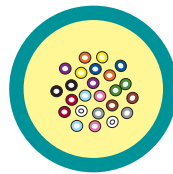


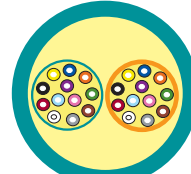


Air Blown/Jetting Indoor Cable (MFC Series)

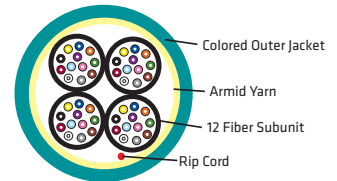
Micro Fiber Cable (MFC) for jetting and air blown installation



24 Fiber Round
3.0 mm



24 Fiber Round
3.8 mm



48 Fiber

Announcing the Micro Fiber Cable for Microducts family. This product family offers a fiber range of 8 to 48 fibers in compact, flexible, Plenum rated designs that are ideal for blowing/jetting in duct/conduit indoor applications. These cables have proven to be perfect for blowing/jetting in conduit for building interconnects, central offices, and data centers up to 2000 feet in distance.

A highly compact, high performance flame rated cable designed for data center, co-location, and central office applications where space is a premium.

Overview

Prysmian's Micro Fiber Cable for Microducts is the ideal cable for blown and jetted applications in data centers, co-locations, and central office facilities where a small diameter, highly flexible cable is needed for optimal blowing and jetting distances in microducts. Prysmian offers up to 24 x 250 micron color coated fibers in a 3 mm cable design as well as 12 x 250 micron color coated fibers in 1.4 mm subunits with up to 48 fibers per cable. 3 mm cables and 1.4 mm subunits may be directly terminated to MPO style connectors.

Product Snapshot

Applications	Routing and patching for indoor communication network locations. Blowing and jetting applications into microducts.
Constructions	250µm color coded fibers, 12 or 24 fiber groups
Flame Ratings	Plenum (OFNP / FT6)
Fiber Count	8 to 48
Fiber Types	Single-mode and multimode
Standards	ANSI / ICEA S-83-596, Telcordia GR-409 CE RoHS compliant
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



Features and Benefits

Blowing and Jetting Applications

- 3.0 to 3.8 mm cables with up to 24 fibers have demonstrated the capability of being blown/jetted into a 6 mm ID plenum microduct with distances over 2000 feet at speeds averaging 230 ft/min.
- 4.5 mm cables with up to 12 fibers have demonstrated the capability of being blown/jetted into an 8 mm ID plenum microduct with distances over 1800 feet at speeds averaging 200 ft/min.
- 5.1 to 5.7 mm cables with up to 48 fibers have demonstrated the capability of being blown/jetted into a 10 mm ID plenum microduct with distances over 1800 feet at speeds averaging 200 ft/min.

Flexible Routing & Termination

- Very flexible with no preferential bend
- Subunits can be directly terminated to MPO connections
- Compatible with routing in trays, racks and under raised floors in network communication centers
- Enables installation around tight corners and in confined spaces
- Fully compatible with commercially available multi-fiber connectors, such as MPO

Flame-Retardant Safety

- NFPA-262/CSA FT6 OFNP Plenum

Reliable Performance

- Available option for incorporating bend-insensitive single-mode or multimode fibers to address the most challenging placement conditions
- Rugged thermoplastic jacket for crush resistance
- Designed & tested to standards-based performance criteria

Prysmian Group

700 Industrial Drive | Lexington, SC 29072

+1-800-879-9862 | +1-800-669-0808 | website: na.prysmiangroup.com/telecom

Nominal Design Parameters

Fiber Count	Fibers Per Subunit	Diameter inches (mm)	Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load inches (cm)	Max Installation Load (Pull Strength) lbs (newtons)	Max Operation Load lbs (newtons)
-------------	--------------------	----------------------	-----------------------------	------------------------------	---------------------------------	---	----------------------------------

Plenum OFNP/FT6 | MFC30 Series

24	single-unit	0.120 (3.0)	8 (12)	1.9 (4.8)	1.3 (3.2)	100 (444)	32 (142)
----	-------------	-------------	--------	-----------	-----------	-----------	----------

Plenum OFNP/FT6 | MFC Series

8	single-unit	0.12 (3.0)	8 (11)	1.9 (4.8)	1.3 (3.2)	22 (98)	7 (31)
12	single-unit	0.12 (3.0)	8 (11)	1.9 (4.8)	1.3 (3.2)	22 (98)	7 (31)
24	single-unit	0.15 (3.8)	10 (15)	3.0 (7.7)	1.5 (3.9)	50 (222)	16 (74)

Plenum OFNP/FT6 | MFC14 Series | (1.4 mm sub-units)

12	1-unit of 12	0.177 (4.5)	12.5 (18.6)	3.5 (9)	1.8 (4.5)	100 (444)	32 (142)
24	2-units of 12	0.200 (5.1)	18.3 (27.2)	4.0 (11)	2.0 (5.1)	150 (667)	45 (200)
48	4-units of 12	0.223 (5.7)	21.1 (31.4)	4.6 (11.4)	2.3 (5.7)	150 (667)	45 (200)

Temperature Range

Shipping and Storage:	-40° F to +176° F	(-40° C to +70° C)
Installation:	+32° F to +140° F	(0° C to +60° C)
Operation:	+32° F to +176° F	(0° C to +70° C)

Outer Jacket Color Identification

Orange	Multimode OM1 and OM2+
Aqua	Multimode OM3 and OM4
Yellow	Single-mode
Black	Hybrid

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: 24 fiber MFC30 cable with bend-insensitive singlemode fibers (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	MFC30	BLANK	00	B1	024	E1

CABLE INFORMATION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

Data Center Cable

MFC = 8 to 24f Plenum

MFC30 = 24f Plenum

MFC14 = 12 to 24f Plenum

3 CONSTRUCTION

(blank) = none

FIBER INFORMATION

4 FIBER GROUPING

00 = single unit (8f to 24f)

12 = 12f per unit or tube (MFC14)

5 FIBER TYPE

SINGLE-MODE

HB = Single-Mode (ITU G.652 C & D) - MFC only

B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D) - not for use in MFC14

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

MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 CbE Dist (m)	10 GbE Dist (m)
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
G5 = OM2+ (50µm)	850/1300	700/500	800	150/___
G3 = OM3 (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 (50µm)	850/1300	3500/500	1100	550/___
GW = OM5 (50µm)	850/1300	3500/500	1200	550/___

6 FIBER COUNT

008 to 048 fibers

7 FIBER GRADE

SINGLE-MODE	MULTIMODE
Attenuation (dB/km)	Attenuation (dB/km)
Wavelength (nm)	Wavelength (nm)
Fiber Type	

E1 = 0.40/0.40/0.30	1310/1383/1550	HB, B1 or B2
---------------------	----------------	--------------

Other cable constructions and fiber performance grades available on request.

© DRAKA & PRYSMIAN - Brands of The Prysmian Group. 2020 All Right Reserved. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed correct at the time of issue. Prysmian Group reserves the right to amend any specifications without notice. These specifications are not contractually valid unless specifically authorized by Prysmian Group. Issued November 2020.

Prysmian Group

700 Industrial Drive | Lexington, SC 29072

+1-800-879-9862 | +1-800-669-0808 | website: na.prysmiangroup.com/telecom