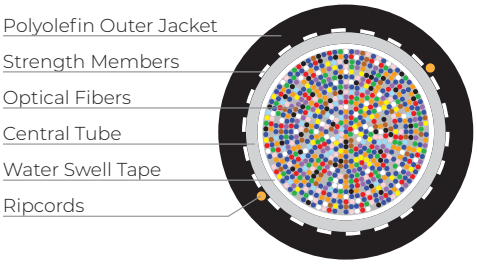
MicroFlex™ with 200µm FlexRibbon® Technology

288 to 864f FlexRibbon cable, for use in microducts



OVERVIEW

Prysmian's MicroFlex 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 200µm fiber allows additional weight and diameter reductions that are not possible with standard 250µm fiber. This small diameter cable combines high reliability with reduced size and weight for optimal blowing performance.

MicroFlex 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.

SPECIFICATIONS / RATINGS

Applications Jetted microduct deployment, installed in microducts or partially filled duct

Construction Central tube construction containing twelve-fiber flexible ribbons

Fiber Count 288, 432, 864

Fiber Types BBXS200 G.657.A2 Bend-Insensitive SMF

Standards Tested in accordance with ICEA744 and with relevant EIA/TIA-455 series FOTPs for microduct

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

FEATURES AND BENEFITS

Optimal Jetting Performance

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

FlexRibbon Technology

- FlexRibbons conform to small, round tubes without stress or damage
- Fibers can be mass-fusion spliced
- Each 12- or 24-fiber ribbon is individually numbered with a barcode (see page 2)

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

BBXS™ Fiber

- Exceeds the requirements of ITU G.657.A2
- Superior micro and macrobend performance
- Improved bend performance in both cables and closures
- An essential component in many of our highest density cables

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 Max Limits lbf (N)	
				inches	mm	lb/kft	kg/km	inches	cm	inches	cm	Install	Operation
288	12	13	7.2	0.37	9.4	43	63.5	7.4	18.8	3.7	9.4	150 (667)	45 (200)
432	13	14	7.9	0.40	10.2	50	75.0	8.0	20.4	4.0	10.2	164 (730)	49 (218)
864	16	17	10.7	0.50	12.7	74	109.6	10.0	25.4	5.0	12.7	220 (979)	66 (294)

Fiber Count	Prysmian Recommended Part Number	Temperature Range		Compression N/cm per ICEA744	Impact Energy Nm (FOTP25)	Fibers per Ribbon	Maximum Length
		Operating °F (°C)	Installation °F (°C)				
288	RCFMDS1JKT-12-2X-288-E7	-22 to +158 (-30 to +70)	-22 to +140 (-30 to +60)	50	2	12	26,900' (8,200m)
432	RCFMDS1JKT-12-2X-432-E7	-22 to +158 (-30 to +70)	-22 to +140 (-30 to +60)	50	2	12	20,000' (6,100m)
864	RCFMDS1JKT-24-2X-864-E7	-22 to +158 (-30 to +70)	-22 to +140 (-30 to +60)	50	2	24	14,000' (4,267m)

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TLS-DS-A-314-0725

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RIBBON COLOR CODE - 288 & 432 Fiber Cables

Ribbon #	Marking	Ribbon #	Marking	Ribbon #	Marking
1		13		25	
2		14		26	
3		15		27	
4		16		28	
5		17		29	
6		18		30	
7		19		31	
8		20		32	
9		21		33	
10		22		34	
11		23		35	
12		24		36	

RIBBON COLOR CODE - 864 Fiber Cable Only (24f ribbon, consisting of 2 x 12f ribbons)

Ribbon #	Marking	Ribbon #	Marking	Ribbon #	Marking	Ribbon #	Marking	Ribbon #	Marking	Ribbon #	Marking
1		13		25		37		49		61	
2		14		26		38		50		62	
3		15		27		39		51		63	
4		16		28		40		52		64	
5		17		29		41		53		65	
6		18		30		42		54		66	
7		19		31		43		55		67	
8		20		32		44		56		68	
9		21		33		45		57		69	
10		22		34		46		58		70	
11		23		35		47		59		71	
12		24		36		48		60		72	

Ordering Guide

The Prysmian 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	– RCFMDS	1JKT	– 12	– 2X	– 288	– E7

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet, M = Meters, or B = BABA Compliant in Feet

2 PRODUCT FAMILY

RCFMDS = MicroFlex™ with FlexRibbon technology

3 CONSTRUCTION

1JKT = Single Jacket

4 FIBER GROUPING

12 = 12f per ribbon

24 = 24f per ribbon

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE

2X = BBXS 200µm Bend Insensitive Single-Mode (ITU G.657.A2 & G.652.D)

6 FIBER COUNT

288, 432, 864

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E7 = 0.4/0.4/0.3	1310/1383/1550	2X

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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