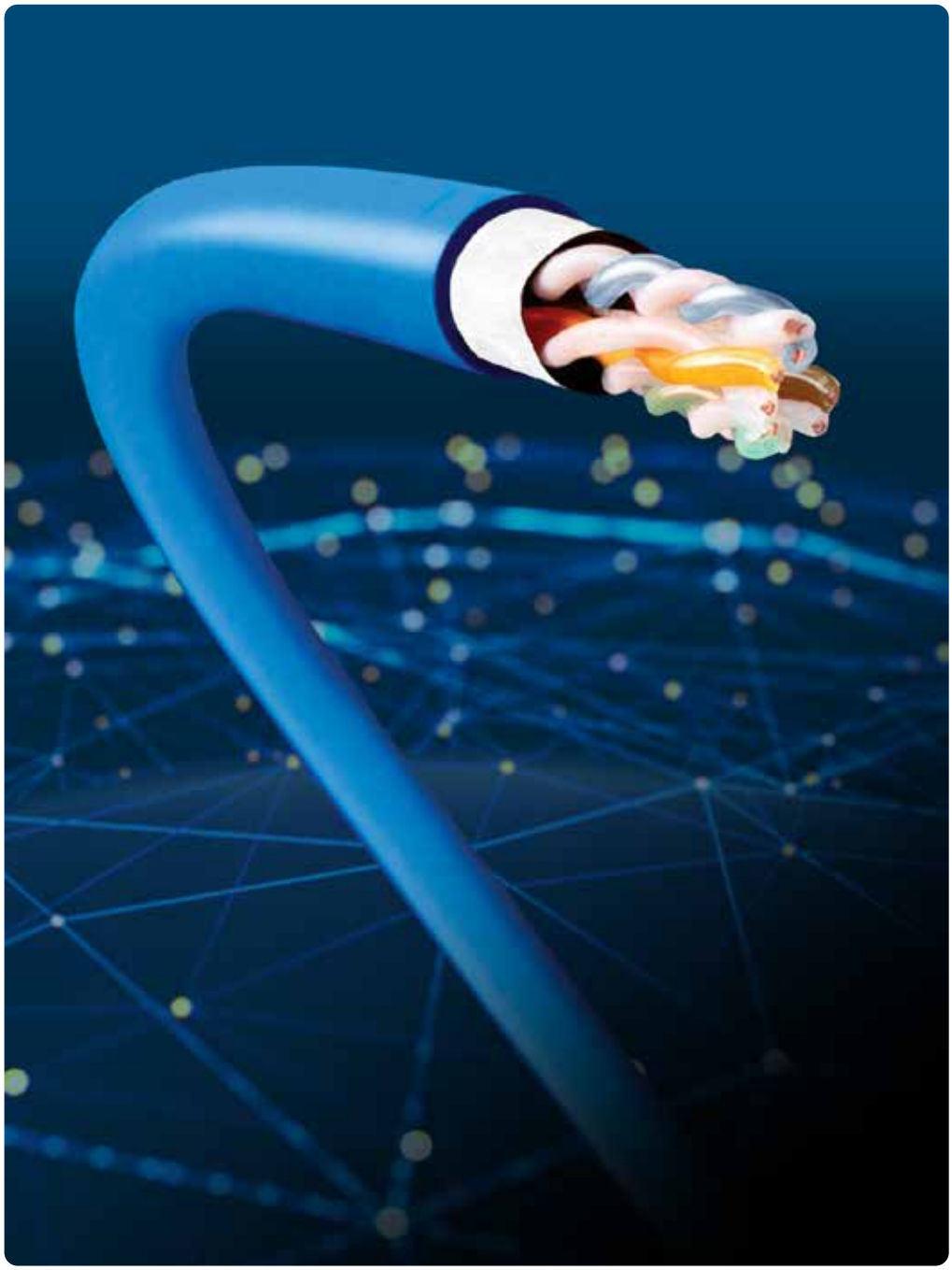
DATACOM CABLE

For voice and data communications



prysmian

GenSPEED®

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, Prysmian continues to stay ahead of the curve with engineered products that guarantee future performance. Choose from the best cable in its class — Gen*SPEED*® Cables.

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

Delivering Solutions
THAT KEEP YOU CONNECTED

QUALITY

Prysmian is committed to meeting customer requirements through continuous quality improvements. As a significant part of our commitment to quality, Prysmian'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 and UL are utilized to quantify and confirm our quality and provide final qualification data that sets the foundation for our extended product warranty.
- Prysmian products have stood the test of time with proven reliability and performance.

CUSTOMER SERVICE

Prysmian is dedicated to customer service and satisfaction. Call our team of professionally trained sales associates at

800-424-5666

with any questions to meet your application needs.

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GenAssurance℠ Product Warranty

Prysmian is committed to exceeding our customers' expectations for quality and performance. We strive to ensure this quality through extensive in-house and third-party testing with strict adherence to our product specifications and industry standards. As such, our products carry a standard one-year limited warranty. Additionally, a 25-year extended warranty protection plan is available for registered products.

Standard Warranty

Products covered are Voice and Data Communications cables, including Category 3 cable and higher, Fiber Optic cables, Central Office cables (e.g., switchboard cable), Terminating cable, and Distribution Frame Wire, Electronics and Telecommunications (e.g., OSP and OVD) products.

Standard Warranty Term and Conditions

Prysmian warrants that its product will conform to its applicable specifications and will be otherwise free from defects in material and workmanship for a period of 12 months from the date the product is shipped from its factory (the "Warranty Period").

Prysmian must be given immediate written notice of any defect and the opportunity to inspect the product to determine whether a breach of warranty has occurred. This warranty covers only products installed at the original installation location. All repairs or replacements covered by this warranty will be shipped to the destination point specified in the original order. The defective product will, at Prysmian's option, be either scrapped or returned to Prysmian at its expense and per its shipping instructions.

If Prysmian replaces a product under this warranty, the replacement will be warranted for the balance of the original Warranty Period.

Prysmian's sole responsibility under this warranty will 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, improper installation or service, unauthorized repair, fire, floods, and acts of God. All costs incidental to repairing or replacing defective products, including but not limited to removal, disassembly, reinstallation and reconstruction, will be borne by the buyer, and in no event will Prysmian be liable for such costs.

THE FOREGOING CONSTITUTES PRYSMIAN'S SOLE AND EXCLUSIVE OBLIGATIONS AND LIABILITIES. PRYSMIAN MAKES NO OTHER WARRANTIES ON ITS PRODUCTS, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALL OTHER WARRANTIES ARE EXPRESSLY DISCLAIMED.

In no event will Prysmian be liable for any incidental, special, consequential or punitive damages of any nature or kind, however arising, whether in contract, tort or otherwise, even if Prysmian is deemed to be aware of the possibility of such damages.

Prysmian, in no event, will be responsible for any claims or damage arising out of or connected with this warranty or the manufacture, sale, delivery, installation, or use of the product in excess of the purchase price of the product.

Extended Warranty

Prysmian offers a 25-year limited cable warranty on Datacom and Electronics products. Registration is required, and the warranty is administered by Prysmian. To register, please complete the registration form, found at www.generalcable.com in the Product Warranty section, and return along with required documents.

In addition to offering an extended 25-year limited warranty on Datacom and Electronics products, Prysmian now offers the same extended limited warranty on OVD and OSP Telecom products. In order to become eligible for the Telecom extended GenAssurance warranty, the network project must use only Prysmian Datacom copper and fiber for the structured cable portion (horizontal cable and inside backbone). Upon meeting this criteria, submit the completed registration documents to Prysmian, and the extended GenAssurance warranty will be provided for the Telecom cable products.

Datacom System Warranties

System warranties include the link and channel. End-to-end warranties are typically issued by the connectivity partner.

· Panduit — Premier Connectivity Partner

Registered PanGen and NetGen solutions have a 25-year warranty that covers repair or replacement of defective components and one point of contact for all cable and component inquiries. The warranty is issued by Panduit and maintained by both Panduit and Prysmian. Program information can be found at www.pangensolutions.com.

Additional connectivity partners are available.

Please reach out to your sales representative for more information.

Gen*SPEED*® Category 6A Cables

Introducing the New Generation of Small Diameter Category 6A Cables

For more than a century and a half, Prysmian has stayed ahead of the industry's changing needs with products that anticipate future performance requirements and provide best value in cabling solutions, which is why we are pleased to introduce the new generation of small diameter Gen*SPEED* 10 Category 6A Solutions.

With a revolutionary design developed to find the perfect blend of product performance and product size, the new Gen*SPEED* 10 Category 6A Cables offer the smallest diameter in the industry with enhanced performance and maneuverability. Its innovative technology and reduced size is perfect for migrating to a Cat 6A infrastructure, allowing for improved cable management, installation and handling when preparing your system for 10 Gigabit applications.

Prysmian recognizes that application and performance needs may vary, which is why we offer you several copper 10 Gigabit solutions: Gen*SPEED* 10 MTP™ Cat 6A 10 Gig Cable; Gen*SPEED* 10 UTP Cat 6A 10 Gig Cable; Gen*SPEED* 10,000 Shielded Cat 6A 10 Gig Cable; and Gen*SPEED* Cat 6A OSP Cable.

Prysmian's industry-leading 10 Gig solution, Gen*SPEED* 10 MTP Category 6A Cable, provides superior alien crosstalk protection and EMI Immunity in the industry's smallest Cat 6A Cables. Without needing to be grounded, Gen*SPEED* 10 MTP's Mosaic Variable Laser Cut Tape shields the cable from noise coming from external cable sources, which is referred to as alien crosstalk (PSANEXT and PSAACRF). Its improved design, lighter weight and increased flexibility translates to simplified cable handling and optimized cable management: less conduit, less cable tray and more cable in existing conduit and trays which lowers overall project costs.

Our second offering, Gen*SPEED* 10 UTP Category 6A Cable, is a cost-effective, standard-compliant 10 Gig UTP featuring the smallest diameter in the industry with guaranteed performance that meets or exceeds all TIA Standards. Perfect for component upgrades, this cable is fully backwards-compatible to legacy infrastructures and prepares your system for future 10 Gigabit applications. Gen*SPEED* 10 solves the one Gigabit limitation of Category 5e and Category 6 and is an ideal solution for bandwidth-intensive applications. Its smaller diameter allows for greater cable density, reducing cable management costs.

Prysmian also offers two shielded options in Category 6A. Gen*SPEED* 10,000 U/FTP is designed with individually shielded pairs for optimized isolation and immunity from external noise characterized by power sum alien crosstalk (PSANEXT) in cable bundles. GenSPEED® 10 F/UTP is an overall shield design. Shields are an extremely effective way of protecting the cable from outside noise ("alien sources") by moving the electromagnetic energy away from the pairs and directing it through the shield and drain wire to the ground. Of course, U/FTP and F/UTP cables are only effective if they are properly grounded. Gen*SPEED* 10,000 Shielded cables offer you the ultimate PSANEXT protection.

Future-proof your cabling system today with Gen*SPEED* Brand 10 Gig solutions from Prysmian.

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Gen*SPEED*® Category 6A Quick Reference Guide

JACKET COLOR	PACKAGE	Gen*SPEED*® 10 MTP (p.7)		Gen*SPEED*® 10 UTP (p.13)		Gen*SPEED*® 10,000 U/FTP (p.15)	
		CMR	CMP	CMR	CMP	CMR	CMP
Blue							
	Pull-Pac	7143839	7141839	7143800	7141800		
	Spool-Pac®		7151879		7151869		
	Spool	7143849	7151849	7143819	7151819	7143586	7141586
White							
	Pull-Pac	7143840	7141840	7143801	7141801		
	Spool-Pac®		7151880		7151870		
	Spool	7143850	7151850	7143820	7151820	7143587	7141587
Yellow							
	Pull-Pac	7143842	7141842	7143802	7141802		
	Spool-Pac®				7151871		
	Spool	7143852	7151852	7143822	7151822	7143588	7141588
Gray							
	Pull-Pac	7143841	7141841	7143803	7141803		
	Spool-Pac®				7151872		
	Spool	7143851	7151851	7143821	7151821	7143589	7141589
Red							
	Pull-Pac	7143844	7141844	7143804	7141804		
	Spool-Pac®				7151873		
	Spool	7143854	7151854	7143824	7151824	7143590	7141590
Orange							
	Pull-Pac	7143846	7141846	7143805	7141805		
	Spool-Pac®				7151874		
	Spool	7143856	7151856	7143826	7151826	7143591	7141591
Green							
	Pull-Pac	7143843	7141843	7143806	7141806		
	Spool-Pac®				7151875		
	Spool	7143853	7151853	7143823	7151823	7143592	7141592
Black							
	Pull-Pac	7143848	7141848	7143807	7141807		
	Spool-Pac®				7151876		
	Spool	7143858	7151858	7143828	7151828	7143594	7141594
Pink							
	Pull-Pac	7143847	7141847	7143808	7141808		
	Spool-Pac®				7151878		
	Spool	7143857	7151857	7143827	7151827	7143595	7141595
Purple							
	Pull-Pac	7143845	741845	7143809	7141809		
	Spool-Pac®				7151877		
	Spool	7143855	7151855	7143825	7151825	7143593	7141593

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

GenSPEED® 10 MTP™ Gen5 Category 6A Cable

Superior Alien Crosstalk Protection and EMI Immunity in the Industry's Smallest Full Channel, Component Compliant 6A Cable

Features and Benefits

- Utilizes innovative Mosaic™ Variable Laser Cut Tape to provide superior protection against alien crosstalk. Guaranteed +8 dB over TIA 568.2-D Standard for both PSANEXT & PSAACRF.
- Variable laser cut pattern delivers maximum protection against EMI noise.
- Smaller cable diameter allows for greater cable density, reducing cable management costs.
- Simplified design and improved bend radius make it easer to strip, terminate and route, reducing installation time and expense.
- UL Listed CMP-LP 0.7A with certified performance for high-power PoE applications.
- CMP - UL verified with certified performance for 100W power over HDBaseT.
- CMP 105°C jacket rating provides greater protection against increased operating temperatures and for high-wattage applications.
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- All GenSPEED products are made in the U.S.A.

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+ and PoE++
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMP-LP 0.7A*
- UL 444
- UL 4299
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class Ex)

* 0.7A is the ampacity rating of the cable, which equals to 140 watts using 50 volts over four pairs.

PoH™ HDBT™ FEATURING MOSAIC™ VARIABLE LASER CUT TAPE

prysmian GenSPEED®

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

ANEXT Protection
- Mosaic™ variable laser cut tape

Insulation
- Plenum: Fluoropolymer

Jacket
- Plenum: Low-smoke, flame-retardant PVC

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

PHYSICAL DATA

	CMP (Plenum)
Nominal Cable Diameter (in)	0.230
Nominal Cable Weight (lbs/1000 ft)	30
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	40
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +105

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color		Spool **CMP** (Plenum)	Spool-Pac® **CMP** (Plenum)
	Blue	**7151849**	**7151879**
	White	**7151850**	**7151880**
	Yellow	**7151852**	**7151881**
	Gray	**7151851**	**7151882**
	Red	**7151854**	**7151883**
	Orange	**7151856**	**7151884**
	Green	**7151853**	**7151885**
	Black	**7151858**	**7151886**
	Pink	**7151857**	**7151888**
	Purple	**7151855**	**7151887**

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

LISTED VERIFIED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

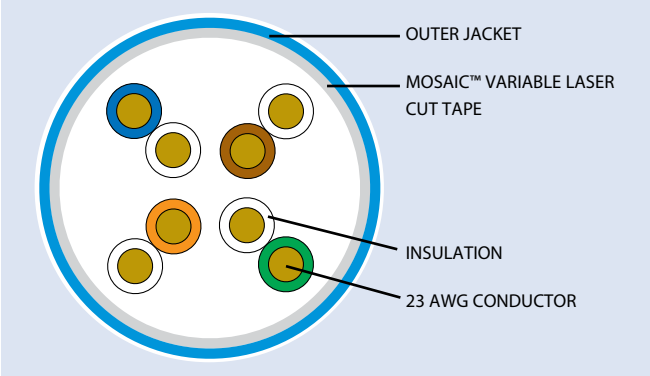
GenSPEED® 10 MTP™ Gen5 Category 6A Cable

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR** (min)	ACR** (min)	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)			PSAACRF (min)		
	PG Guaranteed	PG Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	PG Guaranteed	PG Typical	TIA Guaranteed	PG Guaranteed	PG Typical
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	75.0	79.0	67.0	75.0	79.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	75.0	79.0	66.2	74.4	78.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	75.0	79.0	58.2	66.2	70.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	75.0	79.0	54.1	62.1	66.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	75.0	79.0	52.2	60.2	64.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	75.0	79.0	48.3	56.3	60.3
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	73.6	77.6	42.3	50.3	54.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	70.5	74.5	38.2	46.2	50.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	67.9	71.9	34.7	42.7	46.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	66.0	70.0	32.2	40.2	44.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	64.5	68.5	30.2	38.2	42.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	63.3	67.3	28.7	36.7	40.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	61.5	65.5	26.2	34.2	38.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	60.0	64.0	24.2	32.2	36.2
600*	—	—	50.1*	30.6*	32.6*	9.2*	12.2*	14.7*	22.2*	—	50.8*	—	—	22.6*	—
700*	—	—	54.5*	29.6*	31.6*	7.9*	10.9*	14.2*	21.5*	—	49.8*	—	—	21.3*	—
750*	—	—	56.7*	29.2*	31.2*	7.3*	10.3*	14.0*	21.2*	—	49.4*	—	—	20.7*	—

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

CROSS-SECTION

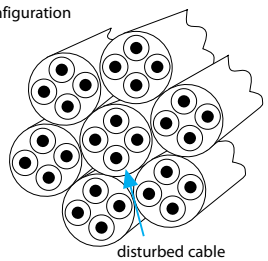


ELECTRICAL CHARACTERISTICS

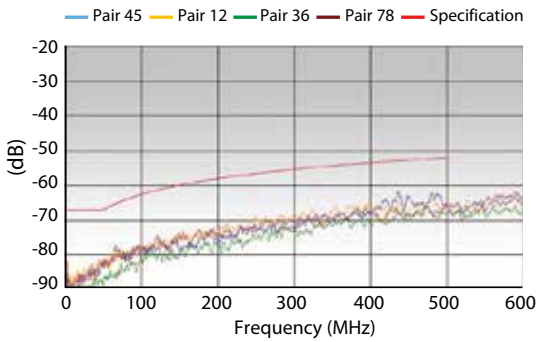
	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.00
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (Max) ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

4 PAIR CABLES:
Bundles of 7 Test Results

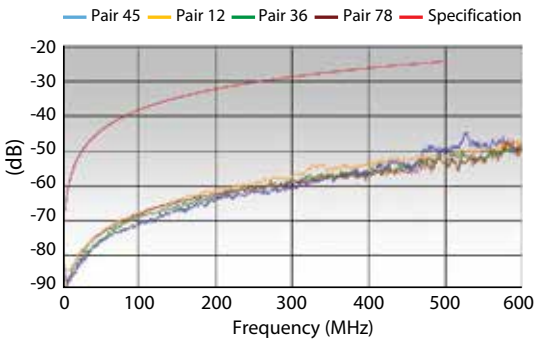
Six-around-one configuration



PSANEXT



PSAACRF

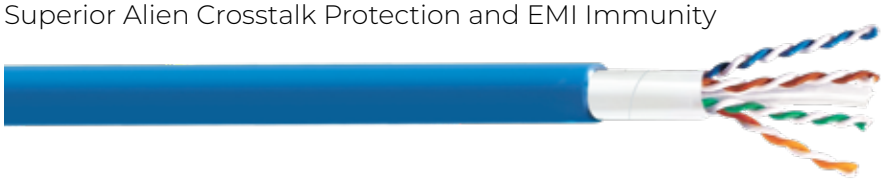


prysmian GenSPEED®

Data subject to change without notice.

GenSPEED® 10 MTP™ Category 6A Cable

Superior Alien Crosstalk Protection and EMI Immunity



Features and Benefits

- Utilizes innovative Mosaic™ Variable Laser Cut Tape to provide superior protection against alien crosstalk. Guaranteed +8 dB over TIA 568.2-D Standard for both PSANEXT & PSAACRF.
- Variable laser cut pattern delivers maximum protection against EMI noise.
- Smaller cable diameter allows for greater cable density, reducing cable management costs.
- Simplified design and improved bend radius make it easer to strip, terminate and route, reducing installation time and expense.
- UL Listed CMP-LP 0.7A with certified performance for high-power PoE applications.
- UL Listed CMR-LP 0.5A with certified performance for high power PoE applications.
- CMP - UL verified with certified performance for 100W power over HDBaseT.
- CMP 105°C jacket rating provides greater protection against increased operating temperatures and for high-wattage applications.
- The internal separator optimizes internal pair geometry to yield superior electrical performance and maintain flexibility.
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- All GenSPEED products are made in the U.S.A.

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+ and PoE++
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMP (NFPA 262) for Plenum
- NEC/CEC Type CMR (UL 1666) for Riser
- UL Listed CMP-LP 0.7A*
- UL Listed CMR-LP 0.5A
- UL 444
- UL 4299
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class Ex)

* 0.7A is the ampacity rating of the cable, which equals to 140 watts using 50 volts over four pairs.

PoH™ HDBT™ FEATURING MOSAIC™ VARIABLE LASER CUT TAPE

prysmian GenSPEED®

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Separator
- Cross-web

Insulation
- Plenum: Fluoropolymer
- Non-Plenum: Thermoplastic

ANEXT Protection
- Mosaic™ variable laser cut tape

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

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

PHYSICAL DATA

	CMP (Plenum)	**CMR** (Non-Plenum)
Nominal Cable Diameter (in)	0.250	0.255
Nominal Cable Weight (lbs/1000 ft)	32	32
Minimum Bend Radius (in)	1.0	1.06
Maximum Pulling Force (lbs)	40	40
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +105	-20 to +75

PART NUMBERS

Standard packaging: 1000' Pull-Pac or spool. Spool-Pac by special order

Jacket Color		Pull-Pac®	Spool	Pull-Pac®
		CMP (Plenum)	**CMR** (Non-Plenum)	**CMR** (Non-Plenum)
	Blue	**7141839**	**7143849**	**7143839**
	White	**7141840**	**7143850**	**7143840**
	Yellow	**7141842**	**7143852**	**7143842**
	Gray	**7141841**	**7143851**	**7143841**
	Red	**7141844**	**7143854**	**7143844**
	Orange	**7141846**	**7143856**	**7143846**
	Green	**7141843**	**7143853**	**7143843**
	Black	**7141848**	**7143858**	**7143848**
	Pink	**7141847**	**7143857**	**7143847**
	Purple	**7141845**	**7143855**	**7143845**

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

LISTED VERIFIED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

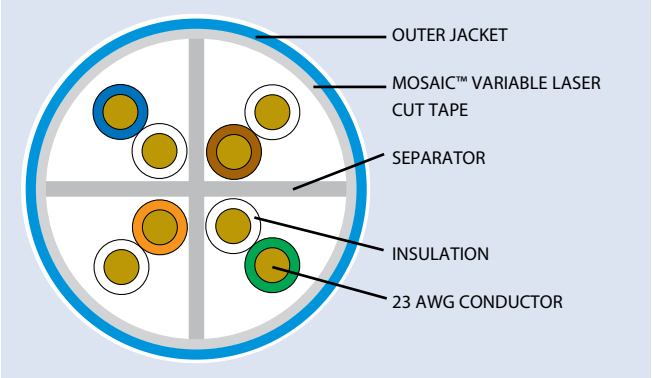
GenSPEED® 10 MTP™ Category 6A Cable

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR** (min)	ACR** (min)	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)			PSAACRF (min)		
	PG Guaranteed	PG Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	PG Guaranteed	PG Typical	TIA Guaranteed	PG Guaranteed	PG Typical
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	75.0	79.0	67.0	75.0	79.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	75.0	79.0	66.2	74.4	78.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	75.0	79.0	58.2	66.2	70.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	75.0	79.0	54.1	62.1	66.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	75.0	79.0	52.2	60.2	64.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	75.0	79.0	48.3	56.3	60.3
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	73.6	77.6	42.3	50.3	54.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	70.5	74.5	38.2	46.2	50.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	67.9	71.9	34.7	42.7	46.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	66.0	70.0	32.2	40.2	44.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	64.5	68.5	30.2	38.2	42.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	63.3	67.3	28.7	36.7	40.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	61.5	65.5	26.2	34.2	38.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	60.0	64.0	24.2	32.2	36.2
600*	—	—	50.1*	30.6*	32.6*	9.2*	12.2*	14.7*	22.2*	—	50.8*	—	—	22.6*	—
700*	—	—	54.5*	29.6*	31.6*	7.9*	10.9*	14.2*	21.5*	—	49.8*	—	—	21.3*	—
750*	—	—	56.7*	29.2*	31.2*	7.3*	10.3*	14.0*	21.2*	—	49.4*	—	—	20.7*	—

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

CROSS-SECTION



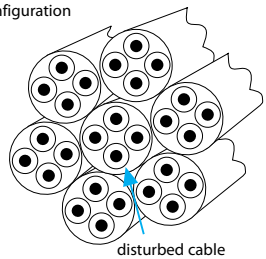
ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.00
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (Max) ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

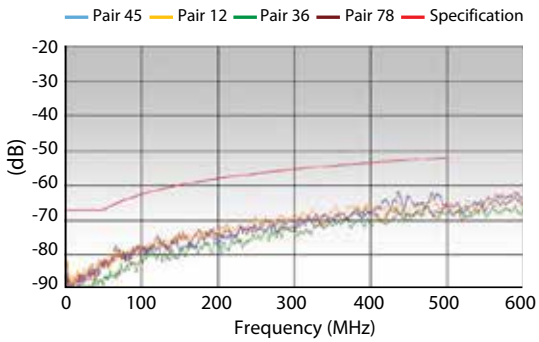
4 PAIR CABLES:

Bundles of 7 Test Results

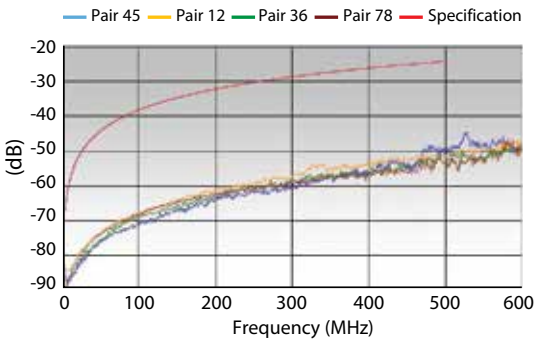
Six-around-one configuration



PSANEXT



PSAACRF



prysmian GenSPEED®

Data subject to change without notice.

GenSPEED® 10 MTP™ with 17 FREE® Category 6A Cable

An Unshielded 6A Cable with Superior Protection Against Alien Crosstalk

Features and Benefits

- Lower smoke, less toxic, and halogen free
- More environmentally friendly
- Increased flexibility for easy installation
- 10 MTP™ unshielded-twisted pair (UTP) design provides industry-leading protection from external cable noise sources, also known as alien crosstalk. Guaranteed +8 dB over TIA 568.2-D Standard for both PSANEXT & PSAACRF
- Mosaic Crossblock™ is a thin metallic tape of segmented sections separated by an insulating layer. Since there is no metal-to-metal contact, there is no path for current to flow longitudinally, and thus, no need for grounding
- The Internal Separator optimizes internal pair geometry to yield superior electrical performance and maintain flexibility. This unique cross-web stabilizes each pair to create a smaller, round cable profile
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, and PoE+
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666)
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class Ex)
- IEC 60754-1
- IEC 60754-2
- IEC 61034-1
- IEC 61034-2

Featuring mosaic CROSSBLOCK™

prysmian GenSPEED®

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Separator
- Cross-web

Insulation
- Non-Plenum: Polyolefin

Jacket
- Non-Plenum: Zero-Halogen Polyolefin

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

PHYSICAL DATA

	CMR (Non-Plenum)
Nominal Cable Diameter (in)	0.318
Nominal Cable Weight (lbs/1000 ft)	47
Minimum Bend Radius (in)	1.25
Maximum Pulling Force (lbs)	40
Temperature Rating (˚C)	
Installation:	0 to +60
Operation:	-20 to +75

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color		Spool **CMR** (Non-Plenum)
	Blue	**7133849-17**
	White	**7133850-17**
	Yellow	**7133852-17**
	Gray	**7133851-17**
	Red	**7133854-17**
	Orange	**7133856-17**
	Green	**7133853-17**
	Black	**7133858-17**
	Pink	**7133857-17**
	Purple	**7133855-17**

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

UL LISTED UL VERIFIED RoHS Compliant Made in U.S.A.

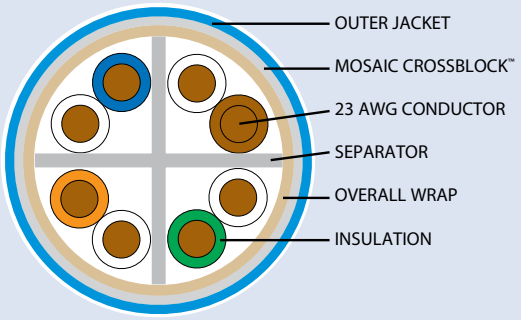
GenSPEED® 10 MTP™ with FREE® Category 6A Cable

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)			PSAACRF (min)		
	PG Guaranteed	PG Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	PG Guaranteed	PG Typical	TIA Guaranteed	PG Guaranteed	PG Typical
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	73.0	79.0	67.0	73.0	79.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	73.0	79.0	66.2	72.2	78.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	73.0	79.0	58.2	64.2	70.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	73.0	79.0	54.1	60.1	66.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	73.0	79.0	52.2	58.2	64.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	73.0	79.0	48.3	54.3	60.3
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	71.6	77.6	42.3	48.3	54.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	68.5	74.5	38.2	44.2	50.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	65.9	71.9	34.7	40.7	46.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	64.0	70.0	32.2	38.2	44.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	62.5	68.5	30.2	36.2	42.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	61.3	67.3	28.7	34.7	40.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	59.5	65.5	26.2	32.2	38.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	58.0	64.0	24.2	30.2	36.2

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

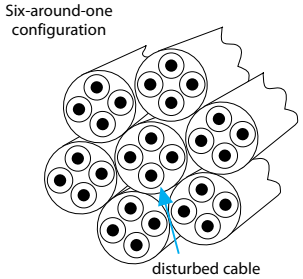
CROSS-SECTION



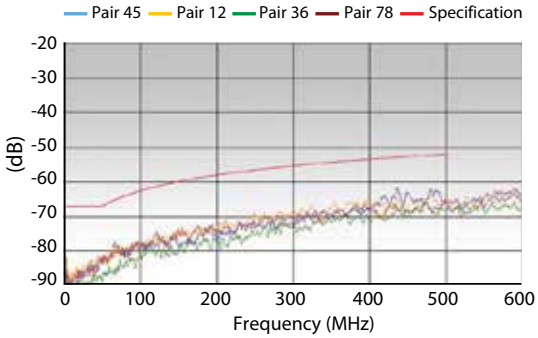
ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.00
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (Max) ns/100 m	45	35
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

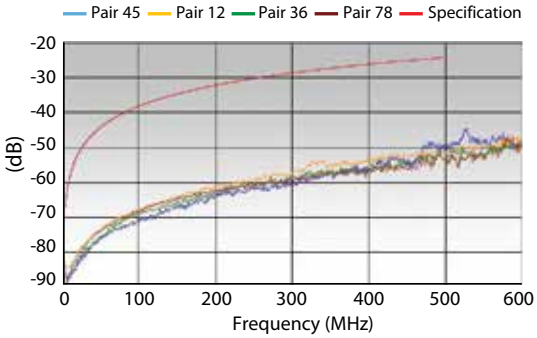
4 PAIR CABLES:
Bundles of 7 Test Results



PSANEXT



PSAACRF



GenSPEED® 10 UTP Gen5 Category 6A Cable

Industry's Smallest Full Channel, Component Compliant 6A Cable

Features and Benefits

- Utilizes innovative Mosaic™ Variable Laser Cut Tape to provide superior protection against alien crosstalk. Guaranteed +8 dB over TIA 568.2-D Standard for both PSANEXT & PSAACRF.
- Variable laser cut pattern delivers maximum protection against EMI noise.
- Smaller cable diameter allows for greater cable density, reducing cable management costs.
- Simplified design and improved bend radius make it easer to strip, terminate and route, reducing installation time and expense.
- UL Listed CMP-LP 0.7A with certified performance for high-power PoE applications.
- CMP - UL verified with certified performance for 100W power over HDBaseT.
- CMP 105°C jacket rating provides greater protection against increased operating temperatures and for high-wattage applications.
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- All GenSPEED products are made in the U.S.A.

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+ and PoE++
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMP-LP 0.7A*
- UL 444
- UL 4299
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class Ex)

* 0.7A is the ampacity rating of the cable, which equals to 140 watts using 50 volts over four pairs.

PoH™ HDBT™

prysmian GenSPEED®

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

ANEXT Protection
- Encapsulated Isolated Wrap

Insulation
- Plenum: Fluoropolymer

Jacket
- Plenum: Low-smoke, flame-retardant PVC

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

PHYSICAL DATA

	CMP (Plenum)
Nominal Cable Diameter (in)	0.230
Nominal Cable Weight (lbs/1000 ft)	30
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	40
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +105

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color		Spool **CMP** (Plenum)	Spool-Pac® **CMP** (Plenum)
	Blue	**7151819**	**7151869**
	White	**7151820**	**7151870**
	Yellow	**7151822**	**7151871**
	Gray	**7151821**	**7151872**
	Red	**7151824**	**7151873**
	Orange	**7151826**	**7151874**
	Green	**7151823**	**7151875**
	Black	**7151828**	**7151876**
	Pink	**7151827**	**7151878**
	Purple	**7151825**	**7151877**

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

LISTED VERIFIED RoHS Compliant Made in U.S.A.

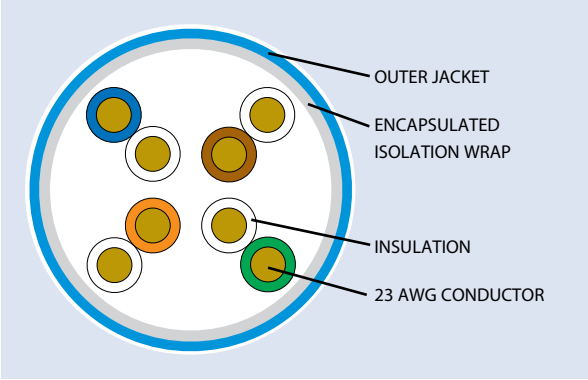
GenSPEED® 10 UTP Gen5 Category 6A Cable

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)		PSAACRF (min)	
	PG Guaranteed	PG Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	PG Guaranteed	TIA Guaranteed	PG Guaranteed
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	69.0	67.0	69.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	69.0	66.2	68.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	69.0	58.2	60.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	69.0	54.1	56.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	69.0	52.2	54.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	69.0	48.3	50.3
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	67.6	42.3	44.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	64.5	38.2	40.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	61.9	34.7	36.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	60.0	32.2	34.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	58.5	30.2	32.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	57.3	28.7	30.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	55.5	26.2	28.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	54.0	24.2	26.2

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

CROSS-SECTION



ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.00
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (Max) ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

GenSPEED® 10,000 Category 6A U/FTP (STP) Cable

An Individually Shielded 10 Gig Option for Peace of Mind

Features and Benefits

- Individually pair shielded design allows for maximum pair separation, increasing key electrical performance parameters and providing EMI protection
- Typical positive PSACR beyond 500 MHz for increased available bandwidth
- Improved cable temperature rating (90°C Plenum, 75°C Riser) for greater protection against increased operating temperatures
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, and PoE+
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

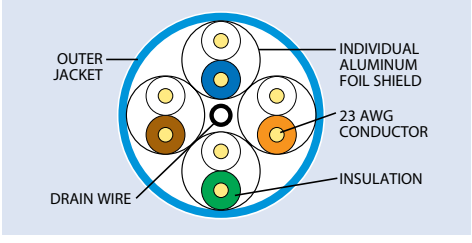
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class E_A)

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38	7.00
DC Resistance Unbalance Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45	20
Nom. Velocity of Propagation % Speed of Light	CMP: 78 CMR: 75	
Characteristic Impedance Frequency (f): 1-600 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Shield
- Each pair is individually shielded with an aluminum foil

Insulation
- Non-Plenum: Foamed HDPE
- Plenum: Foamed Fluoropolymer

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

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

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

PHYSICAL DATA

	CMR (Non-Plenum)	**CMP** (Plenum)
Nominal Cable Diameter (in)	0.305	0.295
Nominal Cable Weight (lbs/1000 ft)	43	47
Minimum Bend Radius (in)	2.44	2.36
Maximum Pulling Force (lbs)	32	32
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +90

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)	PSANEXT (min)	PSAACRF (min)
1	2.1	74.3	20.0	77.0	77.0
4	3.8	74.3	23.0	77.0	76.2
10	5.9	74.3	25.0	77.0	68.2
16	7.5	74.2	25.0	77.0	64.1
20	8.4	72.8	25.0	77.0	62.2
31.25	10.5	69.9	23.6	77.0	58.3
62.5	15.0	65.4	21.5	75.6	52.3
100	19.1	62.3	20.1	72.5	48.2
200	27.6	57.8	18.0	68.0	42.2
250	31.1	56.3	17.3	66.5	40.2
300	34.3	55.1	16.8	65.3	38.7
350	37.2	54.1	16.3	64.3	37.3
400	40.1	53.3	15.9	63.5	36.2
500	45.3	51.8	15.2	62.0	34.2
600	50.1	50.6	14.7	60.8	32.6

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20˚C.
*PSACR & ACR not specified in ANSI/TIA 568-C.2

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color	Spool CMR (Non-Plenum)	Spool CMP (Plenum)
Blue	**7133786**	**7131786**
White	**7133787**	**7131787**
Yellow	**7133788**	**7131788**
Gray	**7133789**	**7131789**

Jacket Color	Spool CMR (Non-Plenum)	Spool CMP (Plenum)
Red	**7133790**	**7131790**
Orange	**7133791**	**7131791**
Green	**7133792**	**7131790**
Purple	**7133730**	**7131730**

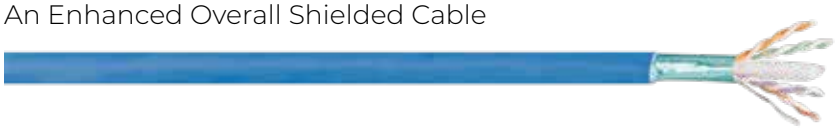
Non-stock items may be subject to minimum order quantities.

prysmian GenSPEED®

ETL LISTED UL LISTED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 10 Category 6A F/UTP (ScTP) Cable

An Enhanced Overall Shielded Cable



Features and Benefits

- An overall shielded or foiled-twisted pair (F/UTP) cable, requiring grounding and providing industry-leading protection from external cable noise sources, also known as alien crosstalk (PSANEXT and PSAACRF)
- CMP 105C jacket rating provides consistent performance in a wide range of operating environments.
- UL Listed CMP-LP 0.7A with certified performance for high power PoE applications
- The internal separator optimizes internal pair geometry to yield superior electrical performance and maintain flexibility. This unique cross-web stabilizes each pair to create a smaller, round cable profile
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, and PoE++
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

Standard Compliances

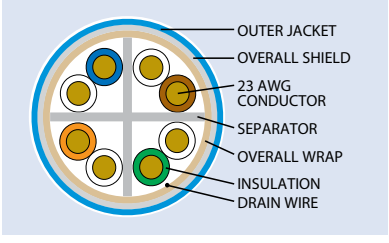
- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMR-LP (0.5A) for Non-Plenum*
- UL Listed CMP-LP (0.7A) for Plenum**
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- SO/IEC 11801 Ed. 2.0 (Class E_A)

* 0.5A is the ampacity rating of the cable, which equates to 100 watts using 50 volts over four pairs.
** 0.7A is the ampacity rating of the cable, which equates to 140 watts using 50 volts over four pairs.

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38	7.00
DC Resistance Unbalance Individual Pair %	4.00	< 1
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Insulation
- Non-Plenum: Thermoplastic
- Plenum: Fluoropolymer

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

Separator
- Cross-Web

Core Tape
- Non-Plenum: Mylar
- Plenum: Mylar

Drain Wire
- 24 AWG solid tinned copper

Shield
- Polyester-backed aluminum foil (aluminum side in)

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

PHYSICAL DATA	CMPR (Plenum)	CMR (Non-Plenum)
Nominal Cable Diameter (in)	0.260	0.265
Nominal Cable Weight (lbs/1000 ft)	33	40
Minimum Bend Radius (in)	2.5	2.5
Maximum Pulling Force (lbs)	40	40
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +105	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)	PSANEXT (min)			PSAACRF (min)		
	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	PG Guaranteed	PG Typical	TIA Guaranteed	PG Guaranteed	PG Typical
1	2.1	74.3	20.0	67.0	73.0	85.0	67.0	73.0	85.0
4	3.8	65.3	23.0	67.0	73.0	85.0	66.2	72.2	84.2
10	5.9	59.3	25.0	67.0	73.0	85.0	58.2	64.2	76.2
16	7.5	56.2	25.0	67.0	73.0	85.0	54.1	60.1	72.1
20	8.4	54.8	25.0	67.0	73.0	85.0	52.2	58.2	70.2
31.25	10.5	51.9	23.6	67.0	73.0	85.0	48.3	54.3	66.3
62.5	15.0	47.4	21.5	65.6	71.6	83.6	42.3	48.3	60.3
100	19.1	44.3	20.1	62.5	68.5	80.5	38.2	44.2	56.2
200	23.7	41.7	18.9	59.9	65.9	77.9	34.7	40.7	52.7
250	27.6	39.8	18.0	58.0	64.0	76.0	32.2	38.2	50.2
300	31.1	38.3	17.3	56.5	62.5	74.5	30.2	36.2	48.2
350	34.3	37.1	16.8	55.3	61.3	73.3	28.7	34.7	46.7
400	40.1	35.3	15.9	53.5	59.5	71.5	26.2	32.2	44.2
500	45.3	33.8	15.2	52.0	58.0	70.0	24.2	30.2	42.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C.
*PSACR & ACR not specified in ANSI/TIA 568-D

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color		Spool CMP (Plenum)	Spool CMR (Non-Plenum)
	Blue	**7141586**	**7143586**
	White	**7141587**	**7143587**
	Yellow	**7141588**	**7143588**
	Gray	**7141589**	**7143589**

Jacket Color		Spool CMP (Plenum)	Spool CMR (Non-Plenum)
	Red	**7141590**	**7143590**
	Orange	**7141590**	**7143590**
	Green	**7141892**	**7143592**
	Purple	**7141593**	**7143593**

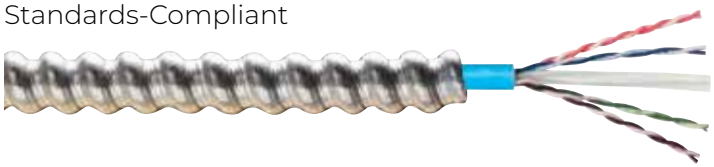
Non-stock items may be subject to minimum order quantities.

prysmian GenSPEED®

ETL LISTED UL LISTED CMR TIA RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 10 Category 6A Interlocked Armor Cable

Standards-Compliant



Features and Benefits

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

Applications

- IEEE 802.3: 10G BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE++
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video
- Indoor applications only

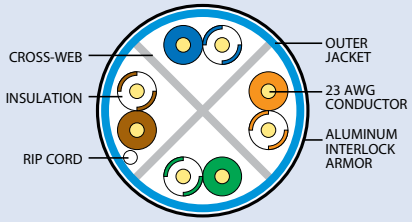
Standard Compliances

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

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.20
DC Resistance Unbalance Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-600 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Insulation
- Fluoropolymer

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

Rip Cord
- Applied longitudinally under jacket

Separator
- Cross-web

Jacket
- Flame-Retardant PVC

PHYSICAL DATA

	CMP (Plenum)
	1 Cable
Nominal Cable Diameter (in)	0.450
Nominal Cable Weight (lbs/1000 ft)	86.4
Minimum Bend Radius (in)	5.40
Maximum Pulling Force (lbs)	32
Temperature Rating (˚C)	
Installation:	-30 to +60
Operation:	-45 to +90

ELECTRICAL PERFORMANCE

Frequency MHz	**Insertion Loss** (max)	**NEXT** (min)	**Return Loss** (min)	**PSANEXT** (min)	**PSAACRF** (min)
	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed
1	2.1	74.3	20.0	67.0	67.0
4	3.8	65.3	23.0	67.0	66.2
10	5.9	59.3	25.0	67.0	58.2
16	7.5	56.2	25.0	67.0	54.1
20	8.4	54.8	25.0	67.0	52.2
31.25	10.5	51.9	23.6	67.0	48.3
62.5	15.0	47.4	21.5	65.6	42.3
100	19.1	44.3	20.1	62.5	38.2
200	23.7	41.7	18.9	59.9	34.7
250	27.6	39.8	18.0	58.0	32.2
300	31.1	38.3	17.3	56.5	30.2
350	34.3	37.1	16.8	55.3	28.7
400	40.1	35.3	15.9	53.5	26.2
500	45.3	33.8	15.2	52.0	24.2

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

PART NUMBER

Standard packaging: 1000' Spool

Jacket Color	Spool
Blue	9141300

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

prysmian GenSPEED®

GenSPEED® Category 6A Outside Plant Cable

Standards-Compliant

Features and Benefits

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

Applications

- IEEE 802.3: 10G BASE-T, 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video
- Duct and conduit installations

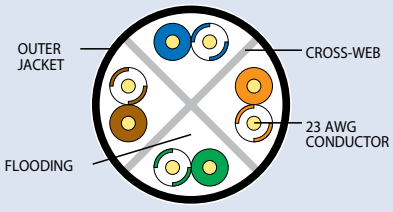
Standard Compliances

- ANSI/TIA 568.2-D
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ANSI/NEMA WC 66
- ISO/IEC 11801 Ed. 2.0 (Class E)
- Telcordia (Bellcore) Specification GR-421-CORE Water Penetration Requirement

ELECTRICAL CHARACTERISTICS

DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38
DC Resistance Unbalance Individual Pair %	4.00
Delay Skew ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-600 MHz	Ohms 100 ± 15

CROSS-SECTION



CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Separator
- Cross-web

Insulation
- High Density Polyethylene

Flooding Compound
- Waterproof gel

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

Jacket
- UV- and Abrasion-Resistant Polyethylene

PHYSICAL DATA

Nominal Cable Diameter (in)	0.365
Nominal Cable Weight (lbs/1000 ft)	47.3
Minimum Bend Radius (in)	1.5
Maximum Pulling Force (lbs)	40
Temperature Rating (˚C)	
Installation:	-30 to +60
Operation:	-45 to +80

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)	PSANEXT (min)	PSAACRF (min)
	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed
1	2.1	74.3	20.0	67.0	67.0
4	3.8	65.3	23.0	67.0	66.2
10	5.9	59.3	25.0	67.0	58.2
16	7.5	56.2	25.0	67.0	54.1
20	8.4	54.8	25.0	67.0	52.2
31.25	10.5	51.9	23.6	67.0	48.3
62.5	15.0	47.4	21.5	65.6	42.3
100	19.1	44.3	20.1	62.5	38.2
200	23.7	41.7	18.9	59.9	34.7
250	27.6	39.8	18.0	58.0	32.2
300	31.1	38.3	17.3	56.5	30.2
350	34.3	37.1	16.8	55.3	28.7
400	40.1	35.3	15.9	53.5	26.2
500	45.3	33.8	15.2	52.0	24.2

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

PART NUMBER

Standard packaging: 1000' Spool

Jacket Color	Spool
Black	**8136100**

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

prysmian GenSPEED®

RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 10 UTP Indoor/Outdoor Plenum Category 6A Cable

Features

- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

Electrical Characteristics

- Outer jacket ensures electrical performance during long term water submersion
- Dry core construction for cleaner termination
- UL Listed CMP-LP 0.8A with certified performance for high-power PoE applications

Applications

- Intended for installation in below-grade conduit, duct, and other wet environments
- Cable jacket must remain unabraded to avoid water ingress. Water must not be allowed to ingress into the cable ends
- IEEE 802.3: 10G BASE-T, 1000 BASE-T
- 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM

Standard Compliances

- NEC/CEC Type CMP (NFPA 262) for plenum
- UL Listed SUN RES (720 hour) Rated to be installed permanently outdoor in direct sunlight
- ANSI/TIA 568.2-D
- RoHS Compliant Directive 2011/65/EU
- UL 444
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class EA)
- Wet Location rated per UL 83
- UL Listed CMP-LP 0.8A - equivalent to 160 watts using 50 volts over four pairs
- Red List Free

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Separator
- Cross-web

Insulation
- Fluoropolymer

Core Wrap
- Polyester encapsulated isolation core wrap

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

Jacket
- Fluoropolymer

PHYSICAL DATA

Nominal Cable Diameter (in)	0.260
Nominal Cable Weight (lbs/1000 ft)	33
Minimum Bend Radius (in)	2.1
Maximum Pulling Force (lbs)	40
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +125

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color		Spool
		CMP (Plenum)
	White	7141001
	Black	7141007

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

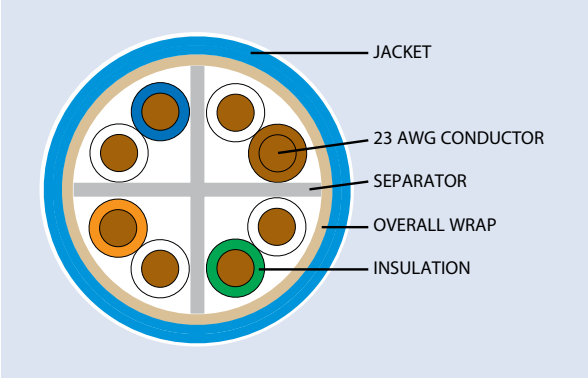
10 UTP Indoor/Outdoor Plenum Category 6A Cable

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR** (min)	ACR** (min)	Insertion Loss (min)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	PSANEXT (min)		PSAACRF (min)	
	PG Guaranteed	PG Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	TIA Guaranteed	PG Guaranteed	TIA Guaranteed	PG Guaranteed
1	70.2	72.2	2.1	72.3	74.3	64.8	67.8	20.0	40.0	67.0	69.0	67.0	69.0
4	59.5	61.5	3.8	63.3	65.3	52.8	55.8	23.0	40.0	67.0	69.0	66.2	68.2
10	51.4	53.4	5.9	57.3	59.3	44.8	47.8	25.0	40.0	67.0	69.0	58.2	60.2
16	46.8	48.8	7.5	54.2	56.2	40.7	43.7	25.0	38.0	67.0	69.0	54.1	56.1
20	44.4	46.4	8.4	52.8	54.8	38.8	41.8	25.0	37.0	67.0	69.0	52.2	54.2
31.25	39.4	41.4	10.5	49.9	51.9	34.9	37.9	23.6	35.1	67.0	69.0	48.3	50.3
62.5	30.4	32.4	15.0	45.4	47.4	28.9	31.9	21.5	32.0	65.6	67.6	42.3	44.3
100	23.2	25.2	19.1	42.3	44.3	24.8	27.8	20.1	30.0	62.5	64.5	38.2	40.2
150	16.0	18.0	23.7	39.7	41.7	21.3	24.3	18.9	28.2	59.9	61.9	34.7	36.7
200	10.2	12.2	27.6	37.8	39.8	18.8	21.8	18.0	27.0	58.0	60.0	32.2	34.2
250	5.2	7.2	31.1	36.3	38.3	16.8	19.8	17.3	26.0	56.5	58.5	30.2	32.2
300	0.9	2.9	34.3	35.1	37.1	15.3	18.3	16.8	25.2	55.3	57.3	28.7	30.7
400	—	—	40.1	33.3	35.3	12.8	15.8	15.9	24.0	53.5	55.5	26.2	28.2
500	—	—	45.3	31.8	33.8	10.8	13.8	15.2	23.0	52.0	54.0	24.2	26.2
600*	—	—	50.1*	30.6*	32.6*	9.2*	12.2*	14.7*	22.2*	—	50.8*	—	22.6*
700*	—	—	54.5*	29.6*	31.6*	7.9*	10.9*	14.2*	21.5*	—	49.8*	—	21.3*
750*	—	—	56.7*	29.2*	31.2*	7.3*	10.3*	14.0*	21.2*	—	49.4*	—	20.7*

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

CROSS-SECTION



ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38	7.00
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (Max) ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

prysmian GenSPEED®

Data subject to change without notice.

Gen*SPEED*® Category 6 Cables

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

Gen*SPEED* 6 is a standard-compliant Category 6 cable that features a unique tape design engineered for consistent electrical performance. Its TRU-Mark® print legend contains footage markings from 1000’ to 0’, making usage easier to track. Also ask your Prysmian representative about our 17 FREE™ line of riser-rated Gen*SPEED* 6 cables, which may qualify for LEED credit from the U.S. Green Building Council.

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

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

All Gen*SPEED* Category 6 cables are third-party verified for guaranteed performance and conform to ANSI/TIA/EIA 568.2-D standards. Gen*SPEED* 6 and 6000 Enhanced are offered in a variety of colors and can be shipped in an easy-to-use Pull-Pac® or Spool-Pac® cartons or on a spool. Gen*SPEED* 6500 Premium is available in a Spool-Pac or on a spool.

Index **Page**

GenSPEED® Category 6 Quick Reference Guide

JACKET COLOR	PACKAGE	PREMIUM		ENHANCED		STANDARD	
		Category 6 GenSPEED® 6500 Premium (p. 23)		Category 6 GenSPEED® 6000 Enhanced (p. 25)		Category 6 GenSPEED® 6 (p. 27)	
		CMR	CMP	CMR	CMP	CMR	CMP
Blue							
	Pull-Pac			7133900	7131900	7133800	7131100
	Spool-Pac®	7133930	7131930	7133940	7131940	7133840	7131140
	Spool	7133970	7131970	7133960	7131960	7133860	7131160
White							
	Pull-Pac			7133901	7131901	7133801	7131101
	Spool-Pac®	7133931	7131931	7133941	7131941	7133841	7131141
	Spool	7133971	7131971	7133961	7131961	7133861	7131161
Yellow							
	Pull-Pac			7133902	7131902	7133802	7131102
	Spool-Pac®	7133932	7131932	7133942	7131942	7133842	7131142
	Spool	7133972	7131972	7133962	7131962	7133862	7131162
Gray							
	Pull-Pac			7133903	7131903	7133803	7131103
	Spool-Pac®	7133933	7131933	7133943	7131943	7133843	7131143
	Spool	7133973	7131973	7133963	7131963	7133863	7131163
Red							
	Pull-Pac			7133904	7131904	7133804	7131104
	Spool-Pac®	7133934	7131934	7133944	7131944	7133844	7131144
	Spool	7133974	7131974	7133964	7131964	7133864	7131164
Orange							
	Pull-Pac			7133905	7131905	7133805	7131105
	Spool-Pac®	7133935	7131935	7133945	7131945	7133845	7131145
	Spool	7133975	7131975	7133965	7131965	7133865	7131165
Green							
	Pull-Pac			7133906	7131906	7133806	7131106
	Spool-Pac®	7133936	7131936	7133946	7131946	7133846	7131146
	Spool	7133976	7131976	7133966	7131966	7133866	7131166
Black							
	Pull-Pac			7133907	7131907	7133807	7131107
	Spool-Pac®	7133937	7131937	7133947	7131947	7133847	7131147
	Spool	7133977	7131977	7133967	7131967	7133867	7131167
Pink							
	Pull-Pac			7133908	7131908	7133808	7131108
	Spool-Pac®	7133938	7131938	7133948	7131948	7133848	7131148
	Spool	7133978	7131978	7133968	7131968	7133868	7131168
Purple							
	Pull-Pac			7133909	7131908	7133809	7131109
	Spool-Pac®	7133939	7131939	7133959	7131959	7133859	7131159
	Spool	7133979	7131979	7133969	7131969	7133869	7131169

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

GenSPEED® 6500 Premium Category 6 Cable

Signal Strength and Power

Features and Benefits

- Designed and engineered with precision balance to offer ultimate headroom
- High-end optimized performance to support the most bandwidth-intense applications
- New and improved separator construction allowing for more pair separation
- Performance guaranteed to 350 MHz
- Improved cable temperature rating (90°C Plenum, 105°C Riser) for greater protection against increased operating temperatures and for high-wattage applications
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMR-LP (0.5A) for Non-Plenum*
- UL Listed CMP-LP (0.7A) for Plenum**
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)

* 0.7A is the ampacity rating of the cable, which equates to100 watts using 50 volts over four pairs.
** 0.6A is the ampacity rating of the cable, which equates to140 watts using 50 volts over four pairs.

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Insulation
- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

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

Separator
- Cross-web

Rip Cord
- Applied longitudinally under jacket

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

PHYSICAL DATA

	CMR (Non-Plenum)	**CMP** (Plenum)
Nominal Cable Diameter (in)	0.260	0.255
Nominal Cable Weight (lbs/1000 ft)	32	31
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	50	50
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +105

PART NUMBERS

Standard packaging: 1000' Spool

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

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply.

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

prysmian GenSPEED®

LISTED VERIFIED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 6500 Premium Category 6 Cable

ELECTRICAL PERFORMANCE

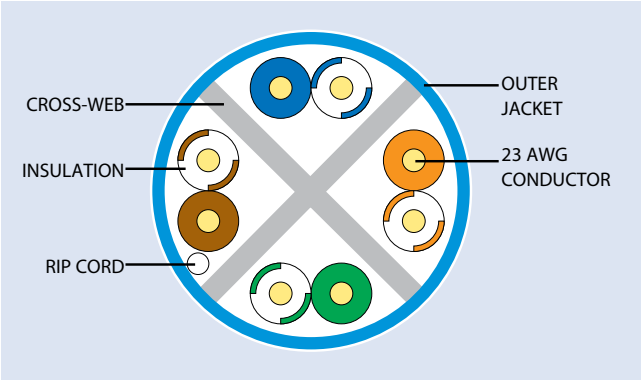
Frequency MHz	PSACR** (min)	ACR** (min)	Insertion Loss (min)		PSNEXT (min)		NEXT (min)	
	PG Guaranteed	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed
1	77.4	79.4	2.0	1.9	72.3	79.3	74.3	81.3
4	66.8	68.8	3.8	3.5	63.3	70.3	65.3	72.3
10	58.8	60.8	6.0	5.5	57.3	64.3	59.3	66.3
16	54.2	56.2	7.6	7.0	54.2	61.2	56.2	63.2
20	51.9	53.9	8.5	7.8	52.8	59.8	54.8	61.8
31.25	47.0	49.0	10.7	9.9	49.9	56.9	51.9	58.9
62.5	38.0	40.0	15.4	14.3	45.4	52.4	47.4	54.4
100	30.8	32.8	19.8	18.5	42.3	49.3	44.3	51.3
200	17.5	19.5	29.0	27.2	37.8	44.8	39.8	46.8
250	12.4	14.4	32.8	30.9	36.3	43.3	38.3	45.3
350	3.5	5.5	—	37.6	—	41.1	—	43.1
500	—	—	—	46.5	—	38.8	—	40.8

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20˚C. Results beyond 350 MHz for reference only.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

Frequency MHz	PSACRF (min)		ACRF (min)		Return Loss (min)		TCL (min)		ELTCTL (min)	
	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed
1	64.8	70.8	67.8	73.8	20.0	20.0	40.0	40.0	35.0	35.0
4	52.8	58.8	55.8	61.8	23.0	23.0	40.0	40.0	23.0	23.0
10	44.8	50.8	47.8	53.8	25.0	25.0	40.0	40.0	15.0	15.0
16	40.7	46.7	43.7	49.7	25.0	25.0	38.0	38.0	10.9	10.9
20	38.8	44.8	41.8	47.8	25.0	25.0	37.0	37.0	9.0	9.0
31.25	34.9	40.9	37.9	43.9	23.6	25.0	35.1	35.1	—	5.1
62.5	28.9	34.9	31.9	37.9	21.5	23.5	32.0	32.0	—	5.0
100	24.8	30.8	27.8	33.8	20.1	22.1	30.0	30.0	—	5.0
200	18.8	24.8	21.8	27.8	18.0	20.0	27.0	27.0	—	5.0
250	16.8	23.8	19.8	26.8	17.3	19.3	26.0	26.0	—	5.0
350	—	19.9	—	22.9	—	18.3	—	—	—	—
500	—	16.8	—	19.8	—	17.2	—	—	—	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20˚C. Results beyond 350 MHz for reference only.

CROSS-SECTION



ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	6.50
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (Max) ns/100 m	45	35
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

prysmian GenSPEED®

GenSPEED® 6000 Enhanced Category 6 Cable

Optimally Balanced Enhanced Performance

Features and Benefits

- Innovative cross-web design allowing for maximum pair separation, increasing key electrical performance parameters
- Performance guaranteed to 350 MHz
- Improved cable temperature rating (105°C Plenum, 75°C Riser) for greater protection against increased operating temperatures
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMP-LP (0.6A) for Plenum*
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)

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

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Separator
- Cross-web

Insulation
- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Rip Cord
- Applied longitudinally under jacket

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

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

PHYSICAL DATA

	CMR (Non-Plenum)	**CMP** (Plenum)
Nominal Cable Diameter (in)	0.240	0.230
Nominal Cable Weight (lbs/1000 ft)	28	28
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	32	32
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +105

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color		Pull-Pac® II		Spool-Pac®		Spool	
		CMR (Non-Plenum)	**CMP** (Plenum)	**CMR** (Non-Plenum)	**CMP** (Plenum)	**CMR** (Non-Plenum)	**CMP** (Plenum)
	Blue	**7133900**	**7131900**	**7133940**	**7131940**	**7133960**	**7131960**
	White	**7133901**	**7131901**	**7133941**	**7131941**	**7133961**	**7131961**
	Yellow	**7133902**	**7131902**	**7133942**	**7131942**	**7133962**	**7131962**
	Gray	**7133903**	**7131903**	**7133943**	**7131943**	**7133963**	**7131963**
	Red	**7133904**	**7131904**	**7133944**	**7131944**	**7133964**	**7131964**
	Orange	**7133905**	**7131905**	**7133945**	**7131945**	**7133965**	**7131965**
	Green	**7133906**	**7131906**	**7133946**	**7131946**	**7133966**	**7131966**
	Black	**7133907**	**7131907**	**7133947**	**7131947**	**7133967**	**7131967**
	Pink	**7133908**	**7131908**	**7133948**	**7131948**	**7133968**	**7131968**
	Purple	**7133909**	**7131909**	**7133949**	**7131949**	**7133969**	**7131969**

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply.

Non-stock items may be subject to minmum order quantities.

prysmian GenSPEED®

GenSPEED® 6000 Enhanced Category 6 Cable

ELECTRICAL PERFORMANCE

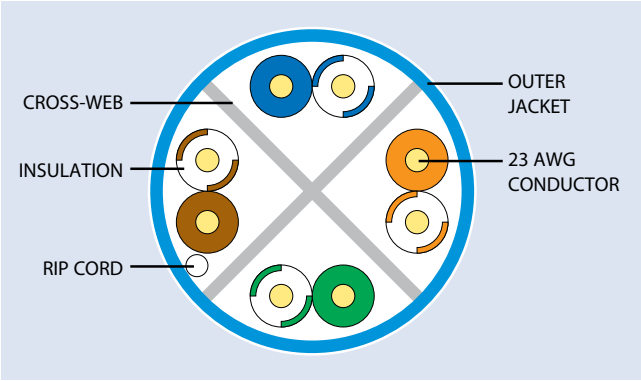
Frequency MHz	PSACR** (min)	ACR** (min)	Insertion Loss (min)		PSNEXT (min)		NEXT (min)	
	PG Guaranteed	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed
1	75.3	77.3	2.0	2.0	72.3	77.3	74.3	79.3
4	64.5	66.5	3.8	3.8	63.3	68.3	65.3	70.3
10	56.4	58.4	6.0	5.9	57.3	62.3	59.3	64.3
16	51.7	53.8	7.6	7.5	54.2	59.3	56.2	61.3
20	49.4	51.4	8.5	8.4	52.8	57.8	54.8	59.8
31.25	44.3	46.3	10.7	10.6	49.9	54.9	51.9	56.9
62.5	35.1	37.1	15.4	15.3	45.4	50.4	47.4	52.4
100	27.6	29.6	19.8	19.7	42.3	47.3	44.3	49.3
150	20.0	22.0	24.7	24.7	39.7	44.7	41.7	46.7
200	13.8	15.8	29.0	29.0	37.8	42.8	39.8	44.8
250	8.7	10.7	32.8	32.6	36.3	41.3	38.3	43.3
350	—	1.7	—	39.5	—	39.2	—	41.2
500	—	—	—	48.6	—	36.8	—	38.8

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20˚C. Results beyond 350 MHz for reference only.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

Frequency MHz	PSACRF (min)		ACRF (min)		Return Loss (min)		TCL (min)		ELTCTL (min)	
	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed	TIA 568.2-D	PG Guaranteed
1	64.8	69.8	67.8	72.8	20.0	20.0	40.0	40.0	35.0	35.0
4	52.8	57.7	55.7	60.7	23.0	23.6	40.0	40.0	23.0	23.0
10	44.8	49.8	47.8	52.8	25.0	26.0	40.0	40.0	15.0	15.0
16	40.7	45.7	43.7	48.7	25.0	26.0	38.0	38.0	10.9	10.9
20	38.8	43.7	41.7	46.7	25.0	26.0	37.0	37.0	9.0	9.0
31.25	34.9	39.9	37.9	42.9	23.6	25.0	35.1	35.1	—	5.1
62.5	28.9	33.8	31.8	36.8	21.5	23.5	32.0	32.0	—	5.0
100	24.8	29.8	27.8	32.8	20.1	22.5	30.0	30.0	—	5.0
150	21.3	26.3	24.3	29.3	18.9	21.6	28.2	28.2	—	5.0
200	18.8	23.8	21.8	26.8	18.0	21.0	27.0	27.0	—	5.0
250	16.8	21.8	19.8	24.8	17.3	20.5	26.0	26.0	—	5.0
350	—	18.9	—	21.9	—	19.8	—	—	—	—
500	—	15.8	—	18.8	—	19.0	—	—	—	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20˚C. Results beyond 350 MHz for reference only.

CROSS-SECTION



ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.20
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Delay Skew (Max) ns/100 m	45	CMP: 30 CMR: 40
Nom. Velocity of Propagation % Speed of Light	CMP: 70 CMR: 68	
Characteristic Impedance Frequency (f): 1-500 MHz	Ohms 100 ± 15	

prysmian GenSPEED®

GenSPEED® 6 Category 6 Cable (23 AWG)

Standards-Compliant Extended Frequency

Features and Benefits

- Unique separator design engineered for consistent electrical performance
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance
- Made in U.S.A.

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ISO/IEC 11801 Ed. 2.0 (Class E)

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Separator
- Divider

Insulation
- Non-Plenum: Polyolefin
- Plenum: FEP, Polyolefin

Rip Cord
- Applied longitudinally under jacket

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

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

PHYSICAL DATA

	CMR (Non-Plenum)	**CMP** (Plenum)
Nominal Cable Diameter (in)	0.220	0.205
Nominal Cable Weight (lbs/1000 ft)	24	25
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	32	32
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color		Pull-Pac® II		Spool-Pac®		Spool	
		CMR (Non-Plenum)	**CMP** (Plenum)	**CMR** (Non-Plenum)	**CMP** (Plenum)	**CMR** (Non-Plenum)	**CMP** (Plenum)
	Blue	**7133800**	**7131100**	**7133840**	**7131140**	**7133860**	**7131160**
	White	**7133801**	**7131101**	**7133841**	**7131141**	**7133861**	**7131161**
	Yellow	**7133802**	**7131102**	**7133842**	**7131142**	**7133862**	**7131162**
	Gray	**7133803**	**7131103**	**7133843**	**7131143**	**7133863**	**7131163**
	Red	**7133804**	**7131104**	**7133844**	**7131144**	**7133864**	**7131164**
	Orange	**7133805**	**7131105**	**7133845**	**7131145**	**7133865**	**7131165**
	Green	**7133806**	**7131106**	**7133846**	**7131146**	**7133866**	**7131166**
	Black	**7133807**	**7131107**	**7133847**	**7131147**	**7133867**	**7131167**
	Pink	**7133808**	**7131108**	**7133848**	**7131148**	**7133868**	**7131168**
	Purple	**7133809**	**7131109**	**7133849**	**7131149**	**7133869**	**7131169**

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply.

Non-stock items may be subject to minmum order quantities.

prysmian GenSPEED®

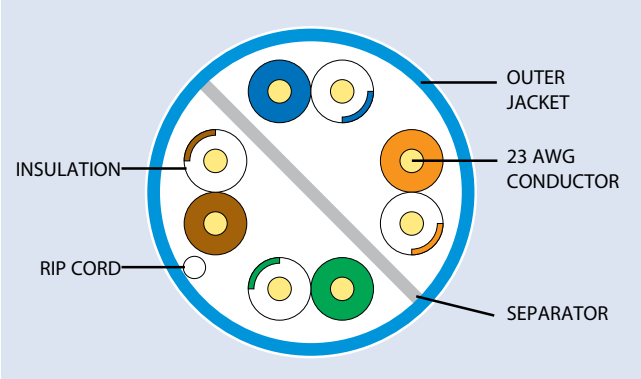
GenSPEED® 6 Category 6 Cable (23 AWG)

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR** (min)	ACR** (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)	ELTCTL (min)
1	70.3	72.3	2.0	72.3	74.3	64.8	67.8	20.0	40.0	35.0
4	59.3	61.5	3.8	63.3	65.3	52.8	55.7	23.0	40.0	23.0
10	51.3	53.3	6.0	57.3	59.3	44.8	47.8	25.0	40.0	15.0
16	46.7	48.7	7.6	54.2	56.2	40.7	43.7	25.0	38.0	10.9
20	44.3	46.3	8.5	52.8	54.8	38.8	41.7	25.0	37.0	9.0
31.25	39.2	41.2	10.7	49.9	51.9	34.9	37.9	23.6	35.1	—
62.5	29.9	32.0	15.4	45.4	47.4	28.9	31.8	21.5	32.0	—
100	22.5	24.5	19.8	42.3	44.3	24.8	27.8	20.1	30.0	—
150	14.9	16.9	24.7	39.7	41.7	21.3	24.3	18.9	28.2	—
200	8.8	10.8	29.0	37.8	39.8	18.8	21.8	18.0	27.0	—
250	3.5	5.5	32.8	36.3	38.3	16.8	19.8	17.3	26.0	—
350	—	—	39.8	34.1	36.1	13.9	16.9	16.3	—	—
400	—	—	43.0	33.3	35.3	12.8	15.8	15.9	—	—
500	—	—	48.9	31.8	33.8	10.8	13.8	15.2	—	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20˚C. Results beyond 350 MHz for reference only.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

CROSS-SECTION



ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.20
DC Resistance Unbalanced Individual Pair %	4.00	< 1
Nom. Velocity of Propagation % Speed of Light	CMP: 70 CMR: 68	
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15	

GenSPEED® 6 EfficienCMAX® Category 6 Cable (22 AWG)

Standards-Compliant with Enhanced PoE Performance

FEATURING EFFICIENCMAX technology to support PoE applications

Features and Benefits

- Large-gauge conductors for reduced heat generation, higher maximum currentcarrying capabilities and improved attenuation performance
- Improved cable temperature rating (105°C) for greater protection against increased operating temperatures and for high-wattage applications
- Unique separator design engineered for consistent electrical performance
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video
- Supports the growth of higher-wattage devices (IT/IP, IoT, and IoE)
- Compatible with new higher-speed, higherpower USB 3.1 SuperSpeed

Standard Compliances

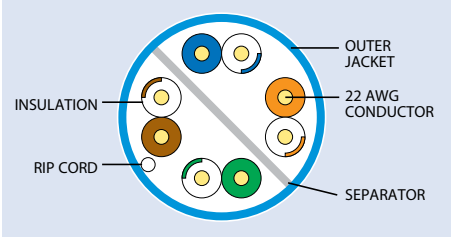
- ANSI/TIA 568.2-D
- TIA TSB-184:2009
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMP-LP (0.6A)*
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)

* 0.7A is the ampacity rating of the cable, which equates to 140 watts using 50 volts over four pairs.

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38	6.50
DC Resistance Unbalance Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45	35
Nom. Velocity of Propagation % Speed of Light	74	
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION

Conductors
- 22 AWG solid bare annealed copper

Separator
- Divider

Insulation
- Fluoropolymer

Rip Cord
- Applied longitudinally under jacket

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

Jacket
- Low-Smoke, Flame-Retardant PVC

PHYSICAL DATA	CMP (Plenum)
Nominal Cable Diameter (in)	0.240
Nominal Cable Weight (lbs/1000 ft)	29
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (˚C)	
Installation:	0 to +60
Operation:	-20 to +105

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	1.9	74.3	20.0
4	3.5	65.3	23.0
10	5.5	59.3	25.0
16	7.0	56.2	25.0
20	7.9	54.8	25.0
31.25	9.9	51.9	23.6
62.5	14.3	47.4	21.5
100	18.4	44.3	20.1
150	23.0	41.7	18.9
200	27.0	39.8	18.0
250	30.6	38.3	17.3
350	37.0	36.1	16.3
400	40.0	35.3	15.9
500	45.5	33.8	15.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz are for reference only.

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color		Pull-Pac®II CMP (Plenum)
	Blue	**7131800**
	White	**7131801**
	Yellow	**7131802**
	Gray	**7131803**

Jacket Color		Pull-Pac®I CMP (Plenum)
	Red	**7131804**
	Orange	**7131805**
	Green	**7131806**

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

prysmian GenSPEED®

ETL LISTED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

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

The Most Versatile Cable in the Industry

FEATURING EFFICIENC MAX technology to support PoE applications

Features & Benefits

- 100% fluoropolymer insulation construction
- Performance guaranteed to 350 MHz
- Guaranteed 7% Insertion Loss improvement over Category 6 industry standard, substantially increasing headroom of ACR and PSACR
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Made in U.S.A.

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- Digital Video
- Broadband and Baseband Analog Video
- CDDI, Token Ring, ATM
- Supports the growth of higher-wattage devices (IT/IP, IoT, and IoE)
- Compatible with new higher-speed, higher-power USB 3.1 SuperSpeed

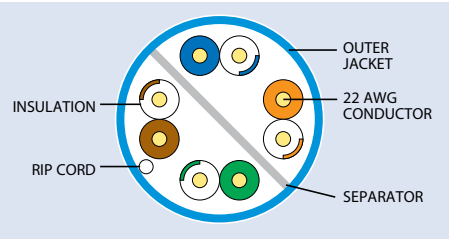
Standard Compliances

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

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38	6.50
DC Resistance Unbalance Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45	35
Nom. Velocity of Propagation % Speed of Light	74	
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION

Conductors
- 22 AWG solid bare annealed copper

Separator
- Divider

Insulation
- Fluoropolymer

Rip Cord
- Applied longitudinally under jacket

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

Jacket
- Low-Smoke, Flame-Retardant PVC

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

ELECTRICAL PERFORMANCE

Frequency MHz	PSACR* (min)	ACR* (min)	Insertion Loss (max)	PSNEXT (min)	NEXT (min)	PSACRF (min)	ACRF (min)	Return Loss (min)	TCL (min)
1	70.4	72.4	1.9	72.3	74.3	64.8	67.8	20.0	40.0
4	59.8	61.8	3.5	63.3	65.3	52.8	55.7	23.0	40.0
10	51.8	53.8	5.5	57.3	59.3	44.8	47.8	25.0	40.0
16	47.2	49.2	7.0	54.2	56.2	40.7	43.7	25.0	38.0
20	44.9	46.9	7.9	52.8	54.8	38.8	41.7	25.0	37.0
31.25	40.0	42.0	9.9	49.9	51.9	34.9	37.9	23.6	35.1
62.5	31.1	33.1	14.3	45.4	47.4	28.9	31.8	21.5	32.0
100	23.9	25.9	18.4	42.3	44.3	24.8	27.8	20.1	30.0
150	16.7	18.7	23.0	39.7	41.7	21.3	24.3	18.9	28.2
200	10.8	12.8	27.0	37.8	39.8	18.8	21.8	18.0	27.0
250	5.7	7.7	30.6	36.3	38.3	16.8	19.8	17.3	26.0
350	—	—	37.0	34.1	36.1	13.9	16.9	16.3	—
400	—	—	40.0	33.3	35.3	12.8	15.8	15.9	—
500	—	—	45.5	31.8	33.8	10.8	13.8	15.2	—

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350MHz are for reference only.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

Jacket Color		Pull-Pac®II CMP (Plenum)
	Blue	8131800
	White	8131801
	Yellow	8131802
	Gray	8131803

Jacket Color		Pull-Pac®I CMP (Plenum)
	Red	8131804
	Orange	8131805
	Green	8131806

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

prysmian GenSPEED®

ETL LISTED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 6 MAX® Category 6 OSP Cable (22 AWG)

The Most Versatile Cable in the Industry

FEATURING EFFICIENC MAX technology to support PoE applications

Features & Benefits

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

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video
- Duct and conduit installations
- Supports the growth of higher-wattage devices (IT/IP, IoT, and IoE)

Standard Compliances

- ANSI/TIA 568.2-D
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)
- Telecordia (Bellcore Specification GR-421-CORE Water Penetraion Requirement

CONSTRUCTION

Conductors
• 22 AWG solid bare annealed copper

Separator
• Cross-webr

Insulation
• Polyolefin

Flooding Compound
• Waterproof gel

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

Jacket
• UV- and abrasion-resisant polyethylene

PHYSICAL DATA

Nominal Cable Diameter (in)	0.295
Nominal Cable Weight (lbs/1000 ft)	40
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (˚C)	
Installation:	-30 to +60
Operation:	-45 to +80

ELECTRICAL CHARACTERISTICS

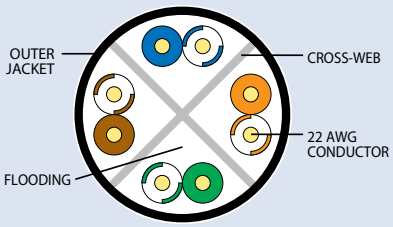
	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	6.50
DC Resistance Unbalance Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45	35
Nom. Velocity of Propagation % Speed of Light	74	
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15	

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	1.9	74.3	20.0
4	3.5	65.3	23.0
10	5.5	59.3	25.0
16	7.0	56.2	25.0
20	7.9	54.8	25.0
31.25	9.9	51.9	23.6
62.5	14.3	47.4	21.5
100	18.4	44.3	20.1
200	27.0	39.8	18.0
250	30.6	38.3	17.3

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

CROSS-SECTION



PART NUMBER

Standard packaging: 1000' Reel

Jacket Color	Part Number
Black	8146100

prysmian GenSPEED®

RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 6 with 17 FREE® Category 6 Cable

Standards-Compliant

Features and Benefits

- No halogens
- Less toxic
- More environmentally friendly
- Increased flexibility for easy installation
- Unique tape design engineered for consistent electrical performance
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000′ to 0′
- Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

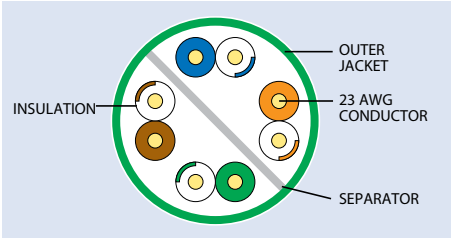
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)
- IEC 60754-1
- IEC 60754-2
- IEC 61034-2

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38	7.50
DC Resistance Unbalance Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45	30
Nom. Velocity of Propagation % Speed of Light	68	
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Separator
- Divider

Insulation
- Non-Plenum: Polyolefin

Jacket
- Low-Smoke, Flame-Retardant PVC

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

PHYSICAL DATA	CMP (Plenum)
Nominal Cable Diameter (in)	0.230
Nominal Cable Weight (lbs/1000 ft)	27
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (˚C)	
Installation:	0 to +60
Operation:	-20 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	72.3	20.0
4	3.8	63.3	23.0
10	6.0	57.3	25.0
16	7.6	54.2	25.0
20	8.5	52.8	25.0
31.25	10.7	49.9	23.6
62.5	15.4	45.4	21.5
100	19.8	42.3	20.1
150	24.7	39.7	18.9
200	29.0	37.8	18.0
250	32.8	36.3	17.3
350	39.8	34.1	16.3
400	43.0	33.3	15.9
500	48.9	31.8	15.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 250 MHz are for reference only.

PART NUMBERS

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

Jacket Color	Pull-Pac® II CMR (Non-Plenum)	Spool-Pac® CMR (Non-Plenum)	Spool CMR (Non-Plenum)
Blue	7133800-17F	7133840-17F	7133860-17F
White	7133801-17F	7133841-17F	7133861-17F
Yellow	7133802-17F	7133842-17F	7133862-17F
Gray	7133803-17F	7133843-17F	7133863-17F
Red	7133804-17F	7133844-17F	7133864-17F
Orange	7133805-17F	7133845-17F	7133865-17F
Green	7133806-17F	7133846-17F	7133866-17F
Black	7133807-17F	7133847-17F	7133867-17F
Pink	7133808-17F	7133848-17F	7133868-17F
Purple	7133809-17F	7133849-17F	7133869-17F

Note: Bulk reels are available as a special request with a maximum allowable length of 3000 feet per reel. Minimum run and lead time may apply.

Non-stock items may be subject to minmum order quantities.

prysmian GenSPEED®

ETL LISTED UL LISTED TIA RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 6 Category 6 F/UTP (ScTP) Cable

Standards-Compliant

Features and Benefits

- Foil shield reduces electromagnetic interference (EMI) for optimal performance
- Performance guaranteed to 250 MHz
- Improved cable temperature rating (105°C Plenum, 75°C Riser) for greater protection against increased operating temperatures and for high-wattage applications
- UL Listed CMP-LP 0.7A with certified performance for high power PoE applications
- TRU-Mark® print legend contains footage markings from 1000' to 0'

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL Listed CMR-LP (0.5A) for Non-Plenum*
- UL Listed CMP-LP (0.7A) for Plenum**
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)

* 0.5A is the ampacity rating of the cable, which equates to 100 watts using 50 volts over four pairs.
** 0.7A is the ampacity rating of the cable, which equates to 140 watts using 50 volts over four pairs

CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Insulation
- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

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

Separator
- Cross-Web

Core Tape
- Non-Plenum: Mylar
- Plenum: Mylar

Drain Wire
- 24 AWG solid tinned copper

Shield
- Polyester-backed aluminum foil (aluminum side in)

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

PHYSICAL DATA	**CMR** (Non-Plenum)	**CMP** (Plenum)
Nominal Cable Diameter (in)	0.265	0.260
Nominal Cable Weight (lbs/1000 ft)	34	39
Minimum Bend Radius (in)	2.5	2.5
Maximum Pulling Force (lbs)	40	40
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +105

ELECTRICAL PERFORMANCE

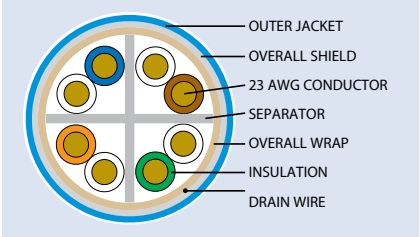
Frequency MHz	Insertion Loss (max)	PSNEXT (min)	Return Loss (min)
1	2.0	72.3	20.0
4	3.8	63.3	23.0
10	6.0	57.3	25.0
16	7.6	54.2	25.0
20	8.5	52.8	25.0
31.25	10.7	49.9	23.6
62.5	15.4	45.4	21.5
100	19.8	42.3	20.1
150	24.7	39.7	18.9
200	29.0	37.8	18.0
250	32.8	36.3	17.3
350	39.8	34.1	16.3
400	43.0	33.3	15.9
500	48.9	31.8	15.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 250 MHz are for reference only.

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.00
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Spool

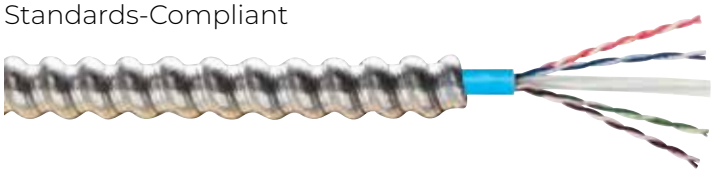
Jacket Color		CMR (Non-Plenum)	CMP (Plenum)
	Blue	**6133785**	**6131785**
	White	**6133787**	**6131787**
	Yellow	**6133788**	**6131788**
	Gray	**6133789**	**6131789**
	Red	**6133790**	**6131790**
	Orange	**6133791**	**6131791**
	Green	**6133792**	**6131792**
	Black	**6133793**	**6131793**
	Pink	**6133795**	**6131795**
	Purple	**6133794**	**6131794**

Non-stock items may be subject to minmum order quantities.

prysmian GenSPEED®

GenSPEED® 6 Category 6 Interlock Armored Cable

Standards-Compliant



Features and Benefits

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

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video
- Indoor applications only

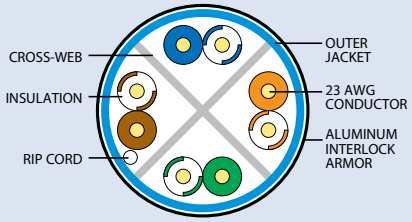
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.20
DC Resistance Unbalance Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45	
Nom. Velocity of Propagation % Speed of Light	70	
Characteristic Impedance Frequency (f): 1-600 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Insulation
- Polyolefin

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

Rip Cord
- Applied longitudinally under jacket

Separator
- Cross-web

Jacket
- Flame-Retardant PVC

PHYSICAL DATA

	CMR (Non-Plenum)
Nominal Cable Diameter (in)	0.450
Nominal Cable Weight (lbs/1000 ft)	82
Minimum Bend Radius (in)	5.40
Maximum Pulling Force (lbs)	32
Temperature Rating (˚C)	
Installation:	-30 to +60
Operation:	-45 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	**Insertion Loss** (max)	**NEXT** (min)	**Return Loss** (min)
1	2.0	74.3	20.0
4	3.8	65.3	23.0
10	6.0	59.3	25.0
16	7.6	56.2	25.0
20	8.5	54.8	25.0
31.25	10.7	51.9	23.6
62.5	15.4	47.4	21.5
100	19.8	44.3	20.1
200	24.7	41.7	18.9
250	29.0	39.8	18.0
300	32.8	38.3	17.3
350	39.8	36.1	16.3
400	43.0	35.3	15.9
500	48.9	33.8	15.2

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20˚C. Results beyond 350 MHz for reference only

PART NUMBER

Standard packaging: 1000' or 2000' Reel

Color	Part Number	Reel
Blue	9133300	1000'
Blue	9133300.2R	2000'

Color	Part Number	Reel
White	9133305	1000'
White	9133305.2R	2000'

prysmian GenSPEED®

GenSPEED® Category 6 Outside Plant Cable

Standards-Compliant

Features and Benefits

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

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video
- Duct and conduit installations

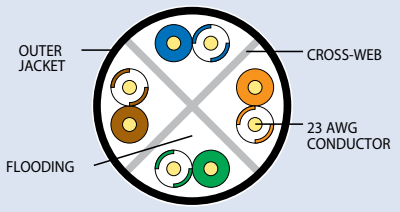
Standard Compliances

- ANSI/TIA 568.2-D
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-116-732
- ICEA S-102-700
- ANSI/NEMA WC 66
- ISO/IEC 11801 Ed. 2.0 (Class E)
- Telcordia (Bellcore) Specification GR-421-CORE Water Penetration Requirement

ELECTRICAL CHARACTERISTICS

DC Resistance Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalance Individual Pair %	4.00
Delay Skew ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	69
Characteristic Impedance Frequency (f): 1-250 MHz	Ohms 100 ± 15

CROSS-SECTION



CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Separator
- Cross-web

Insulation
- Polyolefin

Flooding Compound
- Waterproof gel

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

Jacket
- UV- and Abrasion-Resistant Polyethylene

PHYSICAL DATA

Nominal Cable Diameter (in)	0.250
Nominal Cable Weight (lbs/1000 ft)	32
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	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	74.3	20.0
4	3.8	65.3	23.0
10	6.0	59.3	25.0
16	7.6	56.2	25.0
20	8.5	54.8	25.0
31.25	10.7	51.9	23.6
62.5	15.4	47.4	21.5
100	19.8	44.3	20.1
200	29.0	39.8	18.0
250	32.8	38.3	17.3

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz are for reference only.

PART NUMBER

Standard packaging: Pull-Pac® II Reel

Jacket Color	Part Number
Black	**7136100**

prysmian GenSPEED®

RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 6 Category 6 Residential CMX Outdoor-CMR Cable

Standards-Compliant

Features and Benefits

- CMX rating allows the cable to be exposed to temperature variations for short distances from the Network Interface Device on the outside of a house to the point where the cable enters the house
- CMR rating also allows the cable to be used in traditional indoor CMR installations
- Sunlight-resistant
- Sequential footage markings
- Wax box for increased durability on job site.• Third-party verified for guaranteed performance

Applications

- IEEE 802.3: 1000 BASE-T, 100 BASE-TX, 10 BASE-T, PoE, PoE+
- ANSI/TIA 854: 1000 BASE-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

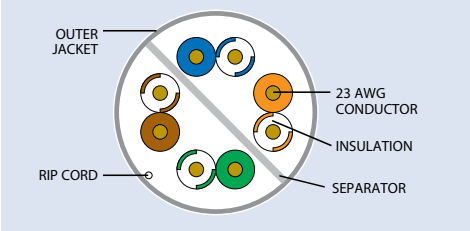
Standard Compliances

- ANSI/TIA 568.2-D
- NEC/CEC Type CMX Outdoor - CMR
- UL 444 Sunlight-Resistant
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ANSI/TIA 862 (Building Automation)
- ICEA S-100-685
- ICEA S-102-700
- ISO/IEC 11801 Ed. 2.0 (Class E)
- Telcordia GR-3164
- Telcordia GR-3164 Severe Cold Impact

ELECTRICAL CHARACTERISTICS

	Max.	Nom.
DC Resistance Ohms/100 m (328 ft) @ 20˚C	9.38	7.50
DC Resistance Unbalance Individual Pair %	4.00	< 1
Delay Skew ns/100 m	45	35
Nom. Velocity of Propagation % Speed of Light	68	
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15	

CROSS-SECTION



CONSTRUCTION

Conductors
- 23 AWG solid bare annealed copper

Insulation
- Polyolefin

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

Separator
- Divider

Rip Cord
- Applied longitudinally under jacket

Jacket
- Flame-Retardant PVC

PHYSICAL DATA

Nominal Cable Diameter (in)	0.240
Nominal Cable Weight (lbs/1000 ft)	28
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (˚C)	
Installation:	-30 to +60
Operation:	-45 to +75

ELECTRICAL PERFORMANCE

Frequency MHz	Insertion Loss (max)	NEXT (min)	Return Loss (min)
1	2.0	74.3	20.0
4	3.8	65.3	23.0
10	6.0	59.3	25.0
16	7.6	56.2	25.0
20	8.5	54.8	25.0
31.25	10.7	51.9	23.6
62.5	15.4	47.4	21.5
100	19.8	44.3	20.1
150	24.7	41.7	18.9
200	29.0	39.8	18.0
250	32.8	38.3	17.3
350	39.8	36.1	16.3
400	43.0	35.3	15.9
500	48.9	33.8	15.2

Note:Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Results beyond 350 MHz are for reference only.

PART NUMBER

Standard packaging: Pull-Pac® II Reel

Jacket Color		Part Number
	Blue	6137160
	White	6137147
	Gray	6137146

Jacket Color		Part Number
	Ivory	6137143
	Beige	6137144
	Black	6137145

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

prysmian GenSPEED®

UL LISTED UL VERIFIED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

Gen*SPEED*® Category 5e Cables

Gen*SPEED*® Category 5e cables are available in a wide variety of performance levels and constructions. With many options to pick from, you can select the Gen*SPEED* Category 5e product that meets your specific performance requirements.

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

With steady, continuous performance, Gen*SPEED* 5000 meets Category 5e requirements for present and future network requirements. Offered in a
variety of constructions, there is a Gen*SPEED* 5000 cable for nearly every application — including backbone, horizontal, outside, outside plant and residential cabling. Prysmian also offers its 17 FREE™ line of riser-rated Gen*SPEED* 5000 cables, which may qualify for LEED credit from the U.S. Green Building Council.

All Gen*SPEED* cables are 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 Gen*SPEED* Enhanced Cables.

Gen*SPEED*'s installer-friendly design means that customers won't lose valuable time and money. Gen*SPEED* 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, Prysmian provides customers with first-class technical support and a competitive advantage. Prysmian's comprehensive warranty program means that all Gen*SPEED* cables conform to standard specifications and are free from defects in material and workmanship.

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

Index **Page**

Gen*SPEED*® Category 5e Quick Reference Guide

JACKET COLOR	PACKAGE	PREMIUM Category 5e Gen*SPEED*® 5500 Premium (p. 39) CMR	PREMIUM Category 5e Gen*SPEED*® 5500 Premium (p. 39) CMP	ENHANCED Category 5e Gen*SPEED*® 5350 Enhanced (p.40) CMR	ENHANCED Category 5e Gen*SPEED*® 5350 Enhanced (p.40) CMP	STANDARD Category 5e Gen*SPEED*® 5000 (p. 42) CMR	STANDARD Category 5e Gen*SPEED*® 5000 (p. 42) CMP
Blue							
	Pull-Pac®	6133299	6131278	6133712	6131690	5133299E	5131278E
	Spool-Pac®	6133403	6131433	6133707	6131688	5133374E	5131431E
	Spool	6133282	6131282	6133703	6131686	5133300E	5131282E
White							
	Pull-Pac®	6133255	6131361	6133713	6131691	5133255E	5131361E
	Spool-Pac®	6133339	6131449	6133708	6131689	5133342E	5131450E
	Spool	6133492	6131618	6133704	6131687	5133250E	5131365E
Yellow							
	Pull-Pac®	6133289	6131546	6133715	6131693	5133289E	5131379E
	Spool-Pac®	6133369	6131379	6133717	6131695	5133448E	5131546E
	Spool	6133348	6131382	6133719	6131697		5131648E
Gray							
	Pull-Pac®	6133200	6131418	6133714	6131692	5133200E	5131418E
	Spool-Pac®	6133331	6131619	6133716	6131694	5133329E	5131456E
	Spool	6133334		6133718	6131696	5133204E	5131475E
Red							
	Pull-Pac®	6133274	6131477			5133274E	5131477E
	Spool-Pac®	6133635	6131635	6133732	6131732	5133427E	5131553E
	Spool			6133782	6131782		5131383E
Orange							
	Pull-Pac®	6133746	6131422	6133761	6131761	5133383E	5131422E
	Spool-Pac®	6133383	6131576	6133833	6131833		
	Spool			6133733	6131733	5133667E	
Green							
	Pull-Pac®	6133512	6131547	6133699	6131699	5133512E	5131547E
	Spool-Pac®	6133615	6131575	6133731	6131731	5133693E	5131575E
	Spool	6133616	6131757	6133700	6131700	5133649E	5131649E
Black							
	Pull-Pac®	6133696	6131683		6131707	5133696E	5131683E
	Spool-Pac®		6131829			6133650E	
	Spool					6133726E	5131689E
Pink							
	Pull-Pac®	6133290	6131709			5133290E	5131380E
	Spool-Pac®	6133447	6131478			5133447E	5131478E
	Spool	6133341					
Purple							
	Pull-Pac®	6133445	6131710		6131698	5133445E	5131730E
	Spool-Pac®	6133446					
	Spool						

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

GenSPEED® 5500 Premium Category 5e Cable

Enhanced Transmission Throughput

Features and Benefits

- Ensures increased headroom for future applications, lower bit-error rates, and higher signal transmission quality
- Enhanced signal-to-noise ratio, improving biterror rate
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

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

Standard Compliances

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

CONSTRUCTION

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

Insulation
- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

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

Rip Cord
- Applied longitudinally under jacket

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

PHYSICAL DATA	**CMR** (Non-Plenum)	**CMP** (Plenum)
Nominal Cable Diameter (in)	0.220	0.190
Nominal Cable Weight (lbs/1000 ft)	24	21
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

ELECTRICAL CHARACTERISTICS

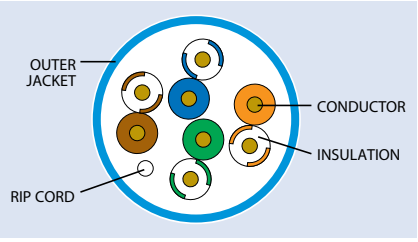
DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

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

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

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Pull-Pac®, Spool-Pac®, Spool

Jacket Color		Pull-Pac® II		Spool-Pac®		Spool	
		CMR (Non-Plenum)	**CMP** (Plenum)	**CMR** (Non-Plenum)	**CMP** (Plenum)	**CMR** (Non-Plenum)	**CMP** (Plenum)
	Blue	**6133299**	**6131278**	**6133403**	**6131433**	**6133282**	**6131282**
	White	**6133255**	**6131361**	**6133339**	**6131449**	**6133492**	**6131618**
	Yellow	**6133289**	**6131546**	**6133369**	**6131379**	**6133348**	**6131382**
	Gray	**6133200**	**6131418**	**6133331**	**6131619**	**6133334**	
	Red	**6133274**	**6131477**	**6133635**	**6131635**		
	Orange	**6133746**	**6131422**	**6133383**	**6131576**		
	Green	**6133512**	**6131547**	**6133615**	**6131575**	**6133616**	**6131757**
	Black	**6133696**	**6131683**		**6131829**		
	Pink	**6133290**	**6131709**	**6133447**	**6131478**	**6133341**	
	Purple	**6133445**	**6131710**	**6133446**			

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

prysmian GenSPEED®

ETL LISTED UL VERIFIED RoHS Compliant Made in U.S.A.

GenSPEED® 5350 Enhanced Category 5e Cable

High Performance

Features and Benefits

- For applications that require optimal Cat 5e performance with flexibility for the future
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

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

Standard Compliances

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

CONSTRUCTION

Conductors
- 24 AWG solid bare annealed copper

Insulation
- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

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

Rip Cord
- Applied longitudinally under jacket

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

PHYSICAL DATA	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.200	0.190
Nominal Cable Weight (lbs/1000 ft)	20	22
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (°C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

ELECTRICAL CHARACTERISTICS

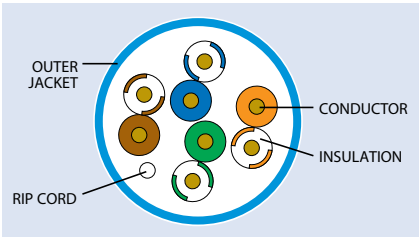
DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

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

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

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Pull-Pac®, Spool-Pac®, Spool

Jacket Color		Pull-Pac® II		Spool-Pac®		Spool	
		CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
	Blue	6133712	6131690	6133707	6131688	6133703	6131686
	White	6133713	6131691	6133708	6131689	6133704	6131687
	Yellow	6133715	6131693	6133717	6131695	6133719	6131697
	Gray	6133714	6131692	6133716	6131694	6133718	6131696
	Red			6133732	6131732	6133782	6131782
	Orange	6133761	6131761	6133833	6131833	6133733	6131733
	Green		6131699		6131731		6131700
	Black		6131707				
	Pink						
	Purple						

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

prysmian GenSPEED®

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

High Performance

Features and Benefits

- No halogens
- Less toxic
- More environmentally friendly
- Increased flexibility for easy installation
- Engineered to provide stable and continuous performance
- Performance guaranteed to 350 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

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

Standard Compliances

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

CONSTRUCTION

Conductors
- 24 AWG solid bare annealed copper

Insulation
- Non-Plenum: Polyolefin

Jacket
- Non-Plenum: Zero-Halogen Polyolefin

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

PHYSICAL DATA	CMR (Non-Plenum)
Nominal Cable Diameter (in)	0.200
Nominal Cable Weight (lbs/1000 ft)	22
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	25
Temperature Rating (˚C)	
Installation:	0 to +60
Operation:	-20 to +75

ELECTRICAL CHARACTERISTICS

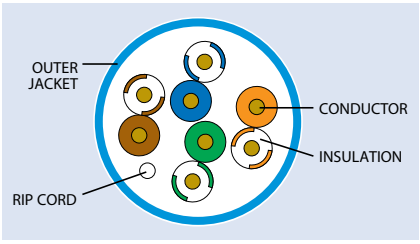
DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	8.9
DC Resistance Unbalance (max) Individual Pair %	3.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-350 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

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

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

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Pull-Pac® II

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

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

prysmian GenSPEED®

GenSPEED® 5000 Category 5e Cable

Standards-Compliant Extended Frequency

Features and Benefits

- Engineered to provide stable and continuous performance
- Performance guaranteed to 200 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

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

Standard Compliances

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

CONSTRUCTION

Conductors
- 24 AWG solid bare annealed copper

Insulation
- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

Rip Cord
- Applied longitudinally under jacket

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

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

PHYSICAL DATA	CMR (Non-Plenum)	CMP (Plenum)
Nominal Cable Diameter (in)	0.195	0.180
Nominal Cable Weight (lbs/1000 ft)	19	21
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

ELECTRICAL CHARACTERISTICS

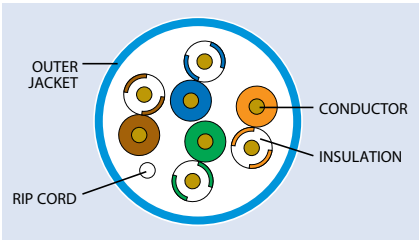
DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-200 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

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

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

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Pull-Pac®, Spool-Pac®, Spool

Jacket Color		Pull-Pac® II		Spool-Pac®		Spool	
		CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)	CMR (Non-Plenum)	CMP (Plenum)
	Blue	5133299E	5131278E	5133374E	5131431E	5133300E	5131282E
	White	5133255E	5131361E	5133342E	5131450E	5133250E	5131365E
	Yellow	5133289E	5131379E	5133448E	5131546E		5131648E
	Gray	5133200E	5131418E	5133329E	5131456E	5133204E	5131475E
	Red	5133274E	5131477E	5133427E	5131553E		5131383E
	Orange	5133383E	5131422E			5133667E	
	Green	5133512E	5131547E	5133693E	5131575E	5133649E	5131649E
	Black	5133696E	5131683E	5133650E		5133726E	5131689E
	Pink	5133290E	5131380E	5133447E	5131478E		
	Purple	5133445E	5131730E				

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

prysmian GenSPEED®

GenSPEED® 5000 with 17 FREE® Category 5e Cable

Standards-Compliant

Features and Benefits

- No halogens
- Less toxic
- More environmentally friendly
- Increased flexibility for easy installation
- Engineered to provide stable and continuous performance
- Performance guaranteed to 200 MHz
- TRU-Mark® print legend contains footage markings from 1000' to 0'
- Third-party verified for guaranteed performance

Applications

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

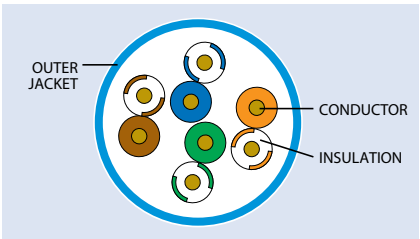
Standard Compliances

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

ELECTRICAL CHARACTERISTICS

DC Resistance (max) Ohms/100 m (328 ft) @ 20°C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	70
Characteristic Impedance Frequency (f): 1-200 MHz	Ohms 100 ± 15

CROSS-SECTION



CONSTRUCTION

Conductors
- 24 AWG solid bare annealed copper

Insulation
- Non-Plenum: Polyolefin

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

Jacket
- Non-Plenum: Flame-Retardant PVC

PHYSICAL DATA	**CMR** (Non-Plenum)
Nominal Cable Diameter (in)	0.200
Nominal Cable Weight (lbs/1000 ft)	22
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	25
Temperature Rating (°C)	
Installation:	0 to +60
Operation:	-20 to +75

ELECTRICAL PERFORMANCE

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

Note: Values are expressed in dB per 100 m (328 ft.) length @ 20°C. Values above 200 MHz are for information only.
Spec meets ANSI/TIA 568.2-D standard for Cat 5e UTP cabling.
*PSACR & ACR not specified in ANSI/TIA 568.2-D

PART NUMBERS

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

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

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

prysmian GenSPEED®

VERIFIED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 5000 Category 5e F/UTP (ScTP) Cable

Standards-Compliant

Features and Benefits

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

Applications

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

Standard Compliances

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

CONSTRUCTION

Conductors
- 24 AWG solid bare annealed copper

Insulation
- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

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

Core Tape
- Polyester

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

Shield
- Polyester-backed aluminum foil (aluminum side in)

Jacket
- Flame-Retardant PVC

PHYSICAL DATA	**CMR** (Non-Plenum)	**CMP** (Plenum)
Nominal Cable Diameter (in)	0.250	0.225
Nominal Cable Weight (lbs/1000 ft)	36	32
Minimum Bend Radius (in)	1.0	1.0
Maximum Pulling Force (lbs)	25	25
Temperature Rating (˚C)		
Installation:	0 to +60	0 to +60
Operation:	-20 to +75	-20 to +75

ELECTRICAL CHARACTERISTICS

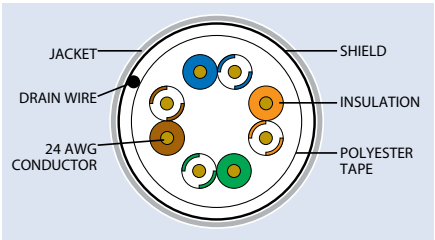
DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 70
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

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

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

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Spool

Jacket Color		**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**

prysmian GenSPEED®

GenSPEED® 5000 Category 5e Interlock Armored Cable

Standards-Compliant

Features and Benefits

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

Applications

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

Standard Compliances

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

CONSTRUCTION

Conductors
- 24 AWG solid bare annealed copper

Insulation
- Polyolefin

Rip Cord
- Applied longitudinally under jacket

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

Jacket
- Flame-Retardant PVC

Armor
- Aluminum interlock armor

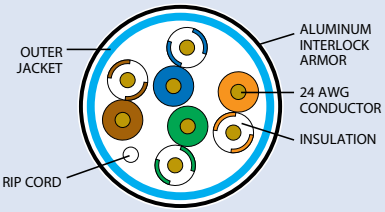
ELECTRICAL CHARACTERISTICS

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

PHYSICAL DATA

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

CROSS-SECTION



ELECTRICAL PERFORMANCE

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

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

PART NUMBERS

Standard packaging: 1000' or 2000' Reel

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

prysmian GenSPEED® RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 5000 Category 5e Outside Plant Cable

Standards-Compliant

Features and Benefits

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

Applications

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

Standard Compliances

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

CONSTRUCTION

Conductors
- 24 AWG solid bare annealed copper

Insulation
- Polyolefin

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

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

Flooding Compound
- Waterproof gel

Jacket
- UV- and Abrasion-Resistant Polyethylene

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

ELECTRICAL CHARACTERISTICS

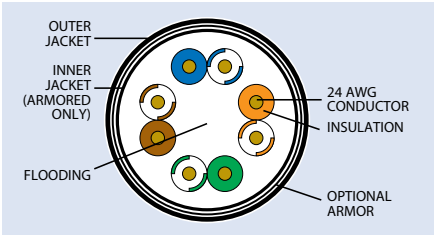
DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	9.38
DC Resistance Unbalance (max) Individual Pair %	4.0
Delay Skew (max) ns/100 m	45
Nom. Velocity of Propagation % Speed of Light	69
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

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

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

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Reel

Jacket Color		Reel	Armor
	Black	5136100	None
	Black	5136101	Aluminum

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

Standards-Compliant

Features and Benefits

- CMX rating allows the cable to be exposed to temperature variations for short distances from the Network Interface Device on the outside of a house to the point where the cable enters the house
- CMR rating also allows the cable to be used in traditional indoor CMR installations
- Sunlight-resistant
- Sequential footage markings
- Wax box on 1000' PPCs for increased durability on the job site
- Third-party verified for guaranteed performance

Applications

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

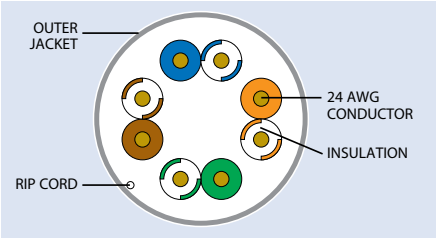
Standard Compliances

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

ELECTRICAL CHARACTERISTICS

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

CROSS-SECTION



CONSTRUCTION

Conductors
- 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

Rip Cord
- Applied longitudinally under jacket

Jacket
- Flame-Retardant PVC

PHYSICAL DATA

Nominal Cable Diameter (in)	0.240
Nominal Cable Weight (lbs/1000 ft)	28
Minimum Bend Radius (in)	1.0
Maximum Pulling Force (lbs)	32
Temperature Rating (˚C)	
Installation:	-30 to +60
Operation:	-45 to +75

ELECTRICAL PERFORMANCE

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

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

PART NUMBER

Standard packaging: Pull-Pac® II Reel

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

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

prysmian GenSPEED®

ETL VERIFIED UL VERIFIED RoHS Compliant Directive 2011/65/EU Made in U.S.A.

GenSPEED® 5000 Category 5e Backbone 25 Pair Cable

Standards-Compliant

Features and Benefits

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

Applications

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

Standard Compliances

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

CONSTRUCTION

Conductors
- 25 Pairs of 24 AWG solid bare annealed copper

Insulation
- Non-Plenum: Polyolefin
- Plenum: Fluoropolymer

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

Rip Cord
- Applied longitudinally under jacket

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

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

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

ELECTRICAL CHARACTERISTICS

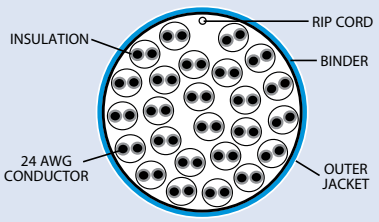
DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	9.38
DC Resistance Unbalance (max) Individual Pair %	5.0
Delay Skew (max) ns/100 m	45
Propagation Delay (max) ns @ 100 MHz	CMP: 518 CMR: 538
Nom. Velocity of Propagation % Speed of Light	CMP: 72 CMR: 68
Characteristic Impedance Frequency (f): 1-100 MHz	Ohms 100 ± 15

ELECTRICAL PERFORMANCE

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

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

CROSS-SECTION



PART NUMBERS

Standard packaging: 1000' Reel

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

prysmian GenSPEED®

Category 3 Cables

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

Prysmian'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 2 to 300 pair counts, Category 3 Plenum and Riser Cables meet all your Power Sum NEXT backbone voice transmission requirements.

All Prysmian's Category Cables meet applicable TIA/EIA 568 C.2

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.

Available in various jacket colors and pair counts, Prysmian'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.

Category 3 Plenum Cable

Product Construction

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Flame-retardant semi-rigid PVC

Color Code
- See Color Code Chart on page XX

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

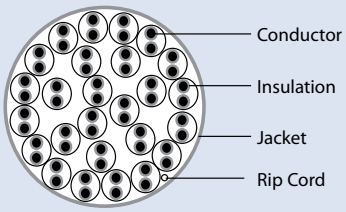
Jacket:
- Flexguard® flame-retardant PVC
- * Sequential footage markings

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

Applications:
- IEEE 802.3: 10 BASE-T
- IEEE 802.12: 100 BaseVG
- Token Ring, ATM
- T1
- Voice

Compliances:
- ANSI/TIA 568.2-D
- NEC/CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ICEA S-90-661

CROSS-SECTION



PHYSICAL DATA	CMP (Plenum)
Temperature Rating (˚C)	
Installation:	0 to +60
Operation:	-20 to +75

ELECTRICAL CHARACTERISTICS

	24 AWG
DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	9.38
Mutual Capacitance (max) pF/ft @ 1 kHz	17
Characteristic Impedance Frequency (f): 1-16 MHz	Ohms 100 ± 15
Structural Return Loss (SRL) Frequency (f): 1-16 MHz	dB (min) 12
10-16 MHz	12-10 log (f/10)

Frequency	Insertion Loss dB/100 m (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

Jacket Color		Product Number	Pairs	PKG	O.D. (Inches)	Weight (Lbs/Kft)
Flexguard® Flame-Retardant PVC Jacket						
	White	**2131243**	2	PP	0.13	10
	White	**2131244**	3	PP	0.15	13
	White	**2131245**	4	PP	0.17	17
	Gray	**2131313**	4	PP	0.17	17
	Blue	**2131453**	4	PP	0.17	17
	Green	**2131463**	4	PP	0.17	17
	White	**2131246**	6	PP	0.18	24
	White	**2131250**	6	SP	0.18	24
	White	**2131505**	25	RL	0.42	102
	White	**2131505.99**	25	POL	0.42	102

prysmian GenSPEED® UL LISTED UL VERIFIED 4 Pair 25 Pair RoHS Compliant Directive 2011/65/EU Made in U.S.A.

Category 3 Non-Plenum Cable

Product Construction

Conductors:
- 24 AWG solid bare annealed copper

Insulation:
- Flame-retardant semi-rigid PVC (6-25 pr)
- Polyolefin (2-4 pr)

Color Code
- See Color Code Chart on page XX

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

Jacket:
- Flame-retardant PVC

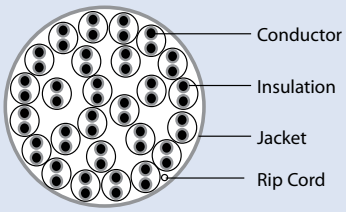
* Sequential footage markings

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

Applications:
- IEEE 802.3: 10 BASE-T
- IEEE 802.12: 100 BaseVG
- Token Ring, ATM
- T1
- Voice

Compliances:
- ANSI/TIA 568.2-D
- NEC/CEC Type CMR (UL 1666) for Non-Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- ICEA S-100-661

CROSS-SECTION



PHYSICAL DATA	CMR (Non-Plenum)
Temperature Rating (˚C)	
Installation:	0 to +60
Operation:	-10 to +60

ELECTRICAL CHARACTERISTICS

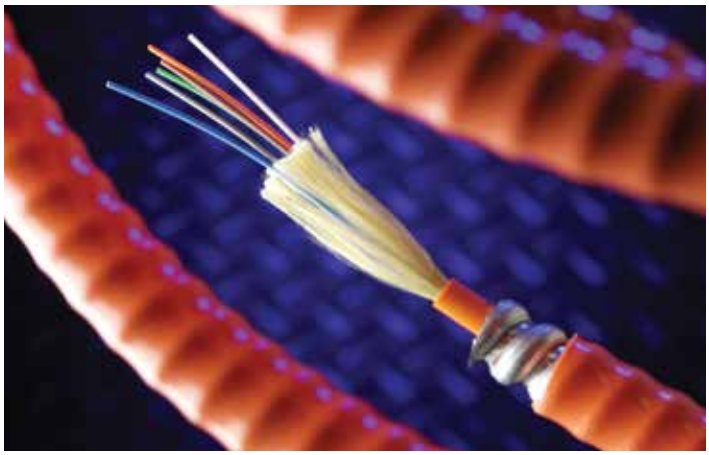
	24 AWG
DC Resistance (max) Ohms/100 m (328 ft) @ 20˚C	9.38
Mutual Capacitance (max) pF/ft @ 1 kHz	17
Characteristic Impedance Frequency (f): 1-16 MHz	Ohms 100 ± 15
Structural Return Loss (SRL) Frequency (f): 1-16 MHz 10-16 MHz	dB (min) 12 12-10 log (f/10)

Frequency	Insertion Loss dB/100 m (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

Jacket Color		Product Number	Pairs	PKG	O.D. (Inches)	Weight (Lbs/Kft)
	Beige	**2133008**	2	PP	0.14	9
	Gray	**2133009**	2	PP	0.14	9
	Gray	**2133011**	2	SP	0.14	9
	Beige	**2133012**	3	PP	0.15	13
	Gray	**2133013**	3	PP	0.15	13
	Gray	**2133015**	3	SP	0.15	13
	Beige	**2133016**	4	PP	0.17	16
	Gray	**2133017**	4	PP	0.17	16
	White	**2133359**	4	SPC	0.17	16
	Gray	**2133358**	4	SPC	0.17	16
	Beige	**2133018**	4	SP	0.17	16
	Gray	**2133019**	4	SP	0.17	16
	Blue	**2133275**	4	PP	0.17	16
	White	**2133296**	4	PP	0.17	16
	Beige	**2133020**	6	PP	0.21	23
	Gray	**2133021**	6	PP	0.21	23
	Beige	**2133022**	6	SP	0.21	23
	Gray	**2133023**	6	SP	0.21	23
	Gray	**2133033**	25	RL	0.42	105
	Gray	**2133033.99**	25	POL	0.42	105

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

prysmian GenSPEED® UL LISTED UL VERIFIED 4 Pair 25 Pair RoHS Compliant Directive 2011/65/EU Made in U.S.A.



Optical Fiber

Prysmian partners with Corning Optical Fiber to deliver the world's most reliable and technologically advanced optical fiber cables.

plus CORNING® Optical Fiber

Singlemode

Standard

Prysmian utilizes Corning® SMF-28e+™ fiber as its standard singlemode offering. This is a full-spectrum fiber that is fully backward-compatible with legacy singlemode fiber. It enables increased optical launch power of legacy singlemode fiber, improved macrobend specifications from 0.05 dB to 0.03 dB, and tighter zero dispersion wavelength (l0) tolerance from a range of ± 10 nm to ± 7 nm. This fiber supports all broadband applications and complies with the most stringent industry standards, such as:

- ITU-T G.652 (Tables A, B, C and D)
- IEC 60793-2-50 Type B1.3
- ISO 11801 052
- TIA/EIA 492-CAAB
- Telecordia GR-20-CORE

Long-Haul

For long-haul applications, rely on Prysmian's long history of cable experience and the technology of Corning® LEAF® fiber. This is the most widely deployed non-zero dispersion shifted (NZ-DSF) fiber in the world and the first low water peak NZ-DSF fiber. Its large effective area and industry-leading polarization mode dispersion (PMD) specifications enable 10 Gb/s and 40 Gb/s network systems of the future.

ClearCurve® ZBL

Prysmian, utilizing Corning® ClearCurve® ZBL Optical Fiber, delivers the best macrobending performance in the industry while maintaining compatibility with current optical fibers, equipment, practices and procedures. This full-spectrum singlemode optical fiber, when subjected to smaller radii bends, experiences virtually no signal loss. ClearCurve fiber exceeds the most stringent bend performance requirements of ITU-T Recommendations G.657. B3 while remaining fully compliant with ITU-T Recommendation G.652.D and the installed base of Corning SMF-28e® and SMF-28e+® fiber.

Multimode

ClearCurve® Multimode Fiber

Corning® ClearCurve® ultra-bendable laser-optimized™ multimode optical fiber delivers the best macrobending performance in the industry while maintaining compatibility with current optical fibers, equipment, practices and procedures. ClearCurve OM3/OM4 multimode fiber is designed to withstand tight bends and challenging cable routes with substantially less signal loss than conventional multimode fiber.

These fibers have superior measurement technology and manufacturing control, and industry-leading CPC® coatings for superior microbend and environmental performance. ClearCurve fiber performance is ensured by minEMBc, the industry's leading standards-approved bandwidth measurement for OM3 fibers. ClearCurve fibers are the only ones to use this measurement to ensure 10 Gb/s performance.

50 micron

These fibers support data rates of 10 Gb/s at 850 nm. They also comply with the most stringent industry standards, such as:

- ISO/IEC 11801, type OM2, OM3 and OM4* fibers
- IEC 60793-2-10, type A1a.1, A1a.2 and A1a.3* fibers
- TIA/EIA, 492AAAB, 492AAAC-A and 492AAAD

* Assumes IEC draft standard is harmonized with 492AAAD, which was approved by TIA

62.5 micron

These fibers support data rates of 1 Gb/s in both the 850 nm and 1300 nm windows. They comply with the most stringent industry standards, such as:

- ISO/IEC 11801, type OM1 fiber
- IEC 60793-2-10, type A1b fiber
- TIA/EIA, 492AAAA-A

NEXTGEN® BRAND

Optical Fiber Code Cross-Reference

Fiber Type	Prysmian	Corning®	Description
Standard Loose Tube SM	AQ	SMF-28e+™ Fiber	Full spectrum, low water peak singlemode, ITU-T G.652.D, ISO 11801 052, OS2*
Performance Loose Tube SM	AT	SMF-28e+™ Fiber	Full spectrum, high performance low water peak single-mode with 0.35/0.25 attenuation, ITU-T G.652.D, ISO 11801 052, OS2*
Tight Buffer SM	AP	SMF-28e+™ Fiber	Full spectrum, low water peak singlemode with 900 µm PVC buffer, ITU-T G.652.D, ISO 11801 052, OS2*
Long-Haul SM	AL	LEAF® Fiber	Large A_{eff}, low water peak, NZ-DSF singlemode, ITU-T G.655
Ultra-Bendable SM	AZ	ClearCurve® ZBL	Full spectrum with best macrobending performance, ITU-T G.652.D and ITU-T G.657.A
62.5 µm MM	CG	InfiniCor® 300 Fiber	1 Gb/s ≤ 300 m at 850 nm, OM1* 1 Gb/s ≤ 550 m at 1300 nm
62.5 µm MM	CL	InfiniCor® CL™ 1000 Fiber	1 Gb/s ≤ 500 m at 850 nm, OM1* 1 Gb/s ≤ 1000 m at 1300 nm
Ultra-bendable 50 µm MM	BI	ClearCurve® OM2 Fiber	10 Gb/s ≤ 150 m at 850 nm, OM2* 1 Gb/s ≤ 750 m at 850 nm
Ultra-bendable 50 µm MM	BE	ClearCurve® OM2 Fiber	10 Gb/s ≤ 300 m at 850 nm, OM3* 1 Gb/s ≤ 1000 m at 850 nm
Ultra-bendable 50 µm MM	BL	ClearCurve® OM2 Fiber	10 Gb/s ≤ 550 m at 850 nm, OM4* 1 Gb/s ≤ 1100 m at 850 nm
Ultra-bendable 50 µm MM	BM	ClearCurve® OM2 Fiber	10 Gb/s ≤ 600 m at 850 nm, OM4+* 1 Gb/s ≤ 1100 m at 850 nm

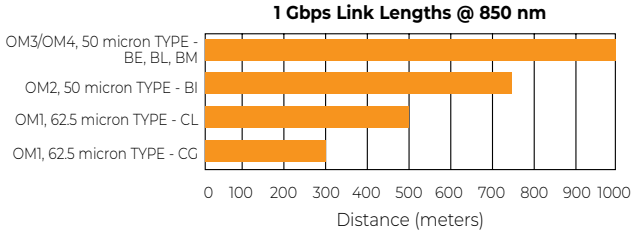
* Designation per ISO 11801 Fiber Standards

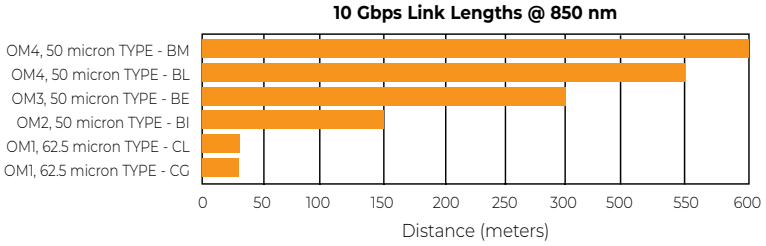
Fiber Specification and Selection

MULTIMODE FIBER SELECTION GUIDE

Optical Characteristics:		50/125 PRODUCT FAMILY				62.5/125 PRODUCT FAMILY		UNITS
		OM2 Type-BI	OM3 Type-BE	OM4 Type-BL	OM4 Type-BM	OM1 Type-CG	OM1 Type-CL	
Maximum Finished Cable Attenuation Coefficient	@850 nm	3.0	3.0	3.0	3.0	3.5	3.5	dB/km
	@1300 nm	1.0	1.0	1.0	1.0	1.0	1.0	dB/km
Overfill Launch Bandwidth	@850 nm	700	1500	1500	1500	200	200	MHz.km
	@1300 nm	500	500	500	500	500	500	MHz.km
Laser Bandwidth	@850 nm	850	2000	4700	5350*	220	385	MHz.km
Gigabit Ethernet Link Length (1 Gbps)	1000 BASE-SX (850 nm)	750	1000	1100	1100	300	500	meters
	1000 BASE-LX (1300 nm)	550	550	550	550	550	1000	meters
10 Gigabit Ethernet Length (10 Gbps)	10G BASE-SR (850 nm)	150	300	550	600	33	33	meters

* Using 3.0 dB cable attenuation and 0.7 dB connector allocation





SINGLEMODE FIBER SELECTION GUIDE

Fiber Description	Fiber Type	Typical Attenuation (dB/km)				Gigabit Ethernet Distance (Meters)	10 Gigabit Ethernet Distance (Meters)	
		1310 nm	1383 nm	1550 nm	1625 nm	1310 nm	1310 nm	1550 nm
OS2 Singlemode - Loose Tube								
Premium	AQ	0.40	0.40	0.30	0.35	10,000	5,000	30,000
High Performance	AT	0.35	0.35	0.25	0.30	10,000	5,000	30,000
OS2 Singlemode - Tight Buffer								
Distribution	AP	0.65	–	0.65	–	10,000	5,000	30,000
Breakout	AP	1.00	–	1.00	–	10,000	5,000	30,000

SPECIALTY FIBERS — SINGLEMODE

Fiber Description	Fiber Type	Typical Attenuation (dB/km)				Typical Application
		1310 nm	1383 nm	1550 nm	1625 nm	
Singlemode (NZDS)						
Large Effective Area	AL	–	–	0.30	0.30	DWDM
Singlemode						
Bend-Insensitive	AZ	0.40	0.40	0.30	0.30	SMALL BEND RADIUS

Use the code in the "Fiber Type" column to replace the XX notation in the catalog number shown on the catalog page. This identifies the fiber that will be provided with the cable choice.

The fibers in all completed cables are tested 100% at the factory for attenuation, and each fiber must meet the minimum requirements specified by the customer.

Tight Buffer Distribution Riser Cable

Type OFNR, CSA FT4, Indoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0021PNR	2	—	0.19	5	14	20	225	1000	65	290
XX0061PNR	6	—	0.20	5	18	27	225	1000	65	290
XX0121PNR	12	—	0.25	6	24	36	320	1425	112	500
XX0241P1R	24	4	0.34	9	47	70	330	1425	112	500

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Tight Buffer Distribution Plenum Cable

Type OFNP, CSA FT6, Indoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0021PNU	2	—	0.17	4	12	17	225	1000	65	290
XX0061PNU	6	—	0.18	5	16	24	225	1000	65	290
XX0121PNU	12	—	0.22	6	23	34	320	1423	112	500
XX0241PNU	24	—	0.32	8	45	67	320	1423	112	500

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Tight Buffer Distribution Interlock Armored Riser Cable

Type OFCR, CSA FT4, Indoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0021PNR-ILRA	2	—	0.52	13	85	126	550	2447	165	734
XX0041PNR-ILRA	4	—	0.57	14	95	141	550	2447	165	734
XX0061PNR-ILRA	6	—	0.57	14	98	146	550	2447	165	734
XX0121PNR-ILRA	12	—	0.57	14	104	155	550	2447	165	734
XX0241PNR-ILRA	24	—	0.67	17	144	214	550	2447	165	734

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Tight Buffer Distribution Interlock Armored Plenum Cable

Type OFCP, CSA FT6, Indoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0021PNU-ILPA	2	—	0.49	12	80	119	550	2447	165	734
XX0041PNU-ILPA	4	—	0.49	12	82	122	550	2447	165	734
XX0061PNU-ILPA	6	—	0.49	12	84	125	550	2447	165	734
XX0121PNU-ILPA	12	—	0.49	12	100	100	550	2447	165	734
XX0241PNU-ILPA	24	—	0.59	15	138	138	550	2447	165	734

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Tight Buffer Distribution Riser Cable

Type OFNR, CSA FT4, Indoor/Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0021ANR.BK	2	—	0.19	5	14	20	300	1334	90	400
XX0061ANR.BK	6	—	0.20	5	18	27	320	1423	96	427
XX0121ANR.BK	12	—	0.25	6	24	36	400	1780	120	534
XX0241ANR.BK	24	—	0.34	9	47	70	320	1425	112	500

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Tight Buffer Distribution Plenum Cable

Indoor/Outdoor Dry Water Block, Type OFNP, CSA FT6, Indoor/Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0021ANU.BK	2	—	0.17	4	11.7	17.4	300	1334	90	400
XX0061ANU.BK	6	—	0.20	5	16.0	23.8	320	1423	96	427
XX0121ANU.BK	12	—	0.23	6	22.7	33.8	400	1780	120	534
XX0241ANU.BK	24	—	0.32	8	45.0	45.0	320	1425	112	500

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Tight Buffer Distribution Interlock Armored Riser Cable

Type OFCR, CSA FT4, Indoor/Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0121ANR-ILRA	12	—	0.57	14	104	155	550	2447	165	734
XX0241ANR-ILRA	24	—	0.67	17	144	214	550	2447	165	734
XX0481A1R-ILRA	48	4	0.99	25	330	491	1000	4448	300	1334
XX0721A1R-ILRA	72	6	1.09	28	422	628	1000	4448	300	1334

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Tight Buffer Distribution Interlock Armored Plenum Cable

Type OFCP, CSA FT6, Indoor/Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0121ANU-ILPA	12	—	0.49	12	100	149	550	2447	165	734
XX0241ANU-ILPA	24	—	0.59	15	138	205	550	2447	165	734
XX0481ANU-ILPAS	48	4	0.80	20	209	311	1000	4448	300	1334
XX0721ANU-ILPAS	72	6	0.95	24	273	406	1000	4448	300	1334

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Loose Tube Single Jacket Riser Cable

Type OFNR, CSA, Indoor/Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0064M1M-DT	6	1	0.36	9	53	80	600	2670	200	890
XX0124M1M-DT	12	2	0.36	9	52	78	600	2670	200	890
XX0244M1M-DT	24	4	0.36	9	51	76	600	2670	200	890

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Loose Tube Single Jacket Plenum Cable

Type OFNP, CSA FT6, Indoor/Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0064M1D-DT	6	1	0.31	8	48	71	300	1334	100	445
XX0124M1D-DT	12	2	0.31	8	47	69	300	1334	100	445
XX0244M1D-DT	24	4	0.31	8	44	65	300	1334	100	445

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Loose Tube Single Jacket Low-Smoke, Zero-Halogen (LSZH) Cable

Type OFN/LS, Indoor/Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0064M1Z	6	1	0.36	9	59	89	600	2670	200	890
XX0124M1Z	12	2	0.36	9	60	89	600	2670	200	890
XX0244M1Z	24	4	0.36	9	61	90	600	2670	200	890

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Tight Buffer Distribution Low-Smoke, Zero-Halogen (LSZH) Cable

Type OFNP, CSA FT6, Indoor/Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0061PNZ	6	—	0.20	5	15	22	225	1000	65	290
XX0121PNZ	12	—	0.23	6	21	31	320	1425	112	500
XX0241P1Z	24	4	0.53	13	92	137	800	3560	270	1201

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Loose Tube Single Jacket Cable

Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0124M1A-DWB	12	1	0.44	14	11.1	55	600	2700	180	800
XX0244M1A-DWB	24	2	0.44	17	11.1	55	600	2700	180	800
XX0484M1A-DWB	48	4	0.44	25	11.1	55	600	2700	180	800
XX0724M1A-DWB	72	6	0.47	28	12.0	66	600	2700	180	800

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Loose Tube Dual Jacket Cable

Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0124H1A-DWB	12	1	0.51	12	13.0	116	600	2700	180	800
XX0244H1A-DWB	24	2	0.51	15	13.0	116	600	2700	180	800
XX0484H1A-DWB	48	4	0.51	20	13.0	116	600	2700	180	800
XX0724H1A-DWB	72	6	0.54	24	13.7	134	600	2700	180	800

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Loose Tube Single Jacket Armored Cable

Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0124M1F-DWB	12	1	0.48	12.1	91	135	600	2670	180	800
XX0244M1F-DWB	24	2	0.48	12.1	91	135	600	2670	180	800
XX0484M1F-DWB	48	4	0.48	12.1	91	135	600	2670	180	800
XX0724M1F-DWB	72	6	0.54	13.6	109	162	600	2670	180	800

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

Loose Tube Dual Jacket Armored Cable

Outdoor*

Catalog Number	Fiber Count	No. Of Sub-Units	Nominal Cable Diameter		Nominal Cable Weight		Maximum Tensile Load			
							Installation		In-Service	
			IN	mm	Lb/1000'	kg/km	Lbs	N	Lbs	N
XX0124H1F-DWB	12	1	0.59	15.0	128	190	600	2670	180	800
XX0244H1F-DWB	24	2	0.59	15.0	128	190	600	2670	180	800
XX0484H1F-DWB	48	4	0.59	15.0	128	190	600	2670	180	800
XX0724H1F-DWB	72	6	0.63	15.9	143	213	600	2670	180	800

XX denotes glass type.

NOTE: More fiber counts are available upon request. See Fiber Optic Catalog for complete product information.

*Not for aerial or direct burial applications.

CAROL® Electronics Quick Reference

Applications Guide

Prysmian manufactures the most comprehensive line of CAROL® Electronics Cables available today for signal & data transmission, security, fire alarm & life safety, sound and audio/video & home entertainment. Our products are readily available for immediate shipment through a network of authorized stocking distributors and distribution centers.

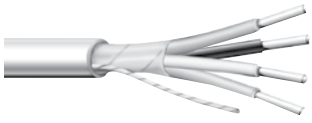
Alarm and Security:

CAROL® Electronics is the right solution for your alarm and security needs. CAROL® offers as broad an offering as anyone in the industry. Our Alarm & Security Solutions Guide makes it easier to specify and sell the right cables for every application in this ever-growing market.

PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
PLENUM UNSHIELDED ALARM AND SECURITY		
E3004S	22/4 Multi-Cond. 7/30TC SHLD CM	· Power-Limited Control Circuits · Wiring of Intercom, Security, Audio, Background Music · Suggested Voltage Rating: 300 V
E3032S	18/2 Multi-Cond. 7/30TC SHLD CM	
E3034S	18/4 Multi-Cond. 16/30TC SHLD CM	
E3033S	18/3 Multi-Cond. 16/30TC SHLD CM	
E3042S	16/2 Multi-Cond. 19/30TC SHLD CM	
PLENUM SHIELDED ALARM AND SECURITY		
E2104S	22/4 Multi-Cond. 7/30BC OA SH CMP/CL3P	· Power-Limited Control Circuits · Wiring of Intercom, Security, Audio, Background Music · Suggested Voltage Rating: 300 V
E2106S	22/6 Multi-Cond. 7/30BC OA SH CMP/CL3P	
E2202S	18/2 Multi-Cond. 7/26BC OA SH CMP/CL3P	
E2204S	18/4 Multi-Cond. 7/26BC OA SH CMP/CL3P	
E2206S	18/6 Multi-Cond. 7/26BC OA SH CMP/CL3P	
RISER (NON-PLENUM) UNSHIELDED ALARM AND SECURITY		
E1002S	22/2 Multi-Cond. 7/30BC UNSH CMR/CL3R	· Power-Limited Control Circuits · Wiring of Intercom, Security, Audio, Background Music · Suggested Voltage Rating: 300 V
E1004S	22/4 Multi-Cond. 7/30BC UNSH CMR/CL3R	
E1032S	18/2 Multi-Cond. 7/26BC UNSH CMR/CL3R	
E1034S	18/4 Multi-Cond. 7/26BC UNSH CMR/CL3R	
E1042S	16/2 Multi-Cond. 19/.0117BC UNSH CMR	
RISER (NON-PLENUM) SHIELDED ALARM AND SECURITY		
E2002S	22/2 Multi-Cond. 7/30BC OA SH CMR/CL3R	· Power-Limited Control Circuits · Wiring of Intercom, Security, Audio, Background Music · Suggested Voltage Rating: 300 V
E2032S	18/2 Multi-Cond. 7/26BC OA SH CMR/CL3R	
E2033S	18/3 Multi-Cond. 7/26BC OA SH CMR/CL3R	
E2034S	18/4 Multi-Cond. 7/26BC OA SH CMR/CL3R	
E2042S	16/2 Multi-Cond. 19/.0117BC OA SH CMR	

Fire Alarm:

CAROL® Electronic's offering has expanded from a rather simple and unsophisticated business configured upon large, electromechanical devices to one relying upon the most modern technologies of microprocessor and chip technology. Our designs have proven themselves in the area of fire system security over time; all are fabricated with solid, bare copper conductors and insulations and jackets of premium-grade PVC. Offered both with and without shields, the former to protect these critical circuits from noise, these cables will provide the latest in available technology for the system installer and contractor.



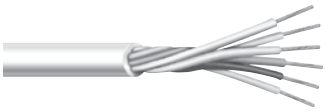
PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
PLENUM UNSHIELDED FIRE ALARM		
E3502S	1/28 Multi-Cond. SBC PVC/NS/FLEX FPLP	· Residential Housing · Business and Office Campus Environments · Public Stadiums and Arenas · Airport, Train, Bus and Other Transportation Hubs · Schools, Colleges and Universities · Commercial Buildings
E3504S	18/4 Multi-Cond. SBC PVC/NS/FLEX FPLP	
E3512S	16/2 Multi-Cond. SBC PVC/NS/FLEX FPLP	
E3522S	14/2 Multi-Cond. SBC PVC/NS/FLEX FPLP	
E3532S	12/2 Multi-Cond. SBC PVC/NS/FLEX FPLP	
PLENUM SHIELDED FIRE ALARM		
E3602S	18/2 Multi-Cond. SBC PVC/OA/FLEX FPLP	· Residential Housing · Business and Office Campus Environments · Public Stadiums and Arenas · Airport, Train, Bus and Other Transportation Hubs · Schools, Colleges and Universities · Commercial Buildings
E3604S	18/4 Multi-Cond. SBC PVC/OA/FLEX FPLP/CMP	
E3612S	16/2 Multi-Cond. SBC PVC/OA/FLEX FPLP	
E3622S	14/2 Multi-Cond. SBC PVC/OA/FLEX FPLP	
E3632S	12/2 Multi-Cond. SBC PVC/OA/FLEX FPLP/CMP	
RISER (NON-PLENUM) UNSHIELDED FIRE ALARM		
E1502S	18/2 Multi-Cond. SBC UNSH TYPE FPLR	· Residential Housing · Business and Office Campus Environments · Public Stadiums and Arenas · Airport, Train, Bus and Other Transportation Hubs · Schools, Colleges and Universities · Commercial Buildings
E1504S	18/4 Multi-Cond. SBC UNSH TYPE FPLR	
E1512S	16/2 Multi-Cond. SBC UNSH TYPE FPLR	
E1522S	14/2 Multi-Cond. SBC UNSH TYPE FPLR	
E1532S	12/2 Multi-Cond. SBC UNSH TYPE FPLR	
RISER (NON-PLENUM) SHIELDED FIRE ALARM		
E2502S	18/2 Multi-Cond. SBC OA SH TYPE FPLR	· Residential Housing · Business and Office Campus Environments · Public Stadiums and Arenas · Airport, Train, Bus and Other Transportation Hubs · Schools, Colleges and Universities · Commercial Buildings
E2504S	18/4 Multi-Cond. SBC OA SH TYPE FPLR	
E2522S	16/2 Multi-Cond. SBC OA SH TYPE FPLR	
E2524S	16/4 Multi-Cond. SBC OA SH TYPE FPLR	
E2532S	14/2 Multi-Cond. SBC OA SH TYPE FPLR	

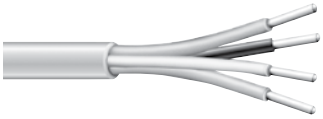
NOTE: Other gauges, colors and packaging are available. Contact your Prysmian representative for additional ordering options.

Classics – Comm & Control:

Paired cable designs find frequent application in circuits requiring circuit-to-circuit isolation from noise, minimization of capacitance imbalances and a reduction of EMI interference currents. Circuit separation is further enhanced in those designs employing individual circuit shields in concert with an overall shield. These CAROL® shielding systems are available in myriad combinations to suit the unique needs of the circuit designer.

* Paired constructions are also available

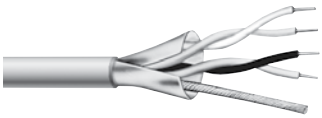




PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
	RISER SHIELDED CLASSICS	
C2514A	22/2 Multi-Cond. 7/30TC SHLD CM	· Remote and Process Control · Public Address Systems · Building Automation for EIA 232 Serial Applications · HVAC/Lighting
C0763A	22/6 Multi-Cond. 7/30TC SHLD CM	
C2534A	18/2 Multi-Cond. 16/30TC SHLD CM	
C2535A	18/3 Multi-Cond. 16/30TC SHLD CM	
C2543A	18/4 Multi Cond. 19/30TC SHLD CM	
	RISER UNSHIELDED CLASSICS	
C6348A	22/2 Multi-Cond. 7/30TC UNSH CM	· Remote and Process Control · Public Address Systems · Building Automation for EIA 232 Serial Applications · HVAC/Lighting
C4062A	22/3 Multi-Cond. 7/30TC UNSH CM	
C4063A	22/4 Multi-Cond. 7/30TC UNSH CM	
C6351A	20/2 Multi-Cond. 7/28TC UNSH CM	
C2831A	18/3 Multi-Cond. 16/30TC UNSH CM	
	PLENUM SHIELDED CLASSICS	
C3158	22/2 Multi-Cond. 7/30TC PVC/SHLD/FLEX CMP	· Remote and Process Control · Public Address Systems · Building Automation for EIA 232 Serial Applications · HVAC/Lighting
C3062	18/2 Multi-Cond. 7/26BC PVC/SHLD/FLEX CMP	
C3063	18/4 Multi Cond. 7/26BC PVC/SHLD/FLEX CMP	
C3065	18/6 Multi-Cond. 7/26BC PVC/SHLD/FLEX CMP	
C3068	16/2 Multi-Cond. 19/.0117BC SHLD/FLEX CMP	
	PLENUM UNSHIELDED CLASSICS	
C3115	22/2 Multi-Cond. 7/30TC PVC/UNSH/FLEX CMP	· Remote and Process Control · Public Address Systems · Building Automation for EIA 232 Serial Applications · HVAC/Lighting
C3112	18/2 Multi-Cond. 7/26BC PVC/UNSH/FLEX CMP	
C3113	18/4 Multi-Cond. 7/26BC PVC/UNSH/FLEX CMP	
C3122	18/8 Multi-Cond. 7/26BC PVC/UNSH/FLEX CMP	
C3128	14/2 Multi-Cond. 19/.0147BC UNSH/FLEX CL3P	

Classics – Hi-Temp:

As with the multi-conductor designs, a wide array of insulating and jacketing materials are available to meet specific electronic applications. CAROL® communication cable products are manufactured to meet the latest UL, CSA and NEC requirements and approvals.



PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
	MULTI-PAIRED UNSHIELDED HI-TEMP CLASSICS	
C8122	18/1 Multi-Pr. 19/30TC UNSH FLP/PVC CMP	· Remote Control Circuits · Process Control and Instrumentation · Suggested Voltage Rating: 300 V
	MULTI-PAIRED SHIELDED HI-TEMP CLASSICS	
C8118	24/2 Multi-Pr. 7/32TC SHLD FFEP/PVDF CMP	· Remote Control Circuits · Process Control and Instrumentation · Suggested Voltage Rating: 300 V
C8109	22/1 Multi-Pr. 7/30TC SHLD FEP/FEP CMP	
C8103	22/1 Multi-Pr. 7/30TC SHLD FEP/PVDF CMP	
C8101	18/1 Multi-Pr. 19/30TC SHLD FEP/FEP CMP	
C8104	18/1 Multi-Pr. 19/30TC SHLD FEP/PVDF CMP	
C8127	24/1 Multi-Pr. 7/32TC SHLD FEP/PVC CMP	
C8113	24/3 Multi-Pr. 7/32TC SHLD FEP/LSPVC CMP	
C8126	22/1 Multi-Pr. 7/30TC SHLD FEP/PVC CMP	
C8124	22/1 Multi-Pr. 7/30TC SHLD FEP/PVC CMP	
C8123	18/1 Multi-Pr. 19/30TC SHLD FEP/PVC CMP	
	MULTI-PAIRED DUAL SHIELDED HI-TEMP CLASSICS	
C8117	24/1 Multi-Pr. 7/32TC FOIL/BRD SHLD FEP/FEP CMP	· Remote Control Circuits
C8129	24/2 Multi-Pr. 7/32TC FOIL/BRD SHLD FFEP/PVDF CMP	
	MULTI-PAIRED INDIVIDUALLY SHIELDED HI-TEMP CLASSICS	
C8134	24/2 Multi-Pr. 7/32TC ISHLD FFEP/PVC CMP	· Remote Control Circuits · Process Control and Instrumentation · Suggested Voltage Rating: 300 V
C8105	22/2 Multi-Pr. 7/30TC ISHLD FEP/PVC CMP	
C8131	22/3 Multi-Pr. 7/30TC ISHLD FEP/PVC CMP	
C8133	22/6 Multi-Pr. 7/30TC ISHLD FEP/PVC CMP	
C8112	22/2 Multi-Pr. 7/30TC ISHLD FEP/FEP CMP	
C8132	22/6 Multi-Pr. 7/30TC ISHLD FEP/FEP CMP	
C8128	24/2 Multi-Pr. 7/32TC ISHLD FFEP/PVDF CMP	
	MULTI-CONDUCTOR UNSHIELDED HI-TEMP CLASSICS	
C8102	18/4 Multi-Cond. 19/30TC UNSH FEP/FEP CMP	· Process Control and Instrumentation
	MULTI-CONDUCTOR SHIELDED HI-TEMP CLASSICS	
C8106	18/3 Multi-Cond. 19/30TC SHLD FEP/FEP CMP	· Process Control and Instrumentation
C8114	18/4 Multi-Cond. 19/30TC SHLD FEP/FEP CMP	
	MULTI-CONDUCTOR DUAL SHIELDED HI-TEMP CLASSICS	
C8107	18/3 Multi-Cond. 19/30TC FOIL/BRD SHLD FEP/FEP CMP	· Remote Control Circuits · Process Control and Instrumentation · Suggested Voltage Rating: 300 V
C8110	18/4 Multi-Cond. 19/30TC FOIL/BRD SHLD FEP/FEP CMP	
C8120	18/6 Multi-Cond. 19/30TC FOIL/BRD SHLD FEP/FEP CMP	
C8111	16/2 Multi-Cond. 19/29TC FOIL/BRD SHLD FEP/FEP CMP	
C8119	16/3 Multi-Cond. 19/29TC FOIL/BRD SHLD FEP/FEP CMP	
C8108	16/6 Multi-Cond. 19/29TC FOIL/BRD SHLD FEP/FEP CMP	

NOTE: Other gauges, colors and packaging are available. Contact your Prysmian representative for additional ordering options.

EXZEL®:

EXZEL® High-Endurance Electronic Cables are manufactured with the selection, quality and dependability our customers have come to expect from CAROL®. From special jacket colors, print legends and TRU-Mark® sequential footage markings to unique constructions, innovative materials and quality manufacturing, our expert engineers offer superior service and design assistance.

PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
MULTI-CONDUCTOR UNSHIELDED COMMUNICATION AND CONTROL		
C9009A	22/2 Multi-Cond. 7/30TC UNSH CM	· Advanced Signal Transmission in Controlled Environments · Medical Instrumentation and Equipment · Consumer Electronic Peripherals · Industrial Process Control Systems · Suitable for EIA-RS-232 Applications
C9010A	22/3 Multi-Cond. 7/30TC UNSH CM	
C9011A	22/4 Multi-Cond. 7/30TC UNSH CM	
C9012A	22/6 Multi-Cond. 7/30TC UNSH CM	
C9013A	22/8 Multi Cond. 7/30TC UNSH CM	
C9014A	22/10 Multi-Cond. 7/30TC UNSH CM	
C9015A	22/15 Multi-Cond. 7/30TC UNSH CM	
C9018A	20/2 Multi-Cond. 7/28TC UNSH CM	
C9019A	20/3 Multi-Cond. 7/28TC UNSH CM	
C9020A	20/4 Multi-Cond. 7/28TC UNSH CM	
C9021A	20/6 Multi-Cond. 7/28TC UNSH CM	
C9022A	20/8 Multi-Cond. 7/28TC UNSH CM	
C9023A	20/10 Multi-Cond. 7/28TC UNSH CM	
C9024A	20/15 Multi-Cond. 7/28TC UNSH CM	
C9028A	2/18 Multi-Cond. 16/30TC UNSH CM	
C9030A	3/18 Multi-Cond. 16/30TC UNSH CM	
C9031A	4/18 Multi-Cond. 16/30TC UNSH CM	
C9032A	6/18 Multi-Cond. 16/30TC UNSH CM	
C9033A	8/18 Multi-Cond. 16/30TC UNSH CM	
C9034A	10/18 Multi-Cond. 16/30TC UNSH CM	
C9035A	15/18 Multi-Cond. 16/30TC UNSH CM	
C9039A	2/16 Multi-Cond. 19/0117TC UNSH CM	
C9041A	3/16 Multi-Cond. 19/0117TC UNSH CM	
C9042A	4/16 Multi-Cond. 19/0117TC UNSH CM	
C9043A	6/16 Multi-Cond. 19/0117TC UNSH CM	
C9044A	8/16 Multi-Cond. 19/0117TC UNSH CM	
C9045A	10/16 Multi-Cond. 19/0117TC UNSH CM	

MULTI-CONDUCTOR SHIELDED COMMUNICATION AND CONTROL		
C9109A	22/2 Multi-Cond. 7/30TC SHLD CM	· Advanced Signal Transmission in Controlled Environments · Medical Instrumentation and Equipment · Consumer Electronic Peripherals · Industrial Process Control Systems · Suitable for EIA-RS-232 Applications
C9110A	22/3 Multi-Cond. 7/30TC SHLD CM	
C9111A	22/4 Multi-Cond. 7/30TC SHLD CM	
C9112A	22/6 Multi-Cond. 7/30TC SHLD CM	
C9113A	22/8 Multi-Cond. 7/30TC SHLD CM	
C9114A	22/10 Multi-Cond. 7/30TC SHLD CM	
C9115A	22/15 Multi-Cond. 7/30TC SHLD CM	
C9118A	20/2 Multi-Cond. 7/28TC SHLD CM	
C9119A	20/3 Multi-Cond. 7/28TC SHLD CM	
C9120A	20/4 Multi-Cond. 7/28TC SHLD CM	
C9121A	20/6 Multi-Cond. 7/28TC SHLD CM	
C9122A	20/8 Multi-Cond. 7/28TC SHLD CM	
C9123A	20/10 Multi-Cond. 7/28TC SHLD CM	
C9124A	20/15 Multi-Cond. 7/28TC SHLD CM	
C9127A	18/2 Multi-Cond. 16/30TC SHLD CM	
C9129A	18/3 Multi-Cond. 16/30TC SHLD CM	
C9131A	18/4 Multi-Cond. 16/30TC SHLD CM	
C9132A	18/6 Multi-Cond. 16/30TC SHLD CM	
C9133A	18/8 Multi-Cond. 16/30TC SHLD CM	
C9134A	18/10 Multi-Cond. 16/30TC SHLD CM	
C9135A	18/15 Multi-Cond. 16/30TC SHLD CM	
C9138A	16/2 Multi-Cond. 19/0117TC SHLD CM	
C9140A	16/3 Multi-Cond. 19/0117TC SHLD CM	
C9142A	16/4 Multi-Cond. 19/0117TC SHLD CM	
C9143A	16/6 Multi-Cond. 19/0117TC SHLD CM	
C9144A	16/8 Multi-Cond. 19/0117TC SHLD CM	
C9145A	16/10 Multi-Cond. 19/0117TC SHLD CM	

MULTI-CONDUCTOR DUAL SHIELDED COMMUNICATION AND CONTROL		
C9209A	22/2 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	· Advanced Signal Transmission in Controlled Environments · Medical Instrumentation and Equipment · Consumer Electronic Peripherals · Industrial Process Control Systems · Suitable for EIA-RS-232 Applications
C9210A	22/3 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9211A	22/4 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9212A	22/6 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9213A	22/8 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9214A	22/10 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9215A	22/15 Multi-Cond. 7/30TC FOIL/BRD SHLD CM	
C9218A	20/2 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9219A	20/3 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9220A	20/4 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9221A	20/6 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9222A	20/8 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9223A	20/10 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9224A	20/15 Multi-Cond. 7/28TC FOIL/BRD SHLD CM	
C9228A	18/2 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	
C9230A	18/3 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	
C9231A	18/4 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	
C9232A	18/6 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	
C9233A	18/8 Multi-Cond. 16/30TC FOIL/BRD SHLD CM	

Paired constructions are available
LSZH constructions are available

NOTE: Other gauges, colors and packaging are available. Contact your Prysmian representative for additional ordering options.

EXZEL EXCEPTIONAL PERFORMANCE

DBRF Coax for Distributed Antenna Systems (DAS):

The ability to communicate anywhere with wireless devices or cell phones, both indoors and out, continues to be a growing demand that requires Distributed Antenna Systems (DAS). A DAS is a network of spatially separated antennas connected to a transport medium, typically coax or fiber optic cable, that provides wireless service within a building or structure.

PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
	DBRF COAX	
DBRF100	PVC Jacket - Indoor/Outdoor	· 2-way Land Mobile Radios · Wireless Local Area Networks IEEE802.11 · Wireless Local Loop · Wireless Internet (WISP) · Wireless Cable (MMDS) · Wireless Broadband Data · Telemetry · Commercial Buildings · Residential Housing · Business and Office Campus Environments · Public Stadiums and Arenas · Transportation Hubs like Airports, Train Stations and Bus Stations · Primary and Secondary Schools, Universities and Colleges · Governments and Municipalities
DBRF100HF	FR-LSZH Jacket - Indoor/CMR Riser	
DBRF100R	FR-PVC Jacket - Indoor/CMR Riser	
DBRF100P	LS-PVC Jacket - Indoor/CMP Plenum	
DBRF195	Polyethylene Jacket - Indoor/Outdoor	
DBRF195FL	Polyethylene Jacket - Outdoor/Flooded Water-Resistant	
DBRF195HF	FR-LSZH Jacket - Indoor/CMR Riser	
DBRF195R	FR-PVC Jacket - Indoor/CMR Riser	
DBRF195P	LS-PVC Jacket - Indoor/CMP Plenum	
DBRF200	Polyethylene Jacket - Indoor/Outdoor	
DBRF200FL	Polyethylene Jacket - Outdoor/Flooded Water-Resistant	
DBRF200HF	FR-LSZH Jacket - Indoor/CMR Riser	
DBRF200R	FR-PVC Jacket - Indoor/CMR Riser	
DBRF200P	LS-PVC Jacket - Indoor/CMP Plenum	
DBRF240	Polyethylene Jacket - Indoor/Outdoor	
DBRF240FL	Polyethylene Jacket - Outdoor/Flooded Water-Resistant	
DBRF240HF	FR-LSZH Jacket - Indoor/CMR Riser	
DBRF240R	FR-PVC Jacket - Indoor/CMR Riser	
DBRF240P	LS-PVC Jacket - Indoor/CMP Plenum	
DBRF300	Polyethylene Jacket - Indoor/Outdoor	
DBRF300FL	Polyethylene Jacket - Flooded Water-Resistant Outdoor	
DBRF300HF	FR-LSZH Jacket - Indoor/CMR Riser	
DBRF300R	FR-PVC Jacket - Indoor/CMR Riser	
DBRF300P	LS-PVC Jacket - Indoor/CMP Plenum	
DBRF400	Polyethylene Jacket - Outdoor	
DBRF400FL	Polyethylene Jacket - Outdoor/Flooded Water-Resistant	
DBRF400HF	FR-LSZH Jacket - Indoor/CMR Riser	
DBRF400R	FR-PVC Jacket - Indoor/CMR Riser	
DBRF400P	PVDF Jacket - Indoor/CMP Plenum - 150C	

NOTE: Fiber/Power Composite Cables, as well as other gauges, colors and packaging, are available. Contact your Prysmian representative for additional ordering options.

Coax:

CAROL® offers a complete line of coaxial cables for today's sophisticated high-speed, wide-bandwidth electronics products that run over long distances with minimal signal loss or degradation.

PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
C5775	18/1 RG6/U FL+60%AL/BRD SHLD CL2/CM	· CATV · MATV
C5886	18/1 RG6/U FL+60%AL/BRD SHLD CMR	
C5785	18/1 RG6/U QUAD SHLD CL2/CM	
C5889	18/1 RG6/U QUAD SHLD RISER	
C1156	26/1 RG174U 88%TC/BRD SHLD	
C3524	18/1 RG6/U FL+80%AL/BRD SHLD CL2P/CMP	
C3525	18/1 RG6/U QUAD SHLD CL2P/CMP	
C3521	18/1 RG6/U FL+95%TC/BRD SHLD HD/ETL/CMP	
C3528	14/1 RG11/U FL+60%AL/BRD SHLD CL2P	
C3529	14/1 RG11/U QUAD SHLD CL2P	
C8029	18+1PR18 RG6/U CCTV/CM/CL2	· CCTV · RF/Broadcast · HDTV
C8028	20+1PR18 RG59/U CCTV/CM/CL2	
C1142	20/1 RG59/U 95%BC/BRD SHLD CL2/CM	
C1166	20/1 RG58/U 95%TC/BRD SHLD JAN-C-17A	
C8030	20+1PR18 RG59/U CCTV PLENUM	· CCTV · HDTV
495025	18/1 RG6/U FL+95%TC/BRD SHLD HD/SDI/CMP	
495028	20/1 RG59/U 95%BC/BRD SHLD CMP	
495027	14/1 RG11/U FL+95%TC/BRD SHLD PVDF CMP	
495015	14/1 RG11/U 95%BC/BRD SHLD PVDF CMP	

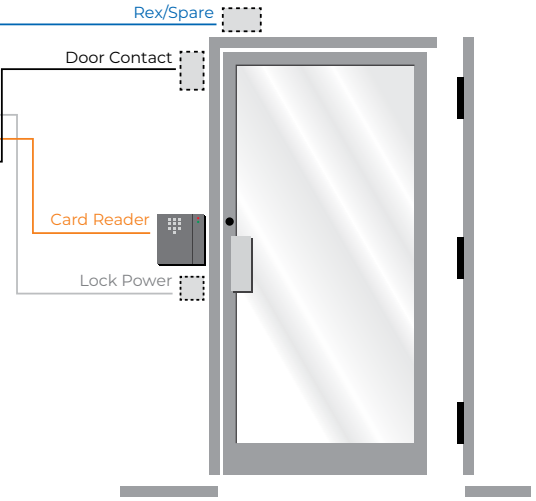
Access Control:

When your job requires Access Control cable, think of CAROL® cables first. We manufacture over 1,000 standard electronic cables that we can ship direct from stock, and we have the technical staff and design expertise to meet any customer cable requirement. The cables are installer friendly, as they save time and money on installation. With multiple cables under one jacket, time is saved in preparation and setup, pulling and termination.

PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
4EPL1S	4 Elements 1 Shielded Overall Jacket Access Control Plenum	· Card Readers · Door Contacts · Lock Power · Retinal Scanner in Commercial Buildings
4EPL4S	4 Shielded Elements Overall Jacket Access Control Plenum	
4ERS1S	4 Elements 1 Shielded Overall Jacket Access Control Riser	
4ERS4S	4 Shielded Elements Overall Jacket Access Control Riser	

JACKET COLOR CODING & COMPONENT APPLICATION

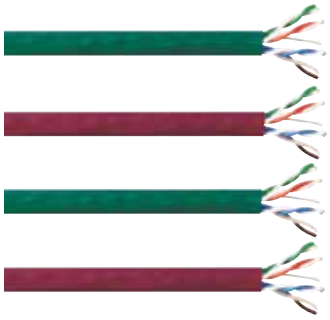
JACKET COLOR	COMPONENT	CABLE TYPE	APPLICATION
Gray	1	4 Conductor, 18 AWG	Lock Power
Orange	2	3 Pair, 22 AWG	Card Reader
White	3	2 Conductor, 22 AWG	Door Contact
Blue	4	4 Conductor, 22 AWG	Rex/Spare



NOTE: Other gauges, colors and packaging are available. Contact your Prysmian representative for additional ordering options.

Low Skew 4 Pair® UTP Cables:

CAROL® Low Skew UTP Cables are manufactured for your RGB video and Digital CCTV camera needs. While the basic elements of the Low Skew Cables construction are similar to a UTP Cable (Category cable) used for data transmission, the design of the pair twists is the secret to delivering information in a manner necessary for streaming high-quality video.



PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
E3842S CMP	24 AWG 4 Pair UTP, Plenum	· Suitable for RGB Video Applications · Digital CCTV Cameras
E1842S CMR	24 AWG 4 Pair UTP, Riser	
E3843S CMP	23 AWG 4 Pair UTP, Plenum	
E1843S CMR	23 AWG 4 Pair UTP, Riser	

COMMODORE® (Armored):

For cable upgrades or installations, the offshore industry is focusing on network performance and increased bandwidth potential that will last for years. COMMODORE Coaxial communication and video monitoring LSZH constructions are used in control and coaxial communication applications where performance is critical.

PART NUMBER	PRODUCT DESCRIPTION	APPLICATIONS
EO24P0022188	24/2P RS485 COMMODORE ABS SHPBRD	· Oil, Gas and Petrochemical Applications · Deeper Drilling for Natural Gas and Resources in Extremes · Offshore Rigs · Production Platforms · FPSOs and Ships · Stabilization and Directional Drilling · Shipboard Applications Only
EO24P0022186	24/2P RS422 COMMODORE ABS SHPBRD	
EO24P0042186	24/4P RS422 COMMODORE ABS SHPBRD	
EO24P0082186	24/8P RS422 COMMODORE ABS SHPBRD	
ZO16P0022189	16/2P COMMODORE DEVICENET ABS SHPBRD	
CO18C0012170	18/1P RG6/U COMMODORE ABS SHPBRD	
CO14C0012170	14/1P RG11/U COMMODORE ABS SHPBRD	
CO21C0012170	21/1P RG58/U COMMODORE ABS SHPBRD	
CO20C0012170	20/1P RG59/U COMMODORE ABS SHPBRD	
CO13C0012170	13/1P RG213/U COMMODORE ABS SHPBRD	
EO18P0015337	18/1P COMMODORE FIELDBUS ABS SHPBRD	
EO18P0025337	18/2P COMMODORE FIELDBUS ABS SHPBRD	
EO18P0055337	18/5P COMMODORE FIELDBUS ABS SHPBRD	
EO22P0011203	22/1P COMMODORE PROFIBUS ABS SHPBRD	

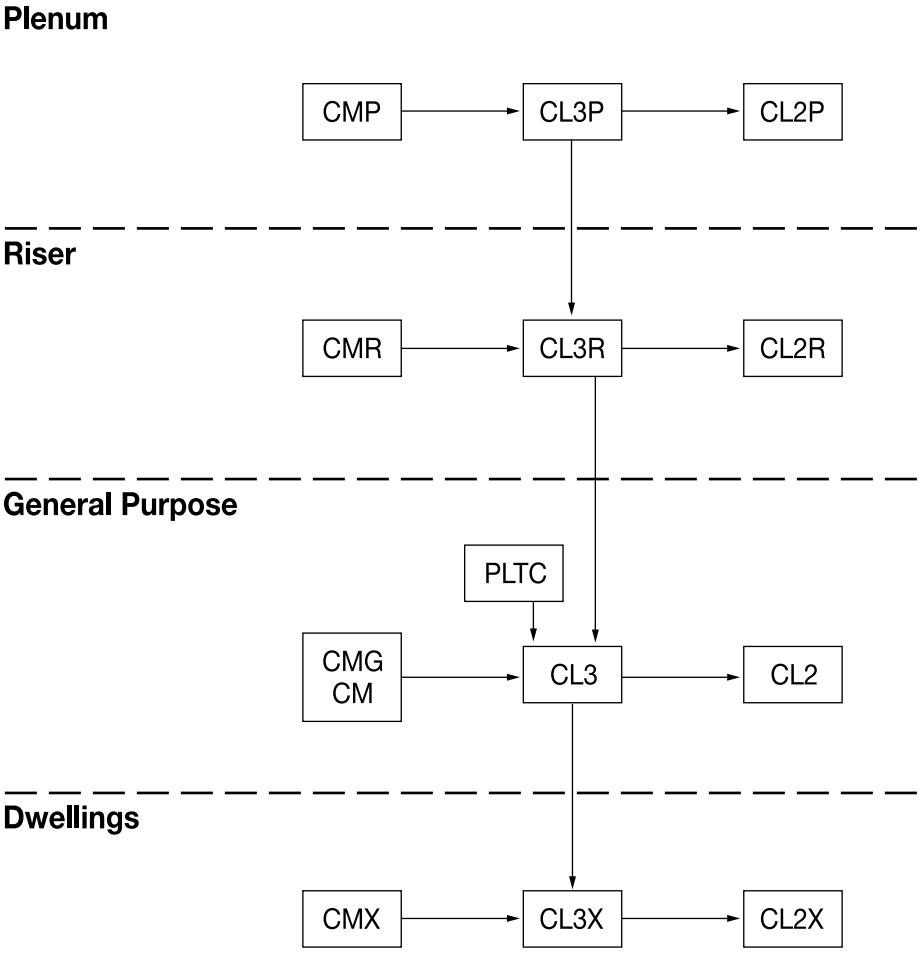
This cross-reference guide should be used in conjunction with the product information contained in our catalog or Website. It should be used for suggested alternative items, which are functionally equal. Constructional differences are not indicated. Prysmian is not responsible for variances due to competitor and industry constructional changes or agency updates.

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	

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 800-154).

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.



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 2011 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.

°C	KNOWN TEMP	°F	°C	KNOWN TEMP	°F	°C	KNOWN TEMP	°F	°C	KNOWN TEMP	°F	°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**	256.8	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 =	($\frac{9}{5}$ x °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.

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.

Note: 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 & Electrical Requirements

For Twisted Pair Horizontal Wiring Cable

CATEGORY	INDUSTRY STANDARDS	TYPICAL USES	FREQUENCY	INSERT. LOSS dB/100 M (MAX)	CHARACTERISTICS IMPEDANCE OHMS		NEXT dB (MIN)	PSNEXT dB (MIN)	RETURN LOSS dB (MIN)	PSACRF (PSELFEXT) dB (MIN)	PSAACRF dB (MIN)	PSANEXT dB (MIN)
					MIN	MAX						
Category 3	ANSI/TIA/EIA 568 C.2 ANSI/ICEA S-90-661 NEMA WC63.1	10 BASE-T 4 Mbps TOKEN RING 52 Mbps ATM 100 BASE VG AnyLAN	772 kHz	2.2	87	117	43	—	—	—	—	—
			1 MHz	2.6	85	115	41	—	—	—	—	—
			4 MHz	5.6	85	115	32	—	—	—	—	—
			8 MHz	8.5	85	115	28	—	—	—	—	—
			10 MHz	9.7	85	115	26	—	—	—	—	—
			16 MHz	13.1	85	115	23	—	—	—	—	—
Category 5e	ANSI/TIA/EIA 568 C.2 ANSI/ICEA S-90-661 NEMA WC63.1 ISO 11801	100 BASE-T 52/155 Mbps ATM 100 BASE VG AnyLAN 100 Mbps TP PMD 1000 BASE-T (Gigabit Ethernet) IEE 802.3af DTE Power (PoE) IEE 802.3at for PoE Plus	772 kHz	1.8	87	117	67	64	—	63.0	—	—
			1 MHz	2.0	85	115	65	62	20.0	60.8	—	—
			4 MHz	4.1	85	115	56	53	23.0	48.7	—	—
			8 MHz	5.8	85	115	51	48	24.5	42.7	—	—
			10 MHz	6.5	85	115	50	47	25.0	40.8	—	—
			16 MHz	8.2	85	115	47	44	25.0	36.7	—	—
			20 MHz	9.3	85	115	45	42	25.0	34.7	—	—
			25 MHz	10.4	85	115	44	41	24.3	32.8	—	—
			31.25 MHz	11.7	85	115	43	40	23.6	30.9	—	—
			62.5 MHz	17.0	85	115	38	35	21.5	24.8	—	—
			100 MHz	22.0	85	115	35	32	20.1	20.8	—	—
Category 6	ANSI/TIA/EIA 568 C.2 ANSI/ICEA S-90-661 NEMA WC66 ISO 11801	155/622 Mbps ATM 1.2 Gbps ATM 100 Mbps TP PMD 100 BASE-T 1000 BASE-T (Gigabit Ethernet) IEE 802.3af DTE Power (PoE) IEE 802.3at for PoE Plus	772 kHz	1.8	87	117	76.0	74.0	—	67.0	—	—
			1 MHz	2.0	85	115	74.3	72.3	20.0	64.8	—	—
			4 MHz	3.8	85	115	65.3	63.3	23.0	52.8	—	—
			10 MHz	6.0	85	115	59.3	57.3	25.0	44.8	—	—
			16 MHz	7.6	85	115	56.2	54.2	25.0	40.7	—	—
			20 MHz	8.5	85	115	54.8	52.8	25.0	38.7	—	—
			31.25 MHz	10.7	85	115	51.9	49.9	23.6	36.8	—	—
			62.5 MHz	15.4	85	115	47.4	45.4	21.5	34.9	—	—
			100 MHz	19.8	85	115	44.3	42.3	20.1	24.8	—	—
			200 MHz	29.0	85	115	39.8	37.8	18.0	18.8	—	—
			250 MHz	32.8	85	115	38.3	36.3	17.3	16.8	—	—
Category 6a	ANSI/TIA 568 C.2 RoHS	IEEE 802.3 10G BASE-T 100 BASE-T 100 BASE-TX 10 BASE-T 1000 BASE-TX 155 Mb/s ATM ANSI X3.263 100Mb/s IEE 802.3af DTE Power (PoE) IEE 802.3at for PoE Plus	1 MHz	2.1	85	115	74.3	72.3	20.0	64.8	78.2	92.5
			4 MHz	3.8	85	115	65.3	63.3	23.0	52.8	66.2	83.5
			8 MHz	5.3	85	115	60.8	58.8	24.5	46.7	60.1	79.0
			10 MHz	5.9	85	115	59.3	57.3	25.0	44.8	58.2	77.5
			16 MHz	7.5	85	115	56.2	54.2	25.0	40.7	54.1	74.4
			20 MHz	8.4	85	115	54.8	52.8	25.0	38.8	52.2	73.0
			25 MHz	9.4	85	115	53.3	51.3	24.3	36.8	50.2	71.5
			31.25 MHz	10.5	85	115	51.9	49.9	23.6	34.9	48.3	70.1
			62.50 MHz	15.0	85	115	47.4	45.4	21.5	28.9	42.3	65.6
			100 MHz	19.1	85	115	44.3	42.3	20.1	24.8	38.2	62.5
			200 MHz	27.6	85	115	39.8	37.8	18.0	18.8	32.2	58.0
			250 MHz	31.1	85	115	38.3	36.3	17.3	16.8	30.2	56.5
			300 MHz	34.3	85	115	37.1	35.1	16.8	15.3	28.7	55.3
			400 MHz	40.1	85	115	35.3	33.3	15.9	12.8	26.2	53.5
			500 MHz	45.3	85	115	33.8	31.8	15.2	10.8	24.2	52.0

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

— No requirement

Note: Higher category may be substituted for lower category.

Packaging Information

Gen*SPEED*® Packaging Options:

- Pull-Pac® cartons offer wide-mouth payouts 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 Gen*SPEED* cables have the TRU-Mark® sequential footage marking system, from 1000 ft to 0 ft, to reduce waste on the job.
- Most packages are made with partially recycled cardboard. Please recycle.

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.

▲ Gen*SPEED*® Pull-Pac®

5000	CMR/CMP/CMX
5350	CMR/CMP
5500	CMR/CMP
6	CMR/CMP
6000E	CMR/CMP
10 UTP	CMR/CMP

▲ Gen*SPEED*® D2000 Pull-Pac®

5000	CMR/CMP/CMX
5350	CMR/CMP
5500	CMR/CMP
6	CMR/CMP
6000E	CMR/CMP
10 MTP	CMR/CMP

▲ Gen*SPEED*® Basic Spool-Pac®

5000	CMR/CMP
5350	CMR/CMP
5500	CMR/CMP
6	CMR/CMP
10	CMP
10 MTP	CMP

▲ Gen*SPEED*® EZ-Brake™ Spool-Pac®

6000E	CMR/CMP
6500P	CMR/CMP

▲ Spool-Pac® Cat 3

▲ Spool

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With more than 165 years of experience behind us, Prysmian leads the industry in quality and innovation.

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- Gen*SPEED*® Brand Cat 6A 10 Gig, Cat 6 and Cat 5e Products
- NextGen® Brand Fiber Optic Products
- Carol® Brand Electronic Products
- Gepco® Brand Broadcast, Professional & Commercial A/V Products
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Prysmian has the resources, solutions and superior expertise you can depend on. Our products not only meet but exceed current cabling standards, and can be customized to fit any network or application.

Let us work with you to plan a complete communications delivery system that will keep you and your customers Connected at the Speed of Life.

Glossary

Alien Crosstalk (AXT): Unwanted signal coupling from one component, channel, or permanent link to another is defined as alien crosstalk. Alien crosstalk is only specified by the Standards as a power sum parameter for components and cabling to approximate the energy present when all pairs are energized. Power sum alien measured at the near-end is called Power Sum Alien Near-End Crosstalk loss (PSANEXT) and power sum alien crosstalk at the far-end is called Power Sum Alien Attenuation to Crosstalk Ratio, far-end (PSAACRF). High power sum alien crosstalk levels can compromise the operation of 10G Base-T applications.

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.

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

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.

Equal Level Transverse Conversion Transfer Loss (ELTCTL): A calculation, expressed in dB, of the difference between measured TCTL and the differential mode insertion loss of the disturbed pair.

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.

Longitudinal Conversion Loss (LCL): A measure of how well a pair is balanced and a useful metric of a cable's ability to reject noise from external sources and to limit electromagnetic radiation from the cable to the environment. Examples of external noise sources include noisy power lines, electrical equipment, walkie-talkies, radio and radar stations, and alien crosstalk from other telecommunications cables. As structured cabling is applied to industrial environments and network speeds increase, balance becomes increasingly important.

Glossary

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.

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.

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

Power over Ethernet (PoE): An application defined in IEEE 802.3af and IEEE 802.3at which allows the use of direct current power sources to deliver low voltage power to remote devices over telecommunications cabling.

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 Attenuation-to-Alien Crosstalk Ratio, Far-End (PSAACRF): A computation of the unwanted signal coupling from multiple transmitters at the near-end of surrounding cables into a pair measured at the far-end of the center cable under test, and normalized to the received signal level. See Alien Crosstalk (AXT).

Power Sum Attenuation-to-Crosstalk Ratio, Far-End (PSACRF), formerly PS ELFEXT: 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 Alien Near-End Crosstalk (PSANEXT): A computation of the unwanted signal coupling from multiple transmitters at the near-end of pairs in the surrounding cables into a pair measured at the near-end of the center cable under test. See Alien Crosstalk (AXT).

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.

Restriction on Hazardous Substances (RoHS): The European Commission's Directive 2002/95/EC adopted January 27, 2003, also known as "RoHS," which restricts the use of certain hazardous substances in electrical and electronic equipment.

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 (BER).

Star Topology: A Local Area Network (LAN) topology in which end points of the network are connected to a common central switch by point-to-point links.

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.

Transverse Conversion Loss (TCL): A ratio, expressed in dB, of the measured common mode voltage on a pair relative to the differential mode voltage on the same pair applied at the same end.

Transverse Conversion Transfer Loss (TCTL): A ratio, expressed in dB, of the measured common mode voltage on a pair relative to the differential mode voltage applied at the opposite end of the same pair, or on either end of another pair.

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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