



## ezINTERCONNECT™ MDU Drop

Riser and plenum rated cables



Ruggedized, bend-insensitive optical drop cable for a variety of MDU/MTU architectures, such as apartments, condominiums, high rise and business retail centers

### Overview

This Prysmian's ezINTERCONNECT MDU Cable family combines a 900µm tight buffered bend-insensitive fiber with robust, flame retardant cable constructions. Cable designs are available in both riser rated and plenum rated versions for deployment in any indoor application. A riser rated indoor-outdoor version incorporates water-blocking performance and a UV stabilized outer jacket.

### Product Snapshot

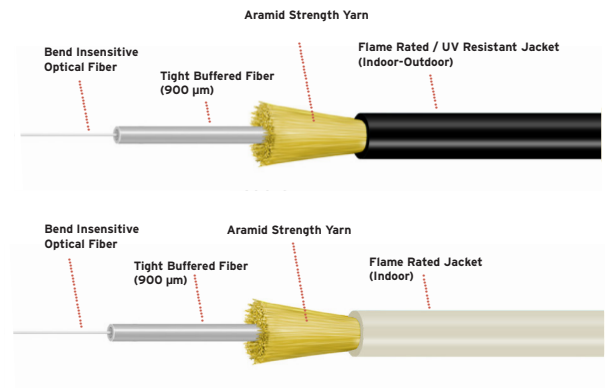
Applications	Establishes the service connection for optical telecommunications services to Multi-Dwelling Units (MDU) that typically requires routing in confined locations requiring multiple tight bends
Constructions	1 fiber (simplex) in standard (2.9mm OD) and heavy duty (4.8mm OD) Designs
Flame Rating	Riser (OFNR / FT4); Plenum (OFNP / FT6)
Fiber Count	1 Fiber
Fiber Types	Single-mode (bend-insensitive)
Jacket Color	Indoor (ivory, white, yellow) and indoor-outdoor (black)
Standards	ANSI/ICEA S-83-596, UL 1666, NFPA-262, CSA C22.2 No 230, Telcordia GR-409, RoHS Compliant



**Prysmian Group**

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### Features and Benefits

- 900µm tight buffered fibers designed to support rapid termination
- Available in standard (2.9mm) and ruggedized (4.8mm) designs
- Can be attached to structural elements with "off-the-shelf" cable staples
- Specifically designed to allow placement in tight 90 degree bends and small diameter slack loops
- Flexible, flame-retardant, and abrasion resistant outer jacket
- Neutral jacket colors aid in conforming to aesthetic demands
- Fully compatible with G.652.D single-mode fiber

### Temperature Range

Shipping and Storage:	(Riser)	-40° F to +158° F	(-40° C to +70° C)
	(Plenum)	-40° F to +158° F	(-40° C to +70° 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)	-4° F to +158° F	(-20° C to +70° C)
	(Plenum)	+32° F to +120° F	(0° C to +50° 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 below

**Example: ezINTERCONNECT tight buffered | indoor-outdoor riser | 4.8mm MDU drop cable | 1 bend-Insensitive single-mode fiber (printed in feet)**

<b>1</b> LENGTH MARKINGS	<b>2</b> PRODUCT FAMILY	<b>3</b> CONSTRUCTION	<b>4</b> FIBER GROUPING	<b>5</b> FIBER TYPE	<b>6</b> FIBER COUNT	<b>7</b> FIBER GRADE
F	MDU548BK	(NA)	00	B2	001	E7

CABLE INFORMATION	
<b>1</b> LENGTH MARKINGS	F = Feet or M = Meters
<b>2</b> PRODUCT FAMILY	<p>ezINTERCONNECT (1 Fiber) Specialty Applications - Multi Dwelling Unit (MDU)</p> <p>Indoor Riser / OFNR / FT4 (Tight Buffered)</p> <p>MDU529IV = ezINTERCONNECT Riser Standard MDU Drop (Ivory Jacket)</p> <p>MDU529WH = ezINTERCONNECT Riser Standard MDU Drop (White Jacket)</p> <p>MDU529YL = ezINTERCONNECT Riser Standard MDU Drop (Yellow Jacket)</p> <p>MDU548IV = ezINTERCONNECT Riser Heavy Duty MDU Drop (Ivory Jacket)</p> <p>MDU548WH = ezINTERCONNECT Riser Heavy Duty MDU Drop (White Jacket)</p> <p>Indoor-Outdoor Riser / OFNR / FT4 (Tight Buffered)</p> <p>MDU548BK = ezINTERCONNECT Riser I/O Heavy Duty MDU Drop (Black Jacket)</p> <p>Indoor Plenum / OFNP / FT6 (Tight Buffered)</p> <p>MDU829IV = ezINTERCONNECT Plenum Standard MDU Drop (Ivory Jacket)</p> <p>MDU829WH = ezINTERCONNECT Plenum Standard MDU Drop (White Jacket)</p> <p>MDU829YL = ezINTERCONNECT Plenum Standard MDU Drop (Yellow Jacket)</p> <p>MDU848IV = ezINTERCONNECT Plenum Heavy Duty MDU Drop (Ivory Jacket)</p> <p>MDU848WH = ezINTERCONNECT Plenum Heavy Duty MDU Drop (White Jacket)</p> <p>MDU848YL = ezINTERCONNECT Plenum Heavy Duty MDU Drop (Yellow Jacket)</p>

<b>3</b> CONSTRUCTION	(blank) = none												
<b>4</b> FIBER GROUPING	00 = no grouping												
FIBER INFORMATION													
<b>5</b> FIBER TYPE	<p>SINGLE-MODE</p> <p>B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 &amp; B2 &amp; G.652.D)</p>												
<b>6</b> FIBER COUNT	001 fiber												
<b>7</b> FIBER GRADE	<table border="1"> <thead> <tr> <th>SINGLE-MODE</th> <th>Attenuation (dB/km)</th> <th>Wavelength (nm)</th> <th>Fiber Type</th> </tr> </thead> <tbody> <tr> <td>E7</td> <td>0.4/0.4/0.3</td> <td>1310/1383/1550</td> <td>Bend-Insensitive Single-Mode</td> </tr> <tr> <td>E7</td> <td>0.4/0.4/0.3</td> <td>1310/1383/1550</td> <td>Bend-Insensitive Single-Mode</td> </tr> </tbody> </table> <p>Other cable constructions and fiber performance grades available on request.</p>	SINGLE-MODE	Attenuation (dB/km)	Wavelength (nm)	Fiber Type	E7	0.4/0.4/0.3	1310/1383/1550	Bend-Insensitive Single-Mode	E7	0.4/0.4/0.3	1310/1383/1550	Bend-Insensitive Single-Mode
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### Nominal Design Parameters

Riser (Indoor) | MDU Series | OFNR/FT4

Fiber Count	Cable Type (Note 1)	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load inches (mm) (Note 2)	Bend Radius No Load inches (mm) (Note 2)	Max Installation Load lbs (newtons)	Max Operation Load lbs (newtons)
1	MDU529xx	0.114 (2.9)	5 (8)	0.2 (5)	0.2 (5)	50 (220)	15 (66)
1	MDU548xx	0.189 (4.8)	14 (22)	0.2 (5)	0.2 (5)	100 (450)	30 (135)

Notes: (1) "xx" indicates jacket color. Available options are Ivory (IV); white (WH), and yellow (YL)  
 (2) 7.5mm using bend-insensitive; 5mm performance with bend-insensitive

### Riser (Indoor-Outdoor) | MDU Series | OFNR/FT4

1	MDU548BK	0.189 (4.8)	14 (22)	0.2 (5)	0.2 (5)	100 (450)	30 (135)
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Notes: (1) I/O cables have black jacket color for UV protection  
 (2) 7.5mm using bend-insensitive; 5mm performance with bend-insensitive

### Plenum (Indoor) | MDU Series | OFNP/FT6

1	MDU848xx	0.189 (4.8)	17 (25)	0.2 (5)	0.2 (5)	100 (450)	30 (135)
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Notes: (1) "xx" indicates jacket color. Available options are Ivory (IV), white (WH), and yellow (YL)  
 (2) 7.5mm using bend-insensitive; 5mm performance with bend-insensitive

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.

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