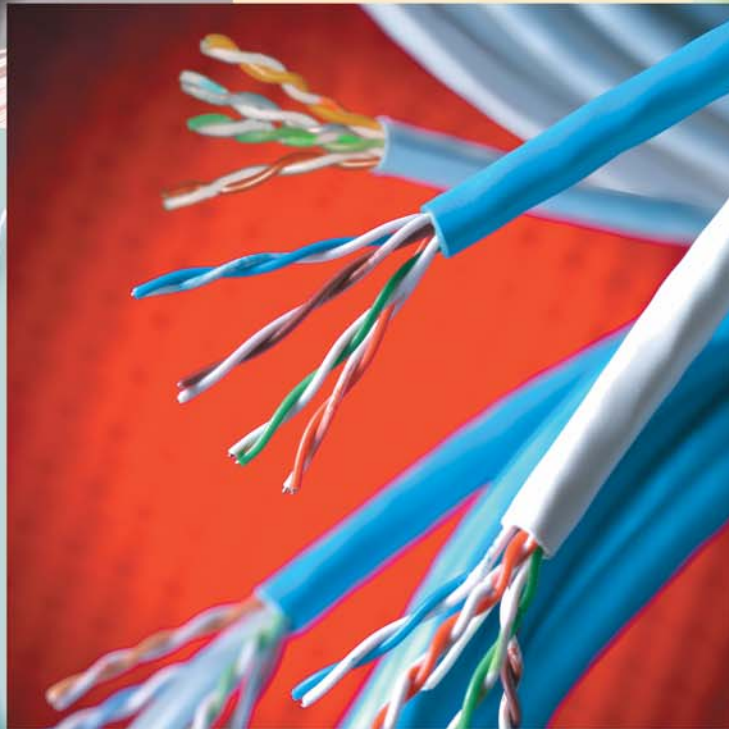
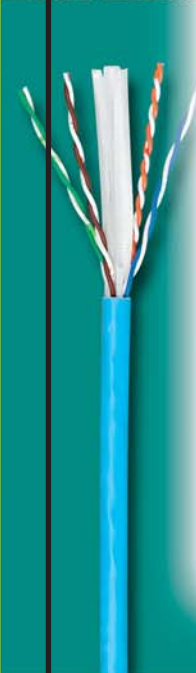
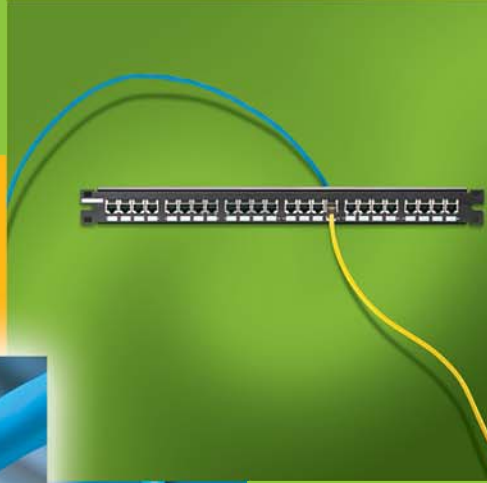


**Alarm & Security
Solutions Guides
Inside**

Gen*SPEED*[®]



Datacom

This catalog contains in-depth information on the most comprehensive line of copper Datacom products available today for voice and data communications.

In a rapidly changing industry with ever-growing demands, General Cable continues to stay ahead of the curve with engineered products that guarantee future performance. Choose from the best cable in its class—Gen*SPEED*[®] Enhanced Cables. This catalog has devoted Sections 1 and 2 to the premier line of category cables, providing all of the critical information you would need to make a well-informed decision regarding your present and future network cabling.

The product and technical sections have been developed with an easy-to-use “spec-on-a-page” format. It features the latest information on Datacom products, from applications and construction to detailed technical and specification data. There’s also a user-friendly cable finder chart and a numerical part number index.

Our products are readily available through our network of authorized stocking distributors and distribution centers.

We are dedicated to customer service and satisfaction, so call our team of professionally trained sales personnel to meet your application needs.



All information in this catalog is presented solely as a guide to product selection and is believed to be reliable. All printing errors are subject to correction in subsequent releases of this catalog. Although General Cable has taken precautions to ensure the accuracy of the product specifications at the time of publication, the specifications of all products contained herein are subject to change without notice.

GENERAL CABLE, ANACONDA BRAND, BICC BRAND, CAROL BRAND, FLEXGUARD, GENSPEED, NEXTGEN BRAND, PULL-PAC, SPOOL-PAC and TRU-MARK are registered trademarks of General Cable Technologies Corporation.

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Datacom

General Cable is committed to meeting customer requirements through continuous quality improvements. As a significant part of our commitment to quality, General Cable's manufacturing facilities are certified to the ISO 9001:2000 quality standard. Our telecommunications cable manufacturing facility has received TL 9000 quality standards registration as a supplement to the ISO program. This quality system is based on the ISO 9001 program with added telecommunications-specific performance metrics. We strive to provide value optimization through innovation and quality solutions.

- Our in-house testing capabilities are extensive, with strict adherence to our product specifications as well as industry standards.
- Cables are safety listed and verified.
- Third-party testing labs like ETL are utilized to quantify and confirm our quality and provide final qualification data that sets the foundation for our extended product warranty.

General Cable products have stood the test of time with proven reliability and performance.

General Cable Standard Product Warranty Voice/Data Communications



Standard Warranty

One-year limited warranty direct from General Cable. Warranty administered by General Cable.

Extended Warranty

25-year limited warranty direct from General Cable. Registration is required and warranty administered by General Cable.

Warranty Text

General Cable warrants to the original purchaser that the products will conform to its standard specifications and will be free from defects in material and workmanship from the date the product is shipped.

What Is Covered

Voice and Data communications products, including Category 3 cable and higher.

Exclusive Remedies

Replace/repair defective parts during warranty period.

Appliance Assurance

Any application designed to operate over the specific Category cable per TIA/EIA Standards.

Terms and Conditions

- General Cable warrants that the Products will conform to its standard specifications and will be free from defects in material and workmanship for a period of one year from the date the Product is shipped from its factory.
- GENERAL CABLE'S SOLE RESPONSIBILITY UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE, AT ITS OPTION AND EXPENSE, ANY LENGTH OF PRODUCT FOUND TO BE DEFECTIVE DURING EITHER INSTALLATION OR NORMAL OR PROPER USE. THIS WARRANTY DOES NOT APPLY TO NORMAL WEAR AND TEAR OR DAMAGE CAUSED BY NEGLIGENCE, LACK OF MAINTENANCE, ACCIDENT, ABNORMAL OPERATION OR IMPROPER INSTALLATION OR SERVICE.
- General Cable must be given immediate written notice of any defect and the opportunity to inspect the failed Product. All covered repairs or replacements shall be shipped to the destination point specified in the original order. The defective Product shall, at General Cable's option, be either scrapped or returned to General Cable at its expense and as per its shipping instructions.
- GENERAL CABLE MAKES NO OTHER WARRANTY ON ITS PRODUCTS, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. IN NO EVENT SHALL GENERAL CABLE BE LIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, WHETHER ARISING IN CONTRACT, TORT OR OTHERWISE.

General Cable must be given immediate written notice of any defect and the opportunity to inspect the failed product.

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Now one industry leader focuses its worldwide resources on delivering maximum value to customers. It's the cost-effective advantage of a single resource, a single company that provides the broadest product range, the highest level of commitment to customer and technical support, the most cost-effective manufacturing and

distribution, and the most responsive customer-first service. In today's highly competitive worldwide markets, General Cable provides the single-source solution with benefits that go straight to your bottom line. Ask your representative about other General Cable products.

The Power of ONE[®]



Energy Cables

Underground High-Voltage and Extra-High-Voltage Cables

General Cable's complete line of Silec[®] insulated high- and extra-high-voltage underground energy cables, from 63kV up to 500kV, and our state-of-the-art accessories—such as pre-molded joints and terminals—enable us to provide turnkey design and engineering services for the global, systems-engineered, electric utility market.

Bare Overhead High-Voltage Transmission and Distribution Cables

Our BICC[®] Brand cables satisfy the varied and specialized demands of the electric utility marketplace. Our TransPowr[®] bare aluminum overhead conductors are available in standard ACSR, specialized T-2 designs and high-temperature ACSS/TW designs. Our new ACCC/TW conductors feature an innovative composite core construction which possesses high temperature and increased strength characteristics.

Low- and Medium-Voltage Distribution Cables

General Cable's extensive line of BICC[®] Brand PowrServ[®] and EmPowr[®] copper and aluminum cables serve the total distribution needs of electric utilities, rural electric co-ops and the public power market for both traditional and renewable energy resources.

Industrial & Specialty Cables

Cord and Cordset Products

General Cable's Carol[®] Brand is the most recognized name in flexible cords for temporary power. Our extensive line includes portable cord, cordsets, portable power cable and premium-grade cable for commercial and industrial applications.

Electronic Cables

Our Carol[®] Brand products fulfill the complete wire and cable requirements of the fast-changing electronics, sound and security marketplaces. We offer hookup wire; communications cable; computer, coaxial and microphone cables; and special designs for security systems, fire alarms, and audio, video and digital broadcasts.

Industrial Cables

General Cable's industrial instrumentation, power and control cables serve an extensive range of markets, including power generation, refining and petrochemical, natural gas production, steel, pulp and paper, and factory automation.

Specialty Cables

General Cable manufactures a broad range of specialty cables that meet the exacting specifications for original equipment manufacturers (OEMs), military, transit, offshore and marine shipboard, nuclear, and mining applications. General Cable's engineered Brand Rex and Anaconda[®] Brand wire and cable solutions provide great lifecycle performance and reliability—meeting customer applications requirements today, while setting tomorrow's standards.

Specialty Wire Harnesses

We supply application-specific and custom-designed cable, harnesses and assemblies for a wide variety of OEM applications, including business machines, material handling equipment, factory automation, medical equipment and the automotive aftermarket. General Cable is a global leader in the manufacture of automotive wire and cable—from ignition wire sets and single leads to bulk ignition wire, primary wire and battery starter cable.

Communications Cables

Data Communications Cables

Our GenSPEED[®] Brand products are on the job wherever enhanced performance is critical—from 10 Gigabit Ethernet, token ring and broadband applications to patch panels, communications closets and plenum applications. We offer one of the most comprehensive lines of enhanced high-speed Category products, including PanGen[™] structured cabling system solutions.

Fiber Optic Cables

We provide a full menu of NextGen[®] Brand fiber optic cables for data communications and voice and video networks. Our products range from tight buffer and armored products for military applications to loose tube and hybrid cables for communications networks. We also offer advanced Blolite[®] blown fiber systems for Local Area Networks and campus applications.

Telecommunications Cables

Our broad range of industry-standard General Cable outside plant wire and cable products ensures reliable, cost-effective performance. We provide air core, filled core and specialty wire products for aerial, buried and duct applications.

GenSPEED® Enhanced Cables

For cable-plant upgrades or new installations, companies are focusing on performance and increased bandwidth potential to take them forward 15 or 20 years. Don't get boxed in by an inferior cable that may not meet tomorrow's demand for faster data rates. Choose the best-performing cable in its class—GenSPEED Enhanced Category 6 and 7 cables.

Fully capable of supporting 10Gb/s transmission, **GenSPEED 7000** Category 7 exceeds ISO/IEC requirements for Category 7 cables. This fully shielded, twisted-pair cable is also fully downward compatible with standard Category 6 and Category 5e shielded jacks.

GenSPEED 6600 Enhanced Category 6 cable offers the highest power-sum attenuation-to-crosstalk ratio (PSCAR) and the lowest attenuation performance on the market for a non-shielded cable, providing better signal strength and power. Engineered to perform with a positive PSACR beyond 400MHz and headroom well above today's Category 6 standards, GenSPEED 6600 offers substantial increased-bandwidth potential.

Optimally balanced for performance beyond Gigabit Ethernet, **GenSPEED 6500** Category 6 cable offers enhanced electrical performance and positive PSCAR beyond 350 MHz. GenSPEED 6500 is available in UTP and shielded constructions.

A high-performing cabling solution, **GenSPEED 6000** is the first Category 6 cable that simplifies electronics for cost-effective network investment. Now available in an outside plant construction, GenSPEED 6000 Outside Plant is the ideal solution for connecting locations outside of a main building, such as portable classrooms or satellite facilities.

All GenSPEED cables are safety listed according to NEC and CEC requirements, and most are verified for electrical performance. This independent third-party testing further confirms the quality and performance of all GenSpeed Enhanced Cables.

GenSPEED's installer-friendly design means that customers won't lose valuable time and money. GenSPEED cables feature unique product-specific packaging for easy identification and TRU-Mark® footage marking, so installers know exactly how much is left in the box and can match the right cable length with the right drop length needed.

Through leadership and participation on industry committees, technical expertise and a focus on cultivating strong relationships, General Cable provides customers with first-class technical support and a competitive advantage. General Cable's comprehensive warranty program means that all GenSPEED cables conform to standard specifications and are free from defects in material and workmanship.

For more than a century and a half, General Cable has stayed ahead of the industry's changing needs with products that meet future performance requirements and provide the best value in cabling solutions. GenSPEED Enhanced Cables are ready for the applications of tomorrow.

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GenSPEED® Quick Reference Part Number Chart

JACKET COLOR	PACKAGE	Category 6 GenSPEED® 6000		Category 6+ GenSPEED® 6500		Category 6A GenSPEED® 6500 Shielded		Enhanced Category 6 GenSPEED® 6600		Category 7 GenSPEED® 7000	
		CMR	CMP	CMR	CMP	CMR	CMP	CMR	CMP	CMR	CMP
Blue											
	Pull-Pac®	7133764	7131760								
	Spool-Pac®	7133707	7131688	7133374	7131431			7133721	7131721		
	Spool	7133703	7131686	7133300	7131282	7133786	7131786			7133782*	7131782*
	Bulk	7133703.2.5R	7131686.2.5R	7133300.2R	7131282.2R						
White											
	Pull-Pac®	7133765	7131761								
	Spool-Pac®	7133708	7131689	7133342	7131450			7133722	7131722		
	Spool	7133704	7131687	7133250	7131365	7133787*	7131787			7133783*	7131783*
	Bulk	7133704.2.5R	7131687.2.5R	7133250.2R	7131365.2R						
Yellow											
	Pull-Pac®	7133766	7131762								
	Spool-Pac®	7133717	7131695	7133289	7131379			7133723	7131723		
	Spool	7133719*	7131697*	7133614*	7131648*	7133788*	7131788*			7133784*	7131784*
	Bulk	7133719.2.5R	7131697.2.5R	7133614.2R	7131648.2R						
Gray											
	Pull-Pac®	7133767	7131763*								
	Spool-Pac®	7133716	7131694*	7133329	7131456			7133724	7131724		
	Spool	7133718*		7133204	7131475*	7133789	7131789			7133780	7131780
	Bulk										
Red											
	Pull-Pac®	7133768*	7131764*								
	Spool-Pac®	7133736*	7131743	7133427*	7131553			7133725*	7131725*		
	Spool			7133615*	7131615	7133790*	7131790				
	Bulk										
Orange											
	Pull-Pac®	7133769	7131765								
	Spool-Pac®	7133737	7131719	7133734	7131576			7133726*	7131726*		
	Spool					7133791*	7131791*				
	Bulk										
Green											
	Pull-Pac®	7133770*	7131766								
	Spool-Pac®	7133711	7131705	7133693	7131575			7133727*	7131727*		
	Spool	7133712	7131711*	7133694	7131649*	7133792*	7131792				
	Bulk	7133712.2.5R	7131711.2.5R	7133694.2R	7131649.2R						
Black											
	Pull-Pac®	7133771*	7131767*								
	Spool-Pac®	7133738*	7131720	7133735*	7131742*			7133728*	7131728*		
	Spool	7133888*	7131775*								
	Bulk										
Pink											
	Pull-Pac®	7133772*	7131768*								
	Spool-Pac®	7133739*	7131741*	7133447*	7131478*			7133729*	7131729*		
	Spool				7131479*						
	Bulk										
Purple											
	Pull-Pac®	7133773*	7131769*								
	Spool-Pac®	7133740*	7131744	7133679*	7131650*			7133730*	7131730*		
	Spool			7133369*	7131690*						
	Bulk										

* These items are non-stock and may be subject to minimum order quantities.

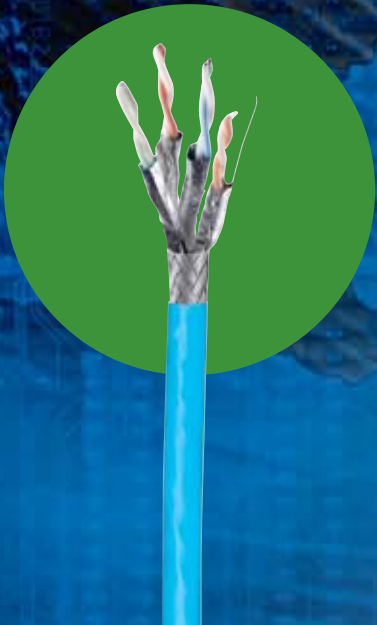
CATEGORY 7 SHIELDED CABLE

EXTREMELY HIGH BANDWIDTH GenSPEED® 7000

GenSPEED® 7000

STANDARD COMPLIANCES

- ISO/IEC 11801 Ed. 2.0 (Class F)
- NEMA WC66 (Category 7)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC & UL 444 Type CMP (NFPA 262) for Plenum



APPLICATIONS

- IEEE 802.3an: 10G BASE-T (10 Gigabit Ethernet) supporting 100 meters
- 2.4/1.2 Gb/s ATM
- Digital Video
- Broadband and Baseband Analog Video

CONSTRUCTION

Conductors

- 22 AWG solid bare annealed copper

Insulation

- Non-Plenum: Foamed Polyolefin
- Plenum: Foamed FEP

Separator

- None

Color Code

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

Shields

- Each pair is individually shielded with an aluminum foil
- Overall tinned copper braid shield
- 24 AWG drain wire

Jacket

- Low-Smoke, Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.362	0.325
Nominal Cable Weight (lbs/1000ft)	70	64
Minimum Bend Radius (in)	3.5	3.3
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C) Installation: Operation:	0 to +60 -20 to +60	0 to +60 -10 to +60

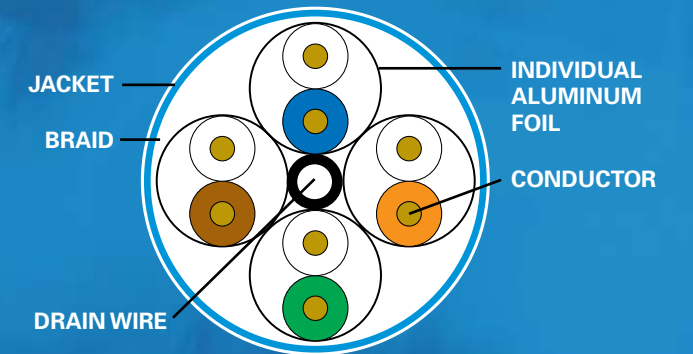
ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	6.56
DC Resistance Unbalance (max) Individual Pair %	2.0
Delay Skew (max) ns/100m	25
Nom. Velocity of Propagation % Speed of Light	CMP: 78 CMR: 75
Characteristic Impedance Frequency (f): 1-10 MHz 10-600 MHz	Ohms 100 ± 15 100 ± 10
Input Impedance Frequency (f): 1-100 MHz 100-200 MHz 200-600 MHz	Ohms 100 ± 1 100 ± 22 100 ± 25

FEATURES AND BENEFITS

- Extremely high bandwidth of 600 MHz
- Positive PSACR beyond 600 MHz for optimum available bandwidth
- Individual and overall shielding for superior EMI protection
- Highest signal-to-noise ratio, reducing network errors and related downtime
- Every master reel is tested for electrical performance compliance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Meets ISO/IEC 11801 and exceeds TIA-568B standards
- Application assurance warranty

GENSPEED 7000 CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	73.0	76.0	2.0	75.0	78.0	75.0	78.0	20.0
4	71.3	74.3	3.7	75.0	78.0	75.0	78.0	23.0
10	69.1	72.1	5.9	75.0	78.0	71.0	74.0	25.0
16	67.6	70.6	7.4	75.0	78.0	66.9	69.9	25.0
20	66.7	69.7	8.3	75.0	78.0	65.0	68.0	25.0
31.25	64.6	67.6	10.4	75.0	78.0	61.1	64.1	23.6
62.5	57.6	60.6	14.9	72.5	75.5	55.1	58.1	21.5
100	50.4	53.4	19.0	69.4	72.4	51.0	54.0	20.1
200	37.4	40.4	27.5	64.9	67.9	45.0	48.0	18.0
250	32.4	35.4	31.0	63.4	66.4	43.0	46.0	17.3
350	24.0	27.0	37.2	61.2	64.2	40.1	43.1	16.3
400	20.4	23.4	40.0	60.4	63.4	39.0	42.0	15.9
550	10.6	13.6	47.7	58.3	61.3	36.2	39.2	14.9
600	7.6	10.6	50.1	57.7	60.7	35.4	38.4	14.7

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

PART NUMBERS

Standard packaging: 1000' Reels

Jacket Color	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133782*	7131782*
White	7133783*	7131783*
Yellow	7133784*	7131784*
Gray	7133785*	7131785*

* These items are non-stock and may be subject to minimum order quantities.

Data subject to change without notice.

ENHANCED CATEGORY 6 CABLE

SIGNAL STRENGTH AND POWER GenSPEED® 6600

GenSPEED® 6600

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
- UL 444



APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- 4/16 Mb/s Token Ring
- Digital Video
- Broadband and Baseband Analog Video

CONSTRUCTION

Conductors

- 23 AWG bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: FEP

Separator

- Cross-web

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)	0.260	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: Operation:	0 to +60 -10 to +60	0 to +60 -10 to +60

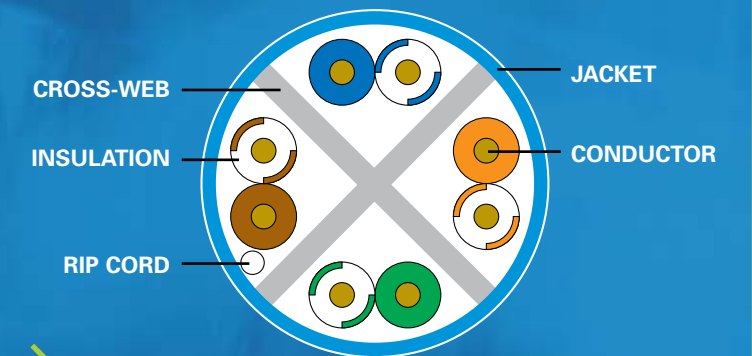
ELECTRICAL CHARACTERISTICS

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	Ohms
Frequency (f):	1-10 MHz 100 ± 15 10-500 MHz 100 ± 10
Input Impedance	Ohms
Frequency (f):	1-100 MHz 100 ± 15 100-350 MHz 100 ± 22 350-500 MHz 100 ± 32

FEATURES AND BENEFITS

- New and improved separator construction allowing for more pair separation
- Guaranteed performance up to 500 MHz
- Positive PSACR beyond 400 MHz for increased available bandwidth
- Low Category 6 attenuation performance
- Improved signal-to-noise ratio, reducing network errors and related downtime
- Every master reel is tested for electrical performance compliance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Unique product-specific packaging for ease of identification
- Third-party verified for guaranteed performance
- Application assurance warranty

GENSPEED 6600 CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)	LCL (min)	ELTCTL (min)
1	77.4	79.4	1.9	79.3	81.3	70.8	73.8	20.0	40.0	35.0
4	66.8	68.8	3.5	70.3	72.3	58.8	61.8	23.0	40.0	23.0
10	58.8	60.8	5.5	64.3	66.3	50.8	53.8	25.0	40.0	15.0
16	54.2	56.2	7.0	61.2	63.2	46.7	49.7	25.0	38.0	10.9
20	51.9	53.9	7.8	59.8	61.8	44.8	47.8	25.0	37.0	9.0
31.25	47.0	49.0	9.9	56.9	58.9	40.9	43.9	25.0	35.1	5.1
62.5	38.0	40.0	14.3	52.4	54.4	34.9	37.9	23.5	32.0	—
100	30.8	32.8	18.5	49.3	51.3	30.8	33.8	22.1	30.0	—
200	17.5	19.5	27.2	44.8	46.8	24.8	27.8	20.0	27.0	—
250	12.4	14.4	30.9	43.3	45.3	22.8	25.8	19.3	26.0	—
350	3.5	5.5	37.6	41.1	43.1	19.9	22.9	18.3	—	—
400	0.1	1.6	40.7	40.3	42.3	18.8	21.8	17.9	—	—
500	—	—	46.5	38.8	40.8	16.8	19.8	17.2	—	—

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

PART NUMBERS

Standard packaging: 1000' Spool-Pac®

Jacket Color	Spool-Pac®	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133721	7131721
White	7133722	7131722
Yellow	7133723	7131723
Gray	7133724	7131724
Red	7133725*	7131725*
Orange	7133726*	7131726*
Green	7133727*	7131727*
Black	7133728*	7131728*
Pink	7133729*	7131729*
Purple	7133730*	7131730*

* These items are non-stock and may be subject to minimum order quantities.

Data subject to change without notice.

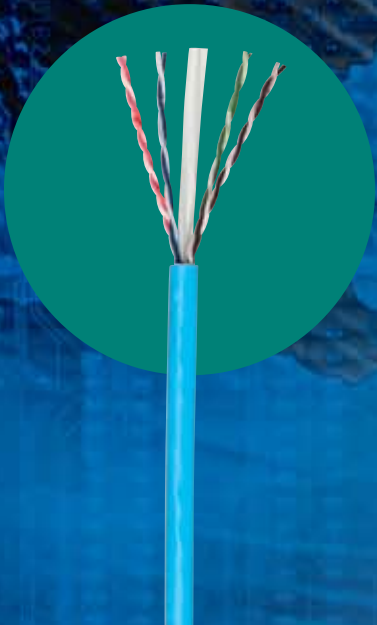
CATEGORY 6+ CABLE

GenSPEED® 6500

OPTIMALLY BALANCED PERFORMANCE GenSPEED® 6500

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
- UL 444



APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- 4/16 Mb/s Token Ring
- Digital Video
- Broadband and Baseband Analog Video

CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: 3 Pairs FEP/1 Pair Flame-Retardant Polyolefin

Separator

- Cross-web

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, Flexguard® Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.248	0.235
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:	-10 to +60	-10 to +60

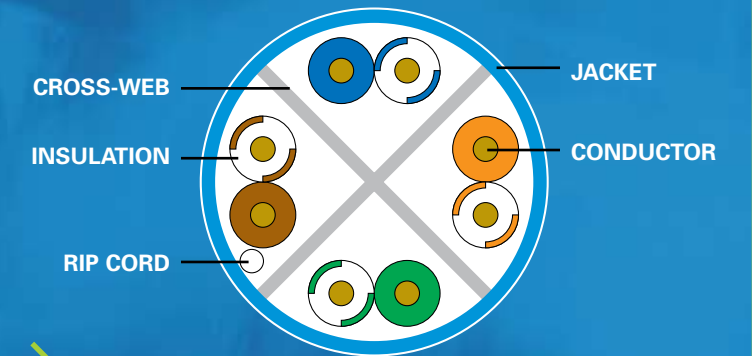
ELECTRICAL CHARACTERISTICS

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	Ohms
Frequency (f): 1-500 MHz	100 ± 15
Input Impedance	Ohms
Frequency (f): 1-100 MHz	100 ± 15
100-250 MHz	100 ± 22
250-350 MHz	100 ± 32

FEATURES AND BENEFITS

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- Guaranteed performance up to 500 MHz
- Positive PSACR beyond 350 MHz for increased available bandwidth
- Enhanced signal-to-noise ratio, improving bit error rate
- Every master reel is tested for electrical performance compliance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Unique product-specific packaging for ease of identification
- Third-party verified for guaranteed performance
- Application assurance warranty

GENSPEED 6500 CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)	LCL (min)	ELTCTL (min)
1	74.3	76.3	2.0	76.3	78.3	68.8	71.8	20.0	40.0	35.0
4	63.6	65.6	3.7	67.3	69.3	56.8	59.8	23.0	40.0	23.0
10	55.5	57.5	5.8	61.3	63.3	48.8	51.8	25.0	40.0	15.0
16	50.8	52.8	7.4	58.2	60.2	44.7	47.7	25.0	38.0	10.9
20	48.5	50.5	8.3	56.8	58.8	42.8	45.8	25.0	37.0	9.0
31.25	43.4	45.4	10.5	53.9	55.9	38.9	41.9	23.6	35.1	5.1
62.5	34.3	36.3	15.1	49.4	51.4	32.9	35.9	21.5	32.0	—
100	26.9	28.9	19.4	46.3	48.3	28.8	31.8	20.1	30.0	—
200	13.4	15.4	28.4	41.8	43.8	22.8	25.8	18.0	27.0	—
250	8.1	10.1	32.2	40.3	42.3	20.8	23.8	17.3	26.0	—
300	3.4	5.4	35.7	39.1	41.1	19.3	22.3	16.8	—	—
350	0.1	1.1	39.0	38.1	40.1	17.9	20.9	16.3	—	—
400	—	—	42.1	37.3	39.3	16.8	19.8	15.9	—	—
500	—	—	48.0	35.8	37.8	14.8	17.8	15.2	—	—

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

PART NUMBERS

Standard packaging: 1000' Spool-Pac®

Jacket Color	Spool-Pac®		Spool	
	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133374	7131431	7133300	7131282
White	7133342	7131450	7133250	7131365
Yellow	7133289	7131379	7133614*	7131648*
Gray	7133329	7131456	7133204	7131475*
Red	7133427*	7131553	7133615*	7131615
Orange	7133734	7131576		
Green	7133693	7131575	7133694	7131649*
Black	7133735*	7131742*		
Pink	7133447*	7131714*		7131479*
Purple	7133679*	7131650*	7133369*	7131690*

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.

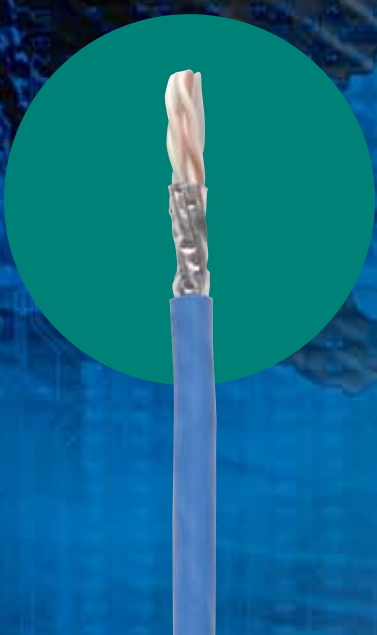
* These items are non-stock and may be subject to minimum order quantities.

Data subject to change without notice.

CATEGORY 6A SHIELDED CABLE

A 10 GIG SOLUTION FOR PEACE OF MIND GenSPEED® 6500

GenSPEED® 6500



STANDARD COMPLIANCES

- ANSI/TIA/EIA-568-B.2-10 Draft (Category 6A)
- 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
- UL 444



APPLICATIONS

- IEEE 802.3an: 10G BASE-T (10 Gigabit Ethernet) supporting 100 meters
- 1000BASE-TX (Gigabit Ethernet)
- 2.4/1.2 Gb/s ATM
- 4/16 Mb/s Token Ring
- Digital Video
- Broadband and Baseband Analog Video

CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Foamed Polyolefin
- Plenum: Foamed FEP
- O.D. = 0.055"

Color Code

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

Shield

- Each pair is individually shielded with an aluminum foil
- 24 AWG drain wire

Jacket

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

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.310	0.290
Nominal Cable Weight (lbs/1000ft)	50	45
Minimum Bend Radius (in)	3.10	2.90
Maximum Pulling Force (lbs)	32	32
Temperature Rating (°C) Installation: Operation:	0 to +60 -10 to +60	0 to +60 -10 to +60

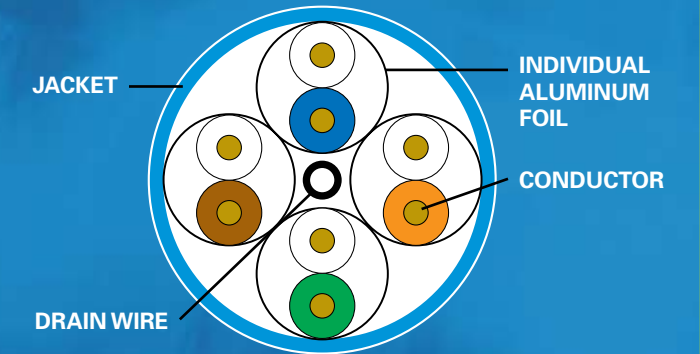
ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100m	35
Nom. Velocity of Propagation % Speed of Light	CMP: 78 CMR: 75
Characteristic Impedance Frequency (f): 1-600 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-200 MHz 200-600 MHz	Ohms 100 ± 15 100 ± 22 100 ± 32

FEATURES AND BENEFITS

- Ideal solution for 10 Gigabit Ethernet
- Shielded design allowing for maximum pair separation, increasing key electrical performance parameters
- Individual pair shielding for EMI protection
- Typical positive PSACR beyond 500 MHz for increased available bandwidth
- Every master reel is tested for electrical performance compliance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Application assurance warranty

GENSPEED 6500 SHIELDED CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)	LCL/TCL (min)	PSANEXT (min)	PSAACRF (min)
1	70.2	72.2	2.1	72.3	74.3	70.8	73.8	20.0	50.0	77.0	77.0
4	68.5	70.5	3.8	72.3	74.3	58.8	61.8	23.0	44.0	77.0	76.2
10	66.3	68.3	5.9	72.3	74.3	50.8	53.8	25.0	40.0	77.0	68.2
16	63.6	66.6	7.5	71.2	74.2	46.7	49.7	25.0	38.0	77.0	64.1
20	61.3	64.3	8.4	69.8	72.8	44.8	47.8	25.0	37.0	77.0	62.2
31.25	56.1	59.1	10.5	66.9	69.9	40.9	43.9	23.6	35.1	77.0	58.3
62.5	46.9	49.9	15.0	62.4	65.4	34.9	37.9	21.5	32.0	75.6	52.3
100	39.4	42.4	19.1	59.3	62.3	30.8	33.8	20.1	30.0	72.5	48.2
200	25.6	28.6	27.6	54.8	57.8	24.8	27.8	18.0	27.0	68.0	42.2
250	20.3	23.3	31.1	53.3	56.3	22.8	25.8	17.3	26.0	66.5	40.2
300	15.5	18.5	34.3	52.1	55.1	21.3	24.3	16.8	25.2	65.3	38.7
350	11.2	14.2	37.2	51.1	54.1	19.9	22.9	16.3	24.6	64.3	37.3
400	7.1	10.1	40.1	50.3	53.3	18.8	21.8	15.9	24.0	63.5	36.2
500	—	2.7	45.3	48.8	51.8	16.8	19.8	15.2	23.0	62.0	34.2
600	—	—	50.1	47.6	50.6	15.2	18.2	14.7	22.2	60.8	32.6

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

PART NUMBERS

Standard packaging: 1000' Reel

Jacket Color	Spool	
	CMR (Non-Plenum)	CMP (Plenum)
Blue	7133786	7131786
White	7133787*	7131787
Yellow	7133788*	7131788*
Gray	7133789*	7131789
Red	7133790*	7131790
Orange	7133791*	7131791*
Green	7133792*	7131792

* These items are non-stock and may be subject to minimum order quantities.

Data subject to change without notice.

CATEGORY 6 CABLE

COMPLIANT PLUS SOLUTION GenSPEED® 6000

GenSPEED® 6000

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
- UL 444



APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mp/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (PoE)
- 4/16 Mb/s Token Ring
- Digital Video
- Broadband and Baseband Analog Video

CONSTRUCTION

Conductors

- 23 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: 3 Pairs FEP/1 Pair Flame-Retardant Polyolefin

Separator

- Tape

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, Flexguard® Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.220	0.215
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: Operation:	0 to +60 -10 to +60	0 to +60 -10 to +60

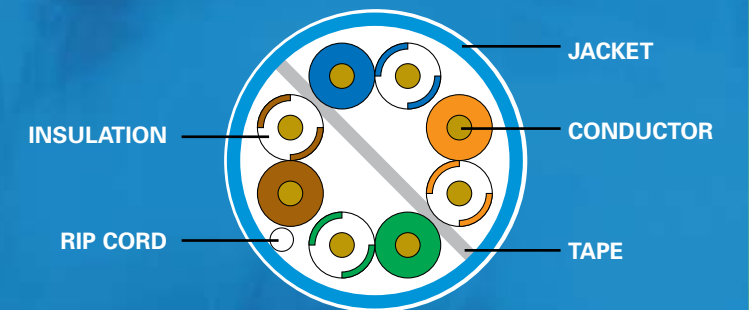
ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100m	35
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

FEATURES AND BENEFITS

- Unique tape design engineered for smaller overall diameter and ease of installation
- Positive PSACR up to 300 MHz for future bandwidth requirements
- Every master reel is tested for electrical performance compliance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Unique product-specific packaging for ease of identification
- Third-party verified for guaranteed performance
- Application assurance warranty

GENSPEED 6000 CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)	LCL (min)	ELTCTL (min)
1	71.3	73.3	2.0	73.3	75.3	65.8	68.8	20.0	50.0	35.0
4	60.5	62.5	3.8	64.3	66.3	53.8	56.8	23.0	44.0	23.0
10	52.4	54.4	5.9	58.3	60.3	45.8	48.8	25.0	40.0	15.0
16	47.7	49.7	7.5	55.3	57.3	41.7	44.7	25.0	38.0	10.9
20	45.4	47.4	8.4	53.8	55.8	39.8	42.8	25.0	37.0	9.0
31.25	40.3	42.3	10.6	50.9	52.9	37.8	38.9	23.6	35.1	5.1
62.5	31.1	33.1	15.3	46.4	48.4	29.9	32.9	21.5	32.0	—
100	23.6	25.6	19.7	43.3	45.3	25.8	28.8	20.1	30.0	—
200	9.9	11.9	28.8	38.8	40.8	19.8	22.8	18.0	27.0	—
250	4.6	6.6	32.7	37.3	39.3	17.8	20.8	17.3	26.0	—
350	—	2.0	39.6	35.2	37.2	—	—	—	—	—
400	—	—	42.7	34.3	36.3	—	—	—	—	—
500	—	—	48.7	32.8	34.8	—	—	—	—	—

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

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	7133764	7131760	7133707	7131688	7133703	7131686
White	7133765	7131761	7133708	7131689	7133704	7131687
Yellow	7133766	7131762	7133717	7131695	7133719*	7131697*
Gray	7133767	7131763*	7133716	7131694*	7133718*	
Red	7133768*	7131764*	7133736*	7131743		
Orange	7133769	7131765	7133737	7131719		
Green	7133770*	7131766	7133711	7131705	7131712	7131711*
Black	7133771*	7131767*	7133738*	7131720	7133888*	7131775*
Pink	7133772*	7131768*	7133739*	7131741*		
Purple	7133773*	7131769*	7133740*	7131744		

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.

* These items are non-stock and may be subject to minimum order quantities.

Data subject to change without notice.

CATEGORY 6 CABLE OUTSIDE PLANT

ENHANCED OUTDOOR PERFORMANCE

GenSPEED® 6000

GenSPEED® 6000



STANDARD COMPLIANCES

- ANSI/TIA/EIA 568B.2-1 (Category 6)
- ISO 11801 (Category 6)
- ICEA S-102-700 (Category 6)
- MIL-C-24640A Water Penetration Requirement



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
- Aerial, Duct and Buried Installations

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

PRODUCT NUMBERS

Product Number	Jacket Color	Armor
7136100	Black	None

CONSTRUCTION

Conductors

- 4 pairs of 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

- Black UV- and Abrasion-Resistant Polyethylene (PE)

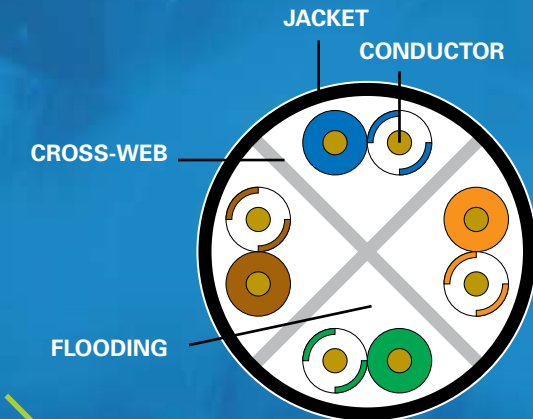
Packaging

- 1000' Reel

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'

GENSPEED 6000 OUTSIDE PLANT CABLE CROSS-SECTION



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

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 (328ft) length.

Data subject to change without notice.

GenSPEED® Category 5e Cables

The most popular cable specification for many applications—GenSPEED Category 5e cables—is available in a wide variety of performance levels and constructions. With many options to pick from, you can select the GenSPEED Category 5e product that meets your specific performance requirements. All GenSPEED Category 5e cables are ANSI/TIA/EIA 568-B.2 compliant. You choose the headroom your installation requires.

GenSPEED 5500 Premium Category 5e cable ensures increased headroom, lower bit-error rates and higher signal transmission quality. **GenSPEED 5350** exceeds Category 5e transmission requirements, offering electrical performance for 1000 BASE-T and beyond Ethernet applications.

With steady, continuous performance, **GenSPEED 5000** meets Category 5e requirements for present and future network requirements. Offered in a variety of constructions, there is a GenSPEED 5000 cable for nearly every application—including backbone, horizontal, outside, outside plant and residential cabling.

All GenSPEED cables are safety listed to the NEC and CEC requirements, and most are verified for electrical performance. This independent third-party testing further confirms the quality and performance of all GenSPEED Enhanced Cables.

GenSPEED's installer-friendly design means that customers won't lose valuable time and money. GenSPEED cables feature unique product-specific packaging for easy identification and TRU-Mark® footage marking so installers don't waste time pulling cable that's too short.

Through leadership and participation on industry committees, technical expertise and a focus on cultivating strong relationships, General Cable provides customers with first-class technical support and a competitive advantage. General Cable's comprehensive warranty program means that all GenSPEED cables conform to standard specifications and are free from defects in material and workmanship.

For more than a century and a half, General Cable has stayed ahead of the industry's changing needs with products that meet future performance requirements and provide the best value in cabling solutions.

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GenSPEED® 5000 Residential CMX Outdoor-CMR Category 5e Cable	32

GenSPEED® Quick Reference Part Number Chart

JACKET COLOR	PACKAGE	Category 5e GenSPEED® 5000		Category 5e GenSPEED® 5000 Screened		Category 5e+ GenSPEED® 5350		Premium Category 5e GenSPEED® 5500	
		CMR	CMP	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	2133496E	2131611E	6133703*	6131686	6133282*	6131282
	Bulk	5133300E.2.5R	5131282E.3R			6133703.2.5R	6131686.3R	6133282.2.5R	6131282.3R
White									
	Pull-Pac®	5133255E	5131361E			6133713	6131691	6133255	6131361
	Spool-Pac®	5133342E	5131450E			6133708	6131689*	6133339	6131449
	Spool	5133250E	5131365E	2133774E	2131778E	6133704*	6131687	6133492	6131618
	Bulk	5133250E.2.5R	5131365E.3R			6133704.2.5R	6131687.3R	6133492.2.5R	6131618.3R
Yellow									
	Pull-Pac®	5133289E	5131379E			6133715	6131693	6133289	6131546
	Spool-Pac®	5133448E	5131546E			6133717	6131695	6133369	6131379
	Spool	5133251E*	5131648E*	2133777E	2131777E	6133719*	6131697*	6133348*	6131382
	Bulk	5133251E.2.5R	5131648E.3R			6133719.2.5R	6131697.3R	6133348.2.5R	6131382.3R
Gray									
	Pull-Pac®	5133200E	5131418E			6133714	6131692	6133200	6131418
	Spool-Pac®	5133329E	5131456E			6133716	6131694*	6133331	6131619
	Spool	5133204E	5131475E*	2133495E	2131673E	6133718	6131696	6133334*	
	Bulk								
Red									
	Pull-Pac®	5133274E	5131477E					6133274*	6131477
	Spool-Pac®	5133427E*	5131553E				6131732*		6131635*
	Spool		5131383E*	2133778E	2131774E				
	Bulk								
Orange									
	Pull-Pac®	5133383E	5131422E			6133761*		6133746	6131422
	Spool-Pac®							6133383*	6131576*
	Spool	5133667E*		2133776E	2131776E		6131733*		
	Bulk								
Green									
	Pull-Pac®	5133512E	5131547E			6133699*	6131699*	6133512	6131547
	Spool-Pac®	5133693E*	5131575E				6131731*	6133615*	6131575
	Spool	5133649E	5131649E	2133775E	2131775E		6131700	6133616*	6131757
	Bulk	5133649E.2.5R	5131649E.3R				6131700.3R	6133616.2.5R	6131757.3R
Black									
	Pull-Pac®	5133696E*	5131683E*				6131707*	6133696*	6131683*
	Spool-Pac®								
	Spool			2133779E	2131779E				
	Bulk								
Pink									
	Pull-Pac®	5133290E	5131380E					6133290	6131709*
	Spool-Pac®	5133447E*	5131478E*					6133447*	6131478*
	Spool							6133341	
	Bulk								
Purple									
	Pull-Pac®	5133445E	5131730E*					6133445	6131710*
	Spool-Pac®							6133446*	
	Spool								
	Bulk								

* These items are non-stock and may be subject to minimum order quantities.

PREMIUM CATEGORY 5e CABLE

ENHANCED TRANSMISSION THROUGHPUT GenSPEED® 5500

GenSPEED® 5500

STANDARD COMPLIANCES

- ANSI/TIA/EIA-568-B.2 (Category 5e)
- ANSI/TIA/EIA-862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444



APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband Analog Video

CONSTRUCTION

Conductors

- 24 AWG bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: 3 Pairs FEP/1 Pair Flame-Retardant Polyolefin

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, Flexguard® Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.210	0.190
Nominal Cable Weight (lbs/1000ft)	22	20
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:	-10 to +60	-10 to +60

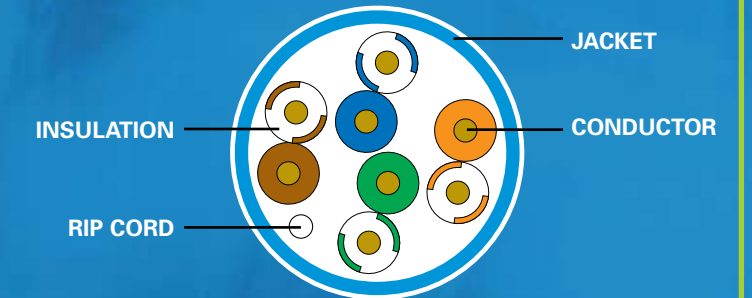
ELECTRICAL CHARACTERISTICS

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): 1-350 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz 250-350 MHz	Ohms 100 ± 15 100 ± 22 100 ± 32

FEATURES AND BENEFITS

- Guaranteed performance up to 350 MHz
- Positive PSACR beyond 200 MHz for increased available bandwidth
- Enhanced signal-to-noise ratio, improving bit error rate
- Every master reel is tested for electrical performance compliance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Unique product-specific packaging for ease of identification
- Third-party verified for guaranteed performance
- Application assurance warranty

GENSPEED 5500 CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	66.3	68.3	2.0	68.3	70.3	62.0	65.0	20.0
4	55.4	57.4	3.9	59.3	61.3	50.0	53.0	23.0
10	47.1	49.1	6.2	53.3	55.3	42.0	45.0	25.0
16	42.3	44.3	7.9	50.2	52.2	37.9	40.9	25.0
20	39.9	41.9	8.9	48.8	50.8	36.0	39.0	25.0
25	37.4	39.4	10.0	47.3	49.3	34.0	37.0	24.3
31.25	34.7	36.7	11.2	45.9	47.9	32.1	35.1	23.6
62.5	25.1	27.1	16.3	41.4	43.4	26.1	29.1	21.5
100	17.3	19.3	21.0	38.3	40.3	22.0	25.0	20.1
155	8.6	10.6	26.9	35.4	37.4	18.2	21.2	18.8
200	2.8	4.8	31.0	33.8	35.8	16.0	19.0	18.0
250	—	—	35.3	32.3	34.3	14.0	17.0	17.3
300	—	—	39.2	31.1	33.1	12.5	15.5	16.8
350	—	—	42.9	30.1	32.1	11.1	14.1	16.3

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

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		6131282
White	6133255	6131361	6133339	6131449	6133492	6131618
Yellow	6133289	6131546	6133369	6131379	6133348*	6131382
Gray	6133200	6131418	6133331	6131619	6133334*	
Red	6133274*	6131477		6131635*		
Orange	6133746	6131422	6133383*	6131576*		
Green	6133512	6131547	6133615*	6131575	6133616*	6131757
Black	6133696*	6131683*				
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.

* These items are non-stock and may be subject to minimum order quantities.

Data subject to change without notice.

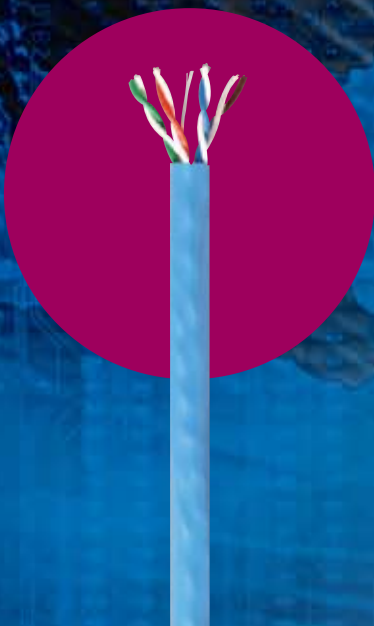
CATEGORY 5e+ CABLE

HIGH PERFORMANCE GenSPEED® 5350

GenSPEED® 5350

STANDARD COMPLIANCES

- ANSI/TIA/EIA-568-B.2 (Category 5e)
- ANSI/TIA/EIA-862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444



APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband Analog Video

CONSTRUCTION

Conductors

- 24 AWG bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: 3 Pairs FEP/1 Pair Flame-Retardant Polyolefin

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, Flexguard® Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.200	0.180
Nominal Cable Weight (lbs/1000ft)	21	19
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C) Installation: Operation:	0 to +60 -10 to +60	0 to +60 -10 to +60

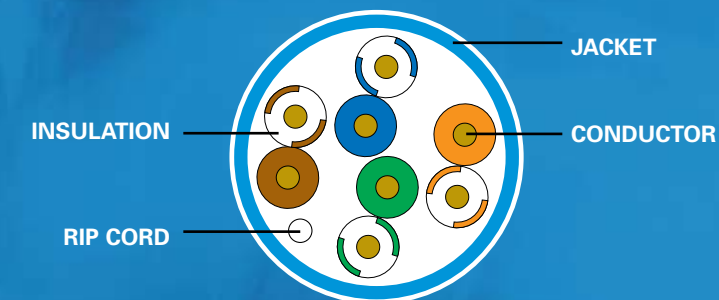
ELECTRICAL CHARACTERISTICS

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): 1-350 MHz	Ohms 100 ± 15
Input Impedance Frequency (f): 1-100 MHz 100-250 MHz 250-350 MHz	Ohms 100 ± 15 100 ± 22 100 ± 32

FEATURES AND BENEFITS

- Positive PSACR beyond 175 MHz for increased available bandwidth
- Guaranteed performance up to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Unique product-specific packaging for ease of identification
- Third-party verified for guaranteed performance
- Application assurance warranty

GENSPEED 5350 CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	63.3	64.3	2.0	65.3	66.3	61.0	64.0	25.0
4	52.3	53.3	4.0	56.3	57.3	49.0	52.0	25.0
10	43.9	44.9	6.4	50.3	51.3	41.0	44.0	25.0
16	39.1	40.1	8.1	47.2	48.2	36.9	39.9	25.0
20	36.6	37.6	9.2	45.8	46.8	35.0	38.0	25.0
25	34.0	35.0	10.3	44.3	45.3	33.0	36.0	24.3
31.25	31.3	32.3	11.6	42.9	43.9	31.1	34.1	23.6
62.5	21.6	22.6	16.8	38.4	39.4	25.1	28.1	21.5
100	13.6	14.6	21.7	35.3	36.3	21.0	24.0	20.1
155	4.7	5.7	27.7	32.4	33.4	17.2	20.2	—
200	—	—	32.0	30.8	31.8	15.0	18.0	—
250	—	—	36.4	29.3	30.3	13.0	16.0	—
300	—	—	40.5	28.1	29.1	11.5	14.5	—
350	—	—	44.3	27.1	28.1	10.1	13.1	—

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

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				6131732*		
Orange	6133761*					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.

* These items are non-stock and may be subject to minimum order quantities.

Data subject to change without notice.

CATEGORY 5e CABLE

STANDARDS COMPLIANT GenSPEED® 5000

GenSPEED® 5000

STANDARD COMPLIANCES

- ANSI/TIA/EIA-568-B.2 (Category 5e)
- ANSI/TIA/EIA-862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class D)
- ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444



APPLICATIONS

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T
- 52/155 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring



CONSTRUCTION

Conductors

- 24 AWG solid bare annealed copper

Insulation

- Non-Plenum: Polyolefin
- Plenum: 3 Pairs FEP/1 Pair Flame-Retardant Polyolefin

Color Code

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

Rip Cord

- Applied longitudinally under jacket

Jacket

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

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.200	0.180
Nominal Cable Weight (lbs/1000ft)	21	19
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C) Installation: Operation:	0 to +60 -10 to +60	0 to +60 -10 to +60

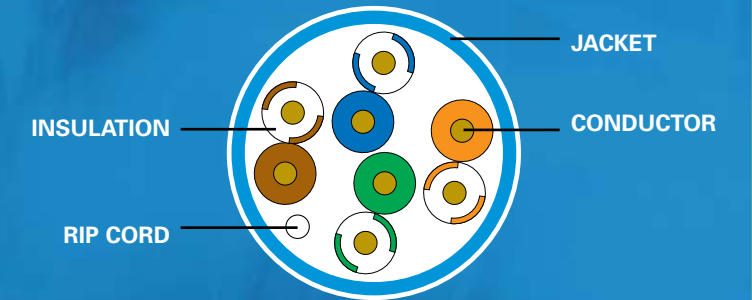
ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Mutual Capacitance (nom) PF/ft @ 1KHz	14
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f):	Ohms 1-100 MHz 100 ± 15

FEATURES AND BENEFITS

- Positive PSACR beyond 155 MHz for future bandwidth requirements
- Characterized and tested to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Unique product-specific packaging for ease of identification
- Third-party verified for guaranteed performance
- Application assurance warranty

GENSPEED 5000 CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.8	51.8	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.8	37.8	25.0
25	30.9	33.9	10.4	41.3	44.3	32.8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.9	27.9	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	17.0	20.0	—
200	—	—	32.4	27.8	30.8	14.8	17.8	—
250	—	—	36.9	26.3	29.3	12.8	15.8	—
300	—	—	41.0	25.1	28.1	11.3	14.3	—
350	—	—	44.9	24.1	27.1	9.9	12.9	—

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

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	5133327E*	5131553E		5131383E*
Orange	5133383E	5131422E			5133667E*	
Green	5133512E	5131547E	5133693E*	5131575E	5133649E	5131649E
Black	5133696E*	5131683E*				
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.

* These items are non-stock and may be subject to minimum order quantities.

Data subject to change without notice.

CATEGORY 5e SCREENED CABLE

GenSPEED® 5000

GenSPEED® 5000

STANDARD COMPLIANCES

- ANSI/TIA/EIA 568B (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMP for Plenum
- NEC/CEC Type CMR for Non-Plenum



APPLICATIONS

- 1000 BASE-T (Gigabit Ethernet)
- E52/155 Mbps ATM
- E100/10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- T1
- Voice

CONSTRUCTION

Conductors

- 4 pairs of 24 AWG solid bare annealed copper

Insulation

- Plenum: FEP (O.D. = 0.0405")
- Non-Plenum: Polyolefin (O.D. = 0.0405")

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

- 24 AWG stranded (7/32) solid tinned copper

Shield

- Polyester-backed aluminum foil (aluminum side in)

Jacket

- Flame-retardant PVC
- Sequential footage markings

Packaging

- 1000' spool

PHYSICAL DATA

	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.250	0.225
Nominal Cable Weight (lbs/1000ft)	36	32
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C) Installation: Operation:	0 to +60 -10 to +60	0 to +60 -10 to +60

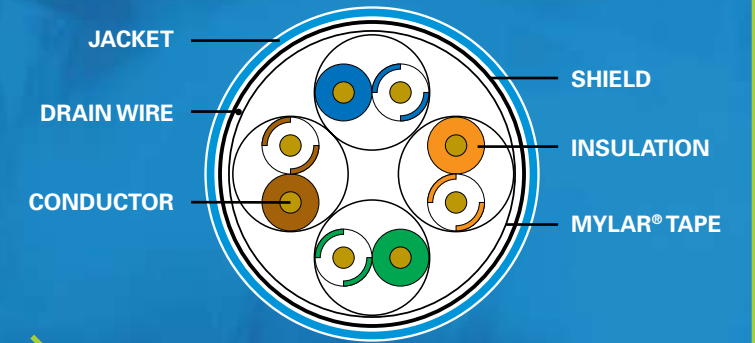
ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 KHz	14
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation (NVP) % Speed of Light	CMR: 70 CMP: 72
Propagation Delay (max) ns @ 100 MHz	538

FEATURES AND BENEFITS

- Foil shield for EMI protection
- Positive PSACR beyond 155 MHz for future bandwidth requirements
- Characterized and tested to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Unique product-specific packaging for ease of identification
- Application assurance warranty

GENSPEED 5000 SCREENED CABLE CROSS-SECTION



ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.8	51.8	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.8	37.8	25.0
25	30.9	33.9	10.4	41.3	44.3	32.8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.9	27.9	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	17.0	20.0	—
200	—	—	32.4	27.8	30.8	14.8	17.8	—
250	—	—	36.9	26.3	29.3	12.8	15.8	—
300	—	—	41.0	25.1	28.1	11.3	14.3	—
350	—	—	44.9	24.1	27.1	9.9	12.9	—

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

PART NUMBERS

Standard packaging: 1000' Reel

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.

GenSPEED[®] 5000 CATEGORY 5e BACKBONE 25 PAIR CABLE

STANDARD COMPLIANCES

- ANSI/TIA/EIA-568-B.2 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- NEC/CEC Type CMR for Non-Plenum



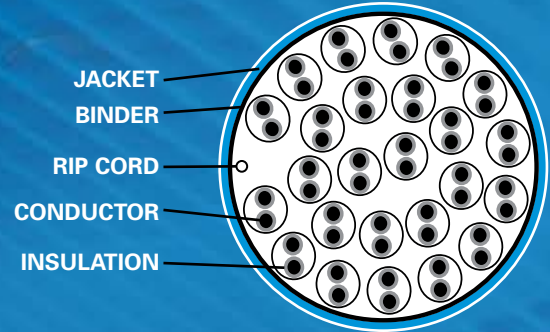
APPLICATIONS

- 1000BASE-T (Gigabit Ethernet)
- 100/10 BASE-T
- 100 VG-AnyLAN
- 52/155 Mp/s ATM
- 4/16 Mb/s Token Ring
- T1
- Voice

PART NUMBERS

CMR (Non-Plenum)

Product Number	Color	O.D. (inches)	Weight (lbs/Kft)
2133269e	Gray	0.500	125
2133694e	Blue	0.500	125
2133781e	White	0.500	125



ELECTRICAL CHARACTERISTICS (24 AWG)

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 kHz	14
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15
Delay Skew (max) ns/100m	45
Nom. Velocity of Propagation (NVP) % Speed of Light	68
Propagation Delay (max) ns @ 100 MHz	538

CONSTRUCTION

Conductors

- 25 pairs of 24 AWG solid bare annealed copper

Insulation

- Polyolefin

Color Code

- See Color Code chart on page 65, except no bandmarking; only solid colors

Rip Cord

- Applied longitudinally under jacket

Jacket

- PVC
- 0°C low temperature handling
- Sequential footage markings

Packaging

- 1000' Reel

ELECTRICAL PERFORMANCE

Frequency MHz	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	Return Loss (min)
0.772	1.8	64.3	67.3	63.0	—
1	2.0	62.3	65.3	60.8	20.0
4	4.1	53.3	56.3	48.7	23.0
8	5.8	48.3	51.3	42.7	24.5
10	6.5	47.3	50.3	40.8	25.0
16	8.2	44.3	47.3	36.7	25.0
20	9.3	42.3	45.3	34.7	25.0
25	10.4	41.3	44.3	32.8	24.3
31.25	11.7	39.3	42.3	30.9	23.6
62.5	17.0	35.3	38.3	24.8	21.5
100	22.0	32.3	35.3	20.8	20.1

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

Data subject to change without notice.

GenSPEED[®] 5000 CATEGORY 5e OUTSIDE PLANT CABLE



STANDARD COMPLIANCES

- ANSI/TIA/EIA 568B (Category 5e)
- ISO 11801 (Category 5e)
- ANSI/ICEA S-90-661 (Category 5e)
- MIL-C-24640A Water Penetration Requirements



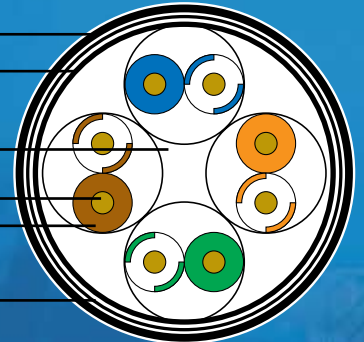
APPLICATIONS

- 1000 BASE-T (Gigabit Ethernet)
- 52/155 Mbps ATM
- 100/10BASE-T (IEEE 802.3)
- Aerial, Duct and Buried installations
- Voice/T1

PRODUCT NUMBERS

Product Number	Jacket Color	Armor	O.D. (inches)	Weight (lbs/Kft)
5136100	Black	None	0.230	25
5136101	Black	Aluminum	0.340	74

- JACKET
- INNER JACKET (ARMORED ONLY)
- FLOODING
- CONDUCTOR INSULATION
- OPTIONAL ARMOR



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 kHz	17
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15
Delay Skew ns/100m	45
Nom. Velocity of Propagation (NVP) % Speed of Light	69
Propagation Delay (max) ns @ 100 MHz	583

CONSTRUCTION

Conductors

- 4 pairs of 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

Flooding Compound

- Waterproof gel prevents moisture migration

Optional Armor

- Aluminum applied helically (inner jacket is used with this construction)

Jacket

- Black UV- and abrasion-resistant Polyethylene (PE)
- TRU-Mark[®] print legend contains footage markings from 1000' to 0'

Temperature Rating

- Installation: -30°C to 60°C
- Operation: -45°C to 80°C

Packaging

- 1000' Reel

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.8	51.8	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.8	37.8	25.0
25	30.9	33.9	10.4	41.3	44.3	32.8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.9	27.9	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	17.0	20.0	—
200	—	—	32.4	27.8	30.8	14.8	17.8	—
250	—	—	36.9	26.3	29.3	12.8	15.8	—
300	—	—	41.0	25.1	28.1	11.3	14.3	—
350	—	—	44.9	24.1	27.1	9.9	12.9	—

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

Data subject to change without notice.

GenSPEED® 5000 CATEGORY 5e RESIDENTIAL CMX OUTDOOR-CMR CABLE

STANDARD COMPLIANCES

- ANSI/TIA/EIA 568B.2 (Category 5e)
- ANSI/ICEA S-100-685
- NEC/CEC Type CMX OUTDOOR-CMR



APPLICATIONS

- 1000 BASE-T (Gigabit Ethernet)
- 52/155 Mbps ATM
- 100/10 BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- T1
- Voice

PRODUCT NUMBERS

Product Number	Jacket Color
2137113e	Ivory
2137114e	Gray

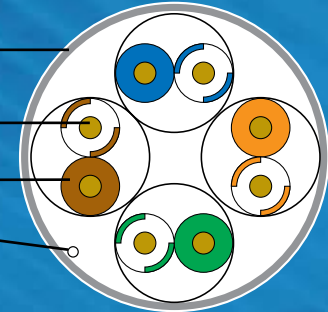
Note: For installations using staple guns, the 4-pair construction requires the use of T-25 size staples.

JACKET

CONDUCTOR

INSULATION

RIP CORD



ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 kHz	17
Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15
Delay Skew ns/100m	45
Nom. Velocity of Propagation (NVP) % Speed of Light	70

CONSTRUCTION

Conductors

- 4 pairs of 24 AWG solid bare annealed copper

Insulation

- Flame-Retardant Polyolefin

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

- Flame-retardant PVC
- Sequential footage markings
- Installation Temperature: -10°C to 60°C
- Operation Temperature: -40°C to 75°C

Physical Data

- Nominal Cable Diameter (in):
 - 0.21
- Nominal Cable Weight (lbs/1000ft):
 - 26

Packaging

- 600' Pull-Pac® Carton

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR (min)	ACR (min)	Attenuation (max)	PSNEXT (min)	NEXT (min)	PSELFEXT (min)	ELFEXT (min)	Return Loss (min)
1	60.3	63.3	2.0	62.3	65.3	60.8	63.8	20.0
4	49.2	52.2	4.1	53.3	56.3	48.8	51.8	23.0
10	40.8	43.8	6.5	47.3	50.3	40.8	43.8	25.0
16	36.0	39.0	8.2	44.2	47.2	36.7	39.7	25.0
20	33.5	36.5	9.3	42.8	45.8	34.8	37.8	25.0
25	30.9	33.9	10.4	41.3	44.3	32.8	35.8	24.3
31.25	28.2	31.2	11.7	39.9	42.9	30.9	33.9	23.6
62.5	18.4	21.4	17.0	35.4	38.4	24.9	27.9	21.5
100	10.3	13.3	22.0	32.3	35.3	20.8	23.8	20.1
155	1.4	4.4	28.1	29.4	32.4	17.0	20.0	—
200	—	—	32.4	27.8	30.8	14.8	17.8	—
250	—	—	36.9	26.3	29.3	12.8	15.8	—
300	—	—	41.0	25.1	28.1	11.3	14.3	—
350	—	—	44.9	24.1	27.1	9.9	12.9	—

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 or direct buried.

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

Data subject to change without notice.

Category 3 Cables

As your one-stop resource, General Cable provides a comprehensive line of Category 3 wiring products. General Cable offers a mix of quality plenum, riser and multi-dwelling residential cables designed for sophisticated voice and data systems.

General Cable's **Category 3 Plenum** Cable is installed in a building's return air plenums for both convenience and aesthetics. **Category 3 Riser** Cable is ideal for installation in vertical riser and general horizontal applications. Available from two to 300 pair counts, Category 3 Plenum and Riser Cables meet all your Power Sum NEXT backbone voice transmission requirements.

Heavy EMI/RFMI is common in hostile workplaces where equipment and machinery generate noises that can compromise voice and data signals. General Cable's **Category 3 Shielded** Plenum and Riser Cables feature Mylar® tape and polyester-backed aluminum foil shields to reduce the effects of EMI/RFI in electromagnetic environments.

All General Cable's Category Cables meet applicable TIA/EIA-568-B safety standards. Each safety-listed cable meets the Canadian Standards Association (CSA) and the National Electric Code (NEC) requirements. Independent third-party testing further confirms the quality and performance of all cables.

Dual listed for **CMX OUTDOOR-CMR**, General Cable's Category 3 station wire withstands and operates at the low temperatures found in colder regions, down to -40°C without jacket cracking.

Available in various jacket colors and pair counts, General Cable's category cables meet installers' needs for virtually every application. Fabricated in state-of-the-art facilities, these cables are backed by years of technical expertise and are guaranteed to meet your expectations.

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Category 3 Plenum

Product Construction

Conductors:

- 24 AWG solid bare annealed copper

Insulation:

- Flame-retardant semi-rigid PVC

Color Code:

- See Color Code chart on page 65

Rip Cord:

- Applied longitudinally under jacket (except 3 and 4 pair)

Jacket:

- Flexguard® flame-retardant PVC
- Tough low-friction PVDF fluoropolymer
- Sequential footage markings

Packaging

- 1000' Pull-Pac® (PP)
- 1000' spool (SP)
- 1000' Spool-Pac® (SPC)
- 1000' reel (RL)
- Per order length (POL)

Applications

- 100 VG-AnyLAN
- 52 Mbps ATM
- 4 Mbps Token Ring (IEEE 802.5)
- 10 BASE-T (IEEE 802.3)
- T1
- Voice

Compliances

- ANSI/TIA/EIA 568B.2 (Category 3)
- ANSI/ICEA S-90-661 (Category 3)
- NEC/CEC Type CMP



PRODUCT NUMBER	PAIRS	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
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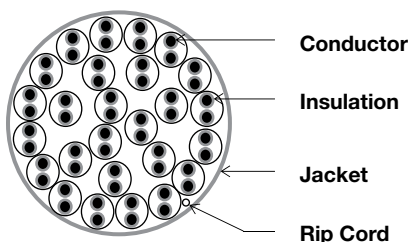
Flexguard® Flame-Retardant PVC Jacket

2131243	2	White	PP	0.13	10
2121247	2	White	SP	0.13	10
2131244	3	White	PP	0.15	13
2131248	3	White	SP	0.15	13
2131245	4	White	PP	0.17	17
2131313	4	Gray	PP	0.17	17
2131249	4	White	SP	0.17	17
2131419	4	Gray	SP	0.17	17
2131453	4	Blue	PP	0.17	17
2131458	4	White	SPC	0.17	17
2131462	4	Yellow	PP	0.17	17
2131463	4	Green	PP	0.17	17
2131246	6	White	PP	0.18	24
2131250	6	White	SP	0.18	24
2131505	25	White	RL	0.42	102
2131505.99	25	White	POL	0.42	102
2131757	50	White	RL	0.59	220
2131757.99	50	White	POL	0.59	220
2131758	100	White	RL	0.84	440
2131758.99	100	White	POL	0.84	440

PVDF Fluoropolymer Jacket

2131442.99	200	Natural	POL	1.10	728
2131474.99	300	Natural	POL	1.45	1243

Data subject to change without notice.



Electrical Characteristics

	24 AWG	Frequency	Attenuation dB/100m (328ft)	Power Sum Near-End Crosstalk dB (min)
DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38	772 kHz	2.2	43
Mutual Capacitance (nom) pF/ft @ 1 kHz	18	1 MHz	2.6	41
Characteristic Impedance Frequency (f): 1.0-16.0 MHz	Ohms 100 ± 15	4 MHz	5.6	32
Structural Return Loss (SRL) Frequency (f): 1.0-10.0 MHz	dB (min) 12	8 MHz	8.5	27
	10.0-16.0 MHz	10 MHz	9.7	26
	12-10 log (f/10)	16 MHz	13.1	23

Category 3 Non-Plenum



PRODUCT NUMBER	PAIRS	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
2133008	2	Beige	PP	0.14	9
2133009	2	Gray	PP	0.14	9
2133011	2	Gray	SP	0.14	9
2133012	3	Beige	PP	0.15	13
2133013	3	Gray	PP	0.15	13
2133015	3	Gray	SP	0.15	13
2133016	4	Beige	PP	0.17	16
2133017	4	Gray	PP	0.17	16
2133359	4	White	SPC	0.17	16
2133358	4	Gray	SPC	0.17	16
2133018	4	Beige	SP	0.17	16
2133019	4	Gray	SP	0.17	16
2133275	4	Blue	PP	0.17	16
2133296	4	White	PP	0.17	16
2133020*	6	Beige	PP	0.21	23
2133021	6	Gray	PP	0.21	23
2133022	6	Beige	SP	0.21	23
2133023	6	Gray	SP	0.21	23
2133026	12	Beige	RL	0.27	47
2133027	12	Gray	RL	0.27	47
2133032	25	Beige	RL	0.42	105
2133033	25	Gray	RL	0.42	105
2133033.99	25	Gray	POL	0.42	105
2133161	50	Gray	RL	0.56	185
2133370	50	Beige	RL	0.56	185
2133161.99	50	Gray	POL	0.56	185
2133144	100	Gray	RL	0.74	375
2133144.99	100	Gray	POL	0.74	375
2133323	200	Gray	RL	1.02	724
2133323.99	200	Gray	POL	1.02	724
2133373.99	300	Gray	POL	1.23	1077

Data subject to change without notice.

* These items are non-stock and may be subject to minimum order quantities.

Product Construction

Conductors:

- 24 AWG solid bare annealed copper

Insulation:

- Flame-retardant semi-rigid PVC

Color Code:

- See Color Code chart on page 65

Rip Cord:

- Applied longitudinally under jacket

Jacket:

- Flame-retardant PVC
- Sequential footage markings

Packaging

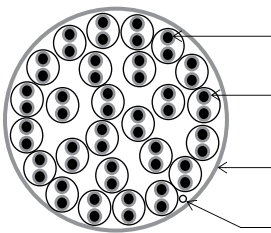
- 1000' Pull-Pac® (PP)
- 1000' Spool-Pac® (SPC)
- 1000' spool (SP)
- 1000' reel (RL)
- Per order length (POL)

Applications

- 100 VG-AnyLAN
- 52 Mbps ATM
- 4 Mbps Token Ring (IEEE 802.5)
- 10 BASE-T (IEEE 802.3)
- T1
- Voice

Compliances

- ANSI/TIA/EIA 568B.2 (Category 3)
- ANSI/ICEA S-90-661 (Category 3)
- NEC/CEC Type CMR



Conductor

Insulation

Jacket

Rip Cord

Electrical Characteristics

	24 AWG
DC Resistance (max) Ohms/100m @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 kHz	18
Characteristic Impedance Frequency (f): 1.0-16.0 MHz	Ohms 100 ± 15
Structural Return Loss (SRL) Frequency (f): 1.0-10.0 MHz 10.0-16.0 MHz	dB (min) 12 12-10 log (f/10)

Frequency	Attenuation dB/100m (max)	Power Sum Near-End Crosstalk dB (min)
772 kHz	2.2	43
1 MHz	2.6	41
4 MHz	5.6	32
8 MHz	8.5	27
10 MHz	9.7	26
16 MHz	13.1	23



Category 3 Screened

Product Construction

Conductors:

- 24 AWG solid bare annealed copper

Insulation:

- Plenum: FEP
- Non-Plenum: Flame-retardant semi-rigid PVC

Color Code:

- Pair 1: Blue-White/Blue
- Pair 2: Orange-White/Orange
- Pair 3: Green-White/Green
- Pair 4: Brown-White/Brown
- Pair 5: Slate-White/Slate
- Pair 6: Blue-Red/Blue

Rip Cord:

- Plenum: None
- Non-Plenum: Applied longitudinally under jacket

Drain Wire:

- 24 AWG solid tinned copper

Shield:

- Polyester-backed aluminum foil

Jacket:

- Plenum: Natural Flexguard® flame-retardant PVC (2pr) tough low-friction PVDF fluoropolymer (3-6 pair)
- Non-Plenum: Gray flame-retardant PVC
- Sequential footage markings

Packaging

- 1000' spool (SP)

Applications

- 100 BASE VG-AnyLAN
- 52 Mbps ATM
- 4 Mbps Token Ring (IEEE 802.5)
- 10 BASE-T (IEEE 802.3)
- T1
- Voice

Compliances

- ANSI/TIA/EIA 568B.2 (Category 3)
- ANSI/ICEA S-90-661 (Category 3)
- Plenum: NEC/CEC Type CMP
- Non-Plenum: NEC/CEC Type CMR



CMP (Plenum)

PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
2131537	2	0.13	14
2131216	3	0.15	18
2131217	4	0.20	23
2131218	6	0.26	32



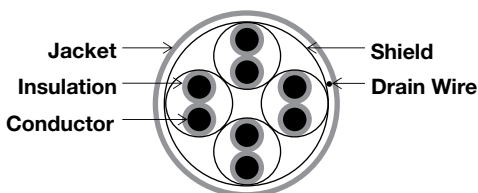
CMR (Non-Plenum)

PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
2133175	2	0.19	18
2133176	3	0.22	23
2133177	4	0.23	28

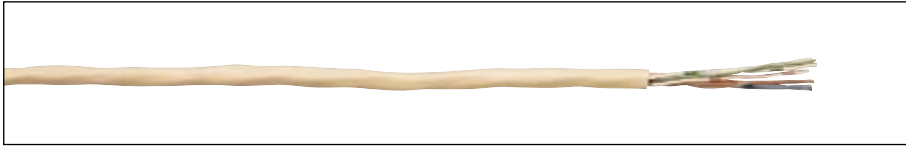
Data subject to change without notice.

Electrical Characteristics

	24 AWG	Frequency	Attenuation dB/100m (328ft)	Power Sum Near-End Crosstalk dB (min)
DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38	772 kHz	2.2	43
Mutual Capacitance (nom) PF/ft @ 1kHz	18	1 MHz	2.6	41
Characteristic Impedance Frequency (f): 1.0-16.0 MHz	Ohms 100 ± 15	4 MHz	5.6	32
Structural Return Loss (SRL) Frequency (f): 1.0-10.0 MHz	dB (min) 12	8 MHz	8.5	27
	10.0-16.0 MHz	10 MHz	9.7	26
	12-10 log (f/10)	16 MHz	13.1	23



Category 3 Residential CMX OUTDOOR-CMR



PRODUCT NUMBER	JACKET COLOR
2137088	Ivory
2137087	L.O. Gray

Data subject to change without notice.

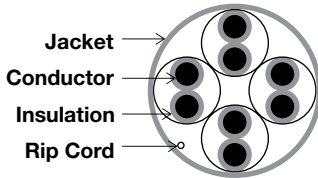
Note 1: For installations using staple guns, the 4-pair construction requires the use of T-25 size staple.

Electrical Characteristics

	24 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38
Mutual Capacitance (nom) pF/ft @ 1 kHz	17
Characteristic Impedance Frequency (f): 1.0-16.0 MHz	Ohms 100 ± 15
Structural Return Loss (SRL) Frequency (f): 1.0-10.0 MHz 10.0-16.0 MHz	dB (min) 12 12-10 log (f/10)

Frequency	Attenuation dB/100m (328ft)	NEXT Power Sum dB (min)
772 kHz	2.2	43
1 MHz	2.6	41
4 MHz	5.6	32
8 MHz	8.5	27
10 MHz	9.7	26
16 MHz	13.1	23

*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 or direct buried.



Product Construction

Conductors:

- 4 pairs of 24 AWG solid annealed bare copper

Insulation:

- Flame-retardant Polyolefin

Color Code:

Co-extruded Stripe

- 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

- Flame-retardant PVC
- Sequential footage markings
- Installation Temperature: -10°C to 60°C
- Operation Temperature: -40°C to 75°C

Physical Data

Nominal Cable Diameter (in)

- 0.19

Nominal Cable Weight (lbs/1000ft)

- 20

Packaging

- 600' Pull-Pac® Carton (PP)

Applications

- 100 BASE VG-AnyLAN
- 52 Mbps ATM
- 4 Mbps Token Ring (IEEE 802.5)
- 10 BASE-T (IEEE 802.3)
- T1
- Voice

Compliances

- ANSI/TIA/EIA 568B.2 (Category 3)
- ANSI/ICEA S-100-685
- NEC CMX OUTDOOR-CMR



TIA/EIA 568B



Cross-Connect and Distribution Frame Wire

With extended experience in the field of cross-connect wires, General Cable provides a variety of indoor and outdoor UL listed cross-connect and distributing frame wire for interconnecting equipment and supplying service in central offices, distribution cabinets and point-to-point hookups.

General Cable meets installers' needs with a breadth of products for virtually any application. Aimed at providing convenience and flexibility, all cables are manufactured, tested and approved to UL, the NEC and applicable TIA/EIA and Telcordia standards.

With years of technical expertise and a focus on cultivating strong relationships, General Cable provides customers with first-class technical support and a competitive advantage. For more than a century and a half, General Cable has stayed ahead of the industry's changing needs with a variety of products that meet future performance requirements and provide the best value in cabling solutions. General Cable's cross-connect and distribution frame wire offer unparalleled, world-class quality.

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Customer Premise Cross-Connect Wire Spec. 5006



PRODUCT NUMBER	PAIRS	AWG	COLOR CODE				PKG/ CARTON	O.D. (INCHES)	WEIGHT (LBS/ KFT)
			PAIR 1	PAIR 2	PAIR 3	PAIR 4			
2114200	1	24	R/G-G/R				8	0.06	3
2114363	1	22	W/O-O/W				4	0.08	5
2114364	1	22	W/G-G/W				4	0.08	5
2114369	1	24	R/BL-BL/R				8	0.06	3
2114385	1	24	R/Y-Y/R				8	0.06	3
7041973	1	22	BL/W-W/BL				4	0.08	5
7042047	1	22	R/W-W/R				4	0.08	5
7023708	1	24	BL/W-W/BL				8	0.06	3
7041916	1	24	BL/Y-Y/BL				8	0.06	3
7023773	1	24	O/W-W/O				8	0.06	3
7023781	1	24	G/W-W/G				8	0.06	3
7036759	1	24	BK/W-W/BK				8	0.06	3
7023864	1	24	R/W-W/R				8	0.06	3
2114212	2	22	BL/W-W/BL	O/W-W/O			4	0.12	10
7023716	2	24	BL/W-W/BL	O/W-W/O			3	0.09	6
7023724	3	24	BL/W-W/BL	O/W-W/O	G/W-W/G		4	0.10	9
2114211	4	24	BL/W-W/BL	O/W-W/O	G/W-W/G	BR/W-W/BR	4	0.12	12

Data subject to change without notice.

Electrical Characteristics

	22 AWG 1 PR.	24 AWG 1-4 PR.
DC Resistance (max) Ohms/1000ft @ 20°C	18.0	28.6
Characteristic Impedance Ohms @ 1MHz (nom)	100	100

Product Construction

Conductors:

- 22 and 24 AWG solid bare annealed copper

Insulation:

- Flame-retardant semi-rigid PVC

Pairing:

- Two twists per foot minimum
- For ease of identification, a variety of different color options are available

Packaging

- 1000' spool (SP)
- Other lengths and put-ups are also available

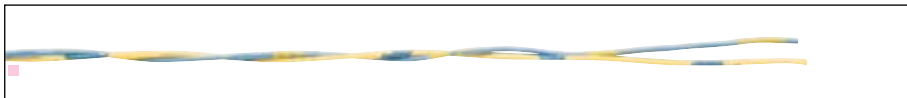
Applications

- Suitable for voice and data transmission up to 4 Mbps
- For cross-connecting between terminals of a distribution frame or other premise equipment

Compliances

- UL and c(UL) Type CM
- Category 2 compatible

Customer Premise Cross-Connect Wire Type "F" • Spec. 5008



PRODUCT NUMBER	PAIRS	COLOR CODE			PKG	PKG/ CARTON	O.D. (INCHES)	WEIGHT (LBS/KFT)
		PAIR 1	PAIR 2	PAIR 3				
2113055	1	O/W-W/O			1000' SP	8	0.07	3
2134023	1	G/W-W/G			1000' SP	8	0.07	3
2114327	1	BL/R-R/BL			1000' SP	8	0.07	3
2114375	1	R/W-W/R			600' SP	8	0.07	3
2114374	1	BK/W-W/BK			1000' SP	8	0.07	3
7042500	1	BL/Y-Y/BL			1000' SP	8	0.07	3
7051543	1	BL/Y-BL			600' SP	8	0.07	3
2113054	1	BL/W-W/BL			1000' SP	8	0.07	3
7042518	2	BL/R-R/BL	O/R-R/O		1500' SP	4	0.09	6
2114307	2	BL/W-W/BL	O/W-W/O		1000' SP	4	0.09	6
7042526	3	BL/W-W/BL	O/W-W/O	G/W-W/G	600' SP	4	0.12	10

Data subject to change without notice.

Electrical Characteristics

	24 AWG
DC Resistance (max) Ohms/1000ft @ 20°C	28.6
Coaxial Capacitance (max) microfarads/kft @ 23°C	0.15
Insulation Resistance (min) Megohm - kft @ 23°C	300

Product Construction

Conductors:

- 24 AWG solid bare annealed copper

Insulation:

- Flame-retardant semi-rigid PVC

Pairing:

- Four twists per foot minimum

Packaging

- Supplied on non-returnable spools as shown in table (SP)

Applications

- Suitable for voice and data transmission up to 16 Mbps
- For cross-connecting between terminals of a distribution frame or other premise equipment

Compliances

- UL and c(UL) Type CM
- Bellcore Specification TA-TSY-000130
- Category 3 compatible



Network Outdoor Cross-Connect Wire

Type "G" • Spec. 5010

Product Construction

Conductors:

- 1 pair of 22 AWG solid bare annealed copper

Insulation:

- Dual-insulated polypropylene with a flame-retardant semi-rigid PVC skin

Pairing:

- Five twists per foot minimum

Packaging

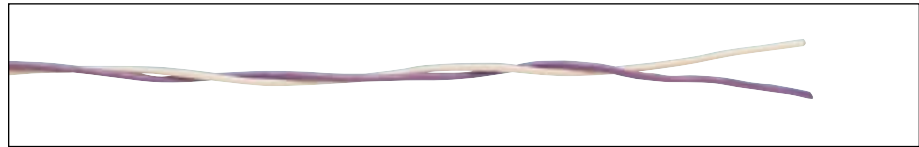
- 400' spool (SP)

Applications

- Suitable for voice and data transmission up to 16 Mbps
- For cross-connecting between feeder and distribution circuits within the confines of outdoor distribution cabinets

Compliances

- Bellcore Specification TA-NWT-000126
- Category 3 compatible



PRODUCT NUMBER	COLOR CODE	PKG/ CARTON	WEIGHT (LBS/KFT)
	PAIR 1		
7042427	W/V	8	5
2114357	R/W	8	5

Data subject to change without notice.

Electrical Characteristics

	22 AWG
DC Resistance (max) Ohms/1000ft @ 20°C	17.8
Coaxial Capacitance (max) microfarads/kft @ 23°C	0.09
Insulation Resistance (min) Megohm - kft @ 23°C	5000

Universal Cross-Connect Wire

Type "N" • Spec. 5013



PRODUCT NUMBER	PAIRS	COLOR CODE			PKG	PKG/CARTON	WEIGHT (LBS/KFT)
		PAIR 1	PAIR 2	PAIR 3			
2113057	1	W/V-V			400' SP	8	4.9
2113058	1	W/V-V			1000' SP	4	4.9
2113059	1	W/R-R			1000' SP	4	4.9
2113060	2	R/BL-BL	R/O-O		1000' SP	3	9.9
2113061	3	W/BL-BL	W/O-O	W/G-G	500' SP	3	14.7

Data subject to change without notice.

Electrical Characteristics

	22 AWG
DC Resistance (max) Ohms/1000ft @ 20°C	18.0
Coaxial Capacitance (max) microfarads/kft @ 23°C	0.15
Insulation Resistance (min) Megohm - kft @ 23°C	500
Near-End Cross Talk (min) dB @ 772kHz	44

Product Construction

Conductors:

- 22 AWG solid bare annealed copper

Insulation:

- Flame-retardant semi-rigid PVC

Pairing:

- Four twists per foot minimum

Packaging

- Supplied on non-returnable spools as shown in table (SP)

Applications

- Suitable for voice and data transmission up to 16 Mbps
- UL Listed cross-connect wire for indoor use in distributing frames and cross-connect arrays; suitable for use outdoors in cross-connect cabinets and terminal boxes. Has excellent low-temperature characteristics for installation in cold climates

Compliances

- UL and c(UL) Type CM
- Bellcore Specification TA-NWT-000126
- Category 3 compatible



DSX Distribution Frame Wire

Type "Y2" • Spec. 5506

Product Construction

Conductors:

- 24 AWG solid tinned annealed copper

Insulation:

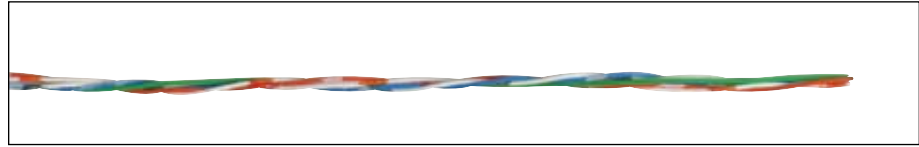
- Flame-retardant semi-rigid PVC, 90°C
- Insulation thickness = 0.008"

Pairing:

- Six twists per foot minimum

Color Code:

- Pair 1: Blue-White/White-Blue
- Pair 2: Orange-White/White-Orange
- Single: Green



PRODUCT NUMBER	PAIRS	PKG	PKG/ CARTON
2114388	2.5	5000' SP	1
2114395	2.5	660' SP	4
2114396	2.5	1350' SP	2
7026156	2.5	1000' SP	4

Data subject to change without notice.

Physical Data

Nominal Cable Diameter (in):

- 0.10

Nominal Cable Weight (lbs/1000ft):

- 8.2

Packaging

- Spool (SP)
- Cardboard coil (CL)

Applications

- Suitable for voice and data transmission up to 16 Mbps
- For cross-connecting equipment units in telephone central offices and point-to-point hookups

Compliances

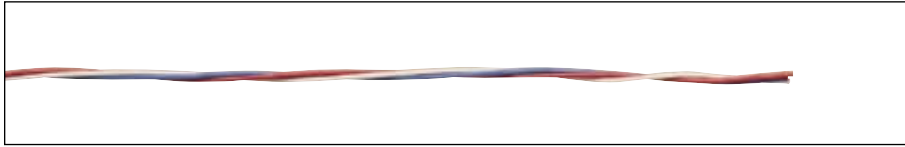
- UL and c(UL) Type CM
- Category 3 compatible

Electrical Characteristics

	24 AWG
DC Resistance (max) Ohms/1000ft @ 20°C	28.6
Coaxial Capacitance (max) microfarads/kft @ 23°C	0.15
Insulation Resistance (min) Megohm - kft @ 23°C	300
Capacitance Unbalance (max) Picofarads - 100ft @ 1.0 kilohertz	70

Distributing Frame Wire

Type "DT" • Spec. 5009



PRODUCT NUMBER	PAIRS	AWG	COLOR CODE	PKG	PKG/ CARTON	O.D. (INCHES)	WEIGHT (LBS/KFT)
7051576	1	24	R/BK	1000' SP	4	0.074	3.1
7051535	1	24	O/W	1000' SP	4	0.074	3.1
7051592	1	24	R/W	1000' SP	4	0.074	3.1
7051600	1	24	BK/W	1000' SP	4	0.074	3.1
7022551	1	24	Y/BL	6000' BSP	2	0.074	3.1
7022569	1	24	Y/O	6000' BSP	2	0.074	3.1
7022577	1	24	Y/G	6000' BSP	2	0.074	3.1
7022585	1	24	Y/R	6000' BSP	2	0.074	3.1
7056534	1	24	G/W	1000' SP	4	0.074	3.1
7022593	3C	24	Y/BL/R	4500' BSP	1	0.080	4.7
7022601	2	24	Y/BL-R/G	3000' BSP	2	0.098	6.2
2113063	1	22	Y/BL	1000' SP	4	0.084	4.7
7051618	1	22	BK/W	1000' SP	4	0.084	4.7
7051626	1	22	R/W	1000' SP	4	0.084	4.7
7051634	1	22	BL/W	1000' SP	4	0.084	4.7
7022460	1	22	W/BL	4500' BSP	2	0.084	4.7
7022478	1	22	W/O	4500' BSP	2	0.084	4.7
7022486	1	22	W/G	4500' BSP	2	0.084	4.7
7022494	1	22	W/R	4500' BSP	2	0.084	4.7
7022502	1	22	R/G	4500' BSP	2	0.084	4.7
7022528	3C	22	W/BL/R	3000' BSP	2	0.091	7.0
2113184	2	22	W/BL-R/G	2000' BSP	2	0.116	9.4

Data subject to change without notice.

Product Construction

Conductors:

- 22 and 24 AWG solid tinned annealed copper

Insulation:

- Flame-retardant semi-rigid PVC
- Insulation thickness = 0.008"

Pairing:

- Four twists per foot minimum

Packaging

- Standard spool (SP)
- Bell spool (BSP)
- Bell spool dimensions (tapered)
 - Inner Drum: 7.25" tapered to 6.25"
 - Flange: 12.25"
 - Traverse: 4.25"
- Other lengths and put-ups are also available
- Tight pair twist cables are available upon request

Applications

- Suitable for voice and data transmission up to 16 Mbps
- For cross-connecting equipment units in telephone central offices and point-to-point hookups

Compliances

- UL and c(UL) Type CM
- Bellcore Specification TA-TSY-000136

Electrical Characteristics

	22 AWG	24 AWG
DC Resistance (max) Ohms/5ft	0.089	0.143
Coaxial Capacitance (nom) microfarads/kft @ kHz	0.150	0.125
Characteristic Impedance Ohms @ 1 MHz (nom)	100	100



Central Office Cables

General Cable is a highly recognized manufacturer of a comprehensive line of Central Office Cable. As a primary national supplier, our top-quality product line includes cables with the ability to run both analog and digital services from 75 Ohm DS3/4 interconnect cable and switchboard cable to ALVYN terminating cable and two-way digital transmission cable. General Cable's preferred central office cables are engineered for T1, DS1, DS1C, DS2 and other broadband services.

Designed to provide the optimum in performance, the products' transmission, physical and mechanical characteristics are committed to the highest standards of product quality. All of these cables provide enhanced crosstalk and attenuation performance for customers who need broadband solutions. In addition, Telcordia test reports are available upon request for the terminating cable line of products.

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734 Series for DS-3 and DS-4

75 Ohm Cross-Connect Cable



CMR (Non-Plenum)

PRODUCT NUMBER	CONDUCTORS	HFA PRODUCT NUMBER
7340201	1	CO20C0012410
7340201T	1 + 22 AWG Tracer	ZO20C0022010
7340202	2	CO20C0022410
7340203	3	CO20C0032410
7340206	6	CO20C0061110
7340208	8	CO20C0082410
7340209	9	CO20C0092410
7340212	12	CO20C0122410
7340216	16	CO20C0162410

Data subject to change without notice.

ELECTRICAL CHARACTERISTICS

SRL 5-90 MHz (dB MIN.)	DC RESISTANCE (OHMS/KFT NOM.)	SHIELD DC RESISTANCE (OHMS/KFT NOM.)	NOMINAL CAPACITANCE (pF/ft)	NVP %
30	43.6	5.6	17.3	80

ATTENUATION (NOMINAL)

MHz/SIGNAL	dB/100ft	dB/100m
1	0.45	1.40
CEPT1	0.54	1.80
CEPT2	1.02	3.30
5	1.10	3.61
10	1.53	5.02
CEPT3	2.02	6.60
DS3	2.33	7.70
STS1	2.56	8.40
44.736	3.28	10.76
50	3.47	11.38
CEPT4	4.12	13.50
STS3	4.36	14.30
100	4.95	16.24
DS4	5.84	19.15
200	7.08	23.22

Data subject to change without notice.

Product Construction

Conductor:

- 20 AWG silver-plated copper

Insulation:

- Gas-injected foamed PE (O.D.: 0.146")

Shield:

- Foil: Aluminum
- Braid: 85% Tinned Copper

Jacket:

- Flame-retardant PVC

Temperature/Voltage Rating

- 75° C/300 V

Packaging

- 1000' wood reels

Applications

- Interconnect and cross-connecting central offices
- Plenum cable is also available upon request

Compliances

- UL and c(UL) Type CMR



735A Series for DS-3 and DS-4

75 Ohm Cross-Connect Cable

Product Construction

Conductor:

- 26 AWG silver-plated copper

Insulation:

- Gas-injected foamed PE (O.D.: 0.077")

Shield:

- Foil: Aluminum
- Braid: 95% Tinned Copper

Jacket:

- Flame-retardant PVC

Temperature/Voltage Rating

- 75° C/300V

Packaging:

- 1000' reels

Applications

- Interconnect and cross-connecting central offices
- Plenum cable is also available upon request

Compliances

- UL and c(UL) Type CMR



CMR (Non-Plenum)

PRODUCT NUMBER	CONDUCTORS	HFA PRODUCT NUMBER
7356201	1	CO26C0012010
7356201T	1 + 22 AWG Tracer	ZO26C0022010
7356202	2	CO26C0022010
7356202T	2 + 22 AWG Tracer	ZO26C0032010
7356202ST	2 + 22 AWG Tracer	ZO26C0032110
7356203	3	CO26C0032010
7356206	6	CO26C0062010
7356208	8	CO26C0082010
7356209	9	CO26C0092010
7356212	12	CO26C0122010
7356216	16	CO26C0162010
7356224	24	NOT SET UP

Data subject to change without notice.

ELECTRICAL CHARACTERISTICS

SRL 5-90 MHz (dB MIN.)	DC RESISTANCE (OHMS/KFT NOM.)	SHIELD DC RESISTANCE (OHMS/KFT NOM.)	NOMINAL CAPACITANCE (pF/ft)	NVP %
30	10.1	2.70	17.0	83

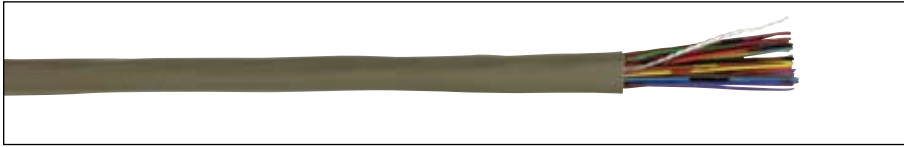
ATTENUATION (NOMINAL)

MHz/SIGNAL	dB/100ft	dB/100m
1	0.45	1.40
CEPT1	0.54	1.80
CEPT2	1.02	3.30
5	1.10	3.61
10	1.53	5.02
CEPT3	2.02	6.60
DS3	2.33	7.70
STS1	2.56	8.40
44.736	3.28	10.76
50	3.47	11.38
CEPT4	4.12	13.50
STS3	4.36	14.30
100	4.95	16.24
DS4	5.84	19.15
200	7.08	23.22

Data subject to change without notice.

Switchboard Cable

Spec. 4753 • Type CMR • TIW Series

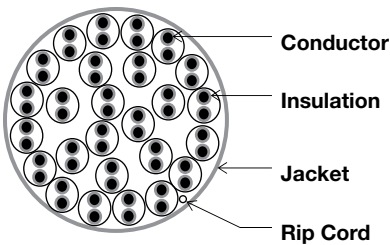


PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
7023039	3	0.13	13
2114621	4	0.16	16
6970073	12	0.24	42
6970065	25	0.36	84
7023021	32	0.37	106
6970123	50	0.46	168
7002975	75	0.56	247
7002967	100	0.64	352

Data subject to change without notice.

Electrical Characteristics

	24 AWG	
	3-6 pr	over 6 pr
DC Resistance (max) Ohms/1,000ft @ 20°C	31.5	31.5
Mutual Capacitance (nom) PF/ft @ 1kHz	19	22
Attenuation (nom) dB/1000ft @ 0.772 MHz	6.2	7.1
	16	18
Characteristic Impedance Ohms @ 1 MHz (nom)	100 ± 15	100 ± 20



Product Construction

Conductors:

- 24 AWG solid tinned annealed copper

Insulation:

- Flame-retardant semi-rigid PVC
- Insulation thickness = 0.006"

Pairing:

- Three twists per foot minimum

Color Code:

- See Color Code Chart on page 65

Rip Cord:

- Applied longitudinally under jacket

Jacket:

- Gray, tough, flame-retardant PVC

Packaging

- 1000' reel (RL)
- Bulk reels are available upon request

Applications

- Voice
- T1 Fractional
- Category 2 applications
- Basic rate ISDN

Compliances

- ANSI/ICEA S-80-576
- UL and c(UL) Type CMR



Shielded Switchboard Cable

Spec. 8010 and 4754 • Type CMR

Product Construction

Conductors:

- 24 AWG solid tinned annealed copper

Insulation:

- Flame-retardant semi-rigid PVC
- Insulation thickness = 0.006"

Pairing:

- Three twists per foot minimum

Color Code:

- See Color Code Chart on page 65

Rip Cord:

- Applied longitudinally under jacket

Shield:

- Polyester-backed aluminum foil shield
- Spec. 8010 has aluminum facing out
- Spec. 4754 has aluminum facing in

Drain Wire:

- 24 AWG solid tinned copper drain wire is placed on aluminum side

Jacket:

- Tough, gray, flame-retardant PVC

Packaging

- 1000' reel (RL)
- Bulk reels are available upon request

Applications

- Voice
- T1 Fractional
- Category 2 applications
- Basic rate ISDN

Compliances

- ANSI/ICEA S-80-576
- UL and c(UL) Type CMR



Spec. 8010

PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
2114613	16	0.315	60
7038045	25	0.350	90
2114636	50	0.485	175

Data subject to change without notice.

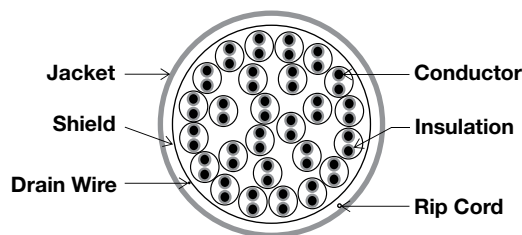
Spec. 4754

PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
2114628	25	0.350	90
2114627	32	0.380	120

Data subject to change without notice.

Electrical Characteristics

	24 AWG
DC Resistance (max) Ohms/1000ft @ 20°C	31.5
Coaxial Capacitance (max) microfarads/kft @ 23°C	22
Attenuation (nom) dB/1000ft @ 0.772 MHz	7.1
dB/1000ft @ 4.224 MHz	18
Characteristic Impedance Ohms @ 1 MHz (nom)	100 ± 20



100 Ohm Individually Braided Shielded Twisted Pair Cable

Terminating Cable for Digital Transmission • Spec. 4162 • Type CMR/CM



PRODUCT NUMBER	PAIRS	COLOR CODE	JACKET COLOR	O.D. (INCHES)	WEIGHT (LBS/KFT)
2117037	1	W/BL	Orange	0.18	26
2117046	1	BK/O	Gray	0.18	26
2117047	1	R/G	Gray	0.18	26
2117048	1	W/BL	Red	0.18	26
7056898	1	W/BL	Gray	0.18	26
7056906	1	W/O	Gray	0.18	26
7056880	2	See Chart	Gray	0.46	75
7056922	4	See Chart	Gray	0.55	131
7056930	5	See Chart	Gray	0.57	160
7056948	8	See Chart	Gray	0.72	244
7056955	10	See Chart	Gray	0.80	302
7056963	12	See Chart	Gray	0.87	355

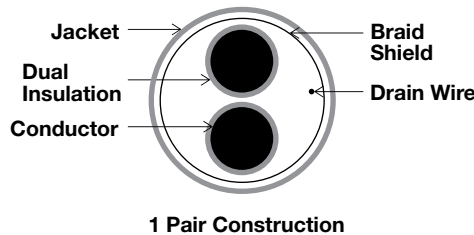
Data subject to change without notice.

Electrical Characteristics

	22 AWG	Frequency	Attenuation dB/1000ft	NEXT dB/1000ft	FEXT dB/1000ft
DC Resistance (max) Ohms/1000ft @ 20°C	18	.100 MHz	2.2	97	109
Resistance Unbalanced (max) (of a pair) @ 20°C	5	.772 MHz	6.1	93	94
Shield Resistance (nom) Ohms @ 1000ft	3.3	1.000 MHz	7.0	88	92
Mutual Capacitance (max) pF/ft @ 1 kHz	19	1.600 MHz	9.1	85	90
Impedance Ohms/772 kHz	100 ± 5	3.150 MHz	13.2	82	88
		6.300 MHz	19.1	80	83
		10.000 MHz	25.0	72	71

Color Code Chart

PAIR NO.	COLOR CODE
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Slate
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Slate
11	Black & Blue
12	Black & Orange



Product Construction

Conductors:

- 22 AWG solid tinned annealed copper

Insulation:

- High-density polyethylene with a layer of flame-retardant PVC overall
- Primary insulation, Nominal O.D. = 0.051"
- Secondary insulation, Nominal O.D. = 0.072"

Drain Wire:

- 22 AWG solid tinned annealed copper

Shield:

- 34 AWG tinned copper braid 90% coverage

Pair Jacket:

- Flame-retardant PVC jacket over each braid shielded twisted pair

Color Code:

- Pair jackets are color-coded by use of jacket printing
- Marking or printing will correspond with the colors of the insulated pairs (e.g., white/blue printed on the pair jacket indicates the insulation colors of the pairs enclosed)

Jacket:

- Flame-retardant PVC
- Sequential footage markings

Packaging

- 500' reel (RL)
- Bulk reels are available upon request

Applications

- T1/DS1
- Suitable for use in terminating high-frequency lines to carrier equipment in central offices

Compliances

- 1 pair: UL and c(UL) Type CM
- 2 pair through 12 pair: UL and c(UL) Type CMR



Dual Insulated Dual Shielded Flexible Terminating Cable

Spec. 4502 • Type CMR • 600C Series

Product Construction

Conductors:

- 22 AWG solid tinned copper conductors

Insulation:

- Inner layer of polyethylene covered by an outer layer of flame-retardant PVC
- Primary insulation, Nominal O.D. = 0.042"
- Secondary insulation, Nominal O.D. = 0.050"

Color Code:

- See Color Code Chart on page 65

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Shield:

- Two polyester-backed aluminum foil shields

Drain Wire:

- 22 AWG solid tinned copper drain wire is placed between the two shields

Rip Cord:

- Applied longitudinally under jacket

Jacket:

- Flame-retardant PVC
- Sequential footage markings

Packaging

- 1000' reel (RL)
- Bulk reels are available upon request

Applications

- T1/DS1
- DS1C
- DS2
- For interconnecting (DSI) digital equipment to digital cross-connects (DSX) and computers

Compliances

- Telcordia (Bellcore) analyzed the General Cable 4502 Series - Type 600C Family of Central Office Cables to the criteria in Telcordia GR-137-CORE. Copies of the analysis report are available from General Cable upon request.
- UL and c(UL) Type CMR

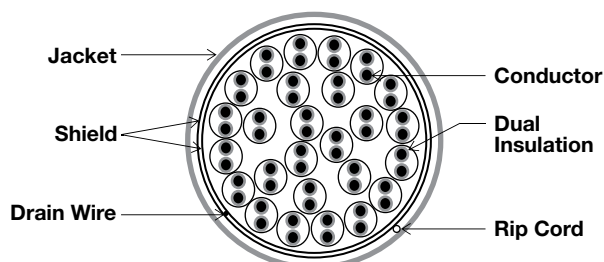


PRODUCT NUMBER	PAIRS	JACKET COLOR	PKG	O.D. (INCHES)	WEIGHT (LBS/KFT)
2117005	6	DK. Gray	1000'	0.37	66
2117039	6	L.O. Gray	Bulk	0.37	66
2117006	12	DK. Gray	Bulk	0.48	108
2117040	12	L.O. Gray	Bulk	0.48	108
2117007	16	DK. Gray	1000'	0.50	134
2117041	16	L.O. Gray	Bulk	0.50	134
2117051	20	L.O. Gray	1000'	0.55	160
2117008	25	DK. Gray	1000'	0.63	191
2117042	25	L.O. Gray	Bulk	0.63	191
2117045	28	L.O. Gray	Bulk	0.64	208
2117003	30	DK. Gray	1000'	0.65	222
2117043	30	L.O. Gray	Bulk	0.65	222
2117009	32	DK. Gray	1000'	0.68	234
2117044	32	L.O. Gray	Bulk	0.68	234
2117020	50	DK. Gray	1000'	0.82	343
2117056	50	L.O. Gray	Bulk	0.82	343
2117010	75	DK. Gray	1000'	0.95	489

Data subject to change without notice.

Electrical Characteristics

	22 AWG
DC Resistance (max) Ohms/1000ft @ 20°C	18
Insulation Resistance (min) Megohm - 1000ft @ 23°C	5000
Mutual Capacitance (nom) nF/1000ft @ 1 kHz	20.1
Attenuation (nom) dB/1000ft @ 1 MHz dB/1000ft @ 1.6 MHz dB/1000ft @ 4.0 MHz	5.0 6.6 11.3
PSNEXT dB/1000ft @ 0.772 MHz dB/1000ft @ 1.600 MHz dB/1000ft @ 3.150 MHz dB/1000ft @ 6.300 MHz	42 38 33 29
Characteristic Impedance (nom) Ohms @ 1 MHz	100 ± 15



Tight Twisted Pair Digital Terminating Cable

Spec. 4129 • Type CMR • 1249C Series
26 AWG Dual Insulated/Shielded/Jacketed

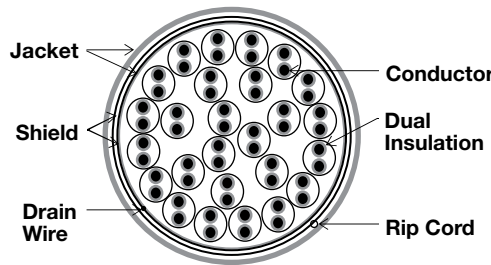


PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
7412920	20	0.41	72
7412928	28	0.44	91

Data subject to change without notice.

Electrical Characteristics

		26 AWG
DC Resistance (max) Ohms/100m (328ft) @ 20°C		13.7
Mutual Capacitance (nom) nF/100m @ 1 kHz		5.25
Conductor Resistance Unbalance (max)		5%
Characteristic Impedance Frequency (f):	1.0 MHz	Ohms 100 ± 15
Capacitance Unbalance pF/100m	Pr to Pr Pr to Ground	52.5 (max) 330 (max)
Attenuation (nom) Frequency (f):	0.772 MHz 1.024 MHz 1.576 MHz 3.156 MHz 4.224 MHz	dB/100m 2.1 2.5 3.0 4.3 4.9



Color Code Chart

PAIR NO.	TIP	RING	PAIR NO.	TIP	RING
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Slate
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Slate	18	Yellow	Green
6	Red	Blue	19	Yellow	Brown
7	Red	Orange	20	Yellow	Slate
8	Red	Green	21	Violet	Blue
9	Red	Brown	22	Violet	Orange
10	Red	Slate	23	Violet	Green
11	Black	Blue	24	Violet	Brown
12	Black	Orange	25	Violet	Slate
13	Black	Green			

Product Construction

Conductors:

- 26 AWG solid tinned annealed copper

Insulation:

- Inner layer of polyethylene, outer layer of PVC
- Primary insulation, Nominal O.D. = 0.022"
- Secondary insulation, Nominal O.D. = 0.029"

Color Code:

- See chart below

Inner Jacket:

- Flame-retardant gray PVC

Shields:

- Two polyester-backed aluminum foil shields

Drain Wire:

- 24 AWG solid tinned copper is placed between the two shields

Rip Cord:

- Applied longitudinally under jacket

Jacket:

- Flame-retardant gray PVC

Packaging

- 1000' reel (RL)
- Bulk reels are available upon request

Applications

- T1/DS1
- DS1C
- DS2

Compliances

- Telcordia (Bellcore) analyzed the General Cable 4129 Series - Type 1249C Family of Central Office Cables to the criteria in Telcordia GR-137-CORE. Copies of the analysis report are available from General Cable upon request.
- UL and c(UL) Type CMR

Features

- Nominal 100 Ohm impedance
- Dual-shielded digital terminating cable is designed for switching and transmission equipment cabling for telephone central office
- Shielding from EMI
- Short twist length for better crosstalk performance



Tight Twisted Pair Digital Terminating Cable

Spec. 7271 • Type CMR • 1161A Series

24 AWG Shielded/Extended Frequency

Product Construction

Conductors

- 24 AWG solid tinned annealed copper

Insulation:

- High-density polyethylene, nom. = 0.036"

Pairing:

- Tight pair lays

Color Code:

- See chart below

Shield:

- Polyester-backed aluminum foil shield

Drain Wire:

- 24 AWG solid tinned copper

Rip Cord:

- Applied longitudinally under jacket

Jacket:

- Flame-retardant gray PVC

Packaging

- 1000' reel (RL)
- Bulk reels are available upon request

Applications

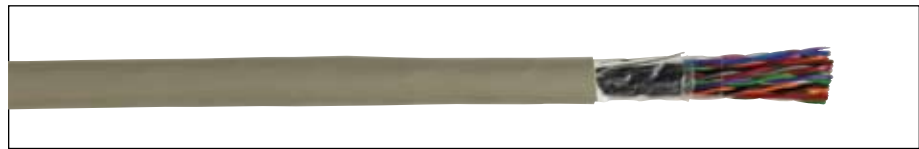
- T1/DS1
- DS1C
- DS2
- 10 BASE-T
- Shielded digital terminating cable is designed for switching and transmission equipment cabling for telephone central office

Compliances

- TIA/EIA 568B.2 (Category 3)
- UL and c(UL) Type CMR

Features

- Nominal 100 Ohm impedance
- Shielding from EMI
- Short twist length for better crosstalk performance



PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)
7271.00424.S1R	4	0.26	30
7271.01224.S1R	12	0.35	60
7271.01624.S1R	16	0.39	75
7271.02524.S1R	25	0.48	109
7271.02824.S1R	28	0.51	132
7271.05024.S1R	50	0.65	207

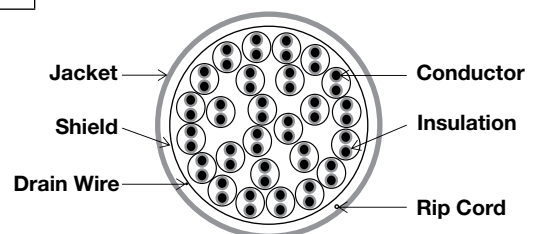
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Electrical Characteristics

	24 AWG	Frequency	Attenuation dB/100m	NEXT dB
DC Resistance (max) Ohms/100m (328ft) @ 20°C	9.38	0.772 MHz	1.9	56
Mutual Capacitance (max) PF/ft @ 1 kHz	17	1 MHz	2.2	55
Insulation Resistance (min) (mohms - 1000')	500	4 MHz	4.1	45
Characteristic Impedance Frequency (f): 1.0 MHz	Ohms 100 ± 15	8 MHz	5.0	41
Capacitance Unbalance pF/100m	Pr to Pr 70 (max) Pr to Ground 330 (max)	10 MHz	5.7	39
		16 MHz	7.2	35

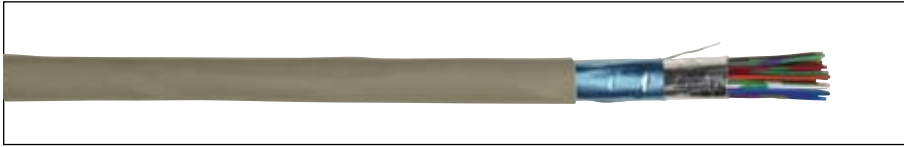
Color Code Chart

PAIR NO.	TIP	RING	PAIR NO.	TIP	RING
1	White	Blue	14	Black	Brown
2	White	Orange	15	Black	Slate
3	White	Green	16	Yellow	Blue
4	White	Brown	17	Yellow	Orange
5	White	Slate	18	Yellow	Green
6	Red	Blue	19	Yellow	Brown
7	Red	Orange	20	Yellow	Slate
8	Red	Green	21	Violet	Blue
9	Red	Brown	22	Violet	Orange
10	Red	Slate	23	Violet	Green
11	Black	Blue	24	Violet	Brown
12	Black	Orange	25	Violet	Slate
13	Black	Green			



Tinned Inside Wire

24 AWG Dual Shielded • Spec. 4781 • Type CMR • 1107B Series

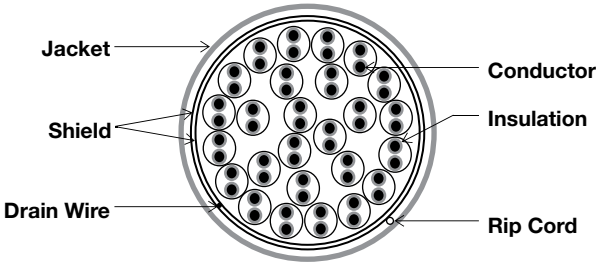


PRODUCT NUMBER	PAIRS	O.D. (INCHES)	WEIGHT (LBS/KFT)	PACKAGING
2117038	25	0.40	93	RL

Data subject to change without notice.

Electrical Characteristics

	24 AWG
DC Resistance (max) Ohms/kft @ 20°C	31.5
Mutual Capacitance (nom) pF/ft @ 1 kHz	22
Attenuation (nom) db/1000ft @ 1 MHz	9.0
Characteristic Impedance (nom) Ohms @ 1 MHz	85 ± 15



Product Construction

Conductors:

- 24 AWG solid tinned annealed copper

Insulation:

- Semi-rigid flame-retardant PVC

Color Code:

- See Color Code Chart on page 65

Shield:

- Two polyester-backed aluminum foil shields

Drain Wire:

- 24 AWG solid tinned copper drain wire is placed between the two shields

Rip Cord:

- Applied longitudinally under jacket

Jacket:

- Gray flame-retardant PVC
- Sequential footage markings

Packaging

- 1000' reel (RL)
- Bulk reels available upon request

Applications

- T1/DS1
- For central office equipment cabling interconnecting (DS1) digital equipment to digital cross-connects (DSX) and computers in riser and general horizontal applications

Compliances

- UL and c(UL) Type CMR



Dual Insulated ALVYN Sheathed Terminating Cable

Terminating Cable for Voice and Digital Transmission • Spec. 4513 • Type CMR

Bell System Type: ABAM (22 AWG) • ABMM (24 AWG)

Product Construction

Conductors:

- 22 and 24 AWG solid tinned copper conductors

Insulation:

- Inner layer of polyethylene covered by an outer layer of flame-retardant PVC
- 22 AWG
 - Primary insulation, Nominal O.D. = 0.039"
 - Secondary insulation, Nominal O.D. = 0.048"
- 24 AWG
 - Primary insulation, Nominal O.D. = 0.032"
 - Secondary insulation, Nominal O.D. = 0.039"

Color Code:

- See Color Code Chart on page 65

Core Wrap:

- Polyester core wrap

Shield:

- 0.008" corrugated polymer-coated aluminum bonded to jacket

Jacket:

- Dark gray flame-retardant PVC
- Sequential footage markings

Packaging

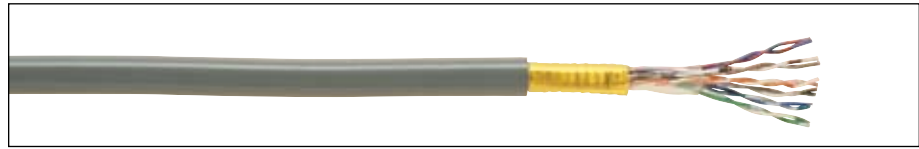
- 1000' reel (RL)
- Bulk reels are available upon request

Applications

- Voice
- T1
- Suitable for voice and carrier transmission between the outside plant entrance cables to station protector frames and to carrier equipment bays and for use in riser applications

Compliances

- REA PE-87
- GTS-8510
- Bellcore Specification TR-TSY-000141
- TIA/EIA 568B.2 (Category 3)
- UL and c(UL) Type CMR

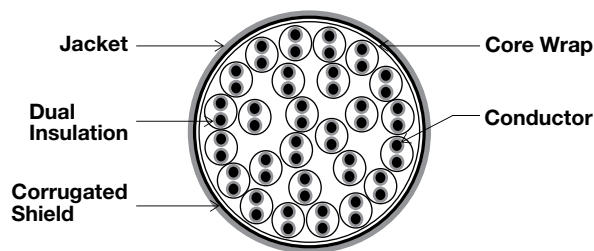


PRODUCT NUMBER	PAIRS	AWG	O.D. (INCHES)	WEIGHT (LBS/KFT)
7043938	6	22	0.45	80
7043946	12	22	0.50	120
7043953	16	22	0.58	150
7043961	25	22	0.67	230
2110020	28	22	0.74	250
7044001	30	22	0.75	265
7044118	50	22	0.93	410
7043979	75	22	1.10	570
7043987	100	22	1.20	730
7043995	200	22	1.60	1350
2110021	300	22	1.90	1970
2110022	600	22	2.80	2590
2110013	25	24	0.56	150
2110014	50	24	0.74	255
2110015	100	24	1.00	460
2110016	200	24	1.30	860
2110017	300	24	1.50	1240
2110023	400	24	1.80	1750
2110018	600	24	2.20	2440
2110019	900	24	2.70	3190

Data subject to change without notice.

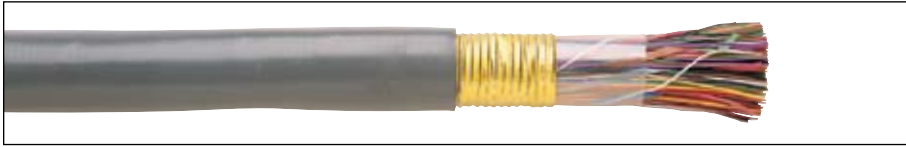
Electrical Characteristics

	24 AWG 6-600 pr.	24 AWG 25-900 pr.	Frequency	Attenuation dB/100m (max)	NEXT dB
DC Resistance (max) Ohms/1000ft @ 20°C	17.2	27.3	0.772 MHz	2.2	43
			1 MHz	2.6	41
Insulation Resistance (min) Megohm - 1000 @ 23°C	5000	5000	4 MHz	5.6	32
			8 MHz	8.5	28
			10 MHz	9.7	26
Mutual Capacitance (nom) nF/mile @ 1 kHz pF/ft @ 1 kHz	83	83	16 MHz	13.1	23
	16	16			
Characteristic Impedance (nom) Ohms @ 1 MHz	100	100			



Foam Skin ALVYN Riser

Riser Cable For Voice and Digital Transmission
 Spec. 2507 • Type CMR • Bell System Type: ARMM (24 AWG) • ARTM (26 AWG)



PRODUCT NUMBER	PAIRS	AWG	O.D. (INCHES)	WEIGHT (LBS/MFT)	STANDARD LENGTH (FT)
2019000	25	24	0.53	142	5000
2019001	50	24	0.66	234	5000
7507601	100	24	0.85	410	5000
7507619	200	24	1.20	760	2500
7507627	300	24	1.40	1105	2500
7507635	400	24	1.50	1445	2500
7507643	600	24	1.90	2150	1250
7507650	900	24	2.20	3170	1250
7507668	1200	24	2.60	4185	1000
7515018	1500	24	2.90	5185	1000
7507676	1800	24	3.10	6185	800
2019005	50	26	0.56	165	5000
2019003	100	26	0.71	280	5000
2019004	200	26	0.92	495	5000
7507544	300	26	1.10	710	3000
7507551	400	26	1.20	930	3000
7507569	600	26	1.50	1365	1000
7507577	900	26	1.80	2025	1000
7507536	1200	26	2.00	2665	1000
7515026	1500	26	2.20	3285	1000
7507585	1800	26	2.40	3915	1000
7515034	2100	26	2.60	4540	1000
7507502	2400	26	2.80	5160	1000
7507510	2700	26	3.00	5790	900
7507593	3000	26	3.10	6410	900
7507528	3600	26	3.40	7650	800

Data subject to change without notice.

Electrical Characteristics

	24 AWG	26 AWG	Frequency	Attenuation dB/100m (max)	NEXT dB
DC Resistance (max) Ohms/1000ft @ 20°C	27.3	43.9	0.772 MHz	2.2	43
			1 MHz	2.6	41
			4 MHz	5.6	32
Mutual Capacitance (nom) NF/mile @ 1 kHz	83	83	8 MHz	8.5	28
			10 MHz	9.7	26
			16 MHz	13.1	23

Product Construction

Conductors:

- 24 and 26 AWG solid bare annealed copper

Insulation:

- Dual insulation consisting of an inner layer of foamed polyolefin surrounded by a solid PVC skin
- 22 AWG
 - Primary insulation, Nominal O.D. = 0.039"
 - Secondary insulation, Nominal O.D. = 0.044"
- 24 AWG
 - Primary insulation, Nominal O.D. = 0.031"
 - Secondary insulation, Nominal O.D. = 0.035"
- 26 AWG
 - Primary insulation, Nominal O.D. = 0.023"
 - Secondary insulation, Nominal O.D. = 0.027"

Color Code:

- See Color Code Chart on page 65, except no bandmarking, only solid colors

Core Wrap:

- Non-hygroscopic dielectric tape applied longitudinally with an overlap

Shield:

- 0.008" corrugated, adhesive-coated aluminum bonded to jacket

Jacket:

- Gray flame-retardant PVC jacket bonded to the coated aluminum

Packaging

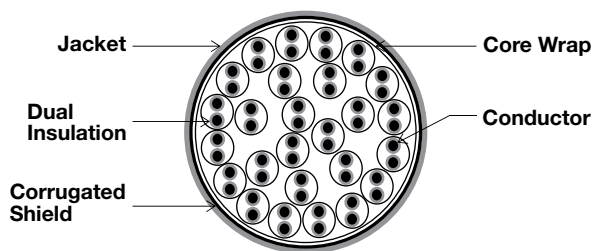
- Standard lengths are shipped on returnable steel reels or on non-returnable wood reels when requested
- ARAM (22 AWG) is available upon request

Applications

- Intended primarily for placement in vertical risers in buildings and may be used in general horizontal applications
- Designed for Voice and Carrier Transmission between the station protector frames and other equipment terminals

Compliances

- TIA/EIA 568B.2 (Category 3 for 24 AWG only)
- Bellcore Specification TR-TSY-000111
- UL and c(UL) Type CMR



Alarm and Security Solutions Guide

CAROL BRAND

ELECTRONICS WIRE & CABLE

General Cable's Carol® Brand is the right solution for alarm and security wire and cable. Carol offers as broad an offering as anyone in the industry. Our Alarm and Security Solutions Guide makes it easier to specify and sell the right cables for every application in this ever-growing market.

Our alarm and security cables offer solutions in all these major security applications markets, including:

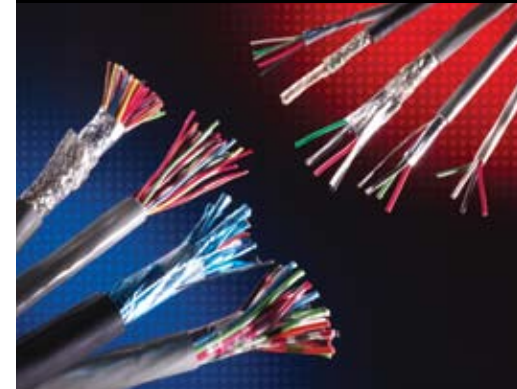
- Commercial Buildings
- Residential Housing
- Business and Office Campus Environments
- Public Stadiums and Arenas
- Airport, Train, Bus and Other Transportation Hubs
- Schools, Colleges and Universities

The General Cable Alarm and Security Solutions Guide provides a quick and easy reference tool to identify every Carol Brand cable for the appropriate alarm and security application. Whatever the security application need calls for, we have a cable that delivers the performance you need.

There are five basic areas where alarm and security cables are used. General Cable has the right production to serve every application, including:

- Access Control
- Video Surveillance/CCTV
- Data Communications
- Fire Alarm and Life Safety
- Home Theater and Burglar Alarms

Access Control



Applications:
Door Controllers
Prox Sensors
Key Pads
Card Readers
Gate Access

Cable Solution	Description
E2002S	22/2 Conductor Shielded Riser
E2004S	22/4 Conductor Shielded Riser
E2006S	22/6 Conductor Shielded Riser
E2008S	22/8 Conductor Shielded Riser
E2010S	22/10 Conductor Shielded Riser
E2012S	22/12 Conductor Shielded Riser
E2102S	22/2 Conductor Shielded Plenum
E2104S	22/4 Conductor Shielded Plenum
E2106S	22/6 Conductor Shielded Plenum
E2108S	22/8 Conductor Shielded Plenum
E2032S	18/2 Conductor Shielded Riser
E2034S	18/4 Conductor Shielded Riser
E2036S	18/6 Conductor Shielded Riser
E2038S	18/8 Conductor Shielded Riser
E2202S	18/2 Conductor Shielded Plenum
E2204S	18/4 Conductor Shielded Plenum
E2206S	18/6 Conductor Shielded Plenum
E2208S	18/8 Conductor Shielded Plenum

Video Surveillance/CCTV



Applications:
CCTV
Satellites
Digital Video
Analog Video
Switchers/Multiplexers
Digital Recorders

Cable Solution	Description
395014	RG 6/U 18/1 SBC Quad Shield 60%/40% CMR
495025	RG 6/U 18 AWG SBC 95% Dual Foil TC Braid CMP Plenum
495035	RG 6/U 18 AWG SBC 95% BC CMP Plenum
C3528	RG 11 CCS/Foil/60%/AL Braid CATV/CMP Plenum
C5039	RG 11 CCS/Foil/60%/AL Braid CATV/CM
C5043	RG 11/U 14/1 Burial FL 60% AL
C5044	RG 11/U 14/1 Quad Shield CL2/CM
395058	RG 11 SBC/95% BC Braid CM
495015	RG 11 SBC/95% BC Braid CMP Plenum
C1103	RG 59 BC/95% BC Braid CATV/CM
C1135	RG 59/U 22 AWG 95% BC Braid CM
C1142	RG 59 SBC/95% BC Braid CATV/CM
C3500	RG 59 CCS/95% BC Braid Plenum
C3526	RG 59/U CCS AMA/80% AL Braid CLP2/CMP
C8025	RG 59/U STR (7/30) BC/95% + 22/2 SH Pair CCTV/CM
C8027	RG 59 + 18/2 Shielded CATV/CM
C8028	RG 59 + 18/2 Unshielded CATV/CM
C8030	RG 59/U SBC/95% + 18/2 Unshielded Pair CCTV Plenum
395025	RG 59 SBC/Foil/95% TC Braid CMR
395031	RG 59 Single/Miniature/Foil/95% TC Braid CMR
495023	RG 59/U SBC/Foil/95% TC Braid CMP Plenum
495028	RG 59 SBC/95% BC Braid CMP Plenum

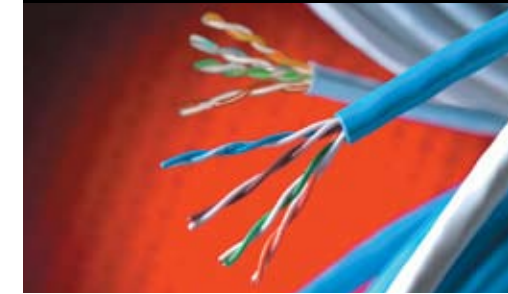
Cable Solution	Description
C3521	RG 6/U 18/1 FL + 95% TC CL2P
C3523	RG 6 SBC/Foil/61% TC Braid Plenum
C3524	RG 6 CCS/Foil/60% AL Braid Plenum
C3525	RG 6 CCS/Quad 60/40% AL Braid Plenum
C5761	RG 6 SBC/Foil/95% BC Braid CATV/CM
C5775	RG 6 CCS/Foil/60% AL Braid CATV/CM
C5785	RG 6 CCS/Quad 60/40% AL Braid CATV/CM
C5886	RG 6 CCS/Foil/60% AL Braid CATV/CMR
C5889	RG 6 CCS/Quad 60/40% AL Braid CATV/CMR
C5910	RG 6 CCS/Foil/90% AL Braid CATV/CM
C8029	RG 6 + 18/2 Unshielded CATV/CM
C8031	RG 6/U SBC/95% + 18/2 Unshielded Pair CMP Plenum
395011	RG 6 SBC/Foil/95% TC Braid CMR

General Cable

CAROL BRAND

Alarm and Security Solutions Guide

Data Communications



Applications:
Telephones
Cat 5e and 6 Connections
Networking Workstations
Video Conferencing
Telco Closets
Home Automation

Cable Solution	Description
2133009	Cat 3 24/2 Pair Riser
2133017	Cat 3 24/4 Pair Riser
2131243	Cat 3 24/2 Pair Plenum
2131245	Cat 3 24/4 Pair Plenum
5133299e	Cat 5e 24/4 Pair Riser – GenSPEED® 5000
5131278e	Cat 5e 24/4 Pair Plenum – GenSPEED® 5000
7133764	Cat 6 24/4 Pair Riser – GenSPEED® 6000
7131760	Cat 6 24/4 Pair Plenum – GenSPEED® 6000
2133692e	2 RG 6 CCS/Quad/2 Cat 5e Overall Jacket – CM Rated

Fire Alarm and Life Safety



Applications:
Smoke Detectors
Strobes/Sirens
Pull Stations
Microprocessor/Addressable Controlled Systems

Cable Solution	Description
E1502S	18/2 Conductor Riser FPLR
E1504S	18/4 Conductor Riser FPLR
E1522S	14/2 Conductor Riser FPLR
E1524S	14/4 Conductor Riser FPLR
E2502S	18/2 Conductor Shielded Riser FPLR
E2504S	18/4 Conductor Shielded Riser FPLR
E2532S	14/2 Conductor Shielded Riser FPLR
E2534S	14/4 Conductor Shielded Riser FPLR
E3502S	18/2 Conductor Plenum FPLP
E3504S	18/4 Conductor Plenum FPLP
E3522S	14/2 Conductor Plenum FPLP
E3524S	14/4 Conductor Plenum FPLP
E3602S	18/2 Conductor Shielded Plenum FPLP
E3604S	18/4 Conductor Shielded Plenum FPLP
E3622S	14/2 Conductor Shielded Plenum FPLP
E3624S	14/4 Conductor Shielded Plenum FPLP

Home Theater and Burglar Alarms



Applications:
Intercoms
PA Systems
Sound Systems
Emergency Phones
Speakers
Burglar Alarms
Home Theater

Cable Solution	Description
C1000	Command Series Twisted Pair Speaker, 22/2, 7x30 Stranding, 500' Reels
C1001	Command Series Twisted Pair Speaker, 20/2, 7x28 Stranding, 500' Reels
C1002	Command Series Twisted Pair Speaker, 18/2, 7x26 Stranding, 500' Reels
C1003	Command Series Twisted Pair Speaker, 16/2, 19x29 Stranding, 500' Reels
C1004	Command Series Twisted Pair Speaker, 14/2, 42x30 Stranding, 500' Reels
C1005	Command Series Twisted Pair Speaker, 12/2, 65x30 Stranding, 500' Reels
C1362	22/2 Conductor Zip (not for in-wall use)
C1357	18/2 Conductor Zip (not for in-wall use)
C1458	16/2 Conductor Zip CL2
C1461	14/2 Conductor Zip CL2
C1463	12/2 Conductor Zip CL2
C1702	14/2 Command Series Home Grade Speaker
C1703	14/4 Command Series Home Grade Speaker
C1704	16/2 Command Series Home Grade Speaker
C1705	16/4 Command Series Home Grade Speaker
C1800	Command Series "High Def" Speaker Type NEC, 12/2, 105x32 Stranding, 500' Reels
C1801	Command Series "High Def" Speaker Type NEC, 12/4, 105x32 Stranding, 500' Reels
C1802	Command Series "High Def" Speaker Type NEC, 14/2, 105x34 Stranding, 500' Boxes
C1803	Command Series "High Def" Speaker Type NEC, 14/4, 105x34 Stranding, 500' Reels
C1804	Command Series "High Def" Speaker Type NEC, 16/2, 65x34 Stranding, 500' Boxes
C1805	Command Series "High Def" Speaker Type NEC, 16/4, 65x34 Stranding, 500' Boxes
395031X3	23/3 Command Series RGB Cables, Solid BC, Foam PE, Dual Foil + 95% TC Braid
395031X5	23/5 Command Series RGB Cables, Solid BC, Foam PE, Dual Foil + 95% TC Braid

Cable Solution	Description
E1002S	22/2 Conductor Riser
E1004S	22/4 Conductor Riser
C4408	22/2 Solid Conductor CMR/CMX
C4408ST	22/2 Stranded Conductor CMR/CMX
C4412	22/4 Solid Conductor Solid CMR/CMX
C4412ST	22/4 Stranded Conductor CMR/CMX
C4408.86.XX	22/2 Solid Conductor CM/CMX*
C4408ST.86.XX	22/2 Stranded Conductor CM/CMX*
C4412.86.XX	22/4 Solid Conductor CM/CMX*
C4412ST.86.XX	22/4 Stranded Conductor CM/CMX*
E1006S	22/6 Conductor Riser
E1008S	22/8 Conductor Riser
E1032S	18/2 Conductor Riser
E1034S	18/4 Conductor Riser
E1042S	16/2 Conductor Riser
E1044S	16/4 Conductor Riser
E1052S	14/2 Conductor Riser
E1054S	14/4 Conductor Riser
E1062S	12/2 Conductor Riser
E1064S	12/4 Conductor Riser

*Available Colors for Burglar Alarm Coil Packs
XX = White Gray Green Beige Yellow Dark Blue

Burglar Alarm Cable in 500' Coil Packs*

Oxygen-Free + ETP High-Performance Home Theater Cables

CAROL BRAND

General Cable

Coaxial Cable Solutions Guide

General Cable offers a complete line of Carol® Brand Coaxial Cables for today's sophisticated high-speed, wide-bandwidth electronics products that run over long distances with minimal signal loss or degradation.

General Cable has the right coaxial cable to serve every application, including:

- CATV/MATV/DB
- HDTV/SDI
- CCTV

The General Cable Coaxial Cable Solutions Guide is a quick-reference tool to make it easier to specify and sell the right cable for the required application—residential, commercial, entertainment and security. Whatever the application calls for, we have a coaxial cable that delivers the performance your customers need.



CATV/MATV/DBS



Broadband signal, 5MHz–3GHz, VHF/UHF, is traditionally transmitted as an analog signal received directly off air (MATV) or delivered as a community access television (CATV) service and uses a 75 Ohm system.

Recommended Coaxial Cable Construction: Copper clad steel (CCS) conductor with a foam polyethylene or Teflon* core, an aluminum/Mylar* foil, a minimum of 60% braid, which is typically aluminum (AL) for this application, and a PVC jacket.

For home use, a CM rated coax should be used. A commercial application may require a National Electrical Code (NEC 800 or 725) Riser (CMR) or Plenum (CMP) rated cable. Economical cable solutions use low smoke PVC (75°C) jackets. Teflon* (FEP) and other fluoropolymer materials (150°C) may be used to provide a more durable and higher-temperature cable alternative.

It is a common misconception that RG 6 coax is "better" than RG 59. While RG 6 has become the industry standard and is an excellent value, it is a larger cable than RG 59. RG 6 allows the same signal level to be delivered a greater distance. This is expressed as a decibel value at particular frequencies. For example, at 100 MHz, General Cable's Carol Brand part number C5775 RG 6 coax cable has an attenuation value of 2.05 db/100'. A similar construction Carol Brand part number C5782 RG 59 coax cable exhibits an attenuation value (loss) at 100 MHz frequency of 2.70db/100'. This may or may not be significant, depending on the input signal level and distance of the cable run.

For a longer cable run, or if the coax cable is planned for use as the backbone in a system, Carol Brand part number C5039 RG 11 coax cable should be used, because its attenuation at 100 MHz frequency is 1.30 db/100'.

CATV/MATV/DBS RG 59, RG 6 and RG 11 Ratings

Coax Solution	Carol	Belden	Genesis	West Penn
RG 6 CCS/Foil/60% AL Braid CATV/CM	C5775	9116/1829A	5303	841
RG 6 CCS/Foil/60% AL Braid CATVR/CMR	C5886	9116R	—	—
RG 6 CCS/Quad/Foil/60%/40% AL Braid CATV/CM	C5785	1189A	5307	Q841
RG 6 CCS/Quad/Foil/60%/40% AL Braid CATVR/CMR	C5889	1884A	—	—
RG 6 CCS/Foil/60% AL Braid CMP - Plenum	C3524	9116P	—	25841
RG 6 CCS/Quad/Foil/60%/40% AL Braid CMP - Plenum	C3525	1189AP	—	25Q841
RG 11 CCS/Foil/60% AL Braid CATV/CM	C5039	1525A	—	—
RG 11 CCS/Foil/60% AL Braid CL2P/CMP - Plenum	C3528	1523AP	—	—

*Note: DuPont™ trademark

HDTV/SDI



A DTV signal is a television signal provided in a digital form. Data bits, like in a computer, provide a dramatically better picture and better sound quality called High Definition TV (HDTV). HDTV is the highest quality of DTV and is only one of the available formats. In addition to enhanced picture quality, the DTV signal allows several program streams (multicasting) on one channel, providing more program potential, as well as interactive services.

Serial Digital Interface (SDI) is the standard for digital video transmission over coaxial cable. The SMPTE 295M standard provides maximum distances (300 meters; 140 meters for High Definition), typically at 270 Mbps with 540 Mbps possible over a coaxial cable.

Recommended Coax Cable Construction: Cable providing signal to and within the home/building will continue to be CCS construction (C5775, C5785). Cables with SBC conductors (395011, 495025) are recommended for the interconnect between the decoder box and other electronic devices (TV, DVD, DVR, CD, Bluray).

HDTV/SDI—Interconnect Cables RG 59, RG 6 and RG 11 Ratings

Coax Solution	Carol	Belden	Genesis	West Penn
RG 59 SBC/Foil/95% TC Braid CMR	395025	1505A	5361	819
RG 59 SBC/Miniature/Foil/95% TC Braid CMR - Single RGB - Overall jacket containing 3 x 395031 RGB - Overall jacket containing 5 x 395031	395031 395031X3 395031X5	1855A — —	— — —	— — —
RG 59 SBC/Foil/95% TC Braid CMP - Plenum	495023	1506A	—	—
RG 6 SBC/Foil/95% TC Braid CMR	395011	1694A	—	—
RG 6 SBC/Foil/95% TC Braid CMP - Plenum	495025	1695A	—	—
RG 11 SBC/Foil/95% TC Braid CMR	395029	7731A	—	—
RG 11 SBC/Foil/95% TC Braid CMP - Plenum	495027	7732A	—	—

CCTV



Closed Circuit TV (CCTV) signals are typically lower-frequency analog signals. Attenuation increases as frequency increases, therefore lower baseband signals are able to travel longer distances on an RG 59 type coaxial cable than a higher-frequency television signal. This is why RG 59 is the most common coax for CCTV. It is becoming more common for Unshielded Twisted Pair (UTP) products, like Category 5e and 6 cables, to be used for Closed Circuit over Twisted Pair (CCTP) or Web-enabled cameras implemented over a Power over Ethernet network architecture; however, these solutions require the use of specialized equipment.

Recommended Coax Cable Construction: Solid bare copper (SBC) conductor and a bare copper (BC) braid shield with coverage of 90-95% to minimize signal loss of both the horizontal and vertical sync signals. Stranded conductors are recommended for pan, zoom, tilt (PZT) cameras.

CCTV RG 59 and RG 11 Ratings

Coax Solution	Carol	Belden	Genesis	West Penn
RG 59 SBC/95% BC Braid CM	C1142	543945	5001	—
RG 59 Stranded (7/30) BC/95% BC Braid CM	C1103	9259	—	—
RG 59 Stranded (7/30) BC/95% BC Braid + 22 AWG (7/30) Shielded Pair CM	C8025	9265	—	—
RG 59 SBC/95% BC Braid + 18 AWG (7/26) Unshielded Pair CM	C8028	549945	—	—
RG 59 SBC/95% BC Braid + 18 AWG (7/26) Unshielded Pair CMP - Plenum	C8030	649948	—	—
RG 59 SBC/95% BC Braid CMP - Plenum	495028	643948	5351	25815
RG 11 SBC/95% BC Braid CM	395058	513945	—	811
RG 11 SBC/95% BC Braid CMP - Plenum	495015	613948	—	—
RG 6 BC/95% BC Braid CMP - Plenum	495035	—	—	—

*Abbreviation Key

AL - aluminum SBC - solid bare copper CCS - copper clad steel BC - bare copper TC - tinned copper

Residential Sound, Security, Communication and Automation Solutions Guide



**ELECTRONICS
WIRE & CABLE**

General Cable Carol® Brand wire and cable products are the right solution for all home sound, security, communication and automation applications. Carol offers a broad offering of electronic products to meet all residential applications, including:

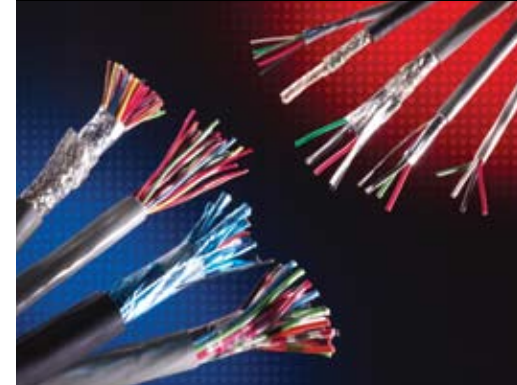
- Home Automation Controls
- Alarm and Security Systems
- Data Communications Networking
- Home Entertainment Systems

Whatever the need calls for, General Cable has a cable that delivers the performance both you and your customers require for their specific needs.

The General Cable Residential Sound, Security, Communication and Automation Solutions Guide provides a quick and easy reference to identify every Carol Brand cable for the appropriate residential sound and security application.

Remember, you can always *Demand Better and Expect More* with General Cable Carol Brand Electronic Cables. We manufacture over 1,300 standard electronic cables that we can ship direct from stock, and we have the technical staff and design expertise to meet any custom cable requirement.

Home Automation Controls



APPLICATIONS	Cable Solution	Description	
Home Run Cables	CR5.30.02	Cat 5e 24/4 Pair Riser, 1000' PPC, WH	
	CR5.30.07	Cat 5e 24/4 Pair Riser, 1000' PPC, DK BL	
	CR5.30.10	Cat 5e 24/4 Pair Riser, 1000' PPC, GY	
	CR6.30.02	Cat 6 24/4 Pair Riser, 1000' PPC, WH	
	CR6.30.07	Cat 6 24/4 Pair Riser, 1000' PPC, DK BL	
	CR6.30.10	Cat 6 24/4 Pair Riser, 1000' PPC, GY	
	C5775	RG 6 CCS/Foil/60% AL Braid CATV/CM	
	C5785	RG 6 CCS/Quad/60/40% AL Braid CATV/CM	
	Lighting Controls	E1032S	18/2 Conductor Riser
		E1034S	18/4 Conductor Riser
E1042S		16/2 Conductor Riser	
E1044S		16/4 Conductor Riser	
E2032S		18/2 Conductor Shielded Riser	
E2034S		18/4 Conductor Shielded Riser	
E2042S		16/2 Conductor Shielded Riser	
E2044S		16/4 Conductor Shielded Riser	
E1052S		14/2 Conductor Riser	

Alarm and Security Systems



APPLICATIONS	Cable Solution	Description	
Smoke Detection	E1502S	18/2 Conductor Riser FPLR	
	E1504S	18/4 Conductor Riser FPLR	
	E1512S	16/2 Conductor Riser FPLR	
	E1514S	16/4 Conductor Riser FPLR	
	E1522S	14/2 Conductor Riser FPLR	
	E1532S	12/2 Conductor Riser FPLR	
	Strobes & Sirens	E1512S	16/2 Conductor Riser FPLR
		E1522S	14/2 Conductor Riser FPLR
		E1532S	12/2 Conductor Riser FPLR
		E1032S	18/2 Conductor Riser CMR/CL3R
E1042S		16/2 Conductor Riser CMR/CL3R	
E1052S		14/2 Conductor Riser CL3R	
Door Controllers		E2030S	18/2 Conductor Shielded Riser CMR/CL3R Solid
		E2032S	18/2 Conductor Shielded Riser CMR/CL3R Stranded
		E2034S	18/4 Conductor Shielded Riser CMR/CL3R
Video Surveillance		C8030	RG 59/U + 18 AWG Unshielded Pair
	C8029	RG 6 + 18 AWG Pair Siamese	
	C8027	RG 59 + 18 AWG Shielded Pair Siamese	
	C8028	RG 59 + 18 AWG Pair Siamese	
	C1103	RG 59 7/30 BC/95% BC Braid CATV/CM	
	C1142	RG 59 Solid BC/95% BC Braid CATV/CM	
	C5R004	Cat 5e 24/4 Pair Riser	
	Burglar Alarms	C4408	22/2 Conductor CMR/CMX
		C4408ST	22/2 Conductor Stranded CMR/CMX
		C4412	22/4 Conductor CMR/CMX
C4412ST		22/2 Conductor Stranded CMR/CMX	
C4408.86.XX		22/2 Solid Conductor CM/CMX* 500' Coil Packs	
C4408ST.86.XX		22/2 Stranded Conductor CM/CMX* 500' Coil Packs	
C4412.86.XX		22/4 Solid Conductor CM/CMX* 500' Coil Packs	
C4412ST.86.XX		22/4 Stranded Conductor CM/CMX* 500' Coil Packs	
E1032S		18/2 Conductor Riser CMR/CL3R	
E1034S		18/4 Conductor Riser CMR/CL3R	
E2002S	22/2 Conductor Shielded Riser		
E2004S	22/4 Conductor Shielded Riser		
E2032S	18/2 Conductor Shielded Riser CMR/CL3R		
E2034S	18/4 Conductor Shielded Riser CMR/CL3R		
C5R004	Cat 5e 24/4 Pair Riser		

Burglar Alarm Cable in 500' Coil Packs*

*Available Colors for Burglar Alarm Coil Packs
XX = White Gray Green Beige Yellow Dark Blue



Residential Sound, Security, Communication and Automation Solutions Guide

Data Communications Networking



APPLICATIONS	Cable Solution	Description
Cat 3, 5e & 6 Connections	C3R002	Cat 3 24/2 Pair Riser
	C3R004	Cat 3 24/4 Pair Riser
	C4413	Cat 3 24/2 Pair Indoor/Outdoor
	C5R004	Cat 5e 24/4 Pair Riser
	C6R004	Cat 6 24/4 Pair Riser

Home Entertainment Systems



APPLICATIONS	Cable Solution	Description
CCTV* (cont.)	495015	RG 11/U Serial Digital Interface (SDI), Plenum Rated
	495035	RG 6/U Multi-Channel Digital/Precision, Plenum Rated
	395014	RG 6/U Broadband Quad Shield, Riser Rated
	C5R004	Cat 5e 24/4 Pair Riser
Digital Video*	C6R004	Cat 6 24/4 Pair Riser
	C5814	RG 6 SBC/Foil/95% TC Braid CATV/CM
	C5920	RG 6 CCS/Quad 90/90% AL Braid CATV/CM
	C5775	RG 6 CCS/Foil/60% AL Braid CATV/CM
Cable Modem/Broadband*	C5785	RG 6 CCS/Quad 60/40% AL Braid CATV/CM
	C6R004	Cat 6 24/4 Pair Riser
	C5775	RG 6 CCS/Foil/60% AL Braid CATV/CM
	C5785	RG 6 CCS/Quad 60/40% AL Braid CATV/CM
Audio Systems	C5920	RG 6 CCS/Quad 90/90% AL Braid CATV/CM
	C6R004	Cat 6 24/4 Pair Riser
	C1357	18/2 Conductor Zip (not for in-wall use)
	C1458	16/2 Conductor Zip CL2
	C1461	14/2 Conductor Zip CL2
	C1463	12/2 Conductor Zip CL2
	C1704	16/2 Conductor High Strand Speaker Cable CL3
	C1705	16/4 Conductor High Strand Speaker Cable CL3
	C1702	14/2 Conductor High Strand Speaker Cable CL3
	C1703	14/4 Conductor High Strand Speaker Cable CL3
HDTV*	C5910	RG 6 18 AWG CCS/Foil/90% AL Braid CATV/CM
	C5920	RG 6 CCS Quad 90/90% AL Braid CATV/CM
	C5814	RG 6 SBC/Foil/95% TC Braid CATV/CM
	C5824	RG 6 SBC/Foil/60% AL Braid w/Ground CATV/CM
	C1704	16/2 Conductor High Strand Speaker Cable CL3
	C1705	16/4 Conductor High Strand Speaker Cable CL3
	C1702	14/2 Conductor High Strand Speaker Cable CL3
	C1703	14/4 Conductor High Strand Speaker Cable CL3
	395031X3	RG 59/U 3-Conductor Mini Serial Digital Interface (SDI), Precision Coax, Riser Rated
	395031X5	RG 59/U 5-Conductor Mini Serial Digital Interface (SDI), Precision Coax, Riser Rated
DBS*	495023	RG 59/U Serial Digital Interface (SDI), Precision Coax, Plenum Rated
	495025	RG 6/U Serial Digital Interface (SDI), Precision, Plenum Rated
	395011	RG 6/U Serial Digital Interface (SDI), Precision, Riser Rated
	395031	RG 59/U Serial Digital Interface (SDI), Precision Coax, Riser Rated
	C5814	RG 6 SBC/Foil/95% TC Braid CATV/CM
	C5822	RG 6 Dual CCS/Foil/60% AL Braid CATV/CM (Dual C5775)
	C5824	RG 6 SBC/Foil/60% AL Braid w/Ground CATV/CM
	C5826	RG 6 Dual SBC/Foil/60% AL Braid w/Ground CATV/CM (Dual C5824)
	C5920	RG 6 CCS/Quad 90/90% AL Braid CATV/CM

*Abbreviation Key

AL - aluminum	WH - white jacket
CCS - copper clad steel	DK BL - dark blue jacket
SBC - solid bare copper	GY - gray jacket
TC - tinned copper	PPC - Pull-Pac®

APPLICATIONS	Cable Solution	Description	
Intercoms	C4010	22/2 Pair CM	
	C4408	22/2 Conductor CMR/CMX	
	C6015	22/4 Pair CM	
	C6118	18/2 Pair CM	
	C6106	18/6 Pair CM	
	C4412	22/4 Conductor Intercom CMR/CMX Indoor/Outdoor	
	C4413	24/2 Pair Telephone Station CMR/CMX Indoor/Outdoor	
	Speakers	C1362	22/2 Conductor Zip (not for in-wall use)
		C1357	18/2 Conductor Zip (not for in-wall use)
		C1458	16/2 Conductor Zip CL2
C1461		14/2 Conductor Zip CL2	
C1463		12/2 Conductor Zip CL2	
Sound Systems	C1357	18/2 Conductor Zip (not for in-wall use)	
	C1358	16/2 Conductor Zip (not for in-wall use)	
	C1458	16/2 Conductor Zip CL2	
	C1461	14/2 Conductor Zip CL2	
	C1463	12/2 Conductor Zip CL2	
	C1800	12/2 Conductor Oxygen-Free High Definition	
	C1801	12/4 Conductor Oxygen-Free High Definition	
	C1802	14/2 Conductor Oxygen-Free High Definition	
	C1803	14/4 Conductor Oxygen-Free High Definition	
	C1804	16/2 Conductor Oxygen-Free High Definition	
CATV*	C1805	16/4 Conductor Oxygen-Free High Definition	
	C1707	18/4 Conductor High Strand Speaker Cable CL3	
	C1704	16/2 Conductor High Strand Speaker Cable CL3	
	C1705	16/4 Conductor High Strand Speaker Cable CL3	
	C1702	14/2 Conductor High Strand Speaker Cable CL3	
	C1703	14/4 Conductor High Strand Speaker Cable CL3	
	C3524	RG 6/U CCS/Foil/60% AL Braid CL2P/CMP	
	C3528	RG 11/U CCS/Foil/60% AL Braid CL2P/CMP	
	C5775	RG 6 CCS/Foil/60% AL Braid CATV/CM	
	C5785	RG 6 CCS/Quad 60/40% AL Braid CATV/CM	
CCTV*	C5814	RG 6 SBC/Foil/95% TC Braid CATV/CM	
	C1103	RG 59 Stranded BC/95% BC Braid CATV/CM	
	C1142	RG 59 Solid BC/95% BC Braid CATV/CM	
	C8029	RG 6 + 18/2 AWG Pair Siamese	
	C8030	RG 59/U + 18 AWG Unshielded Pair	
	495028	RG 59/U + Plenum Precision & Miniature Cable	
	395058	RG 11/U Serial Digital Interface (SDI), CM Rated	

Oxygen-Free + ETP High-Performance Home Theater Cables



Technical Information

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NEC and CSA Fire Resistance Levels

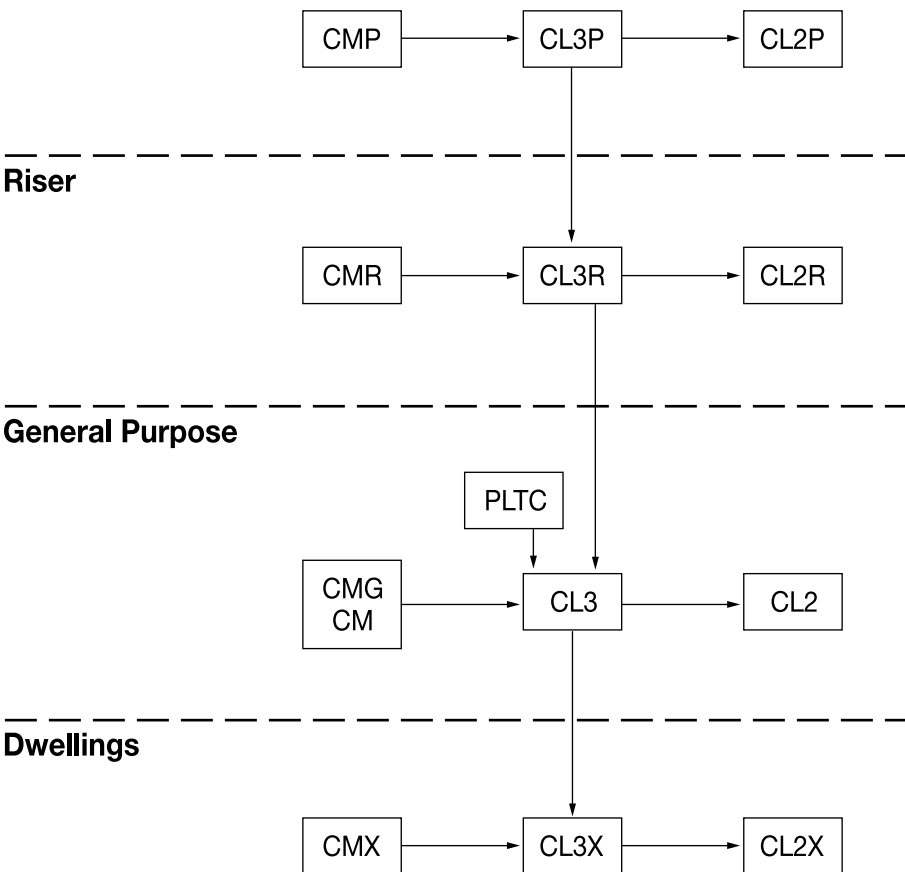
FIRE RESISTANCE LEVEL	TEST REQUIREMENT	NEC ARTICLE		
		800	725	760
(Highest) Plenum Cables	NFPA 262 (Steiner tunnel) CSA-FT6 (Steiner tunnel)	CMP	CL3P CL2P	FPLP
Riser Cables Multiple Floors	UL-1666 (Vertical Shaft) CSA-FT4 (Vertical Tray)	CMR	CL3R CL2R	FPLR
General Purpose Cables	UL-1581 (Vertical Tray) CSA-FT4 (Vertical Tray)	CMG	CL3 CL2	FPL
(Lowest) Residential Cables Restricted Use	UL-1581 VW-1 CSA-FT	CMX	CL3X CL2X	

Communications wire and cable for premise installations are in accordance with Article 800 and other applicable parts of the National Electrical Code (NEC), latest issue. Communications wire and cables for Canada are in accordance with the harmonized Canadian Standard Association C22.2 No. 214, Underwriters Laboratories UL 444, latest issue.

- Notes: 1. Cables with a higher fire resistance level may be substituted for those with a lower fire resistance level.
 2. Non-fire-rated outside plant telephone cables may not run outside of a rigid metal conduit more than 50 feet from the point of entrance into a building.
 3. Cables rated CMG or CM may be used in runs penetrating one floor (NEC 800-53).

Plenum

TYPE	DESCRIPTION
CM	Communications Wires and Cables
CL2 and CL3	Class 2 and Class 3 Remote-Control, Signaling and Power-Limited Cables
PLTC	Power-Limited Tray Cable



From 2005 NEC Handbook

A → **B** Cable A shall be permitted to be used in place of Cable B

Temperature Conversion Chart

To use this chart, find your known temperature (°F or °C) in the shaded column. If the known temperature is in °C and you wish to know its value in °F, move to the adjacent right-hand column. If the known temperature is in °F and you wish to know its value in °C, move to the adjacent left-hand column.

KNOWN TEMP °C			KNOWN TEMP °F			KNOWN TEMP °C			KNOWN TEMP °F			KNOWN TEMP °C			KNOWN TEMP °F		
-45.0	-49.0	-56.2	-17.2	1.0	33.8	10.6	51.0	123.8	38.3	101.0	213.8	66.1	151.0	303.8			
-43.9	-47.0	-52.6	-16.1	3.0	37.4	11.7	53.0	127.4	39.4	103.0	217.4	67.2	153.0	307.4			
-42.8	-45.0	-49.0	-15.0	5.0	41.0	12.8	55.0	131.0	40.6	105.0	221.0	68.3	155.0	311.0			
-41.7	-43.0	-45.4	-13.9	7.0	44.6	13.9	57.0	134.6	41.7	107.0	224.6	69.4	157.0	314.6			
-40.6	-41.0	-41.8	-12.8	9.0	48.2	15.0	59.0	138.2	42.8	109.0	228.2	70.6	159.0	318.2			
-39.4	-39.0	-38.2	-11.7	11.0	51.8	16.1	61.0	141.8	43.9	111.0	231.8	71.7	161.0	321.8			
-38.3	-37.0	-34.6	-10.6	13.0	55.4	17.2	63.0	145.4	45.0	113.0	235.4	72.8	163.0	325.4			
-37.2	-35.0	-31.0	-9.4	15.0	59.0	18.3	65.0	149.0	46.1	115.0	239.0	73.9	165.0	329.0			
-36.1	-33.0	-27.4	-8.3	17.0	62.6	19.4	67.0	152.6	47.2	117.0	242.6	75.0	167.0	332.6			
-35.0	-31.0	-23.8	-7.2	19.0	66.2	20.6	69.0	156.2	48.3	119.0	246.2	76.1	169.0	336.2			
-33.9	-29.0	-20.2	-6.1	21.0	69.8	21.7	71.0	159.8	49.4	121.0	249.8	77.2	171.0	339.8			
-32.8	-27.0	-16.6	-5.0	23.0	73.4	22.8	73.0	163.4	50.6	123.0	253.4	78.3	173.0	343.4			
-31.7	-25.0	-13.0	-3.9	25.0	77.0	23.9	75.0	167.0	51.7	125.0	257.0	79.4	175.0	347.0			
-30.6	-23.0	-9.4	-2.8	27.0	80.6	25.0	77.0	170.6	52.8	127.0	260.6	80.6	177.0	350.6			
-29.4	-21.0	-5.8	-1.7	29.0	84.2	26.1	79.0	174.2	53.9	129.0	264.2	81.7	179.0	354.2			
-28.3	-19.0	-2.2	-0.6	31.0	87.8	27.2	81.0	177.8	55.0	131.0	267.8	82.8	181.0	357.8			
-27.2	-17.0	-1.4	0.6	33.0	91.4	28.3	83.0	181.4	56.1	133.0	271.4	83.9	183.0	361.4			
-26.1	-15.0	5.0	1.7	35.0	95.0	29.4	85.0	185.0	57.2	135.0	275.0	85.0	185.0	365.0			
-25.0	-13.0	8.6	2.8	37.0	98.6	30.6	87.0	188.6	58.3	137.0	278.6	86.1	187.0	368.6			
-23.9	-11.0	12.2	3.9	39.0	102.2	31.7	89.0	192.2	59.4	139.0	282.2	87.2	189.0	372.2			
-22.8	-9.0	15.8	5.0	41.0	105.8	32.8	91.0	195.8	60.6	141.0	285.8	88.3	191.0	375.8			
-21.7	-7.0	19.4	6.1	43.0	109.4	33.9	93.0	199.4	61.7	143.0	289.4	89.4	193.0	379.4			
-20.6	-5.0	23.0	7.2	45.0	113.0	35.0	95.0	203.0	62.8	145.0	293.0	90.6	195.0	383.0			
-19.4	-3.0	26.6	8.3	47.0	116.6	36.1	97.0	206.6	63.9	147.0	296.6	91.7	197.0	386.6			
-18.3	-1.0	30.2	9.4	49.0	120.2	37.2	99.0	210.2	65.0	149.0	300.2	92.8	199.0	390.2			

Temperature Conversion Formulas	
°C =	$\frac{5}{9} (°F - 32)$
°F =	$(\frac{9}{5} \times °C) + 32$

Color Code Chart

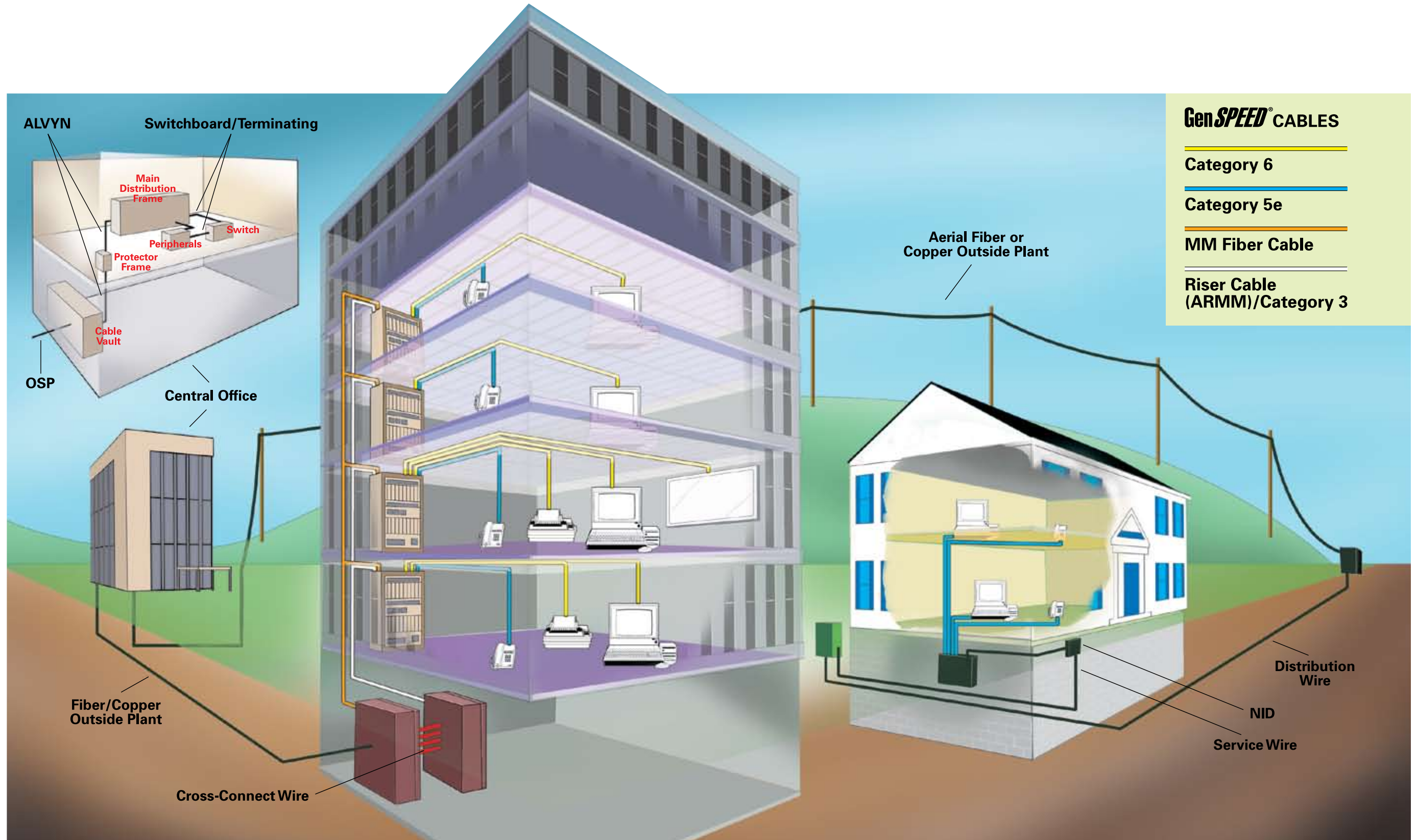
BINDER GROUP COLOR	PAIR COUNT
White-Blue	001-025
White-Orange	026-050
White-Green	051-075
White-Brown	076-100
White-Slate	101-125
Red-Blue	126-150
Red-Orange	151-175
Red-Green	176-200
Red-Brown	201-225
Red-Slate	226-250
Black-Blue	251-275
Black-Orange	276-300
Black-Green	301-325
Black-Brown	326-350
Black-Slate	351-375
Yellow-Blue	376-400
Yellow-Orange	401-425
Yellow-Green	426-450
Yellow-Brown	451-475
Yellow-Slate	476-500
Violet-Blue	501-525
Violet-Orange	526-550
Violet-Green	551-575
Violet-Brown	576-600

PAIR NO.	RING CONDUCTOR		TIP CONDUCTOR	
	INSULATION COLOR	BAND MARK	INSULATION COLOR	BAND MARK
1	Blue	White	White	Blue
2	Orange	White	White	Orange
3	Green	White	White	Green
4	Brown	White	White	Brown
5	Slate	White	White	Slate
6	Blue	Red	Red	Blue
7	Orange	Red	Red	Orange
8	Green	Red	Red	Green
9	Brown	Red	Red	Brown
10	Slate	Red	Red	Slate
11	Blue	Black	Black	Blue
12	Orange	Black	Black	Orange
13	Green	Black	Black	Green
14	Brown	Black	Black	Brown
15	Slate	Black	Black	Slate
16	Blue	Yellow	Yellow	Blue
17	Orange	Yellow	Yellow	Orange
18	Green	Yellow	Yellow	Green
19	Brown	Yellow	Yellow	Brown
20	Slate	Yellow	Yellow	Slate
21	Blue	Violet	Violet	Blue
22	Orange	Violet	Violet	Orange
23	Green	Violet	Violet	Green
24	Brown	Violet	Violet	Brown
25	Slate	Violet	Violet	Slate

Note: Bandmarking on the Ring Conductors is omitted on cables with 5 pairs or less.

Commercial Building Datacom/Topology

Commercial Building Datacom/Topology



Packaging Information

GenSPEED® Packaging Options:

- Pull-Pac® cartons offer wide-mouth pay-outs that enhance cable pulling while preventing tangling and kinks.
- Spool-Pac® cartons offer the option of pulling cable from spools packaged within a carton, which also prevents tangling.
- Spools are a packaging of choice for most category cables.
- Cartons have been designed and preprinted with pertinent information such as brand name, category of cable and cable type. Cartons are also labeled with pertinent product information such as UL listing, category of cable, cable type, color, footage and product description.
- The plenum cable cartons have a green color band for ease of identification, and the riser cartons are identified by a blue color band.
- All GenSPEED cables have the TRU-Mark® sequential footage marking system, from 1000 ft to 0 ft, to reduce waste on the job.

Other Communications Product Packaging Options:

- Standard Pull-Pac cartons, Spool-Pac cartons and Spools
- Sequential footage marking
- Cartons are labeled with pertinent product information such as UL listing, category of cable, cable type, color, footage and product description.



Conduit Capacities by Wire or Cable Diameter

	TRADE SIZES IN INCHES ¹											
	½	¾	1	1¼	1½	2	2½	3	3½	4	4½	5
I.D., Inches	.622	.824	1.049	1.380	1.610	2.067	2.469	3.068	3.548	4.026	4.506	5.047
O.D., Inches-Conduit	.840	1.05	1.315	1.660	1.900	2.375	2.875	3.500	4.000	4.500	5.000	5.563
Internal Area, Sq. In.	.304	.533	.864	1.496	2.036	3.356	4.788	7.393	9.887	12.730	15.947	20.006
Permissible Fill, Sq. In. ²	.12	.21	.35	.60	.81	1.34	1.92	2.96	3.95	5.09	6.38	8.00

WIRE/CABLE O.D. (INCHES) AREA (SQ. IN.)

.100	.008	15	27	44	76	103	170	243	376	503	648	812	1018
.125	.012	9	17	28	48	66	109	156	240	322	414	519	652
.150	.018	6	12	19	33	46	75	108	167	223	288	360	452
.175	.024	5	8	14	24	33	55	79	122	164	211	265	332
.200	.031	3	6	11	19	25	42	60	94	125	162	203	254
.225	.040	3	5	8	15	20	33	48	74	99	128	160	201
.250	.049	2	4	7	12	16	27	39	60	80	103	129	163
.275	.059	2	3	5	10	13	22	32	49	66	85	107	134
.300	.071	1	3	4	8	11	18	27	41	55	72	90	113
.325	.083	1	2	4	7	9	16	23	35	47	61	76	96
.350	.096	1	2	3	6	8	13	19	30	41	52	66	83
.375	.110	1	1	3	5	7	12	17	26	35	46	57	72
.400	.126	0	1	2	4	6	10	15	23	31	40	50	63
.425	.142	0	1	2	4	5	9	13	20	27	35	44	56
.450	.159	0	1	2	3	5	8	12	18	24	32	40	50
.475	.177	0	1	1	3	4	7	10	16	22	28	35	45
.500	.196	0	1	1	3	4	6	9	15	20	25	32	40
.600	.283	0	0	1	2	2	4	6	10	13	18	22	28
.700	.385	0	0	0	1	2	3	4	7	10	13	16	20
.800	.503	0	0	0	1	1	2	3	5	7	10	12	15
.900	.636	0	0	0	0	1	2	3	4	6	8	10	12
1.000	.785	0	0	0	0	1	1	2	3	5	6	8	10
1.200	1.084	0	0	0	0	0	1	1	2	3	4	5	7
1.400	1.485	0	0	0	0	0	0	1	1	2	3	4	5
1.600	1.948	0	0	0	0	0	0	0	1	2	2	3	4
1.800	2.474	0	0	0	0	0	0	0	1	1	2	2	3
2.000	3.142	0	0	0	0	0	0	0	0	0	1	1	2

¹ Table developed for steel or aluminum conduit.

² Permissible occupied area based on NEC-prescribed 40% fill factor.

• The reader is cautioned to consult the NEC or BICSI installation manual for specific information regarding conduit fill. Fill rates must be adjusted down based on distances and number of bends.

Industry Standards, Typical Uses and Electrical Requirements

For 24 AWG Twisted Pair Horizontal Wiring Cable

CATEGORY	INDUSTRY STANDARDS	TYPICAL USES	FREQUENCY	ATTEN. dB/100M (MAX)	CHARACTERISTICS IMPEDANCE OHMS		NEXT dB (MIN)	PSNEXT dB (MIN)	STRUCT. RETURN LOSS dB (MIN)	RETURN LOSS dB (MIN)	PSELFEXT dB (MIN)
					MIN	MAX					
Category 1*	ANSI/ICEA S-80-576 ANSI/ICEA S-90-661	POTS	—	—	—	—	—	—	—	—	—
Category 2	IBM Type 3 ANSI/ICEA S-80-576	IBM Type 3—1 Mbps	256kHz 512kHz 772kHz 1MHz	1.3 1.8 2.2 2.6	90 87 85 84	120 117.5 114 113	— — — —	— — — —	— — — —	— — — —	— — — —
Category 3	ANSI/TIA/EIA 568B.2 ANSI/ICEA S-90-661 NEMA WC63.1	10 BASE-T 4 Mbps TOKEN RING 52 Mbps ATM 100 BASE VG AnyLAN	772kHz 1MHz 4MHz 8MHz 10MHz 16MHz	2.2 2.6 5.6 8.5 9.7 13.1	87 85 85 85 85 85	117 115 115 115 115 115	43 41 32 28 26 23	— — — — — —	12 12 12 12 12 10	— — — — — —	— — — — — —
Category 5	ANSI/TIA/EIA 568A ANSI/ICEA S-90-661 NEMA WC63.1	16 Mbps TOKEN RING 100 BASE-T 52/155 Mbps ATM 100 BASE VG AnyLAN 100 Mbps TP PMD	772kHz 1MHz 4MHz 8MHz 10MHz 16MHz 20MHz 25MHz 31.25MHz 62.5MHz 100MHz	1.8 2.0 4.1 5.8 6.5 8.2 9.3 10.4 11.7 17.0 22.0	86 85 85 85 85 85 85 85 85 85 85	117 115 115 115 115 115 115 115 115 115 115	64 62 53 48 47 44 42 41 40 35 32	— — — — — — — — — — —	23 23 23 23 23 23 23 22 21 18 16	— — — — — — — — — — —	— — — — — — — — — — —
Category 5e	ANSI/TIA/EIA 568B.2 ANSI/ICEA S-90-661 NEMA WC63.1 ISO 11801	16 Mbps TOKEN RING 100 BASE-T 52/155 Mbps ATM 100 BASE VG AnyLAN 100 Mbps TP PMD 1000 BASE-T (Gigabit Ethernet)	772kHz 1MHz 4MHz 8MHz 10MHz 16MHz 20MHz 25MHz 31.25MHz 62.5MHz 100MHz	1.8 2.0 4.1 5.8 6.5 8.2 9.3 10.4 11.7 17.0 22.0	87 85 85 85 85 85 85 85 85 85 85	117 115 115 115 115 115 115 115 115 115 115	67 65 56 51 50 47 44 44 43 40 38 35	64 62 53 48 47 44 42 41 40 35 32	— — — — — — — — — — —	— 20.0 23.0 24.5 25.0 25.0 25.0 24.3 23.6 21.5 20.1	63.0 60.8 48.7 42.7 40.8 36.7 34.7 32.8 30.9 24.8 20.8
Category 6	ANSI/TIA/EIA 568B.2 ANSI/ICEA S-90-661 NEMA WC66 TIA/EIA 568B.2-1 ISO 11801	16 Mbps TOKEN RING 155/622 Mbps ATM 1.2 Gbps ATM 100 Mbps TP PMD 100 BASE-T 1000 BASE-T (Gigabit Ethernet)	772kHz 1MHz 4MHz 10MHz 16MHz 20MHz 31.25MHz 62.5MHz 100MHz 200MHz 250MHz	1.8 2.0 3.8 6.0 7.6 8.5 10.7 15.4 19.8 29.0 32.8	87 85 85 85 85 85 85 85 85 85 85	117 115 115 115 115 115 115 115 115 115 115	76.0 74.3 65.3 59.3 56.2 54.8 51.9 47.4 44.3 39.8 36.3	74.0 72.3 63.3 57.3 54.2 52.8 49.9 45.4 42.3 37.8 36.3	— — — — — — — — — — —	— 20.0 23.0 25.0 25.0 25.0 23.6 21.5 20.1 18.0 17.3	67.0 64.8 52.8 44.8 40.7 38.7 36.8 34.9 24.8 18.8 16.8
Category 7			1MHz 4MHz 10MHz 16MHz 20MHz 31.25MHz 62.5MHz 100MHz 200MHz 250MHz 500MHz	4.0 4.0 6.0 7.6 8.5 10.6 15.2 19.4 28.0 31.6 46.2	— — — — — — — — — — —	— — — — — — — — — — —	65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 61.9 60.4 55.9	62.0 62.0 62.0 62.0 62.0 62.0 62.0 62.0 58.9 57.4 52.9	— — — — — — — — — — —	21.0 21.0 21.0 20.0 19.5 18.5 16.0 14.0 11.0 10.0 10.0	62.0 62.0 62.0 58.7 57.0 53.7 48.5 45.0 39.7 37.9 32.6

Data subject to change without notice. Contact your Customer Service Representative for latest information.

- No requirement

*Plain old telephone system

Note 1: Higher category may be substituted for lower category.

Note 2: For Patch Cord attenuation requirement, add 20% to above.

Glossary

American Wire Gauge (AWG): A system used to specify wire size. The greater the wire diameter, the smaller the value (e.g., 24 AWG [0.51 mm {0.020 in}]).

Asynchronous Transfer Mode (ATM): A high-speed switching transmission protocol that utilizes payload packages organized into 53-byte cells to carry data.

Attenuation: The decrease in magnitude of transmission signal strength between points, expressed as the ratio of output to input. Measured in dB, usually at a specific frequency for copper or wavelength for optical fiber, the signal strength may be power or voltage.

Attenuation-to-Crosstalk Ratio (ACR): The difference between attenuation and crosstalk, measured in dB at a given frequency. This difference is critical to ensure that the signal sent down the twisted-pair cable is stronger at the receiving end of the cable than any interference signals (crosstalk) from other cable pairs.

Bandwidth: A range of frequencies, usually the difference between the upper and lower limits of the range, expressed in Hz. It is used to denote the potential capacity of the medium, device or system. In copper and optical fiber cabling, the bandwidth decreases with increasing length.

Baseband transmission: A transmission technique in which all of the available bandwidth is dedicated to a single communications channel. Only a single message transfer can occur at a given time.

Bit Error Rate (BER): The ratio of incorrectly transmitted bits to total transmitted bits. A primary specification for all transmission systems, it is usually expressed as a power of 10. The number of errors made in a digital transmission as compared to complete accuracy.

Broadband transmission: The transmission of multiple signals on a medium at the same time, sharing the entire bandwidth of the medium. The signals are multiplexed into channels with a bandwidth of 6 kHz each and occupy a different frequency on the cable. The signals are divided, usually by frequency divisions, to allow more than one channel on the cable at any time.

Broadcast: A technique for sending data simultaneously to all devices attached to a network with a single transmission. See multicast and unicast.

Capacitance: The tendency of an electronic component to store electrical energy. Pairs of wire in a cable tend to act as a capacitor. The charge on one of two conductors of a capacitor divided by the potential difference between them (measured in farads).

Common-mode noise (and longitudinal): The noise voltage that appears between each signal conductor to ground, caused by electrostatic induction and/or electromagnetic induction.

Cross-connect: A facility enabling the termination of cable elements and their interconnection or cross-connection.

Crosstalk: The unwanted reception of electromagnetic signals on a communications circuit from another circuit.

Decibel (dB): A logarithmic unit used for expressing the loss or gain of signal strength. One dB is the amount by which the pressure of a pure sine wave of sound must be varied in order for the change to be detected by the average human ear.

Delay skew: The difference in the propagation delay between any two pairs within the same cable sheath.

Dielectric constant: The ratio of capacitance of an insulated wire measured against the same wire uninsulated, but using air as the dielectric, which is equal to one.

Elongation: The fraction increase in the length of a material stressed in tension.

Equal Level Far-End Crosstalk (ELFEXT): A measure of the unwanted signal coupling from a transmitter at the near end into another pair measured at the far end, relative to the received signal level.

Ethernet: A LAN protocol using a logical bus structure and carrier sense multiple access with collision detection.

Far-end crosstalk loss: A measure of the unwanted signal coupling from a transmitter at the near end into another pair measured at the far end, relative to the transmitted signal level.

FEP: Fluorinated Ethylene Propylene

Frequency: The measure of the number of cycles (waves) per second, expressed in Hz.

Full Duplex: Simultaneous two-way transmission utilizing all 4 pairs.

Gigabits per second (Gb/s): A transmission rate denoting one billion bits per second.

Gigabit Ethernet: A carrier sense multiple access with collision detection LAN standard developed by the IEEE 802 group operating at one Gb/s.

Hertz (Hz): A unit of frequency equal to one cycle per second.

Insertion loss: The signal loss resulting from the insertion of a component, link or channel between a transmitter and receiver (often referred to as attenuation).

Insulation: The dielectric material that physically separates wires and prevents conduction between them.

Megabits per second (Mb/s): A unit of measure used to express the data transfer rate of a system, device or communications channel.

Megahertz (MHz): A unit of frequency equal to one million cycles per second (hertz).

Near-end crosstalk (NEXT): The unwanted signal coupling between pairs. It is measured at the end of a cable nearest the point of transmission. Contrast with far-end crosstalk.

Nominal velocity of propagation (NVP): The speed of transmission along a cable relative to the speed of light in a vacuum.

Ohm: The standard unit of electrical resistance that measures the opposition to the flow of direct current, called resistance, or opposition to the flow of alternating current, called impedance. One volt will cause one ampere of current to flow through one ohm of resistance. The symbol is W.

Glossary

Plenum: A designated area used for transport of environmental air as part of the air distribution system. Because it is part of the air distribution system, cables installed in this space require a higher fire rating.

Plenum cable: A cable with flammability and smoke characteristics that meet the safety requirements of the National Electrical Code® (NEC®) that allow it to be routed in a plenum area without being enclosed in a conduit.

Polyolefin: A thermoplastic insulation material having excellent properties and moisture resistance, used in the construction of some communications cable.

Polyvinyl Chloride (PVC): A tough, flame-retardant, thermoplastic, water-resistant insulator. Its dielectric losses are higher than polyethylene.

Polyvinylidene Difluoride (PVDF): A highly non-reactive and pure thermoplastic fluoropolymer. It is tough and has low friction.

Power Sum Attenuation-to-Crosstalk Ratio (PSACR): The difference between attenuation and power sum crosstalk measured in dB at a given frequency. This difference is critical to ensure that the signal sent down the twisted-pair cable is stronger at the receiving end of the cable than any interference signals (crosstalk) from other cable pairs.

Power Sum Equal Level Far-End Crosstalk (PSELFEXT) Loss: A computation of the unwanted signal coupling from multiple transmitters at the near end into a pair measured at the far end and normalized to the received signal level.

Power Sum Near-End Crosstalk (PSNEXT) Loss: A computation of the unwanted signal coupling from multiple transmitters at the near end into a pair measured at the near end.

Propagation delay: The time interval required for a signal to be transmitted from one end of the circuit to the other.

Return loss: A ratio of the power of the outgoing signal to the power of the reflected signal, expressed in dB.

Rip cord: A small filament cord used to rip through the outer cable sheath.

Riser: Term applied to vertical sections of cable, such as changing from underground or direct-buried plant to aerial plant. Term also applies to the space used for cable access between floors.

Separator: A layer of insulating material, which is placed between pairs inside a cable to enhance crosstalk. This could be in a form of tape, cross-web or just single filler.

Signal-to-Noise Ratio (SNR): The ratio between the detected signal power and noise in a receiver, expressed in dB. The prime determining factor in bit error rate. See Bit Error Rate.

Structural Return loss: A measure of reflected energy of a transmitted signal due to impedance variations along the length of the cable, expressed in dB.

T-1: A digital transmission link with a bandwidth capacity of 1.544 Mb/s. Typical medium is 2-pair telephone wire; however, T-1 is not indicative of transmission medium.

Token ring: Allows attached devices to share a common cabling system for communications purposes without the possibility of a collision between transmissions. A device is only able to send a message when it is in possession of a special electronic sequence of bits called a token.

Velocity of propagation: The speed of transmission along a cable relative to the speed of light in a vacuum.

VoIP: A term used in IP telephony for voice delivered using the Internet Protocol.

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