
10	51.3	53.3	6.0	57.3	59.3	44.8	47.8	25.0	40.0	15.0
16	46.7	48.7	7.6	54.2	56.2	40.7	43.7	25.0	38.0	10.9
20	44.3	46.3	8.5	52.8	54.8	38.8	41.7	25.0	37.0	9.0
31.25	39.2	41.2	10.7	49.9	51.9	34.9	37.9	23.6	35.1	—
62.5	29.9	32.0	15.4	45.4	47.4	28.9	31.8	21.5	32.0	—
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1	30.0	—
150	14.9	16.9	24.7	39.7	41.7	21.3	24.3	18.9	28.2	—
200	8.8	10.8	29.0	37.8	39.8	18.8	21.8	18.0	27.0	—
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3	26.0	—
350	—	—	39.8	34.1	36.1	13.9	16.9	16.3	—	—
400	—	—	43.0	33.3	35.3	12.8	15.8	15.9	—	—
500	—	—	48.9	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 for reference only.
 **PSACR & ACR not specified in ANSI/TIA 568.2-D

CROSS-SECTION



ELECTRICAL CHARACTERISTICS

	Max.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalanced Individual Pair %	4.00
Delay Skew ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15