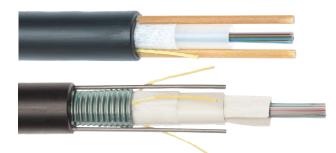
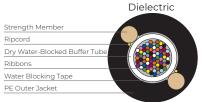
## 48 to 432f FusionLink™ with FlexRibbon<sup>®</sup> Technology

### 🖸 prysmian

Ribbon Central Tube (Dry) Cable





PE Outer Jacket Steel Strength Member Dry Water-Blocked Buffer Tube Ribbons Corrugated Steel Armor Ripcord

#### OVERVIEW

FusionLink<sup>™</sup> with FlexRibbon® Technology provides an ultracompact 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<sup>®</sup> 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.

#### 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		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)	
<b>.</b>	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)	
Bend Radius								
Dynamic	20 x Cable OD							
Static		10 x Cable OD						
Tensile Rating			Ν		lbf			
Installation			2700		600			
Residual			800		180			
Crush Resistance			N/cm		lbf/in			
Short/ Long Term			220/110		125/63			
Temperature Ratings			°C		°F			
Operation			-30 to +70		-22 to +158			
Installation			-30 to +60		-22 to +140			
Storage/Shipping			-40 to +70		-40 to +158			

Fiber	Recommended Fiber	Recommended Prysmian	# of	Buffer Tube Diameter		Cable Outside Diameter		Approx. Cable Weight			Max. Reel Length	
Count Range	Count	Part Number*	Ribbons	Inches	mm	Inches	mm	lb/kft	kg/km	Duct Size / % Fill	feet	meters
Dielectric												
	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
48 - 144	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
Armored												
	48	RCF1A1J-12-AA-048-BB	4 - 12		0.24 6.2	0.50	12.6	106	158	1 in / 50%	40,354	12,300
48 - 144	96	RCF1A1J-12-AA-96-BB		0.24								
	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



#### Prysmian

4 Tesseneer Drive, Highland Heights, KY 41076 na.prysmian.com TLS-DS-A-301-0424

# 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 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



PART NUMBER CONSTRUCTION	FIBER INFORMATION				
1 LENGTH MARKINGS	5 FIBER TYPE				
F = Feet or M = Meters	SINGLE-MODE				
2 PRODUCT FAMILY	B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)				
RCF = FusionLink with FlexRibbon Technology	B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & G.652.D)				
3 CONSTRUCTION	6 FIBER COUNT				
IJKT = Single Jacket	48 to 432 fibers				
1A1J = Single Armor Single Jacket	7 FIBER GRADE				
4 FIBER GROUPING	SINGLE-MODE Attenuation (dB/km) Wavelength (nm) Fiber Type				
12 = 12f per ribbon	E1 = 0.40/0.40/0.30 1310/1383/1550 B1 or B2				

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.



#### **Prysmian** 4 Tesseneer Drive, Highland Heights, KY 41076 na.prysmian.com TLS-DS-A-301-0424