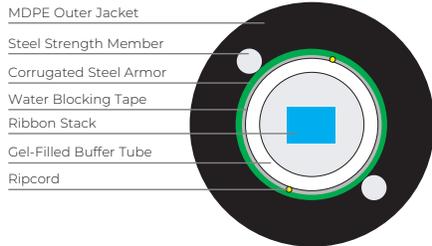
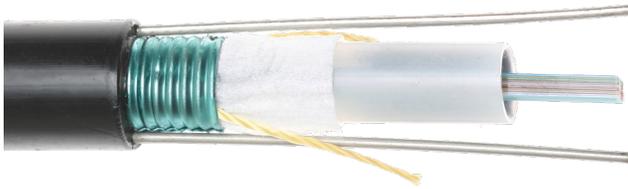


# FusionLink™ Armored

Ribbon Central Tube (Gel) Cable



## FEATURES AND BENEFITS

### Compact Design

- Efficient packaging of higher fiber counts
- Lightweight and easy to handle during installation

### Easily Removable Ribbon Matrix

- Allows for ease of stripping and fiber breakout
- Improves mid-span strippability

### Precision Ribbon Geometry

- Time and labor savings during fiber splicing

### Flexible Buffer Tube

- Superior kink resistance
- Increased flexibility
- Facilitates route management in closures

### Dry Water-Blocking Technology

- Permits rapid cable preparation and termination
- Water-blocking materials are easily removed

### ezPrep® Corrugated Steel Armor

- Provides additional mechanical protection
- Special coating reduces time and effort to remove jacket

### Performance

- Meets or exceeds the requirements of Telcordia GR-20 & ICEA 640 and is tested in accordance with relevant EIA/TIA-455 series FOTPs for fiber optic cables
- RDUP listed (tested in accordance with PE-90)

### Registered Supplier

- ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

## PERFORMANCE SPECIFICATIONS

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<b>Bend Radius</b>		
Dynamic	20 x Cable OD	
Static (Single Bend)	10 x Cable OD	
Static (Cable Coil)	15 x Cable OD	
<b>Tensile Rating</b>		
	<b>N</b>	<b>lbf</b>
Installation	2,700	600
Residual	800	180
<b>Crush Resistance</b>		
	<b>N/cm</b>	<b>lbf/in</b>
Short/ long Term	220/110	125/63
<b>Temperature Ratings</b>		
	<b>°C</b>	<b>°F</b>
Operation	-40 to +70	-40 to +158
Installation	-30 to +60	-22 to +140
Storage/Shipping	-40 to +75	-40 to +167



### Prysmian

4 Tessenere Drive, Highland Heights, KY 41076  
na.prysmian.com  
TLS-DS-A-202-0226

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Fiber Count Range	Recommended Fiber Count	Recommended Prysmian Part Number*	# of Ribbons	# of Fibers Per Ribbon	Buffer Tube Outside Diameter		Cable Outside Diameter		Approx. Cable Weight		Max. Reel Length	
					Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters
12-72	12	RCG1A1J-12-AA-012-BB	1-6	12	0.24	6.2	0.50	12.6	107	159	39,688	12,100
	24	RCG1A1J-12-AA-024-BB										
	36	RCG1A1J-12-AA-036-BB										
	48	RCG1A1J-12-AA-048-BB										
84-96	96	RCG1A1J-12-AA-096-BB	7-8	12	0.33	8.4	0.58	14.8	134	200	39,688	12,100
108-216	216	RCG1A1J-12-AA-216-BB	9-18	12	0.43	11.0	0.69	17.4	176	263	33,226	10,130
240-432**	432	RCG1A1J-24-AA-432-BB	10-18	24	0.56	14.3	0.86	21.8	308	459	17,864	5,445
456-576**	576	RCG1A1J-24-AA-576-BB	19-24	24	0.61	15.4	0.90	22.9	331	492	17,864	5,445
612-864**	864	RCG1A1J-36-AA-864-E1	17-24	36	0.70	17.9	1.04	26.3	400	595	10,719	3,267

\* Where AA equals glass type and BB equals attenuation

\*\* Note: This design uses 24 fiber ribbons for counts of 240 to 576 and 36 fiber ribbons for 612 to 864 fibers. Please refer to ribbon in loose tube designs for higher fiber counts using 12 fiber ribbons. If on reel attuation testing is required for the 612-864 fiber designs, a reel with 60" drum must be specified on the order.

## Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance.

The appropriate part number can be configured using the process described below

**Example:** 96 count armored FusionLink™ cable with G.652.D LWP single-mode fiber and 0.40/0.40/0.30 attenuation. (printed in feet)



PART NUMBER CONSTRUCTION	
<b>1</b> LENGTH MARKINGS	F = Feet or M = Meters
<b>2</b> PRODUCT FAMILY	RCG = FusionLink Armored
<b>3</b> CONSTRUCTION	1A1J = Single Armor, Single Jacket
<b>4</b> FIBER GROUPING	12 = 12f per ribbon 24 = 24f per ribbon 36 = 36f per ribbon

Note: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help.

Other cable constructions and fiber performance grades available on request.

FIBER INFORMATION	
<b>5</b> FIBER TYPE	<b>SINGLE-MODE</b>
	HB = Single-Mode (ITU G.652 C & D) Low Water Peak
	ES = Enhanced Single-Mode (ITU G.652 C & D)
	B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)
	BB = BendBright™ Single-Mode (ITU G.657.A1 & G.652.D)
	BU = Bend-Insensitive Single-Mode (ITU G.657.A1+ & G.652.D)
	DB = BendBright A1+ Single-Mode (ITU G.657.A1+ & G.652.D)
	B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & G.652.D)
	BX = BendBrightXS™ Single-Mode (ITU G.657.A2 & .B2 & G.652.D)
<b>6</b> FIBER COUNT	12 to 864 fibers
<b>7</b> FIBER GRADE	<b>SINGLE-MODE</b>
	Attenuation (dB/km)      Wavelength (nm)
	E1 = 0.40/0.40/0.30      1310/1383/1550
	E3 = 0.35/0.35/0.25      1310/1383/1550



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