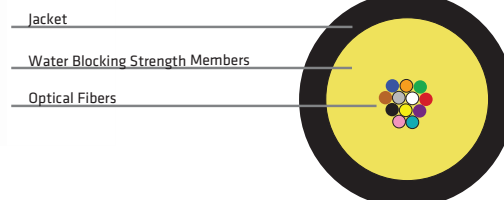


INDOOR/OUTDOOR

INDOOR/OUTDOOR
TIGHT BUFFER

ezDISTRIBUTION™ I/O Tight Buffered

Riser and plenum cables



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 μ 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 water blocking 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

| | |
|----------------------|---|
| Applications | Versatile indoor-outdoor tight buffered cable for use with field installable connectors. |
| Constructions | Single-Unit ($\leq 24f$); subunits ($\geq 18f$); interlock armor optional |
| Flame Ratings | Riser (OFNR / OFCR / FT4); Plenum (OFNP / OFCP / FT6) |
| Fiber Count | 2 to 144 fibers (Riser)/2 to 96 (Plenum) |
| Fiber Types | Single-mode (ESMF, bend-insensitive) multimode (62.5/125-OM1, 50/125- OM2+, OM3 & OM4) |
| Standards | 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, RoHS Compliant |

Feature and Benefits

- 900 μ 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

RoHS
COMPLIANT

Prysmian
Group

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website: na.prysmiangroup.com/telecom

ezDISTRIBUTION

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Riser and plenum cables

INDOOR/OUTDOOR
TIGHT BUFFER

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 | 0.31 (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 ≥ 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)

INDOOR/OUTDOOR

ezDISTRIBUTION™ I/O Tight Buffered

Riser and plenum 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 ≥ 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)

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 in the example.

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Riser and plenum cables

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Example: ezDISTRIBUTION tight buffered | i/O 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 | G6 | 048 | M2 |

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

FIBER INFORMATION

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FIBER TYPE

SINGLE-MODE

ES = Enhanced Single-Mode (ITU G.652 C & D)

BB = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)

BX = 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+ (50µm)

850/1300

700/500

800/550

150/___

G3 = OM3 (50µm)

850/1300

1500/500

1000/550

300/___

G4 = OM4 (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.