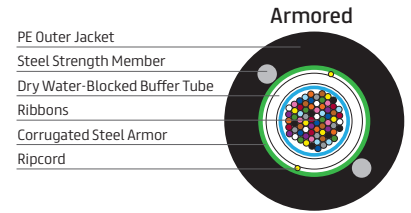
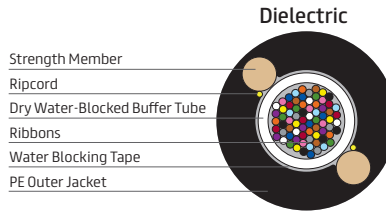
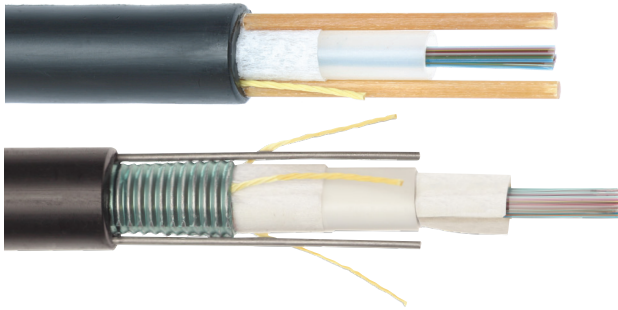


# 96 to 432f FusionLink™ with FlexRibbon® Technology

Ribbon Central Tube (Dry) Cable

# Prysmian



## OVERVIEW

FusionLink™ with FlexRibbon® Technology provides an ultra-compact outside plant cable design that contains 96 to 432 bend insensitive fibers. By using FlexRibbon® technology, ribbons are rolled up and packed together in small diameter sub unit. While FlexRibbon® provides high packing density, these 250 μm fiber ribbons still provide the advantages of mass fusion splicing.

## FEATURES AND BENEFITS

### Ultra Compact Design

- FlexRibbons® are rolled up into a compact central tube
- Significantly smaller diameter and lighter weight cables allow for easier installation and the use of smaller ducts

### FlexRibbon® Technology

- Extremely flexible ribbons can be rolled up for high packing densities or laid flat for ribbon splicing
- 12 fiber ribbons are compatible with mass fusion heat strippers, cleavers, and splice machines
- Uses standard 250 μm coated bend-insensitive fiber (ITU G657.A1 or A2)

**Note:** These cable designs require coupling coils at the splice points in aerial applications to prevent fiber retraction in closures.

## Performance

- Uses full dry water blocking technology in the tubes and cable core for easy closure preparation and termination
- Tested in accordance with GR20 and ICEA 640 and with relevant EIA/ TIA-455 series FOTPs for fiber optic cables

## Registered Supplier

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

PERFORMANCE SPECIFICATIONS							
Minimum Bend Diameter		96-144f		216-288f		312-432f	
		Dielectric	Armored	Dielectric	Armored	Dielectric	Armored
Installation	Wheel/Capstan	20 in (51 cm)	20 in (50 cm)	24 in (61 cm)	26 in (66 cm)	30 in (75 cm)	31 in (79 cm)
	Slack/Bend	11 in (27 cm)	10 in (26 cm)	12 in (31 cm)	13 in (34 cm)	15 in (38 cm)	16 in (40cm)
Long Term	Coil	16 in (39 cm)	15 in (39 cm)	19 in (48 cm)	20 in (50 cm)	23 in (58 cm)	24 in (61 cm)
	<b>Bend Radius</b>						
Dynamic		20 x Cable OD					
Static		10 x Cable OD					
<b>Tensile Rating</b>		<b>N</b>				<b>lbf</b>	
Installation		2700				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		-30 to +70				-22 to +158	
Installation		-30 to +60				-22 to +140	
Storage/Shipping		-40 to +70				-40 to +158	

Fiber Count Range	Recommended Fiber Count	Recommended Prysmian Part Number*	# of Ribbons	Buffer Tube Diameter		Cable Outside Diameter		Approx. Cable Weight		Duct Size / % Fill	Max. Reel Length	
				Inches	mm	Inches	mm	lb/kft	kg/km		feet	meters
<b>Dielectric</b>												
96 – 144	96	RCF1JKT-12-AA-096-BB	8 – 12	0.24	6.2	0.50	12.7	82	122	1 in / 50%	40,354	12,300
	144	RCF1JKT-12-AA-144-BB										
216 – 288	288	RCF1JKT-12-AA-288-BB	24	0.35	8.8	0.60	15.3	114	189	1 in / 60%	40,354	12,300
312 – 432	432	RCF1JKT-12-AA-432-BB	26 – 36	0.48	12.3	0.74	18.8	149	222	1 in / 74%	27,818	8,479
<b>Armored</b>												
96 – 144	96	RCF1A1J-12-AA-96-BB	8 – 12	0.24	6.2	0.50	12.6	106	158	1 in / 50%	40,354	12,300
	144	RCF1A1J-12-AA-144-BB										
216 – 288	288	RCF1A1J-12-AA-288-BB	24	0.35	8.8	0.64	16.3	167	248	1 in / 64%	40,354	12,300
312 – 432	432	RCF1A1J-12-AA-432-BB	26 – 36	0.48	12.3	0.78	19.8	205	305	1 in / 78%	24,868	7,580

\* Where AA equals glass type and BB equals attenuation

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A Brand of Prysmian Group

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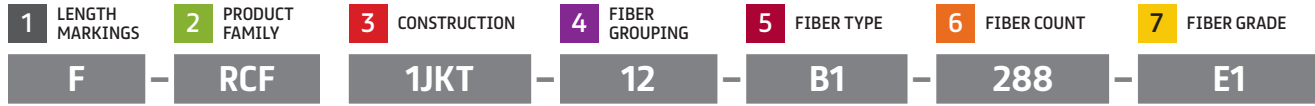
4 Tessenner Drive, Highland Heights, KY 41076  
+1-859-572-8000 / na.prysmiangroup.com  
TLS-DS-A-301-1121

RIBBON COLOR CODE					
Ribbon #	Marking	Ribbon #	Marking	Ribbon #	Marking
1		13	■ ■ ■	25	■ ■ ■ ■ ■
2		14	■ ■ ■	26	■ ■ ■ ■ ■
3		15	■ ■ ■ ■	27	■ ■ ■ ■ ■
4		16	■ ■ ■ ■	28	■ ■ ■ ■ ■
5	■	17	■ ■ ■ ■	29	■ ■ ■ ■ ■
6	■	18	■ ■ ■ ■	30	■ ■ ■ ■ ■ ■
7	■	19	■ ■ ■ ■	31	■ ■ ■ ■ ■ ■
8	■	20	■ ■ ■ ■ ■	32	■ ■ ■ ■ ■ ■
9	■	21	■ ■ ■ ■ ■	33	■ ■ ■ ■ ■ ■
10	■ ■	22	■ ■ ■ ■ ■	34	■ ■ ■ ■ ■ ■
11	■ ■	23	■ ■ ■ ■ ■	35	■ ■ ■ ■ ■ ■ ■
12	■ ■	24	■ ■ ■ ■ ■	36	■ ■ ■ ■ ■ ■ ■

## 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:** 288 count all-dielectric FusionLink with FlexRibbon Technology with G657.A1 bend insensitive fiber and 0.40/0.40/0.30 dB/km attenuation (printed in feet)



PART NUMBER CONSTRUCTION	
<b>1</b>	<b>LENGTH MARKINGS</b> F = Feet or M = Meters
<b>2</b>	<b>PRODUCT FAMILY</b> RCF = FusionLink with FlexRibbon Technology
<b>3</b>	<b>CONSTRUCTION</b> 1JKT = Single Jacket 1A1J = Single Armor Single Jacket
<b>4</b>	<b>FIBER GROUPING</b> 12 = 12f 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>	<b>FIBER TYPE</b>	
<b>SINGLE-MODE</b>		
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)		
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & G.652.D)		
<b>6</b>	<b>FIBER COUNT</b>	
96 to 432 fibers		
<b>7</b>	<b>FIBER GRADE</b>	
<b>SINGLE-MODE</b>		
<b>Attenuation (dB/km)</b>	<b>Wavelength (nm)</b>	<b>Fiber Type</b>
E1 = 0.40/0.40/0.30	1310/1383/1550	B1 or B2