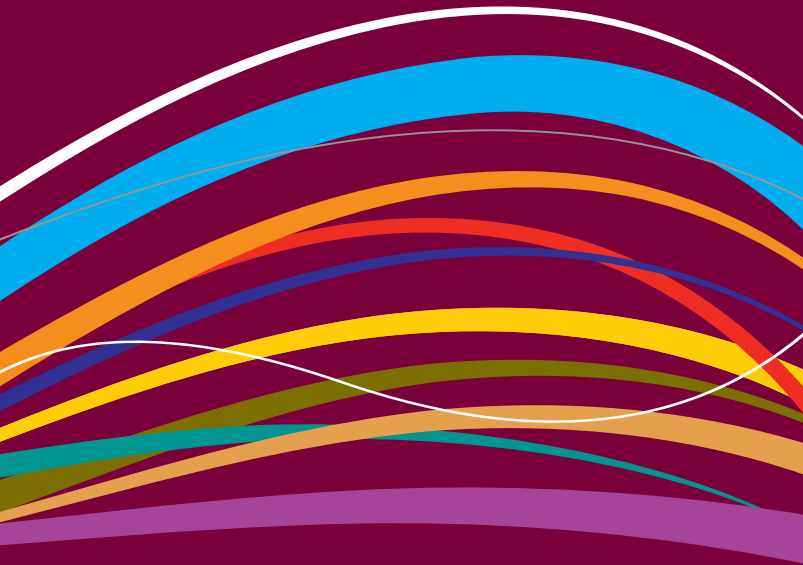




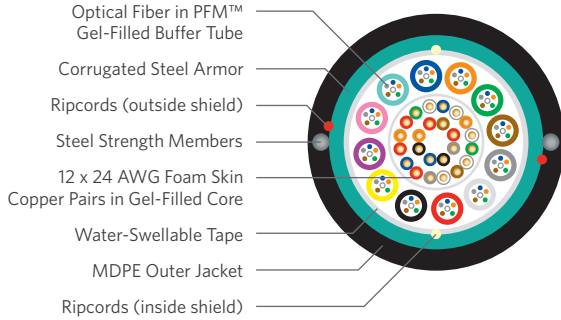
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Composite Right of Way

Series MR



PRODUCT DESCRIPTION

The Composite Right of Way Series MR cable is designed to meet the network requirements for both twisted copper pair and optical fiber. The small 0.65 inch (16.6 mm) profile of this design easily fits into a 1-inch conduit. The cable operates within a temperature range of -40°C to +70°C, provides a maximum tensile strength of 600 lbs, and incorporates 12, 24 AWG twisted copper pairs and up to 72 strands of optical fiber. The core, 12 pairs of 24 AWG gel-filled copper, is surrounded by 12 gel-filled tubes each containing 6 optical fibers. The core is water-blocked with super absorbent polymers and then encased in a steel armor. Two steel rods for anti-buckling are included in the outer jacket.

APPLICATIONS

- Small conduits

FEATURES

- Fiber and twisted copper pair
- Single unit construction
- Available with up to 72-fiber
- Small nominal diameter

BENEFITS

- Offers the maximum bandwidth for FTTP business, etc.
- Lower installation costs
- High capacity
- Suitable for small (1 inch) conduit applications

COMPOSITE SPECIFICATIONS

Construction	Copper pairs at center of cable surrounded by stranded loose tubes of optical fiber
Water Block	Super absorbent polymer tape
Shield	Corrugated steel armor
Strength Members	Two steel strength members embedded in jacket
Jacket	MDPE
Standards Compliance	Telcordia GR-20-CORE ICEA S-84-608-2007

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-10°C to +70°C

OSP COPPER SPECIFICATIONS

Conductor	12-pair 24 AWG (0.51 mm) solid annealed copper
Core Filling	Thixotropic gel

OPTICAL FIBER SPECIFICATIONS

Construction	Stranded loose tube design features optical fibers placed inside a PFM™ gel-filled tube
Fiber Count	Up to 72 optical fibers

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Fiber Count	Fiber Type	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Bend Radius in (mm)	Maximum Tensile Load	
						Install lbs (N)	Long Term lbs (N)
MR0723011	72	RWP SMF	0.65 (16.6)	160 (237)	13 (332)	600 (2700)	200 (890)

Part number listed are RWP single mode optical fiber only. Other fiber types are available. See the "Optical Fiber Selection Chart" in the "Technical Info" section for detailed fiber type specifications.

Composite Category 5e Drop

Series 5F

PRODUCT DESCRIPTION

Series 5F combines the broadband performance of CAT 5e with the unlimited capacity of optical fiber. A BBDNE CAT 5e Outside Plant (OSP) cable and a Series 513 optical fiber cable are overjacketed into one cable in order to offer flexibility and ease of installation.

APPLICATIONS

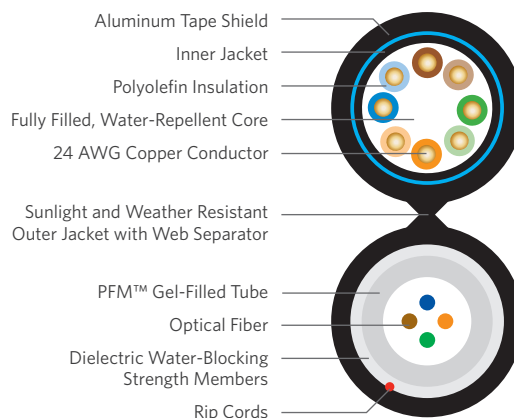
- Drop cables
- Broadband network
- Fiber to the premise

FEATURES

- Fiber and CAT 5e
- Overjacket design
- Single unit construction
- Available with 1-fiber up to 12-fiber
- PFM™ gel

BENEFITS

- Offers the maximum bandwidth for FTTP business, etc.
- Ease of use
- Lower installation costs
- High capacity
- Non-sticky gel reduces installation time and labor cost



COMPOSITE SPECIFICATIONS

Single Jacket Design	Copper and fiber independent cables are jacketed into one cable in order to offer flexibility and ease of installation
Standards Compliance	Copper and fiber cables meet applicable Telcordia and TIA standards

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-10°C to +70°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Fiber Count	Fiber Type	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Bend Radius in (mm)	Maximum Tensile Load		Standard Quantity ft (m)
						Install lbs (N)	Long Term lbs (N)	
11-003-30	4	RWP SMF	0.63 (16) x 0.43 (10.9)	100 (148.8)	5.5 (139.7)	300 (136)	100 (45)	5,000 (1,524)

Part number listed are RWP single mode optical fiber only. Other fiber types are available. See the "Optical Fiber Selection Chart" in the "Technical Info" section for detailed fiber type specifications.

OSP COPPER SPECIFICATIONS

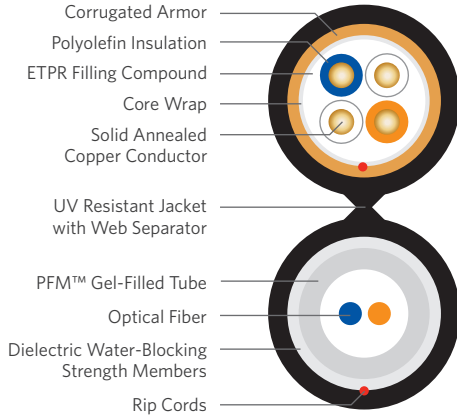
Conductor	CAT 5e 4-pair 24 AWG solid annealed copper
Core Filling	Thixotropic gel
Shield	Coated smooth aluminum tape
Water Block	Super absorbent polymer

OPTICAL FIBER SPECIFICATIONS

Construction	Series 513 single loose tube design with optical fibers placed inside a PFM gel-filled tube
Fiber Count	Up to 12 optical fibers
Strength Members	Core is helically wrapped with dielectric water-blocking strength members
Water Block	Super absorbent polymer

Composite Drop Web

Series 5W



BSW OSP COPPER SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Solid polyolefin
Core Wrap	Non-hygroscopic
Filling Compound	80°C ETPR compound for water-blocking protection
Shield	Corrugated armor

OPTICAL FIBER SPECIFICATIONS

Construction	Series 513 single loose tube design features optical fibers placed inside a PFM gel-filled tube
Fiber Count	Up to 12 optical fibers
Strength Members	Core is helically wrapped with dielectric water-blocking strength members

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Copper Pair Count x AWG	Fiber Count	Fiber Type	Nominal Diameter		Approx. Weight lbs/kft (kg/km)	Package
				Copper Component in (mm)	Fiber Component in (mm)		
5W002302Q	2 x 19	2	RWP SMF	0.31 (7.9)	0.26 (6.7)	131 (195)	8,000' Reel
71-202-12	5 x 19	2	RWP SMF	0.36 (9.1)	0.26 (6.7)	179 (266)	8,000' Reel
5W002301Q	2 x 22	2	RWP SMF	0.27 (6.9)	0.26 (6.7)	114 (170)	8,000' Reel
5W002303Q	5 x 22	2	RWP SMF	0.32 (8.1)	0.26 (6.7)	136 (202)	8,000' Reel
5W004301Q	6 x 22	4	RWP SMF	0.36 (9.1)	0.26 (6.7)	149 (222)	8,000' Reel

Part numbers listed are RWP single mode optical fiber only. Other fiber types are available. See the "Optical Fiber Selection Chart" in the "Technical Info" section for detailed fiber type specifications.

PRODUCT DESCRIPTION

Series 5W Composite Drop Cables combine fiber and copper technologies in a web design. The composite design provides a cost benefit compared to installing separate fiber and copper cables. The independent Series 513 optical fiber cable and the BSW Outside Plant (OSP) copper cable are combined in a single jacket design utilizing a web separator. This lightweight design is easy to access since the cables are easily separated at the web. In addition, each independent cable also contains a rip cord.

APPLICATIONS

- Network power and FTTP
- Drop cables

FEATURES

- Independent fiber and copper cables combined in a web design
- Web design
- Combined transport technologies in one cable
- Optical/electrical technology
- Multiple fiber types available
- PFM™ gel

BENEFITS

- Reduces cost of cable and labor
- Easy separation of technologies
- Cost-effective installation
- Ideal for multiple projects, voice, video, data and powering
- Multiple applications
- Non-sticky gel reduces installation time and labor cost

COMPOSITE SPECIFICATIONS

Single Jacket Design	Copper and fiber jackets joined by a web separator that can be split to direct the cables to separate locations
Standards Compliance	Copper and fiber cables meet applicable Telcordia, RDUP and ICEA specifications RoHS-compliant

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-20°C to +70°C

Composite Drop Overjacket

Series 71 OJ

PRODUCT DESCRIPTION

Series 71 OJ Composite Drop Cables combine fiber and copper technologies in an overjacket design. The independent Series 513 optical fiber cable and the BSW Outside Plant (OSP) copper cable are combined into one overjacketed cable. The composite design provides a cost benefit compared to installing separate fiber and copper cables.

This design allows great flexibility regarding the independent cables used in the overall construction. These independent cables are encased in an outer jacket with a rip cord included for ease of entry.

APPLICATIONS

- Network power and FTTP
- Drop cables

FEATURES

- Independent fiber and copper cables combined in an overjacket design
- Overjacket design
- Combined transport technologies in one cable
- Various combinations and multiple fiber types available
- PFM™ gel

BENEFITS

- Lightweight, flexible construction
- Easy separation of technologies
- Cost-effective installation
- Ideal for multiple projects
- Non-sticky gel reduces installation time and labor cost

COMPOSITE SPECIFICATIONS

Single Jacket Design	Independent copper and fiber cables are encased in an outer jacket with a rip cord
Standards Compliance	Copper and fiber cables meet applicable Telcordia, RDUP and ICEA specifications RoHS-compliant

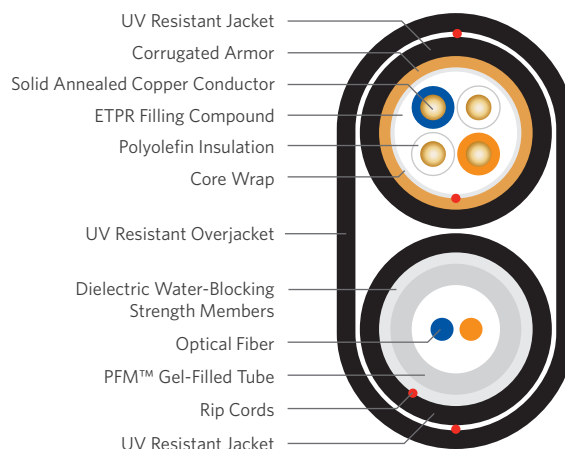
ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-20°C to +70°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Copper Pair Count x AWG	Fiber Count	Fiber Type	Nominal Diameter		Approx. Weight lbs/kft (kg/km)	Package
				Copper Component in (mm)	Fiber Component in (mm)		
71-055-02	2 x 22	2	RWP SMF	0.27 (6.9)	0.26 (6.7)	114 (170)	8,000' Reel
71-402-02	5 x 22	2	RWP SMF	0.32 (8.1)	0.26 (6.7)	136 (202)	8,000' Reel

Part numbers listed are RWP single mode optical fiber only. Other fiber types are available. See the "Optical Fiber Selection Chart" in the "Technical Info" section for detailed fiber type specifications.



BSW OSP COPPER SPECIFICATIONS

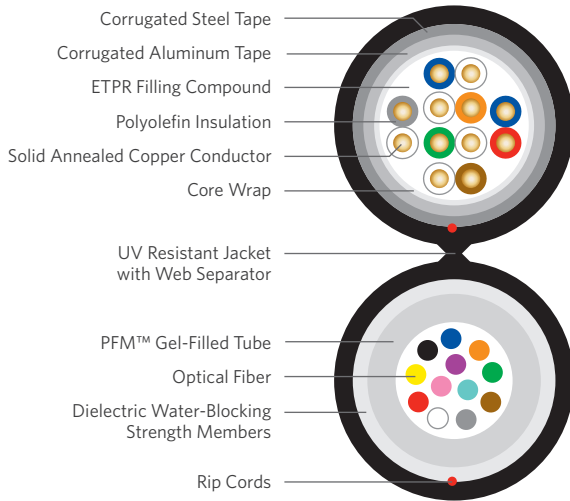
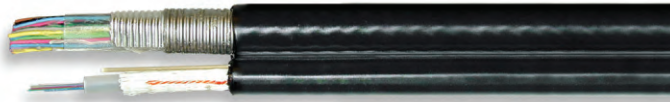
Conductor	Solid annealed copper
Insulation	Solid polyolefin
Core Wrap	Non-hygroscopic
Filling Compound	80°C ETPR compound for water-blocking protection
Shield	Corrugated armor

OPTICAL FIBER SPECIFICATIONS

Construction	Series 513 single loose tube design features optical fibers placed inside a PFM gel-filled tube
Fiber Count	Up to 12 optical fibers
Strength Members	Core is helically wrapped with dielectric water-blocking strength members

Composite OSP Web

Series 5V



PRODUCT DESCRIPTION

Series 5V Cables are designed for Outside Plant (OSP) broadband applications. These cables combine copper and optical fiber technologies into one composite cable and are suitable for voice, video and data communications. The copper cable offers the option of providing network power to eliminate the cost of local powering. The wide range of copper and fiber counts make this cable ideal for most projects.

The construction of this product combines an ANAW OSP copper cable and a Series 51 optical fiber cable. These independent cables are simultaneously jacketed in a polyethylene outer jacket with a rip cord included for ease of entry. The web connects the cables and can be easily split to direct the cables to different locations.

APPLICATIONS

- Direct bury, conduit, lashed aerial

FEATURES

- Independent fiber and copper cables under one jacket
- Web design
- Optical/electrical technology
- Web design
- PFM™ gel

BENEFITS

- Reduces labor cost
- Easy separation to different locations
- Ideal for voice, video and data
- Lower cost
- Non-sticky gel reduces installation time and labor cost

ANAW OSP COPPER SPECIFICATIONS

Conductor	22 AWG solid annealed copper
Insulation	Inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin
Core Wrap	Non-hygroscopic
Filling Compound	80°C ETPR compound for water-blocking protection
Shield	Corrugated 8 mil aluminum tape covered by a corrugated bare 6 mil steel tape; both inner and outer surfaces of the tapes are flooded to provide a moisture barrier and inhibit corrosion

OPTICAL FIBER SPECIFICATIONS

Construction	Series 51 single loose tube design features optical fibers placed inside a PFM gel-filled tube
Fiber Count	Up to 8 optical fiber bundles, each containing up to 12-fiber within a color coded binder
Strength Members	Core is helically wrapped with dielectric water-blocking strength members

COMPOSITE SPECIFICATIONS

Single Jacket Design	Copper and fiber independent cables are simultaneously jacketed in a polyethylene outer jacket with a rip cord included for ease of entry. Web connects the cables and can be easily split to direct the cables to different locations
Standards Compliance	Copper and fiber cables meet applicable Telcordia Specifications (GR-421-Core, GR-20 Core)

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-20°C to +70°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Copper Pair Count	Fiber Count	Fiber Type	Nominal Diameter		Approx. Weight lbs/kft (kg/km)	Package
				Copper Component in (mm)	Fiber Component in (mm)		
5V0063061	6	6	RWP SMF	0.45 (11)	0.37 (9)	176 (262)	14,800' Reel
5V0063121	12	6	RWP SMF	0.56 (14)	0.37 (9)	234 (348)	14,800' Reel
5V0123121	12	12	RWP SMF	0.56 (14)	0.37 (9)	234 (348)	14,800' Reel
5V0183181	18	18	RWP SMF	0.61 (15)	0.37 (9)	285 (425)	14,800' Reel
5V0123251	25	12	RWP SMF	0.72 (18)	0.37 (9)	355 (528)	12,700' Reel
5V0243251	25	24	RWP SMF	0.72 (18)	0.37 (9)	355 (528)	12,700' Reel

Part numbers listed are RWP single mode optical fiber only. Other fiber types are available. See the "Optical Fiber Selection Chart" in the "Technical Info" section for detailed fiber type specifications.

Composite OSP Overjacket

Series 70 OJ

PRODUCT DESCRIPTION

Series 70 OJ Cables are designed for Outside Plant (OSP) broadband applications. These cables combine copper and optical fiber technologies into one composite cable and are suitable for voice, video and data communications. The copper cable offers the option of providing network power to eliminate the cost of local powering. The wide range of copper and fiber counts make this cable ideal for most projects.

The construction of this product combines an ANAW OSP copper cable and a Series 51 optical fiber cable. These independent cables are encased in an outer jacket with a rip cord included for ease of use.

APPLICATIONS

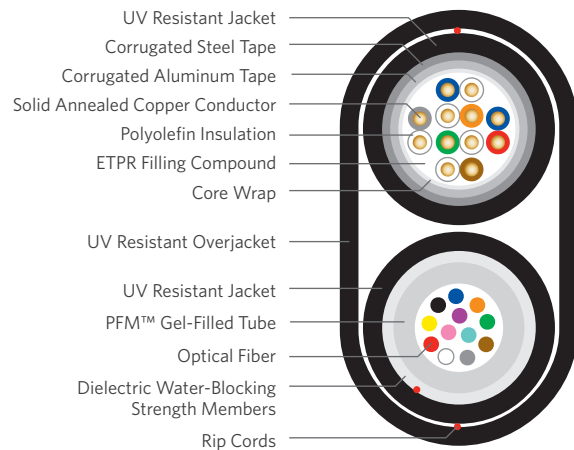
- Direct bury, conduit, lashed aerial

FEATURES

- Independent fiber and copper cables under one jacket
- Overjacket design
- Optical/Electrical Technology
- PFM™ gel

BENEFITS

- Reduces labor cost
- Easy separation to different locations
- Ideal for voice, video and data
- Non-sticky gel reduces installation time and labor cost



COMPOSITE SPECIFICATIONS

Single Jacket Design

Copper and fiber independent cables are encased in an overjacket with a rip cord included for ease of use

Standards Compliance

Copper and fiber cables meet applicable Telcordia Specifications (GR-421-Core, GR-20 Core)

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-20°C to +70°C

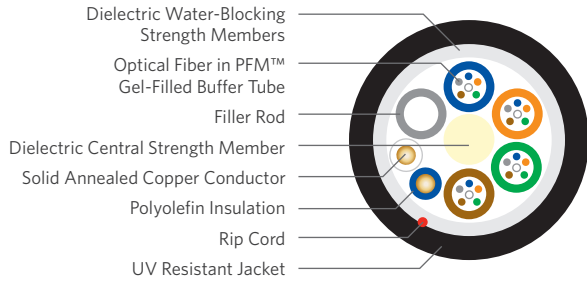
PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Copper Pair Count	Fiber Count	Fiber Type	Nominal Diameter		Approx. Weight lbs/kft (kg/km)	Package
				Copper Component in (mm)	Fiber Component in (mm)		
70-425-18	36	18	RWP SMF	0.76 (19)	0.37 (9)	443 (658)	11,100' Reel
70-425-36	36	36	RWP SMF	0.76 (19)	0.37 (9)	443 (658)	11,100' Reel
70-065-24	50	24	RWP SMF	0.88 (22)	0.37 (9)	546 (811)	8,900' Reel
70-065-48	50	48	RWP SMF	0.88 (22)	0.37 (9)	546 (811)	8,900' Reel
70-067-36	75	36	RWP SMF	1.00 (25)	0.37 (9)	724 (1,077)	6,000' Reel
70-067-72	75	72	RWP SMF	1.00 (25)	0.51 (13)	734 (1,092)	6,000' Reel
70-069-48	100	48	RWP SMF	1.15 (29)	0.37 (9)	895 (1,331)	6,000' Reel
70-069-72	100	72	RWP SMF	1.15 (29)	0.51 (13)	924 (1,374)	6,000' Reel
70-071-72	150	72	RWP SMF	1.34 (34)	0.51 (13)	1,260 (1,874)	3,000' Reel
70-071-96	150	96	RWP SMF	1.34 (34)	0.51 (13)	1,260 (1,874)	3,000' Reel
70-073-96	200	96	RWP SMF	1.50 (38)	0.51 (13)	1,615 (2,403)	2,500' Reel

Part numbers listed are RWP single mode optical fiber only. Other fiber types are available. See the "Optical Fiber Selection Chart" in the "Technical Info" section for detailed fiber type specifications.

Composite Round CF

Series L



PRODUCT DESCRIPTION

Series L Cables combine the attributes of optical fiber and copper technologies in a single cable. Designed for Outside Plant (OSP) applications, these cables improve network flexibility by addressing the need to transmit electrical power while providing virtually unlimited bandwidth to the subscriber. Labor savings are also realized making this product ideal for various projects.

FEATURES

- Fiber tubes and copper pairs in one jacket
- Wide range of copper and fiber counts
- Single mode, multimode and hybrid designs
- Copper twisted pairs
- Various cable designs
- PFM™ gel

BENEFITS

- Reduced material cost and significant installation savings
- Sizes available for large and small projects
- Multiple network applications
- Capable of voice transmission, cable location and site powering
- Multiple applications
- Non-sticky gel reduces installation time and labor cost

NOTE

- Special cable lengths are available upon request
- Please contact your Superior Essex sales professional with your application requirements

SPECIFICATIONS

Construction	Loose tube, single jacket
Standards Compliance	Copper and fiber cables meet applicable Telcordia and RDUP specifications RoHS-compliant

ELECTRICAL SPECIFICATIONS

Conductor Size AWG (mm)	Conductor DC Resistance @ 68°F		Resistance Unbalance Maximum Individual Pair %	Dielectric Strength DC Potential - Volts		Maximum Amperage/ Conductor
	Maximum Individual Ohms/mile (Ohms/km)			Minimum Conductor to Conductor	Maximum Voltage	
22 (0.64)	91.0 (56.6)		5.0	5,000	150 vDC	1.0 A

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Copper Pair Count	Fiber Count	Fiber Type	Optional Shield	Filling Compound	Length Marking	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Maximum Tensile Load	
									Install lbs (N)	Long Term lbs (N)
11024C02Q	1	24	RWP SMF	-	dry	feet	0.43 (10.85)	58 (86)	600 (2,700)	200 (890)
11024D01Q	2	24	RWP SMF	-	flood	meters	0.43 (10.85)	69 (103)	600 (2,700)	200 (890)
12024D01Q	6	24	RWP SMF	Single Armor	dry	feet	0.60 (16.05)	156 (232)	600 (2,700)	200 (890)
12024D02Q	2	24	RWP SMF	Single Armor	flood	meters	0.48 (12.20)	107 (160)	600 (2,700)	200 (890)

Part number listed are RWP single mode optical fiber only. Other fiber types are available. See the "Optical Fiber Selection Chart" in the "Technical Info" section for detailed fiber type specifications.