



## 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



## 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

### All-Dielectric Strength Elements

- Jacket can be removed from the end in a single step
- Mid-span access is safer and easier

## 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

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	RCG1JKT-12-AA-012-BB	1-6	12	0.24	6.2	0.51	12.9	87	130	38,773	11,821
	24	RCG1JKT-12-AA-024-BB										
	36	RCG1JKT-12-AA-036-BB										
	48	RCG1JKT-12-AA-048-BB										
	72	RCG1JKT-12-AA-072-BB										
84-96	96	RCG1JKT-12-AA-096-BB	7-8	12	0.33	8.4	0.59	15.1	116	173	34,342	10,470
108-144	144	RCG1JKT-12-AA-144-BB	9-12	12	0.39	9.9	0.65	16.6	139	207	30,051	9,162
156-216	216	RCG1JKT-12-AA-216-BB	13-18	12	0.43	11.0	0.70	17.7	166	247	30,051	9,162
240-432**	432	RCG1JKT-24-AA-432-BB	10-18	24	0.56	14.3	0.83	21.0	249	370	17,864	5,445
456-576**	576	RCG1JKT-24-AA-576-BB	19-24	24	0.61	15.4	0.79	20.0	251	374	17,864	5,445
612-864**	864	RCG1JKT-36-AA-864-E1	17-24	36	0.70	17.9	0.89	22.7	285	424	10,718	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 FusionLink™ cable with G.652.D LWP single-mode fiber and 0.40/0.40/0.30 attenuation. (printed in feet)

<b>1</b> LENGTH MARKINGS	<b>2</b> PRODUCT FAMILY	<b>3</b> CONSTRUCTION	<b>4</b> FIBER GROUPING	<b>5</b> FIBER TYPE	<b>6</b> FIBER COUNT	<b>7</b> FIBER GRADE
F	RCG	1JKT	12	HB	096	E1

PART NUMBER CONSTRUCTION	
<b>1</b> LENGTH MARKINGS	F = Feet or M = Meters
<b>2</b> PRODUCT FAMILY	RCG = FusionLink RICT
<b>3</b> CONSTRUCTION	1JKT = 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) CE = Single-Mode Corning™ SMF28e+ 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) CU = Corning™ SMF-28 Ultra 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