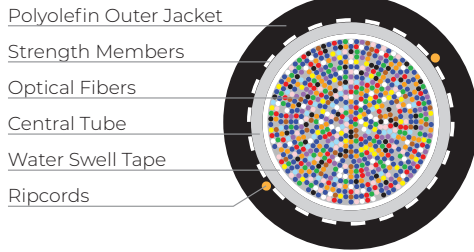


MicroFlex™ with 200µm FlexRibbon® Technology

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 Load Maximum /Operating (lbf)
				inches	mm	lb/kft	kg/km	inches	cm	inches	cm	
288	12	13	7.2	0.37	9.4	43	63.5	9.3	23.6	3.7	9.4	150/45
432	13	14	7.9	0.40	10.2	50	75.0	10.0	25.5	8	20.4	164/49
864	16	17	10.7	0.50	12.7	74	109.6	20.0	50.8	10.5	26.7	220/66

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	RCFMDSJKT-12-2X-288-E7	-22 to +158 (-30 to +70)	-22 to +140 (-30 to +60)	50	2	12	26,900' (8,200m)
432	RCFMDSJKT-12-2X-432-E7	-22 to +158 (-30 to +70)	-22 to +140 (-30 to +60)	50	2	12	20,000' (6,100m)
864	RCFMDSJKT-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-314-0425

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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 or M = Meters	
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)
E7 = 0.4/0.4/0.3	1310/1383/1550
Fiber Type	
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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