



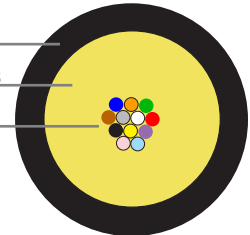
## ezDISTRIBUTION™ | Indoor-Outdoor Tight Buffered Riser and Plenum Rated Cables



Flame Retardant Jacket

Water Blocking Strength Members

Optical Fibers



*This versatile indoor-outdoor flame-rated cable design combines standards compliant performance with the direct connectorization simplicity afforded by tight buffered fibers. These cables provide an effective solution for interbuilding and building transition applications utilizing field installable connectors.*

### Overview

Prysmian's ezDISTRIBUTION cable family packages up to 144 color-coded 900  $\mu$ m tight buffered fibers into a single flame retardant cable. This cable design is available in both riser rated and plenum rated versions for deployment in any inside plant fire-code application. The UV-resistant outer jacket, coupled with dry waterblocking technology, address environmental concerns for outdoor use. The tight buffered distribution cable supports standard installation practices and may be easily terminated using established field connectorization methods.

### Product Snapshot

|                            |                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>        | Versatile indoor-outdoor tight buffered cable for use with field installable connectors.                                               |
| <b>Constructions</b>       | Single-Unit ( $\leq 24f$ ); Subunits ( $\geq 18f$ ); interlock armor optional                                                          |
| <b>Flame Ratings</b>       | Riser (OFNR / OFCR / FT4); Plenum (OFNP / OFCP / FT6)                                                                                  |
| <b>Fiber Count</b>         | 2 to 144 fibers (riser) / 2 to 96 (plenum)                                                                                             |
| <b>Fiber Types</b>         | Single-mode (ESMF, bend-insensitive) multimode (62.5/125-OM1, 50/125- OM2+, OM3 & OM4)                                                 |
| <b>Standards</b>           | TIA/EIA-568, ANSI/ICEA S-83-596, ANSI/ICEA S-104-696, UL-1666, NFPA 262, CSA 22.2 Telcordia GR-409, Telcordia GR-20, CE RoHS Compliant |
| <b>Registered Supplier</b> | ISO 9001, ISO 14001, TL 9000, and OHSAS 18001                                                                                          |

### Feature and Benefits

- 900  $\mu$ m tight buffered fibers designed to support rapid field termination
- Industry standard color coding for quick, error-free fiber identification
- Single-Unit designs provide space savings and cost advantages
- Subunit construction improves organization and termination practices
- Available with bend-insensitive single-mode and multimode optical fibers
- Flexible, flame-retardant and UV-stable outer jacket
- Optional Interlock Armor provides robust protection and supports one-step installation
- Supports all high performance networks including OM4/10 Gigabit Ethernet systems



## ezDISTRIBUTION™ | Indoor-Outdoor Tight Buffered

Riser and Plenum Rated Cables

ezDISTRIBUTION | Indoor-Outdoor Riser | C1181 Series | OFNR/FT4

| Fiber Count | Fibers Per Subunit | Diameter inches (mm) | Cable Weight lb/kft (kg/km) | Bend Radius Load inches (cm) | Bend Radius No Load inches (cm) | Max Installation Load (Pull Strength) lbs (newtons) | Max Operation Load lbs (newtons) |
|-------------|--------------------|----------------------|-----------------------------|------------------------------|---------------------------------|-----------------------------------------------------|----------------------------------|
| 2           | single-unit        | 0.19 (4.8)           | 15 (22)                     | 3.8 (9.7)                    | 1.9 (4.9)                       | 100 (445)                                           | 30 (133)                         |
| 4           | single-unit        | 0.22 (5.6)           | 19 (28)                     | 4.4 (11.2)                   | 2.2 (5.6)                       | 100 (445)                                           | 30 (133)                         |
| 6           | single-unit        | 0.24 (6.0)           | 21 (31)                     | 4.8 (12.2)                   | 2.4 (6.1)                       | 100 (445)                                           | 30 (133)                         |
| 8           | single-unit        | 0.25 (6.2)           | 23 (34)                     | 5.0 (12.7)                   | 2.5 (6.4)                       | 100 (445)                                           | 30 (133)                         |
| 12          | single-unit        | 0.28 (7.0)           | 30 (45)                     | 5.6 (14.3)                   | 2.8 (7.2)                       | 150 (666)                                           | 45 (200)                         |
| 18          | single-unit        | 0.305 (7.7)          | 36 (53)                     | 6.1 (15.5)                   | 3.0 (7.6)                       | 300 (1335)                                          | 90 (400)                         |
| 24          | single-unit        | 0.32 (8.1)           | 43 (64)                     | 6.4 (16.3)                   | 3.2 (8.2)                       | 300 (1335)                                          | 90 (400)                         |
| 18          | 6                  | 0.53 (13.5)          | 103 (153)                   | 11.2 (28.5)                  | 5.6 (14.3)                      | 600 (2670)                                          | 180 (801)                        |
| 24          | 6                  | 0.53 (13.5)          | 103 (153)                   | 11.2 (28.5)                  | 5.6 (14.3)                      | 600 (2670)                                          | 180 (801)                        |
| 36          | 6                  | 0.66 (16.8)          | 160 (238)                   | 13.2 (33.6)                  | 6.6 (16.8)                      | 600 (2670)                                          | 180 (801)                        |
| 48          | 12                 | 0.66 (16.8)          | 140 (209)                   | 13.2 (33.6)                  | 6.6 (16.8)                      | 600 (2670)                                          | 180 (801)                        |
| 60          | 12                 | 0.74 (18.8)          | 171 (254)                   | 14.8 (37.6)                  | 7.4 (18.8)                      | 600 (2670)                                          | 180 (801)                        |
| 72          | 12                 | 0.80 (20.3)          | 208 (309)                   | 16.0 (40.7)                  | 8.0 (20.4)                      | 600 (2670)                                          | 180 (801)                        |
| 96          | 12                 | 0.95 (24.2)          | 296 (441)                   | 19.0 (48.3)                  | 9.5 (24.2)                      | 600 (2670)                                          | 180 (801)                        |
| 144         | 12                 | 1.02 (25.9)          | 347 (516)                   | 20.4 (51.9)                  | 10.2 (25.9)                     | 600 (2670)                                          | 180 (801)                        |

Note: Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommends storing I/O cables in appropriate temperature conditions  $\geq 24$  hours prior to placement.

### Temperature Range

Shipping and Storage: (Riser) -40° F to +176° F (-40° C to +80° C)  
(Plenum) -40° F to +176° F (-40° C to +80° C)

Installation: (Riser) +14° F to +140° F (-10° C to +60° C)  
(Plenum) +32° F to +140° F (0° C to +60° C)

Operation: (Riser) -40° F to +176° F (-40° C to +80° C)  
(Plenum) -40° F to +176° F (-40° C to +80° C)

## ezDISTRIBUTION™ | Indoor-Outdoor Tight Buffered

Riser and Plenum Rated Cables

### ezDISTRIBUTION | Indoor-Outdoor Plenum | C1182 Series | OFNP/FT6

| Fiber Count | Fibers Per Subunit | Diameter inches (mm) | Cable Weight lb/kft (kg/km) | Bend Radius Load inches (cm) | Bend Radius No Load inches (cm) | Max Installation Load (Pull Strength) lbs (newtons) | Max Operation Load lbs (newtons) |
|-------------|--------------------|----------------------|-----------------------------|------------------------------|---------------------------------|-----------------------------------------------------|----------------------------------|
| 2           | single-unit        | 0.18 (4.5)           | 9 (13)                      | 3.6 (9.2)                    | 1.8 (4.6)                       | 100 (445)                                           | 30 (133)                         |
| 4           | single-unit        | 0.18 (4.6)           | 14 (21)                     | 3.6 (9.2)                    | 1.8 (4.6)                       | 100 (445)                                           | 30 (133)                         |
| 6           | single-unit        | 0.20 (5.0)           | 15 (22)                     | 4.0 (10.2)                   | 2.0 (5.1)                       | 100 (445)                                           | 30 (133)                         |
| 8           | single-unit        | 0.20 (5.2)           | 18 (27)                     | 4.0 (10.2)                   | 2.0 (5.1)                       | 100 (445)                                           | 30 (133)                         |
| 12          | single-unit        | 0.24 (6.1)           | 22 (33)                     | 4.8 (12.2)                   | 2.4 (6.1)                       | 150 (666)                                           | 45 (199.8)                       |
| 18          | single-unit        | 0.26 (6.5)           | 32 (48)                     | 5.1 (13.0)                   | 2.6 (6.5)                       | 150 (666)                                           | 45 (199.8)                       |
| 24          | single-unit        | 0.30 (7.6)           | 42 (62)                     | 6.0 (15.3)                   | 3.0 (7.7)                       | 150 (666)                                           | 45 (199.8)                       |
| 18          | 6                  | 0.41 (10.4)          | 86 (128)                    | 8.2 (20.9)                   | 4.1 (10.5)                      | 400 (1800)                                          | 120 (540)                        |
| 24          | 6                  | 0.41 (10.4)          | 79 (117)                    | 8.2 (20.9)                   | 4.1 (10.5)                      | 400 (1800)                                          | 120 (540)                        |
| 36          | 6                  | 0.54 (13.9)          | 132 (196)                   | 10.8 (27.5)                  | 5.4 (13.8)                      | 400 (1800)                                          | 120 (540)                        |
| 48          | 12                 | 0.55 (13.9)          | 140 (209)                   | 11.0 (28.0)                  | 5.5 (14.0)                      | 400 (1800)                                          | 120 (540)                        |
| 60          | 12                 | 0.63 (16.0)          | 173 (257)                   | 12.6 (32.0)                  | 6.3 (16.0)                      | 400 (1800)                                          | 120 (540)                        |
| 72          | 12                 | 0.65 (16.6)          | 210 (312)                   | 13.0 (33.1)                  | 6.5 (16.6)                      | 600 (2670)                                          | 180 (801)                        |
| 96          | 12                 | 0.84 (21.3)          | 345 (514)                   | 16.8 (42.7)                  | 8.4 (21.4)                      | 600 (2670)                                          | 180 (801)                        |

Note: Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian Group recommends storing I/O cables in appropriate temperature conditions  $\geq 24$  hours prior to placement.

#### Temperature Range

|                       |                                                         |                                          |
|-----------------------|---------------------------------------------------------|------------------------------------------|
| Shipping and Storage: | (Riser) -40° F to +176° F<br>(Plenum) -40° F to +176° F | (-40° C to +80° C)<br>(-40° C to +80° C) |
| Installation:         | (Riser) +14° F to +140° F<br>(Plenum) +32° F to +140° F | (-10° C to +60° C)<br>(0° C to +60° C)   |
| Operation:            | (Riser) -40° F to +176° F<br>(Plenum) -40° F to +176° F | (-40° C to +80° C)<br>(-40° C to +80° C) |

## Ordering Guide

The Prysmian cable 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: ezDISTRIBUTION Tight Buffered | Indoor-Outdoor Riser (OFNR/FT4), 12 fiber subunits | 48 62.5/125 Multimode Fibers total (printed in feet)**

| 1 LENGTH MARKINGS | 2 PRODUCT FAMILY | 3 CONSTRUCTION | 4 FIBER GROUPING | 5 FIBER TYPE | 6 FIBER COUNT | 7 FIBER GRADE |
|-------------------|------------------|----------------|------------------|--------------|---------------|---------------|
| F                 | C1181            | BLANK          | 12               | GS           | 048           | M2            |

| PART NUMBER CONSTRUCTION |                                                                                                                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1 LENGTH MARKINGS</b> | F = Feet or M = Meters                                                                                                                                                                                                                                                                                                    |
| <b>2 PRODUCT FAMILY</b>  | <p>ezDISTRIBUTION INDOOR / OUTDOOR</p> <p><b>Riser-FT4</b><br/>C1181 = ezDISTRIBUTION Indoor/Outdoor Riser   Tight Buffer<br/>Flame Rating: OFNR/FT4   Fiber Count 2 to 144</p> <p><b>Plenum-FT6</b><br/>C1182 = ezDISTRIBUTION Indoor/Outdoor Plenum   Tight Buffer<br/>Flame Rating: OFNP/FT6   Fiber Count 2 to 96</p> |
| <b>3 CONSTRUCTION</b>    | <p>(blank) = none</p> <p>AJ = Aluminum Jacketed</p> <p>SJ = Steel Jacketed</p>                                                                                                                                                                                                                                            |
| <b>4 FIBER GROUPING</b>  | <p>00 = single-unit</p> <p>06 = 6f per subunit</p> <p>12 = 12f per subunit</p>                                                                                                                                                                                                                                            |

FIBER INFORMATION

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FIBER TYPE

SINGLE-MODE

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)

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

MULTIMODE

Wavelength (nm)

Bandwidth (MHz)

1 GbE Dist (m)

10 GbE Dist (m)

G6 = OM1 (62.5µm)

850/1300

200/500

300/550

33/\_\_\_

G5 = OM2+ BIF (50µm)

850/1300

700/500

800/550

150/\_\_\_

G3 = OM3 BIF (50µm)

850/1300

1500/500

1000/550

300/\_\_\_

G4 = OM4 BIF (50µm)

850/1300

3500/500

1100/550

550/\_\_\_

6

FIBER COUNT

002 to 144 fibers -Riser

002 to 096 fibers -Plenum

7

FIBER GRADE

SINGLE-MODE

Attenuation (dB/km)

Wavelength (nm)

Fiber Type

EB = 0.7/0.7/0.7

1310/1383/1550

Enhanced Single-Mode

EA = 0.5/0.5/0.5

1310/1383/1550

Bend-Insensitive Single-Mode

E7 = 0.4/0.4/0.3

1310/1383/1550

Bend-Insensitive Single-Mode

MULTIMODE

Attenuation (dB/km)

Wavelength (nm)

Fiber Type

M2 = 3.5/1.0

850/1300

OM1 (62.5µm)

M3 = 3.0/1.0

850/1300

OM2+, OM3, OM4 (50µm)

Other cable constructions and fiber performance grades available on request.