

FusionLink™ with 200µm FlexRibbon® Technology

Ribbon Central Tube (Dry) Cable

288-432 Fiber Designs



OVERVIEW

FusionLink™ with FlexRibbon® Technology provides an ultra-compact outside plant cable design that contains 288-432 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 200 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 200 µm coated bend-insensitive fiber (ITU G657.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

Available Uncoupled or Coupled Designs

- These designs couple the ribbons with the cable which eliminates the need for splice point coupling coils in aerial applications

Registered Supplier

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

PERFORMANCE SPECIFICATIONS

		288f	432f
Minimum Bend Diameter		Dielectric	Dielectric
Installation	Wheel/Capstan	24 in (61 cm)	27 in (68 cm)
Long Term	Slack/Bend	12 in (31 cm)	14 in (34 cm)
	Coil	19 in (48 cm)	21 in (53 cm)
Bend Radius			
Dynamic		20 x Cable OD	
Static (Single Bend)		10 x Cable OD	
Static (Coil)		15 x Cable OD	
Tensile Rating		N	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

Note: Any cable coiling should be done without induced twisting of the cable.

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
288f	288	RCF1JKT-12-AA-288-BB	24	0.35	8.8	0.60	15.3	111	165	1 in / 60%	40,354	12,300
432f	432	RCF1JKT-12-AA-432-BB	36	0.42	10.6	0.67	17.1	132	196	1 in / 67%	40,354	12,300

* Where AA equals glass type and BB equals attenuation



Prysmian

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RIBBON COLOR CODE			
Ribbon #	Marking	Ribbon #	Marking
1		13	■ ■ ■
2		14	■ ■ ■
3		15	■ ■ ■
4		16	■ ■ ■
5	■	17	■ ■ ■
6	■	18	■ ■ ■
7	■	19	■ ■ ■
8	■	20	■ ■ ■ ■
9	■	21	■ ■ ■ ■
10	■ ■	22	■ ■ ■ ■
11	■ ■	23	■ ■ ■ ■
12	■ ■	24	■ ■ ■ ■

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.A2 bend insensitive fiber (printed in feet)

1	LENGTH MARKINGS	2	PRODUCT FAMILY	3	CONSTRUCTION	4	FIBER GROUPING	5	FIBER TYPE	6	FIBER COUNT
	F		RCF		1JKT		12		22		288

PART NUMBER CONSTRUCTION				FIBER INFORMATION			
1	LENGTH MARKINGS			4	FIBER GROUPING		
	F = Feet, M = Meters, B = BABA Compliant in Feet or C = Custom Print				12 = 12f per ribbon		
2	PRODUCT FAMILY			5	FIBER TYPE		
	RCF = FusionLink with FlexRibbon Technology				SINGLE-MODE		
					22 = Bend-Insensitive Single-Mode (ITU G.657.A2 & G.652.D)		
3	CONSTRUCTION			6	FIBER COUNT		
	1JKT = Single Jacket				288-432 fibers		

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.

