



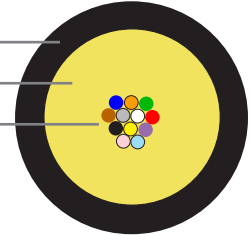
ezDISTRIBUTION™ | Indoor-Outdoor Tight Buffered Riser and Plenum Rated Cables



Flame Retardant Jacket

Water Blocking Strength

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 μm 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

Applications	Versatile Indoor-Outdoor Tight Buffered Cable for use with field installable connectors.
Constructions	Single-Unit (≤ 24f); Subunits (≥ 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

RoHS
Compliant

Feature and Benefits

- 900 μm 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 ≥ 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/ft (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 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	6S	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

5 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																									
<table border="1"> <thead> <tr> <th></th> <th>Wavelength (nm)</th> <th>Bandwidth (MHz)</th> <th>1 GbE Dist (m)</th> <th>10 GbE Dist (m)</th> </tr> </thead> <tbody> <tr> <td>G6 = OM1 (62.5µm)</td> <td>850/1300</td> <td>200/500</td> <td>300/550</td> <td>33/___</td> </tr> <tr> <td>G5 = OM2+ (50µm)</td> <td>850/1300</td> <td>700/500</td> <td>800/550</td> <td>150/___</td> </tr> <tr> <td>G3 = OM3 (50µm)</td> <td>850/1300</td> <td>1500/500</td> <td>1000/550</td> <td>300/___</td> </tr> <tr> <td>G4 = OM4 (50µm)</td> <td>850/1300</td> <td>3500/500</td> <td>1100/550</td> <td>550/___</td> </tr> </tbody> </table>		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/___
	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																									
<table border="1"> <thead> <tr> <th>Attenuation (dB/km)</th> <th>Wavelength (nm)</th> <th>Fiber Type</th> </tr> </thead> <tbody> <tr> <td>EB = 0.7/0.7/0.7</td> <td>1310/1383/1550</td> <td>Enhanced Single-Mode</td> </tr> <tr> <td>EA = 0.5/0.5/0.5</td> <td>1310/1383/1550</td> <td>Bend-Insensitive Single-Mode</td> </tr> <tr> <td>E7 = 0.4/0.4/0.3</td> <td>1310/1383/1550</td> <td>Bend-Insensitive Single-Mode</td> </tr> </tbody> </table>	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													
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																									
<table border="1"> <thead> <tr> <th></th> <th>Attenuation (dB/km)</th> <th>Wavelength (nm)</th> </tr> </thead> <tbody> <tr> <td>M2 = OM1 (62.5µm)</td> <td>3.5/1.0</td> <td>850/1300</td> </tr> <tr> <td>M3 = OM2+ (50µm)</td> <td>3.0/1.0</td> <td>850/1300</td> </tr> <tr> <td>M3 = OM3 (50µm)</td> <td>3.0/1.0</td> <td>850/1300</td> </tr> <tr> <td>M3 = OM4 (50µm)</td> <td>3.0/1.0</td> <td>850/1300</td> </tr> </tbody> </table>		Attenuation (dB/km)	Wavelength (nm)	M2 = OM1 (62.5µm)	3.5/1.0	850/1300	M3 = OM2+ (50µm)	3.0/1.0	850/1300	M3 = OM3 (50µm)	3.0/1.0	850/1300	M3 = OM4 (50µm)	3.0/1.0	850/1300										
	Attenuation (dB/km)	Wavelength (nm)																							
M2 = OM1 (62.5µm)	3.5/1.0	850/1300																							
M3 = OM2+ (50µm)	3.0/1.0	850/1300																							
M3 = OM3 (50µm)	3.0/1.0	850/1300																							
M3 = OM4 (50µm)	3.0/1.0	850/1300																							
Other cable constructions and fiber performance grades available on request.																									

© DRAKA & PRYSMIAN - Brands of The Prysmian Group. 2014 All Right Reserved. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed correct at the time of issue. Prysmian Group reserves the right to amend any specifications without notice. These specifications are not contractually valid unless specifically authorized by Prysmian Group. Issued July 2014.