Prysmian Group

MANUFACTURED IN THE USA/CANADA

ezINTERCONNECT™ MDU Drop
Riser and plenum rated cables

Aramid Strength Yarn

Bend Insensitive Optical Fiber

Tight Buffered Fiber (900 μm)

Flame Rated / UV Resistant Jacket (Indoor-Outdoor)

Bend Insensitive Optical Fiber

Aramid Strength Yarn

Tight Buffered Fiber (900 μm)

Flame Rated Jacket (Indoor)

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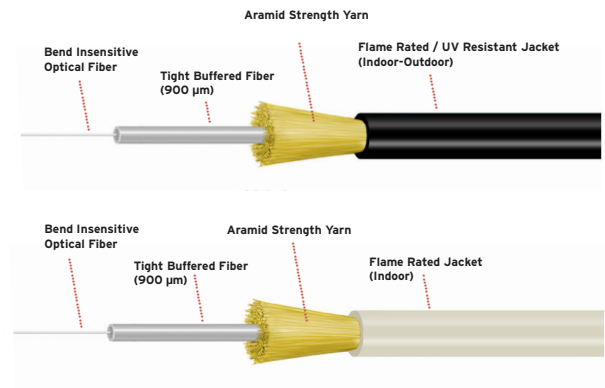
Overview

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
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

CE

RoHS Compliant

Features and Benefits

- 900mm 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/Handling:	(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 +158° F	(-40° C to +70° C)
	(Plenum)	+32° F to +120° F	(0° C to +50° C)

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PRYSMIAN
Draka
General Cable

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)

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

CABLE INFORMATION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

ezINTERCONNECT (1 Fiber) Specialty Applications -MUlti Dwelling Unit (MDU)

Indoor Riser /OFNR / FT4 (Tight Buffered)
MDU529IV = ezINTERCONNECT Riser Standard MDU Drop (Ivory Jacket)
MDU529WH = ezINTERCONNECT Riser Standard MDU Drop (White 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)
MDU829IV = ezINTERCONNECT Plenum Standard MDU Drop (Ivory Jacket)
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)
MDU848YL = ezINTERCONNECT Plenum Heavy Duty MDU Drop (Yellow Jacket)

3 CONSTRUCTION

(blank) = none

4 FIBER GROUPING

00 = no grouping

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE

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

B3 = Bend-Insensitive Single-Mode (ITU G.657.B3)

6 FIBER COUNT

001 fiber

7 FIBER GRADE

SINGLE-MODE

Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E7 = 0.4/0.4/0.3	1310/1383/1550	B2, B3

Other cable constructions and fiber performance grades available on request.

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)

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)

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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