

GenSPEED® Category 5e Quick Reference Guide

JACKET COLOR	PACKAGE	STANDARD		ENHANCED		PREMIUM	
		Category 5e GenSPEED® 5000 (p. 32)		Category 5e GenSPEED® 5350 Enhanced (p. 30)		Category 5e GenSPEED® 5500 Premium (p. 29)	
		CMR	CMP	CMR	CMP	CMR	CMP
Blue							
	Pull-Pac®	5133299E	5131278E	6133712	6131690	6133299	6131278
	Spool-Pac®	5133374E	5131431E	6133707	6131688	6133403	6131433
	Spool	5133300E	5131282E	6133703	6131686	6133282	6131282
White							
	Pull-Pac®	5133255E	5131361E	6133713	6131691	6133255	6131361
	Spool-Pac®	5133342E	5131450E	6133708	6131689	6133339	6131449
	Spool	5133250E	5131365E	6133704	6131687	6133492	6131618
Yellow							
	Pull-Pac®	5133289E	5131379E	6133715	6131693	6133289	6131546
	Spool-Pac®	5133448E	5131546E	6133717	6131695	6133369	6131379
	Spool		5131648E	6133719	6131697	6133348	6131382
Gray							
	Pull-Pac®	5133200E	5131418E	6133714	6131692	6133200	6131418
	Spool-Pac®	5133329E	5131456E	6133716	6131694	6133331	6131619
	Spool	5133204E	5131475E	6133718	6131696	6133334	
Red							
	Pull-Pac®	5133274E	5131477E			6133274	6131477
	Spool-Pac®	5133427E	5131553E	6133732	6131732	6133635	6131635
	Spool		5131383E	6133782	6131782		
Orange							
	Pull-Pac®	5133383E	5131422E	6133761	6131761	6133746	6131422
	Spool-Pac®			6133833	6131833	6133383	6131576
	Spool	5133667E		6133733	6131733		
Green							
	Pull-Pac®	5133512E	5131547E	6133699	6131699	6133512	6131547
	Spool-Pac®	5133693E	5131575E	6133731	6131731	6133615	6131575
	Spool	5133649E	5131649E	6133700	6131700	6133616	6131757
Black							
	Pull-Pac®	5133696E	5131683E		6131707	6133696	6131683
	Spool-Pac®	6133650E					6131829
	Spool	6133726E	5131689E				
Pink							
	Pull-Pac®	5133290E	5131380E			6133290	6131709
	Spool-Pac®	5133447E	5131478E			6133447	6131478
	Spool					6133341	
Purple							
	Pull-Pac®	5133445E	5131730E		6131698	6133445	6131710
	Spool-Pac®					6133446	
	Spool						

Note: Non-stock items may be subject to minimum order quantities.

* Bulk reels are available in 2000' (2R) and 3000' (3R) lengths.



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 NorCal: 866.227.7699
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GenSPEED® 5500 Premium Category 5e Cable

Enhanced Transmission Throughput

Features and Benefits

- Ensures increased headroom for future applications, lower bit-error rates, and higher signal transmission quality
- Enhanced signal-to-noise ratio, improving bit-error rate
- 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, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

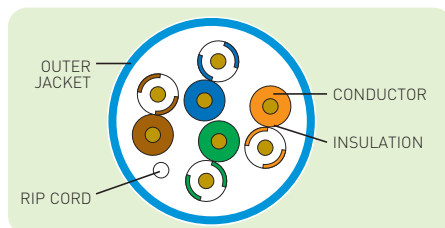
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15

CROSS-SECTION



CONSTRUCTION

Conductors

- 23 AWG CMR solid bare annealed copper
- 24 AWG CMP 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

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)	0.220	0.190
Nominal Cable Weight (lbs/1000 ft)	24	21
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:	-20 to +75	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	70.3	20.0
4	3.9	61.3	23.0
10	6.2	55.3	25.0
16	7.9	52.2	25.0
20	8.9	50.8	25.0
25	10.0	49.3	24.3
31.25	11.2	47.9	23.6
62.5	16.3	43.4	21.5
100	21.0	40.3	20.1
155	26.9	37.4	18.8
200	31.0	35.8	18.0
250	35.3	34.3	17.3
300	39.2	33.1	16.8
350	42.9	32.1	16.3

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

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	6133299	6131278	6133403	6131433	6133282	6131282
White	6133255	6131361	6133339	6131449	6133492	6131618
Yellow	6133289	6131546	6133369	6131379	6133348	6131382
Gray	6133200	6131418	6133331	6131619	6133334	
Red	6133274	6131477	6133635	6131635		
Orange	6133746	6131422	6133383	6131576		
Green	6133512	6131547	6133615	6131575	6133616	6131757
Black	6133696	6131683		6131829		
Pink	6133290	6131709	6133447	6131478	6133341	
Purple	6133445	6131710	6133446			

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® 5350 Enhanced Category 5e Cable

High Performance



CONSTRUCTION

Conductors

- 24 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

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)	0.200	0.190
Nominal Cable Weight (lbs/1000 ft)	20	22
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:	-20 to +75	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	66.3	20.0
4	4.0	57.3	23.0
10	6.4	51.3	25.0
16	8.1	48.2	25.0
20	9.2	46.8	25.0
25	10.3	45.3	24.3
31.25	11.6	43.9	23.6
62.5	16.8	39.4	21.5
100	21.7	36.3	20.1
155	27.7	33.4	18.8
200	32.0	31.8	18.0
250	36.4	30.3	17.3
300	40.5	29.1	16.8
350	44.3	28.1	16.3

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.

*PSACR & ACR not specified in ANSI/TIA 568.2-D

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	6133712	6131690	6133707	6131688	6133703	6131686
White	6133713	6131691	6133708	6131689	6133704	6131687
Yellow	6133715	6131693	6133717	6131695	6133719	6131697
Gray	6133714	6131692	6133716	6131694	6133718	6131696
Red			6133732	6131732	6133782	6131782
Orange	6133761	6131761	6133833	6131833	6133733	6131733
Green		6131699		6131731		6131700
Black		6131707				
Pink						
Purple						

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.

Features and Benefits

- For applications that require optimal Cat 5e performance with flexibility for the future
- 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, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

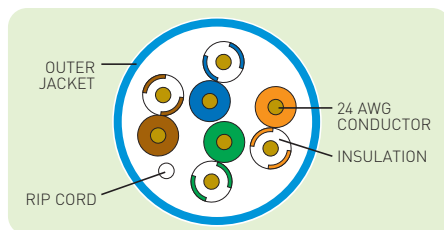
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15

CROSS-SECTION



GenSPEED® 5350 with 17 FREE® Enhanced Category 5e Cable

High Performance

Features and Benefits

- No halogens
- Less toxic
- More environmentally friendly
- Increased flexibility for easy installation
- Engineered to provide stable and continuous 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, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

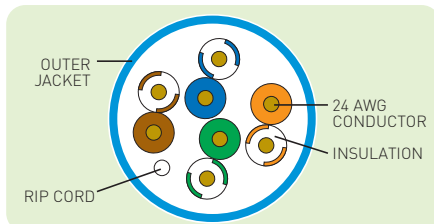
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)
- IEC 60754-1
- IEC 60754-2
- IEC 61034-2

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15

CROSS-SECTION



CONSTRUCTION

Conductors

- 24 AWG solid bare annealed copper

Insulation

- 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

Jacket

- Non-Plenum: Zero-Halogen Polyolefin

PHYSICAL DATA

	CMR (Non-Plenum)
Nominal Cable Diameter (in)	0.200
Nominal Cable Weight (lbs/1000 ft)	22
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	25
Temperature Rating (°C)	
Installation:	-10 to +60
Operation:	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	66.3	20.0
4	4.0	57.3	23.0
10	6.4	51.3	25.0
16	8.1	48.2	25.0
20	9.2	46.8	25.0
25	10.3	45.3	24.3
31.25	11.6	43.9	23.6
62.5	16.8	39.4	21.5
100	21.7	36.3	20.1
155	27.7	33.4	18.8
200	32.0	31.8	18.0
250	36.4	30.3	17.3
300	40.5	29.1	16.8
350	44.3	28.1	16.3

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.

*PSACR & ACR not specified in ANSI/TIA 568.2-D

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II with environmentally friendly packaging.

Jacket Color	Pull-Pac® II
	CMR (Non-Plenum)
Blue	6133712-17F
White	6133713-17F
Gray	6133714-17F

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® 5000 Category 5e Cable

Standards-Compliant Extended Frequency



CONSTRUCTION

Conductors

- 24 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer/

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

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

PHYSICAL DATA	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.195	0.180
Nominal Cable Weight (lbs/1000 ft)	19	21
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:	-20 to +75	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	65.3	20.0
4	4.1	56.3	23.0
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1
155	28.1	32.4	18.8
200	32.4	30.8	18.0
250	36.9	29.3	—
300	41.0	28.1	—
350	44.9	27.1	—

Note: Values are expressed in dB per 100 m [328 ft.] length @ 20°C. Values above 200 MHz are for information only.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

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	5133299E	5131278E	5133374E	5131431E	5133300E	5131282E
White	5133255E	5131361E	5133342E	5131450E	5133250E	5131365E
Yellow	5133289E	5131379E	5133448E	5131546E		5131648E
Gray	5133200E	5131418E	5133329E	5131456E	5133204E	5131475E
Red	5133274E	5131477E	5133427E	5131553E		5131383E
Orange	5133383E	5131422E			5133667E	
Green	5133512E	5131547E	5133693E	5131575E	5133649E	5131649E
Black	5133696E	5131683E	5133650E		5133726E	5131689E
Pink	5133290E	5131380E	5133447E	5131478E		
Purple	5133445E	5131730E				

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.



Features and Benefits

- Engineered to provide stable and continuous performance
- Performance guaranteed to 200 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, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

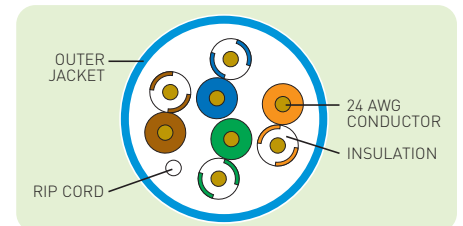
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m [328 ft] @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.00
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-200 MHz	Ohms 100 ± 15

CROSS-SECTION



GenSPEED® 5000 with 17 FREE® Category 5e Cable Standards-Compliant

Features and Benefits

- No halogens
- Less toxic
- More environmentally friendly
- Increased flexibility for easy installation
- Engineered to provide stable and continuous performance
- Performance guaranteed to 200 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, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

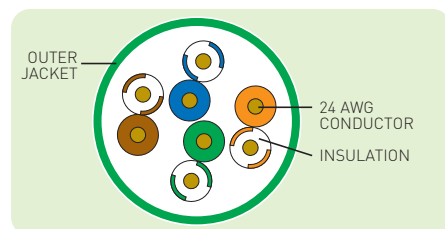
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)
- IEC 60754-1
- IEC 60754-2
- IEC 61034-2

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20 °C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.00
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-200 MHz	Ohms 100 ± 15

CROSS-SECTION



CONSTRUCTION

Conductors

- 24 AWG solid bare annealed copper

Insulation

- 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

Jacket

- Non-Plenum: Zero-Halogen Polyolefin

PHYSICAL DATA

	CMR (Non-Plenum)
Nominal Cable Diameter (in)	0.200
Nominal Cable Weight (lbs/1000 ft)	22
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	25
Temperature Rating (°C)	
Installation:	-10 to +60
Operation:	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	65.3	20.0
4	4.1	56.3	23.0
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1
155	28.1	32.4	18.8
200	32.4	30.8	18.0
250	36.9	29.3	—
300	41.0	28.1	—
350	44.9	27.1	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20 °C. Values above 200 MHz are for information only.

Spec meets ANSI/TIA 568.2-D standard for Cat 5e UTP cabling.

*PSACR & ACR not specified in ANSI/TIA 568.2-D

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II with environmentally friendly packaging. Spool-Pac® and Spool by special order.

Jacket Color	Pull-Pac® II	Spool-Pac®	Spool
	CMR (Non-Plenum)	CMR (Non-Plenum)	CMR (Non-Plenum)
Blue	5133299E-17F	5133374E-17F	5133300E-17F
White	5133255E-17F	5133342E-17F	5133250E-17F
Yellow	5133289E-17F	5133448E-17F	
Gray	5133200E-17F	5133329E-17F	5133204E-17F
Red	5133274E-17F	5133427E-17F	
Orange	5133383E-17F		5133667E-17F
Green	5133512E-17F	5133693E-17F	5133649E-17F
Black	5133696E-17F		
Purple	5133445E-17F		

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® 5000 Category 5e F/UTP (ScTP) Cable

Standards-Compliant



CONSTRUCTION

Conductors

- 24 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

Core Tape

- Polyester

Drain Wire

- 26 AWG stranded (7/34) solid tinned copper

Shield

- Polyester-backed aluminum foil (aluminum side in)

Jacket

- Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.250	0.225
Nominal Cable Weight (lbs/1000 ft)	36	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:	-20 to +75	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	65.3	20.0
4	4.1	56.3	23.0
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1
155	28.1	32.4	—
200	32.4	30.8	—
250	36.9	29.3	—
300	41.0	28.1	—
350	44.9	27.1	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Values above 100 MHz are for information only.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	2133496E	2131611E
White	2133774E	2131778E
Yellow	2133777E	2131777E
Gray	2133495E	2131673E
Red	2133778E	2131774E
Orange	2133776E	2131776E
Green	2133775E	2131775E
Black	2133779E	2131779E

Data subject to change without notice.

Features and Benefits

- Foil shield reduces electromagnetic interference (EMI) for optimal performance
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

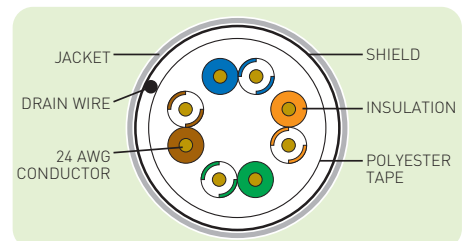
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.00
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15

CROSS-SECTION



GenSPEED® 5000 Category 5e Interlock Armored Cable

Standards-Compliant

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

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video
- Indoor applications only

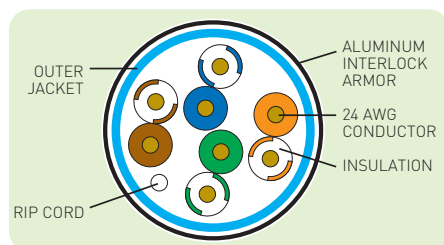
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)

ELECTRICAL CHARACTERISTICS

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

CROSS-SECTION



CONSTRUCTION

Conductors

- 24 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

Armor

- Aluminum interlock armor

PHYSICAL DATA

	CMR (Non-Plenum)	
	1 Cable	2 Cables
Nominal Cable Diameter (in)	0.450	0.620
Nominal Cable Weight (lbs/1000 ft)	58.5	96.0
Minimum Bend Radius (in)	5.40	7.44
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)	0 to +60	
Installation:	-20 to +75	
Operation:		

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	65.3	20.0
4	4.1	56.3	23.0
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20 °C.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

PART NUMBERS

Color	Reel			
	Part Number	Unit 1	Unit 2	Reel
Blue	8133300	5000R Blue		1000' reel
Blue	8133300.2R	5000R Blue		2000' reel
Blue/Blue	8133301	5000R Blue	5000R Blue	1000' reel
Blue/Blue	8133301.2R	5000R Blue	5000R Blue	2000' reel
Blue/White	8133307	5000R Blue	5000R White	1000' reel
Blue/White	8133307.2R	5000R Blue	5000R White	2000' reel
White	8133305	5000R White		1000' reel
White	8133305.2R	5000R White		2000' reel
White/White	8133306	5000R White	5000R White	1000' reel
White/White	8133306.2R	5000R White	5000R White	2000' reel

Data subject to change without notice.

GenSPEED® 5000 Category 5e Outside Plant Cable

Standards-Compliant



CONSTRUCTION

Conductors

- 24 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

Optional Armor

- Aluminum applied helically (inner jacket is used with this construction)
- Armor diameter 12 mm

Flooding Compound

- Waterproof gel

Jacket

- UV- and Abrasion-Resistant Polyethylene

PHYSICAL DATA

	No Armor	Aluminum Armor
Nominal Cable Diameter (in)	0.230	0.340
Nominal Cable Weight (lbs/1000 ft)	25	50
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)		
Installation:	-30 to +60	-30 to +60
Operation:	-45 to +80	-45 to +80

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	65.3	20.0
4	4.1	56.3	23.0
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1
155	28.1	32.4	—
200	32.4	30.8	—
250	36.9	29.3	—
300	41.0	28.1	—
350	44.9	27.1	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Values above 100 MHz are for information only.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

PART NUMBERS

Standard packaging: 1000' Reel

Jacket Color	Reel	Armor
Black	5136100	None
Black	5136101	Aluminum

Features and Benefits

- Protects against environmental elements that can cause electrical performance failures
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Prevents moisture migration

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video
- Armored: aerial, duct and buried installations
- Non-armored design is recommended for duct installation

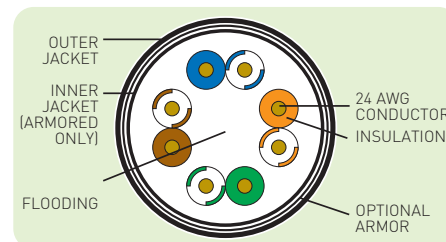
Standard Compliances

- ANSI/TIA 568.2-D
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)
- Telcordia (Bellcore) Specification GR-421-CORE Water Penetration Requirements

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.00
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	69
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15

CROSS-SECTION



Data subject to change without notice.



GenSPEED® 5000 Category 5e Residential CMX Outdoor-CMR Cable

Standards-Compliant

Features and Benefits

- 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 traditional indoor CMR installations
- Sunlight-resistant
- Sequential footage markings
- Wax box on 1000' PPCs for increased durability on the job site
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

Standard Compliances

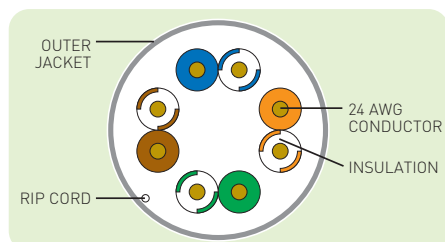
- ANSI/TIA 568.2-D
- NEC/CEC Type CMX OUTDOOR-CMR
- UL 444 Sunlight-Resistant
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-100-685
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)
- Telcordia GR-3164
- Telcordia GR-3164 Severe Cold Impact

ELECTRICAL CHARACTERISTICS

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

Note: CMX outdoor rating allows the cable to be exposed for short distances from the Network Interface Device on the outside of the house to the point where the cable enters the house. This type of cable is not to be buried, direct buried or aerially lashed.

CROSS-SECTION



CONSTRUCTION

Conductors

- 24 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

Jacket

- Flame-Retardant PVC

Rip Cord

- Applied longitudinally under jacket

PHYSICAL DATA

	CMR (Non-Plenum)
Nominal Cable Diameter (in)	0.210
Nominal Cable Weight (lbs/1000 ft)	26
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	25
Temperature Rating (°C)	
Installation:	-10 to +60
Operation:	-40 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	65.3	20.0
4	4.1	56.3	23.0
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1
155	28.1	32.4	—
200	32.4	30.8	—
250	36.9	29.3	—
300	41.0	28.1	—
350	44.9	27.1	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Values above 100 MHz are for information only.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

PART NUMBERS

Standard packaging: Pull-Pac® II

Jacket Color	600' Pull-Pac® II	1000' Pull-Pac® II
	CMR (Non-Plenum)	CMR (Non-Plenum)
Blue		2137160E
White		2137147E
Gray	2137114E	2137146E
Ivory	2137113E	2137143E
Beige		2137144E

Note: For installations using staple guns, the 4-pair construction requires the use of T-25 size staples.

Data subject to change without notice.



GenSPEED® 5000 Category 5e Backbone 25 Pair Cable

Standards-Compliant



CONSTRUCTION

Conductors

- 25 pairs of 24 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Color Code

- See Color Code Chart on page 95, except no bandmarking; only solid colors

Rip Cord

- Applied longitudinally under jacket

Jacket

- Non-Plenum: Flame-retardant PVC
- Plenum: Low-smoke, flame-retardant PVC

Separator

- Non-Plenum: N/A
- Plenum: Core filler

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.500	0.500
Nominal Cable Weight (lbs/1000 ft)	125	160
Minimum Bend Radius (in)	4.0	4.0
Maximum Pulling Force (lbs)	50	50
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
0.772	1.8	67.0	—
1	2.0	65.3	20.0
4	4.1	56.3	23.0
8	5.8	51.8	24.5
10	6.5	50.3	25.0
16	8.2	47.2	25.0
20	9.3	45.8	25.0
25	10.4	44.3	24.3
31.25	11.7	42.9	23.6
62.5	17.0	38.4	21.5
100	22.0	35.3	20.1

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.

PART NUMBERS

Standard packaging: 1000' Reel

Jacket Color	Reel	Reel
	CMR (Non-Plenum)	CMP (Plenum)
 Blue	2133694E	
 White	2133781E	2131550E
 Gray	2133269E	2131752E

Features and Benefits

- Connects all systems of a multi-level distributed system to an intermediate system
- Sequential footage markings

Applications

- IEEE 802.3; 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- CDDI, Token Ring, ATM
- Broadband and Baseband Analog Video

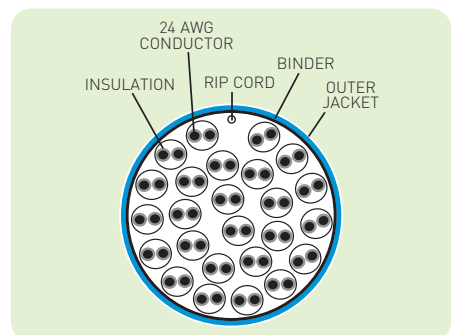
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-90-661
- ISO/IEC 11801 Ed. 2.0 (Class D)

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	5.00
Delay Skew (max) ns/100 m	45
Propagation Delay (max) ns @ 100 MHz	CMP: 518 CMR: 538
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 68
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15

CROSS-SECTION



Data subject to change without notice.

