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, CE RoHS Compliant
Registered Supplier ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

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)
(Pleum) -40° F to +158° F (-40° C to +70° C)
Installation: (Riser) +14° F to +140° F (0° C to +60° C)
(Pleum) +32° F to +140° F (0° C to +60° C)
Operation: (Riser) -4° F to +158° F (-20° C to +70° C)
(Pleum) +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)

### CABLE INFORMATION

1. **LENGTH MARKINGS**
   - F = Feet or M = Meters

2. **PRODUCT FAMILY**
   - ezINTERCONNECT (1 Fiber) Specialty Applications - Multi Dwelling Unit (MDU)

3. **CONSTRUCTION**

   - Indoor Riser / OFNR / FT4 (Tight Buffered)
     - MDU529WH = ezINTERCONNECT Riser Standard MDU Drop (Ivory Jacket)
     - MDU529YL = ezINTERCONNECT Riser Standard MDU Drop (Yellow Jacket)
     - MDU548IV = ezINTERCONNECT Riser Heavy Duty MDU Drop (Ivory Jacket)
     - MDU548WH = ezINTERCONNECT Riser Heavy Duty MDU Drop (White Jacket)

   - Indoor-Outdoor Riser / OFNR / FT4 (Tight Buffered)
     - MDU548BK = ezINTERCONNECT Riser I/O Heavy Duty MDU Drop (Black Jacket)

   - Indoor Plenum / OFNP / FT6 (Tight Buffered)
     - MDU829WH = ezINTERCONNECT Plenum Standard MDU Drop (White Jacket)
     - MDU829YL = ezINTERCONNECT Plenum Standard MDU Drop (Yellow Jacket)
     - MDU848IV = ezINTERCONNECT Plenum Heavy Duty MDU Drop (Ivory Jacket)
     - MDU848WH = ezINTERCONNECT Plenum Heavy Duty MDU Drop (White Jacket)

4. **FIBER GROUPING**
   - 00 = no grouping

5. **FIBER INFORMATION**

6. **FIBER COUNT**
   - 001 fiber

7. **FIBER GRADE**
   - E7 = 0.4/0.4/0.3 1310/1380/1550 Bend-Insensitive Single-Mode
   - E7 = 0.4/0.4/0.3 1310/1380/1550 Bend-Insensitive Single-Mode

Nominal Design Parameters

**Riser (Indoor) | MDU Series | OFNR/FT4**

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Cable Type (Note 1)</th>
<th>Diameter inches (mm)</th>
<th>Cable Weight lb/kg (kg/kg)</th>
<th>Bend Radius Load inches (mm) (Note 2)</th>
<th>Bend Radius No Load inches (mm) (Note 2)</th>
<th>Max Installation Load lbs (newtons)</th>
<th>Max Operation Load lbs (newtons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MDU529WH</td>
<td>0.114 (2.9)</td>
<td>5 (8)</td>
<td>0.2 (5)</td>
<td>0.2 (5)</td>
<td>50 (220)</td>
<td>15 (66)</td>
</tr>
<tr>
<td>1</td>
<td>MDU548WH</td>
<td>0.189 (4.8)</td>
<td>14 (22)</td>
<td>0.2 (5)</td>
<td>0.2 (5)</td>
<td>100 (450)</td>
<td>30 (135)</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Cable Type (Note 1)</th>
<th>Diameter inches (mm)</th>
<th>Cable Weight lb/kg (kg/kg)</th>
<th>Bend Radius Load inches (mm) (Note 2)</th>
<th>Bend Radius No Load inches (mm) (Note 2)</th>
<th>Max Installation Load lbs (newtons)</th>
<th>Max Operation Load lbs (newtons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MDU548BK</td>
<td>0.189 (4.8)</td>
<td>14 (22)</td>
<td>0.2 (5)</td>
<td>0.2 (5)</td>
<td>100 (450)</td>
<td>30 (135)</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Fiber Count</th>
<th>Cable Type (Note 1)</th>
<th>Diameter inches (mm)</th>
<th>Cable Weight lb/kg (kg/kg)</th>
<th>Bend Radius Load inches (mm) (Note 2)</th>
<th>Bend Radius No Load inches (mm) (Note 2)</th>
<th>Max Installation Load lbs (newtons)</th>
<th>Max Operation Load lbs (newtons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MDU848WH</td>
<td>0.189 (4.8)</td>
<td>17 (25)</td>
<td>0.2 (5)</td>
<td>0.2 (5)</td>
<td>100 (450)</td>
<td>30 (135)</td>
</tr>
</tbody>
</table>

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 > 24 hours prior to placement.

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