ezMICRODUCT™ with 250µm FlexRibbon™ Technology
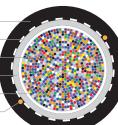
Jetted FlexRibbon microduct cable

Prysmian

PE Outer Jacket
Strength Members
Optical Fibers
Central Tube
Water Swell Tape
Ripcords

OVERVIEW

Prysmian's ezMICRODUCT cables provide optimized jetting performance for underground microduct installations or jetting directly over existing cable. Prysmian's FlexRibbon technology provides the benefits of mass-fusion splicing, without compromising cable OD in a diameter-sensitive application. The use of 250µm fiber provides the most straightforward splicing process. This small diameter cable combines high reliability with reduced size and weight for optimal blowing performance.

Microduct cables are an ideal solution for network operators who wish to maximize duct utilization, defer capital expenditures to match revenue streams, maintain flexibility for future growth, and reduce installation and upgrade costs.

FEATURES AND BENEFITS

Optimal Jetting Performance

- Reduced size and weight for installation in microduct
- Optimized for jetted microduct installations

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

SPECIFICATIONS / RATINGS

Applications	Jetted microduct deployment, installed in microducts or partially filled duct
Constructions	Central tube construction containing twelve-fiber flexible ribbons
Fiber Count	144 – 192f
Fiber Types	G.657.A1/G.652.D Bend-Insensitive SMF BBXS™ G.657.A2/G.652.D Bend Insensitive SMF
Standards	Tested in accordance with ICEA744
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

Fiber Count	Minimum Microduct ID (mm)	Optimum Microduct ID (mm)	Tube Size (mm)	Cable Diameter		Cable Weight		Bend Radius with Load		Bend Radius No Load		Tensile Load Maximum / Operating (lbf)
				inches	mm	lb/kft	kg/km	inches	cm	inches	cm	
144-192	13	14	7.9	0.41	10.5	51	76	8	21	8	20.4	167/50

Fiber Count Range	Recommended Fiber Count	Prysmian Recommended Part Number	Temperature Range		Compression N/cm per ICEA640, GR20	Impact Energy Nm (FOTP25)	Fibers per Ribbon	Fiber Diameter (ųm)
			Operating degF (degC)	Installation degF (degC)				
144-192	192	RCFMD1JKT-12-B1-192-E1	-22 to +158 (-30 to +70)	+14 to +122 (-10 to +50)	50	2	12	250

Maximum Reel Length: 20,000 feet (6,100 meters)

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RIBBON COLOR CODE

Ribbon #	Marking	Ribbon #	Marking
1	I	13	■■IIII
2	II	14	■■IIIII
3	III	15	■■■
4	IIII	16	■■■I
5	■	17	■■■II
6	■I	18	■■■IIII
7	■II	19	■■■IIII
8	■IIII	20	■■■■
9	■IIIII	21	■■■■I
10	■■	22	■■■■II
11	■■I	23	■■■■IIII
12	■■II	24	■■■■IIII

Note: maximum ribbon count for this design is 16 ribbons

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

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	– RCFMD	1JKT	– 12	– B1	– 192	– E1

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

RCFMD = ezMICRODUCT™ with FlexRibbon technology

3 CONSTRUCTION

1JKT = Single Jacket

4 FIBER GROUPING

12 = 12f per ribbon

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE

B1 = 250μm Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)

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

6 FIBER COUNT

144 – 192

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)
E1 = 0.40/0.40/0.30	1310/1383/1550

Notes: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help.
For individual fiber breakout, please refer to Prysmian's FlexRibbon breakout procedure.

Other cable constructions and fiber performance grades available on request.

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