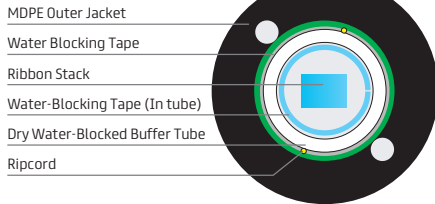
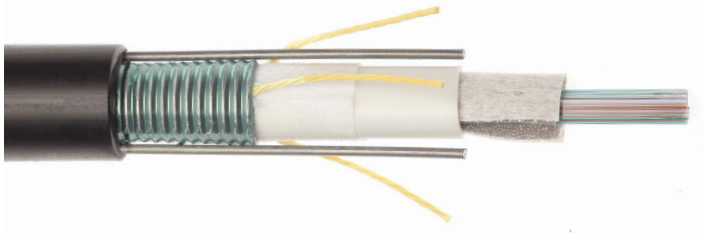


# Dry FusionLink™ Armored

Ribbon Central Tube (Dry) Cable

# Prysmian



## 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 Tubet

- Superior kink resistance
- Increased flexibility
- Facilitates route management in closures

### Dry Water-Blocking Technology

- Buffer tube and core are completely dry – no gel
- Permits rapid cable preparation and termination
- Water-blocking materials are easily removed

### ezPrep® Corrugated Steel Armor

- Provides additional mechanical protection
- Special coating reduces time and effort to remove jacket

### Available Uncoupled or Coupled Designs

- Coupled design (RCD product) couples the ribbon stack with the cable which eliminates the need for splice point coupling coils in aerial application
- Un-coupled design (RCU product) requires the use of coupling coils at the splice points in aerial applications to prevent fiber retraction in closures

## 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
- Tested in accordance with relevant EIA/TIA-455 series FOTPs for fiber optic cables
- Complies with RUS PE-90

## Registered Supplier

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



## PERFORMANCE SPECIFICATIONS

PERFORMANCE SPECIFICATIONS		
<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

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## Prysmian Group

4 Tesseneer Drive, Highland Heights, KY 41076  
 +1-859-572-8000 / na.prysmiangroup.com  
 TLS-DS-A-204-0621

# Dry FusionLink™ Armored

## Ribbon Central Tube (Dry) Cable

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Fiber Count Range	Recommended Fiber Count	Recommended Prysmian** Part Number	Fibers / Ribbon	Number of Ribbons	Aerial Coupling Coils Required	Buffer Tube OD		Cable OD		Approx. Cable Weight		Max. Reel Length	
						Inches	mm	Inches	mm	lb/kft	kg/km	feet	meters

### RCU1A1J

12-48	12	RCU1A1J-12-AA-012-BB	12	1-4	Yes	0.24	6.2	0.50	12.5	102	152	36,693	11,187
	24	RCU1A1J-12-AA-024-BB											
	48	RCU1A1J-12-AA-048-BB											
456-576*	576	RCU1A1J-24-AA-576-BB	24	24	Yes	0.78	19.8	1.09	27.8	358	533	16,275	4,960

### RCD1A1J

60-72	72	RCD1A1J-12-AA-072-BB	12	5-6	No	0.35	8.8	0.64	16.3	151	224	36,693	11,187
84-96	96	RCD1A1J-12-AA-096-BB	12	7-8	No	0.37	9.5	0.67	17.0	157	233	33,111	10,095
108-144	144	RCD1A1J-12-AA-144-BB	12	9-12	No	0.42	10.6	0.71	18.1	173	258	29,126	8,880
156-216	216	RCD1A1J-12-AA-216-BB	12	13-18	No	0.48	12.3	0.78	19.8	192	285	24,862	7,580
240-288*	288	RCD1A1J-24-AA-288-BB	24	10-12	No	0.56	14.3	0.84	21.4	245	364	17,864	5,445
312-432*	432	RCD1A1J-24-AA-432-BB	24	13-18	No	0.61	15.4	0.90	22.5	262	391	17,864	5,445
612-864*	864	RCD1A1J-36-AA-864-E1	36	17-24	No	0.78	19.8	1.09	27.8	358	533	10,718	3,267

\* **Note:** This design uses 24 fiber ribbons for counts of 240 to 576 fibers 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 testing is required for the 612-864 fiber designs, a reel with 60" drum must be specified on the order.

\*\*Where AA equals glass type and BB equals attenuation code

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## 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

### 1. RCD Coupled Design Example (for 60 to 432, 612 to 864):

**Example:** 96 count Dry FusionLink™ Armored with G.652.D LWP single-mode fiber and 0.40/0.40/0.30 attenuation **with** coupling (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	RCD	1A1J	12	HB	096	E1

### 2. RCU Uncoupled Design Example (for 12 to 48, 576):

**Example:** 48 count Dry FusionLink™ Armored with G.652.D LWP single-mode fiber and 0.40/0.40/0.30 attenuation without coupling (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	RCU	1A1J	12	HB	048	E1

PART NUMBER CONSTRUCTION	
<b>1</b>	<b>LENGTH MARKINGS</b>
F = Feet or M = Meters	
<b>2</b>	<b>PRODUCT FAMILY</b>
RCD = Dry FusionLink™ Coupled Design (60 to 432, 612 to 864)	
RCU = Dry FusionLink™ Uncoupled Design (12 to 48, 576): aerial coupling coils required	
<b>3</b>	<b>CONSTRUCTION</b>
1A1J = Single Armor, Single Jacket	
<b>4</b>	<b>FIBER GROUPING</b>
12 = 12f per tube	
24 = 24f Ribbons	
36 = 36f Ribbons	

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>	
HB = Single-Mode (ITU G.652 C & D) Low Water Peak	
ES = Enhanced Single-Mode (ITU G.652 C & D)	
CE = Corning™ SMF28e+ Single-Mode	
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>	<b>FIBER COUNT</b>
12 to 864 fibers	
<b>7</b>	<b>FIBER GRADE</b>
<b>SINGLE-MODE</b>	
<b>Attenuation (dB/km)</b>	<b>Wavelength (nm)</b>
E1 = 0.40/0.40/0.30	1310/1383/1550
* E3 = 0.35/0.35/0.25	1310/1383/1550

\* 612 to 864 fibers limited to E1 attenuation code