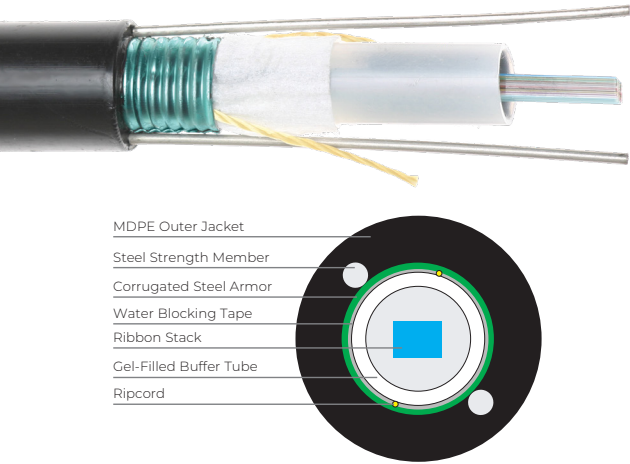


# FusionLink™ Armored

Ribbon Central Tube (Gel) Cable



## 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 Tube

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

### Dry Water-Blocking Technology

- 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

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

### Registered Supplier

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

## 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   |



# FusionLink™ Armored

Ribbon Central Tube (Gel) Cable



| Fiber Count Range | Recommended Fiber Count | Recommended Prysmian Part Number* | # of Ribbons | # of Fibers Per Ribbon | Buffer Tube Outside Diameter |      | Cable Outside Diameter |      | Approx. Cable Weight |       | Max. Reel Length |        |
|-------------------|-------------------------|-----------------------------------|--------------|------------------------|------------------------------|------|------------------------|------|----------------------|-------|------------------|--------|
|                   |                         |                                   |              |                        | Inches                       | mm   | Inches                 | mm   | lb/kft               | kg/km | feet             | meters |
| 12-72             | 12                      | RCG1A1J-12-AA-012-BB              | 1-6          | 12                     | 0.24                         | 6.2  | 0.50                   | 12.6 | 107                  | 159   | 39,688           | 12,100 |
|                   | 24                      | RCG1A1J-12-AA-024-BB              |              |                        |                              |      |                        |      |                      |       |                  |        |
|                   | 36                      | RCG1A1J-12-AA-036-BB              |              |                        |                              |      |                        |      |                      |       |                  |        |
|                   | 48                      | RCG1A1J-12-AA-048-BB              |              |                        |                              |      |                        |      |                      |       |                  |        |
|                   | 72                      | RCG1A1J-12-AA-072-BB              |              |                        |                              |      |                        |      |                      |       |                  |        |
| 84-96             | 96                      | RCG1A1J-12-AA-096-BB              | 7-8          | 12                     | 0.33                         | 8.4  | 0.58                   | 14.8 | 134                  | 200   | 39,688           | 12,100 |
| 108-216           | 216                     | RCG1A1J-12-AA-216-BB              | 9-18         | 12                     | 0.43                         | 11.0 | 0.69                   | 17.4 | 176                  | 263   | 33,226           | 10,130 |
| 240-432**         | 432                     | RCG1A1J-24-AA-432-BB              | 10-18        | 24                     | 0.56                         | 14.3 | 0.86                   | 21.8 | 308                  | 459   | 17,864           | 5,445  |
| 456-576**         | 576                     | RCG1A1J-24-AA-576-BB              | 19-24        | 24                     | 0.61                         | 15.4 | 0.90                   | 22.9 | 331                  | 492   | 17,864           | 5,445  |
| 612-864**         | 864                     | RCG1A1J-36-AA-864-E1              | 17-24        | 36                     | 0.70                         | 17.9 | 1.04                   | 26.3 | 400                  | 595   | 10,719           | 3,267  |

\* Where AA equals glass type and BB equals attenuation

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

## 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:** 96 count armored FusionLink™ cable with G.652.D LWP single-mode fiber and 0.40/0.40/0.30 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                 | RCG              | 1A1J           | 12               | B1           | 096           | E1            |

### PART NUMBER CONSTRUCTION

#### 1 LENGTH MARKINGS

F = Feet or M = Meters

#### 2 PRODUCT FAMILY

RCG = FusionLink Armored

#### 3 CONSTRUCTION

1A1J = Single Armor, Single Jacket

#### 4 FIBER GROUPING

12 = 12f per ribbon

24 = 24f per ribbon

36 = 36f 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)

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)

B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & G.652.D)

BX = BendBrightXS™ Single-Mode (ITU G.657.A2 & .B2 & G.652.D)

#### 6 FIBER COUNT

12 to 864 fibers

#### 7 FIBER GRADE

##### SINGLE-MODE

Attenuation (dB/km)

Wavelength (nm)

E1 = 0.40/0.40/0.30

1310/1383/1550

E3 = 0.35/0.35/0.25

1310/1383/1550

