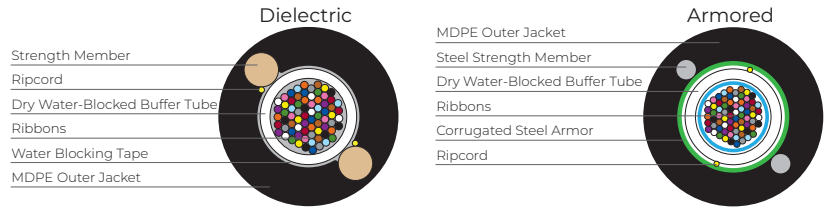
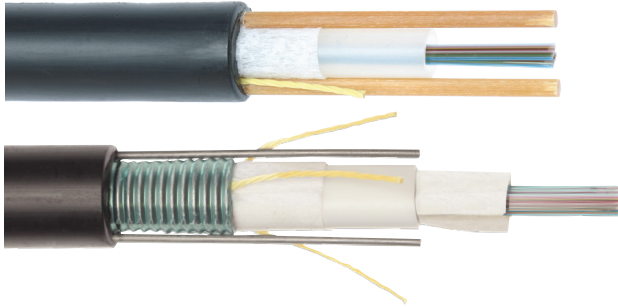


# 48 to 432f FusionLink™ with FlexRibbon® Technology

Ribbon Central Tube (Dry) Cable



## OVERVIEW

FusionLink™ with FlexRibbon® Technology provides an ultra-compact outside plant cable design that contains 48 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 250µm 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 250µm 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.

Vibratory Plowing is not recommended for these designs.

## 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
- RDUP listed (tested in accordance with PE-90)

## Registered Supplier

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

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## PERFORMANCE SPECIFICATIONS

Minimum Bend Diameter		48-144f		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 (40 cm)
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/ft	kg/km		feet	meters
48 – 144	48	RCF1JKT-12-AA-048-BB	4 – 12	0.24	6.2	0.50	12.7	82	122	1 in / 50%	40,354	12,300
	96	RCF1JKT-12-AA-096-BB										
	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>												
48 – 144	48	RCF1AJ-12-AA-048-BB	4 – 12	0.24	6.2	0.50	12.6	106	158	1 in / 50%	40,354	12,300
	96	RCF1AJ-12-AA-96-BB										
	144	RCF1AJ-12-AA-144-BB										
216 – 288	288	RCF1AJ-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	RCF1AJ-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



## Prysmian

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TLS-DS-A-301-0525

# 48 to 432f FusionLink™ with FlexRibbon® Technology

Ribbon Central Tube (Dry) Cable



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 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)

1	LENGTH MARKINGS	2	PRODUCT FAMILY	3	CONSTRUCTION	4	FIBER GROUPING	5	FIBER TYPE	6	FIBER COUNT	7	FIBER GRADE
	F		RCF		1JKT		12		B1		288		E1

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



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