

GenSPEED® Category 6 Cables

2

General Cable offers a complete line-up of Category 6 cables to meet all your networking needs. This “standard, enhanced, premium” strategy allows you to choose a cable that meets your bandwidth needs for each application you deploy. When you need a reliable cable with warranty assurance, choose from the series of GenSPEED® Category 6 Cables.

GenSPEED® 6 is a standard-compliant Category 6 cable that features a unique tape design engineered for consistent electrical performance. Its TRU-Mark® print legend contains footage markings from 1000' to 0', making usage easier to track.

General Cable's **GenSPEED® 6000** has been enhanced to provide the market with a cost-effective, high-bandwidth and high-performance cabling solution for more robust and complex applications at Gigabit speed and full duplex transmissions. The GenSPEED 6000 solution provides a cable system infrastructure with assurance for advanced applications demanding more bandwidth.

Featuring a revolutionary design, **GenSPEED® 6500** Premium provides the industry with one of the best-performing Category 6 cables in its class. GenSPEED 6500 Premium offers high power-sum attenuation-to-crosstalk ratio (PSACR) and low attenuation performance for better signal strength and power.

All GenSPEED Category 6 cables are third-party verified for guaranteed performance and conform to ANSI/TIA/EIA 568 B.2-1 standards. GenSPEED 6 and 6000 Enhanced are offered in a variety of colors and can be shipped in General Cable's easy-to-use Pull-Pac® or Spool-Pac® cartons or on a spool. GenSPEED 6500 Premium is available in a Spool-Pac or on a spool.

Index	Page
GenSPEED® Category 6 Quick Reference Guide	19
GenSPEED® 6500 Premium Category 6 Cable	20-21
GenSPEED® 6000 Enhanced Category 6 Cable	22-23
GenSPEED® 6 Category 6 Cable	24-25
GenSPEED® 6 Category 6 Interlock Armored Cable	26-27
GenSPEED® 6 Category 6 Outside Plant Cable	28-29

GenSPEED® Category 6 Quick Reference Guide

JACKET COLOR	PACKAGE	STANDARD		ENHANCED		PREMIUM	
		Category 6 GenSPEED® 6		Category 6 GenSPEED® 6000 Enhanced		Category 6 GenSPEED® 6500 Premium	
		CMR	CMP	CMR	CMP	CMR	CMP
Blue							
	Pull-Pac®	7133800	7131800	7133900	7131900		
	Spool-Pac®	7133840	7131840	7133940	7131940	7133930	7131930
	Spool	7133860	7131860	7133960	7131960	7133970	7131970
	Bulk*	7133860.2R	7131860.2.5R	7133960.3R	7131960.3R	7133970.2R	7131970.2R
White							
	Pull-Pac®	7133801	7131801	7133901	7131901		
	Spool-Pac®	7133841	7131841	7133941	7131941	7133931	7131931
	Spool	7133861	7131861	7133961	7131961	7133971	7131971
	Bulk*	7133861.2R	7131861.2.5R	7133961.3R	7131961.3R	7133971.2R	7131971.2R
Yellow							
	Pull-Pac®	7133802	7131802	7133902	7131902		
	Spool-Pac®	7133842	7131842	7133942	7131942	7133932	7131932
	Spool	7133862	7131862	7133962	7131962	7133972	7131972
	Bulk*	7133862.2R	7131862.2.5R	7133962.3R	7131962.3R	7133972.2R	7131972.2R
Gray							
	Pull-Pac®	7133803	7131803	7133903	7131903		
	Spool-Pac®	7133843	7131843	7133943	7131943	7133933	7131933
	Spool	7133863	7131863	7133963	7131963	7133973	7131973
	Bulk*	7133863.2R	7131863.2.5R	7133963.3R	7131963.3R	7133973.2R	7131973.2R
Red							
	Pull-Pac®	7133804	7131804	7133904	7131904		
	Spool-Pac®	7133844	7131844	7133944	7131944	7133934	7131934
	Spool	7133864	7131864	7133964	7131964	7133974	7131974
	Bulk*	7133864.2R	7131864.2.5R	7133964.3R	7131964.3R	7133974.2R	7131974.2R
Orange							
	Pull-Pac®	7133805	7131805	7133905	7131905		
	Spool-Pac®	7133845	7131845	7133945	7131945	7133935	7131935
	Spool	7133865	7131865	7133965	7131965	7133975	7131975
	Bulk*	7133865.2R	7131865.2.5R	7133965.3R	7131965.3R	7133975.2R	7131975.2R
Green							
	Pull-Pac®	7133806	7131806	7133906	7131906		
	Spool-Pac®	7133846	7131846	7133946	7131946	7133936	7131936
	Spool	7133866	7131866	7133966	7131966	7133976	7131976
	Bulk*	7133866.2R	7131866.2.5R	7133966.3R	7131966.3R	7133976.2R	7131976.2R
Black							
	Pull-Pac®	7133807	7131807	7133907	7131907		
	Spool-Pac®	7133847	7131847	7133947	7131947	7133937	7131937
	Spool	7133867	7131867	7133967	7131967	7133977	7131977
	Bulk*	7133867.2R	7131867.2.5R	7133967.3R	7131967.3R	7133977.2R	7131977.2R
Pink							
	Pull-Pac®	7133808	7131808	7133908	7131908		
	Spool-Pac®	7133848	7131848	7133948	7131948	7133938	7131938
	Spool	7133868	7131868	7133968	7131968	7133978	7131978
	Bulk*	7133848.2R	7131848.2.5R	7133968.3R	7131968.3R	7133978.2R	7131978.2R
Purple							
	Pull-Pac®	7133809	7131809	7133909	7131909		
	Spool-Pac®	7133859	7131859	7133959	7131959	7133939	7131939
	Spool	7133869	7131869	7133969	7131969	7133979	7131979
	Bulk*	7133869.2R	7131869.2.5R	7133969.3R	7131969.3R	7133979.2R	7131979.2R

Note: Non-stock items may be subject to minimum order quantities.
 * Bulk reels are available in 2000' (2R), 2500' (2.5R), and 3000' (3R) lengths.

GenSPEED® 6500 Premium Category 6 Cable

Features And Benefits

- Designed and engineered with precision balance to offer ultimate headroom
- High-end optimized performance to support the most bandwidth-intense applications
- New and improved separator construction allowing for more pair separation
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- Digital Video
- Broadband and Baseband Analog Video
- Draft IEEE 802.3at for PoE Plus

Standard Compliances

- ANSI/TIA/EIA 568 B.2-1 (Category 6)
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



VERIFIED

RoHS Compliant
Directive 2002/95/EC

TIA/EIA 568B



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

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

Separator

- Cross-web

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/1000ft)	30	32
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	50	50
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard packaging: 1000' Spool-Pac®

Jacket Color	Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133930	7131930	7133970	7131970
White	7133931	7131931	7133971	7131971
Yellow	7133932	7131932	7133972	7131972
Gray	7133933	7131933	7133973	7131973
Red	7133934	7131934	7133974	7131974
Orange	7133935	7131935	7133975	7131975
Green	7133936	7131936	7133976	7131976
Black	7133937	7131937	7133977	7131977
Pink	7133938	7131938	7133978	7131978
Purple	7133939	7131939	7133979	7131979

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.

Data subject to change without notice.

Signal Strength and Power

GenSPEED® 6500 Electrical Performance

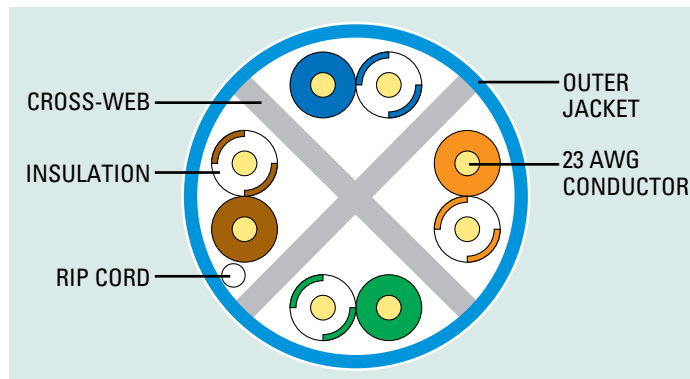
Frequency MHz	PSACR (min)		ACR (min)		Attenuation (max)		PSNEXT (min)		NEXT (min)	
	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed
1	70.3	77.4	72.3	79.4	2.0	1.9	72.3	79.3	74.3	81.3
4	59.3	66.8	61.5	68.8	3.8	3.5	63.3	70.3	65.3	72.3
10	51.3	58.8	53.3	60.8	6.0	5.5	57.3	64.3	59.3	66.3
16	46.7	54.2	48.7	56.2	7.6	7.0	54.2	61.2	56.2	63.2
20	44.3	51.9	46.3	53.9	8.5	7.8	52.8	59.8	54.8	61.8
31.25	39.2	47.0	41.2	49.0	10.7	9.9	49.9	56.9	51.9	58.9
62.5	29.9	38.0	32.0	40.0	15.4	14.3	45.4	52.4	47.4	54.4
100	22.5	30.8	24.5	32.8	19.8	18.5	42.3	49.3	44.3	51.3
200	8.8	17.5	10.8	19.5	29.0	27.2	37.8	44.8	39.8	46.8
250	3.5	12.4	5.5	14.4	32.8	30.9	36.3	43.3	38.3	45.3
350	—	3.5	—	5.5	—	37.6	—	41.1	—	43.1
500	—	—	—	—	—	46.5	—	38.8	—	40.8

Note: Values are expressed in dB per 100m (328 ft.) length. Results beyond 350 MHz for reference only.

Frequency MHz	PSELFEXT (min)		ELFEXT (min)		Return Loss (min)		LCL (min)		ELTCTL (min)	
	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed
1	64.8	70.8	67.8	73.8	20.0	20.0	40.0	40.0	35.0	35.0
4	52.8	58.8	55.7	61.8	23.0	23.0	40.0	40.0	23.0	23.0
10	44.8	50.8	47.8	53.8	25.0	25.0	40.0	40.0	15.0	15.0
16	40.7	46.7	43.7	49.7	25.0	25.0	38.0	38.0	10.9	10.9
20	38.8	44.8	41.7	47.8	25.0	25.0	37.0	37.0	9.0	9.0
31.25	34.9	40.9	37.9	43.9	23.6	25.0	35.1	35.1	5.1	5.1
62.5	28.9	34.9	31.8	37.9	21.5	23.5	32.0	32.0	5.0	5.0
100	24.8	30.8	27.8	33.8	20.1	22.1	30.0	30.0	5.0	5.0
200	18.8	24.8	21.8	27.8	18.0	20.0	27.0	27.0	5.0	5.0
250	16.8	22.8	19.8	25.8	17.3	19.3	26.0	26.0	5.0	5.0
350	—	19.9	—	22.9	—	18.3	—	—	—	—
500	—	16.8	—	19.8	—	17.2	—	—	—	—

Note: Values are expressed in dB per 100m (328 ft.) length. Results beyond 350 MHz for reference only.

GenSPEED® 6500 PREMIUM CATEGORY 6 CROSS-SECTION



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	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-350 MHz 350-500 MHz	Ohms 100 ± 15 100 ± 22 100 ± 32

GenSPEED® 6000 Enhanced Category 6 Cable

Features And Benefits

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- Digital Video
- Broadband and Baseband Analog Video
- Draft IEEE 802.3at for PoE Plus

Standard Compliances

- ANSI/TIA/EIA 568 B.2-1
- TIA 568 C Draft
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



VERIFIED

TIA/EIA 568B

RoHS Compliant
Directive 2002/95/EC

CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

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

Separator

- Cross-web

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)	0.235	0.225
Nominal Cable Weight (lbs/1000ft)	28	31
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II		Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133900	7131900	7133940	7131940	7133960	7131960
White	7133901	7131901	7133941	7131941	7133961	7131961
Yellow	7133902	7131902	7133942	7131942	7133962	7131962
Gray	7133903	7131903	7133943	7131943	7133963	7131963
Red	7133904	7131904	7133944	7131944	7133964	7131964
Orange	7133905	7131905	7133945	7131945	7133965	7131965
Green	7133906	7131906	7133946	7131946	7133966	7131966
Black	7133907	7131907	7133947	7131947	7133967	7131967
Pink	7133908	7131908	7133948	7131948	7133968	7131968
Purple	7133909	7131909	7133959	7131959	7133969	7131969

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.

Data subject to change without notice.

Optimally Balanced Enhanced Performance

GenSPEED® 6000 Electrical Performance

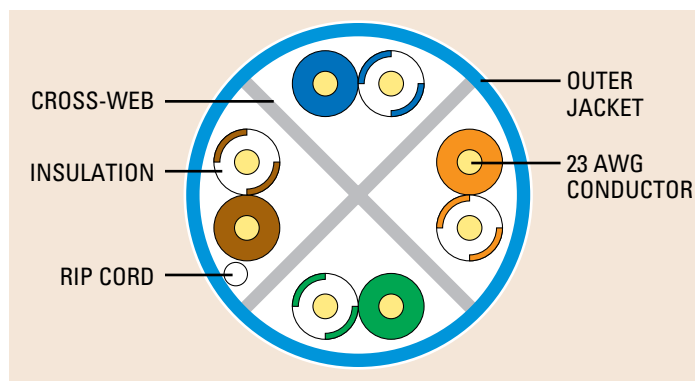
Frequency MHz	PSACR (min)		ACR (min)		Attenuation (max)		PSNEXT (min)		NEXT (min)	
	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed
1	70.3	75.3	72.3	77.3	2.0	2.0	72.3	77.3	74.3	79.3
4	59.3	64.5	61.5	66.5	3.8	3.8	63.3	68.3	65.3	70.3
10	51.3	56.4	53.3	58.4	6.0	5.9	57.3	62.3	59.3	64.3
16	46.7	51.7	48.7	53.8	7.6	7.5	54.2	59.3	56.2	61.3
20	44.3	49.4	46.3	51.4	8.5	8.4	52.8	57.8	54.8	59.8
31.25	39.2	44.3	41.2	46.3	10.7	10.6	49.9	54.9	51.9	56.9
62.5	29.9	35.1	32.0	37.1	15.4	15.3	45.4	50.4	47.4	52.4
100	22.5	27.6	24.5	29.6	19.8	19.7	42.3	47.3	44.3	49.3
150	14.9	20.0	16.9	22.0	24.7	24.7	39.7	44.7	41.7	46.7
200	8.8	13.8	10.8	15.8	29.0	29.0	37.8	42.8	39.8	44.8
250	3.5	8.7	5.5	10.7	32.8	32.6	36.3	41.3	38.3	43.3
350	—	—	—	1.7	—	39.5	—	39.2	—	41.2
500	—	—	—	—	—	48.6	—	36.8	—	38.8

Note: Values are expressed in dB per 100m (328 ft.) length. Results beyond 350 MHz for reference only.

Frequency MHz	PSELFEXT (min)		ELFEXT (min)		Return Loss (min)		LCL (min)		ELTCTL (min)	
	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed	TIA 568 B.2-1	Guaranteed
1	64.8	69.8	67.8	72.8	20.0	20.0	40.0	40.0	35.0	35.0
4	52.8	57.7	55.7	60.7	23.0	23.6	40.0	40.0	23.0	23.0
10	44.8	49.8	47.8	52.8	25.0	26.0	40.0	40.0	15.0	15.0
16	40.7	45.7	43.7	48.7	25.0	26.0	38.0	38.0	10.9	10.9
20	38.8	43.7	41.7	46.7	25.0	26.0	37.0	37.0	9.0	9.0
31.25	34.9	39.9	37.9	42.9	23.6	25.0	35.1	35.1	5.1	5.1
62.5	28.9	33.8	31.8	36.8	21.5	23.5	32.0	32.0	5.0	5.0
100	24.8	29.8	27.8	32.8	20.1	22.5	30.0	30.0	5.0	5.0
150	21.3	26.3	24.3	29.3	18.9	21.6	28.2	28.2	5.0	5.0
200	18.8	23.8	21.8	26.8	18.0	21.0	27.0	27.0	5.0	5.0
250	16.8	21.8	19.8	24.8	17.3	20.5	26.0	26.0	5.0	5.0
350	—	18.9	—	21.9	—	19.8	—	—	—	—
500	—	15.8	—	18.8	—	19.0	—	—	—	—

Note: Values are expressed in dB per 100m (328 ft.) length. Results beyond 350 MHz for reference only.

GenSPEED® 6000 ENHANCED CATEGORY 6 CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.0
Delay Skew (max) ns/100m	CMP: 35 CMR: 38
Nom. Velocity of Propagation % Speed of Light	CMP: 70 CMR: 68
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz 250-500 MHz	Ohms 100 ± 15 100 ± 22 100 ± 32

GenSPEED® 6 Category 6 Cable

Features And Benefits

- Unique tape design engineered for consistent electrical performance
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 1000 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- Digital Video
- Broadband and Baseband Analog Video
- Draft IEEE 802.3at for PoE Plus

Standard Compliances

- ANSI/TIA/EIA 568 B.2-1
- TIA 568 C Draft
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- RoHS Compliant Directive 2002/95/EC
- UL 444



VERIFIED

RoHS Compliant
Directive 2002/95/EC



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

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

Separator

- Tape

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)	0.205	0.200
Nominal Cable Weight (lbs/1000ft)	28	28
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color	Pull-Pac® II		Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133800	7131800	7133840	7131840	7133860	7131860
White	7133801	7131801	7133841	7131841	7133861	7131861
Yellow	7133802	7131802	7133842	7131842	7133862	7131862
Gray	7133803	7131803	7133843	7131843	7133863	7131863
Red	7133804	7131804	7133844	7131844	7133864	7131864
Orange	7133805	7131805	7133845	7131845	7133865	7131865
Green	7133806	7131806	7133846	7131846	7133866	7131866
Black	7133807	7131807	7133847	7131847	7133867	7131867
Pink	7133808	7131808	7133848	7131848	7133868	7131868
Purple	7133809	7131809	7133859	7131859	7133869	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.

Data subject to change without notice.

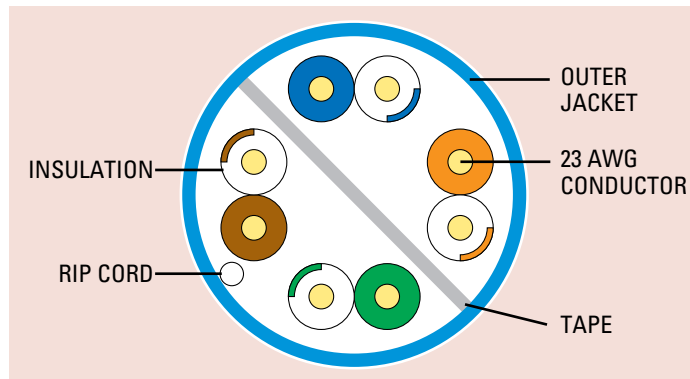
GenSPEED® 6 Electrical Performance

TIA/EIA 568 B.2-1*

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)	LCL (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	5.1
62.5	29.9	32.0	15.4	45.4	47.4	28.9	31.8	21.5	32.0	5.0
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1	30.0	5.0
150	14.9	16.9	24.7	39.7	41.7	21.3	24.3	18.9	28.2	5.0
200	8.8	10.8	29.0	37.8	39.8	18.8	21.8	18.0	27.0	5.0
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3	26.0	5.0
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 100m (328 ft.) length. Results beyond 350 MHz are for reference only.
 *Specs meet TIA/EIA 568 B.2-1 Standard for Cat 6 UTP Cabling.

GenSPEED® 6 CATEGORY 6 CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.0
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 70 CMR: 68
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-350 MHz	Ohms 100 ± 15 100 ± 22

GenSPEED® 6 Category 6 Interlock Armored Cable

Features And Benefits

- Interlock armor provides outstanding mechanical protection
- Flexible and easy to install
- Eliminates the need for conduit, reducing installation time
- Single-pull installation
- Application assurance warranty

Applications

- IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
- ANSI/TIA/EIA 854: 100 BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- Indoor applications only

Standard Compliances

- ANSI/TIA/EIA 568 B.2-1
- ANSI/TIA/EIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class E)
- ICEA S-102-700 (Category 6)
- UL 444



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Polyolefin

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

- Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)
	1 Cable
Nominal Cable Diameter (in)	0.450
Nominal Cable Weight (lbs/1000ft)	67.8
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	25
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +75

PART NUMBERS

Color	Part Number	Spool	
		Unit 1	Reel
Blue	9133300	6R Blue	1000' reel
Blue	9133300.2R	6R Blue	2000' reel
White	9133305	6R White	1000' reel
White	9133305.2R	6R White	2000' reel

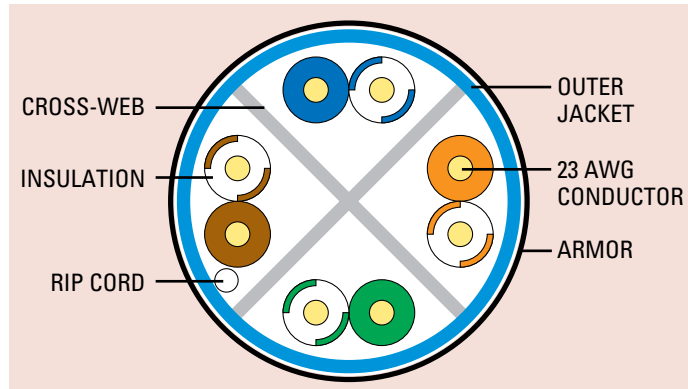
Data subject to change without notice.

ELECTRICAL PERFORMANCE

	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)	LCL (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	5.1
62.5	29.9	32.0	15.4	45.4	47.4	28.9	31.8	21.5	32.0	5.0
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1	30.0	5.0
150	14.9	16.9	24.7	39.7	41.7	21.3	24.3	18.9	28.2	5.0
200	8.8	10.8	29.0	37.8	39.8	18.8	21.8	18.0	27.0	5.0
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3	26.0	5.0
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 100m (328 ft.) length. Results beyond 250 MHz are for reference only.

GenSPEED® 6 INTERLOCK ARMORED CABLE CROSS-SECTION



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMR: 70
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15

GenSPEED® 6 Category 6 Outside Plant Cable

Features And Benefits

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- Gel-filled construction to prevent moisture migration in underground and wet applications
- Wide temperature range for extreme weather environments
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- Data transmission rates up to 2.4 Gb/s
- 1000 BASE-T (Gigabit Ethernet)
- 100/10 BASE-T (IEEE 802.3)
- 52/155 Mbps ATM
- Duct and conduit installations
- Not to be used aerially or direct buried

Standard Compliances

- ANSI/TIA/EIA 568 B.2-1
- TIA 568 C Draft
- ISO 11801 (Category 6)
- ICEA S-102-700 (Category 6)
- MIL-C-24640A Water Penetration Requirement
- RoHS Compliant Directive 2002/95/EC



TIA/EIA 568B



CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Polyolefin

Color Code

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

Separator

- Cross-web

Flooding Compound

- Waterproof gel prevents moisture migration

Jacket

- UV- and Abrasion-Resistant Polyethylene (PE)

PHYSICAL DATA

Nominal Cable Diameter (in)	0.230
Nominal Cable Weight (lbs/1000ft)	25
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (°C)	
Installation:	-30 to +60
Operation:	-45 to +80

PART NUMBER

Standard packaging: 1000' Reel

Jacket Color	Reel
Black	7136100

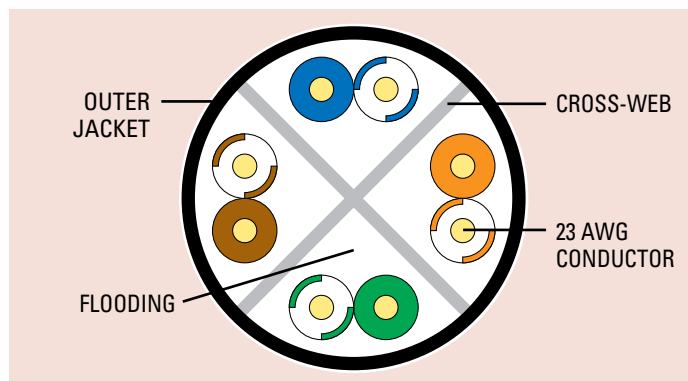
Data subject to change without notice.

Enhanced Outdoor Performance

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
0.772	72.2	74.2	1.8	74.0	76.0	67.0	70.0	—
1	70.3	72.3	2.0	72.3	74.3	64.8	67.8	20.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0
10	51.3	53.3	6.0	57.3	59.3	44.8	47.8	25.0
16	47.0	49.0	7.6	54.3	56.3	40.7	43.7	25.0
20	44.3	46.3	8.5	52.8	54.8	38.8	41.8	25.0
31.25	39.2	41.2	10.7	49.9	51.9	36.8	37.9	23.6
62.5	30.0	32.0	15.4	45.4	47.4	28.9	31.9	21.5
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1
200	9.0	11.0	29.0	37.8	39.8	18.8	21.8	18.0
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3

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

GenSPEED® 6 CATEGORY 6 OUTSIDE PLANT
CROSS-SECTION

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	69
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz	Ohms 100 ± 15 100 ± 22