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ezMICRODUCT™

Jetted microduct loose tube cable





Optimized for jetted microduct installations **Overview**

Prysmian's ezMICRODUCT cables provide optimized jetting performance for underground microduct installations or jetting directly over existing cable. Prysmain offers microduct product solutions for microducts ranging from 10 mm to 14 mm, or larger, inside diameters. These small diameter cables combine high reliability with reduced size and weight for optimum blowing performance.

With this approach, network operators can maximize duct utilization, defer capital expenditures to match revenue streams, maintain flexibility for future growth, and reduce installation and upgrade costs

Product Snapshot

Applications Jetted microduct deployment, installed in

microducts or partially filled duct

Constructions Stranded dielectric loose tube/specialized jacket and

construction

Fiber Count 2 to 528 fibers in color coded buffer tubes

Fiber Types Bend-insensitive SMF

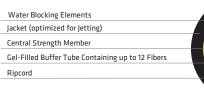
Performance ANSI/ICEA 744, IEC, RUS, GR-20

Options Tonewire

Registered ISO 9001, ISO 14001, TL 9000

and OHSAS 18001 Supplier







Features and Benefits

Optimal Jetting Performance

- Reduced size and weight for installation in microduct
- Up to 65% reduction in cross-section vs. conventional
- Demonstrated results more than 1-1/4 miles (single and 6 miles (cascaded)
- Simple and standard loose tube entry via ripcords, swellable binders, and flexible buffer tubes

Reduced Total Installed Cost

- Reduce total Installed Cost
- Defer CAPEX by maximizing duct utilization
- Reduce installation and upgrade costs
- Minimize disruption to underground infrastructure
- Quick installation long lengths and high speeds
- Allow use of ducts already containing cable
- Microduct options available with mid-span express buffer tube storage capabilities shown in the below table.

Minimum Microduct ID (mm)	* Optimum Microduct ID (mm)	Part Number Family	Fiber Count	Tone Wire Option # Fibers (Gauge)	# Tube/ Filler	# Fibers/ Tube	Tube Size (mm)	Tube Type	SMF Maximum Express Tube Storage (ft)	Cable Diameter inches (mm)	Cable Weight Ib/kf (kg/km)	Bend Radius with Load inches (cm)	Bend Radius No Load inches (cm)	Tensile Load Maximum / Opertating (lbf)
250 um Fiber														
10	10	MDS1JKT-12	2-72	2-60 (19 AWG)	6	12	1.9	PBT	8	0.28 (7.0)	28 (41)	6 (14)	4 (11)	300/90
12	12	MDS1JKT-12	74-96	74-84 (19 AWG)	8	12	1.9	PBT	8	0.33 (8.4)	42 (62)	7 (17)	5 (13)	300/90
10	12	MDM1JKT-24	96-144	72-120 (19 AWG)	6	24	2.2	PBT	8	0.30 (7.7)	42 (62)	6 (16)	5 (12)	300/90
12	12	MDM1JKT-12	96-144	96-132 (20 AWG)	12	12	1.5	PBT	6	0.34 (8.6)	42 (63)	7 (17)	5 (13)	300/90
13	14	MDM1JKT-12	156-288	144-276 (20 AWG)	24	12	1.5	PBT	8	0.40 (10.1)	55 (82)	10 (25)	6 (15)	375/112
13	14	MDM1JKT-12	300-312	288-300 (20 AWG)	26	12	1.5	PBT	8	0.41 (10.6)	68 (101)	10 (26)	6 (16)	375/112
200 um Fiber														
10	10	MDM1JKT-24	168-288		12	24	1.4	PBT	16	0.31 (8.0)	36 (54)	6 (16)	5 (12)	300/90
14	14	MDM1JKT-24	312-528	312-504 (20 AWG)	22	24	1.8	PBT	** 6	0.44 (11.2)	67 (100)	10 (26)	6 (16)	300/90
FlexRibbon														
13	14	RCFMD1JKT-12	144-192				7.9			0.41 (10.5)	51 (76)	8 (21)	6 (16)	300/90
FlexRibbo	FlexRibbon 200 um													
16	18	RCFMD 1JKT-24	864				10.9			0.52 (13.1)	96 (142)	14 (33)	11 (26)	300/90

^{*} The optimum duct size may provide longer blowing distances and/or provides a larger margin of error from unexpected tube deformations.

Cables should be blown, not pulled.

Installation note:

Prysmian Group

^{**} In cold climates, Mid-Span Buffer Tube ("Express") storage is recommended only for below ground closures. Please contact Prysmian if above ground splice storage is desired.







Part Number	Fiber	TEMPERAT	Compression	Impact	Tubo Sino (num)	Prysmian Mid-Span		
Family	Count	Operating °F (°C)	Installation °F (°C)	N/cm per ICEA640, GR20	Energy N°m (FOTP25)	Tube Size (mm)	Access Tool Insert	
250 um Fiber								
MDS1JKT-12	2 - 72	-40 to +158 (-40 to +70)	-22 to +140 (-30 to +60)	220	4.4	1.9	20021564	
MDS1JKT-12	74 - 96	-40 to +158 (-40 to +70)	-22 to +140 (-30 to +60)	220	4.4	1.9	20021564	
MDM1JKT-24	96 - 144	-22 to +158 (-30 to +70)	+14 to +122 (-10 to +50)	100	4.4	2.2	CUS10003948	
MDM1JKT-12	96 - 144	-22 to +158 (-30 to +70)	+14 to +122 (-10 to +50)	100	4.4	1.5	CUS10003949	
MDM1JKT-12	156-288, 300-312	-22 to +158 (-30 to +70)	+14 to +122 (-10 to +50)	100	4.4	1.5	CUS10003949	
200 um Fiber								
MDM1JKT-24	168 - 288	-40 to +158 (-40 to +70)	-22 to +140 (-30 to +60)	220	4.4	1.4	Miller MSAT 16 (Setting #2)	
MDM1JKT-24	312 - 528	-22 to +140 (-30 to +60)	+14 to +122 (-10 to +50)	100	4.4	1.75	CUS10003931	
FlexRibbon								
RCFMD 1JKT-12	144 - 192	-22 to +158 (-30 to +70)	+14 to +140 (-10 to +60)	100	4.4			
FlexRibbon 200 ųm		·	·					
RCFMD 1JKT-24	864	-22 to +158 (-30 to +70)	-22 to +158 (-30 to +70)	100	4.4			

Maximum Reel Length: 41,010 feet (12,500 meters)

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.

Example: ezMICRODUCT loose tube cable | single jacket dielectric (12 fibers/tube) with 72 single-mode fibers (printed in feet)

1 LENGTH PRODUCT FAMILY	CONSTRUCTION	FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE	8 OPTIONAL TONE WIRE
F - MDS	1JKT	- 12	- B1	- 072	- E3	BLANK

PART NUMBER CONSTRUCTION 1 LENGTH MARKINGS F = Feet or M = Meters 2 PRODUCT FAMILY MDS = ezMICRODUCT™ (BIF ONLY) MDM = ezMICRODUCT™ with 1.5 mm 12f tubes (BIF ONLY) MDM = ezMICRODUCT™ with 2.2 mm 24f tubes (BIF ONLY) MDM = ezMICRODUCT™ with 1.75 mm 24f tubes (200 ym BIF ONLY) MDM = ezMICRODUCT™ with 1.4 mm 24f tubes (22 or 2X 200ųm BIF ONLY) RCFMD = ezMICRODUCT™ with central tube FlexRibbon technology RCFBMD = ezMICRODUCT with central tube Breakout FlexRibbon technology 3 CONSTRUCTION 1JKT = Single Jacket 4 FIBER GROUPING 12 = 12f per tube 24 = 24f per tube (12 fibers per unit)

Other cable constructions and fiber performance grades available on request.

FIBER	INFORM	NOITAN
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5 FIBER TYPE

SINGLE-MODE

B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)

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

CU = Corning® SMF-28® Ultra Single-Mode (ITU G.657.A1 & G.652.D)

21 = 200ųm Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)

2U = Corning® SMF-28® Ultra 200ųm Single-Mode (ITU G.657.A1 & G.652.D)

22 = 200 um Bend-Insenstive Single-Mode (ITU G.657.A2 & G.652.D)

2X = Draka BendBrightXS 200um Single-Mode (ITU G.657.A2 & G652.D)

6 FIBER COUNT

002 to 528 fibers

7 FIBER GRADE

SINGLE-MODE		
Attenuation (dB/km)	Wavelength (nm)	Туре
E1 = 0.40/0.40/0.30	1310/1383/1550	B1, B2, 21, 2U, 22, or 2X Use E1 with 200um fiber designs & FlexRibbon
E3 = 0.35/0.35/0.25	1310/1383/1550	B1, B2, CU, 21, 22, 2U, or 2X
EA = 0.50/0.50/0.50	1310/1383/1550	21 Use with 864f, 200um fiber FlexRibbon designs

8 TONE WIRE OPTIONS (See table on page one)

19AWG = one 19AWG tone wire 20AWG = one 20AWG tone wire

12AWG = one 12AWG tone wire

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