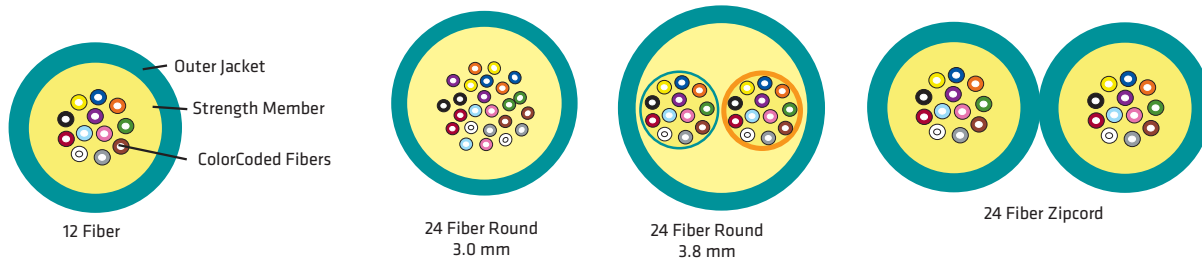




## Micro Fiber MFC | Interconnect

Micro Fiber Cable (MFC)



*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 MFC is the ideal cable for data center, co-location and central office facilities where a small diameter, highly flexible cable is desired. Prysmian combines 12 fiber subunits, 250 micron color coded fibers with an option of 1.4 mm, 2.0 mm or 3.0 mm diameter subunits. Subunits can be directly terminated to MPO style connectors.

### Product Snapshot

<b>Applications</b>	Routing and patching for indoor communication network locations
<b>Constructions</b>	250 µm color coded fibers, 8, 12 or 24 fiber groups
<b>Flame Ratings</b>	Plenum (OFNP / FT6), LSZH Riser OFNR ( FT-4-ST1)
<b>Fiber Count</b>	8 to 24
<b>Fiber Types</b>	Single-mode and multimode
<b>Standards</b>	ANSI / ICEA S-83-596, Telcordia GR-409/ Interconnect levels except where noted, CE RoHS compliant
<b>Registered Supplier</b>	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



RoHS Compliant

### Features and Benefits

#### 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
- UL1666, UL1685 LSZH Riser
- IEC 60332-1 and 60332-3-24

#### 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 and tested to standards-based performance criteria

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Micro Fiber Cable (MFC) for networking applications

Fiber Count	Fibers Per Subunit	Diameter inches (mm)	Cable Weight lb/ft (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)
<b>Plenum OFNP/FT6   MFC14 Series   (1.4 mm sub-units)</b>							
12	1-unit of 12	0.177 (4.5)	12.5 (18.6)	3.5 (9)	2 (4.5)	100 (444)	32 (142)
24	2-units of 12	0.200 (5.1)	18.3 (27.2)	4 (11)	2 (5.1)	150 (667)	45 (200)
<b>LSZH Riser OFNR-LS/FT4-ST1   MFCL14 Series   Each unit size 0.055 inches (1.4 mm)</b>							
12	1-unit of 12	0.190 (4.8)	15.7 (23.3)	3.8 (9.6)	1.9 (4.8)	150 (667)	45 (200)
24	2-units of 12	0.213 (5.4)	21.4 (31.9)	4.6 (11.6)	2.3 (5.8)	150 (667)	45 (200)
<b>Plenum OFNP/FT6   MFC20 Series</b>							
8	single-unit	0.08 (2.0)	3 (5)	1.6 (4)	0.8 (2.0)	9 (40)	2.7 (12)
12	single-unit	0.08 (2.0)	3 (5)	1.6 (4)	0.8 (2.0)	9 (40)	2.7 (12)
<b>Plenum OFNP/FT6   MFC30 Series</b>							
24	single-unit	0.120 (3.0)	8 (12)	2.4 (6)	1.3 (3.2)	100 (444)	32 (142)
<b>Plenum OFNP/FT6   MFC Series</b>							
8	single-unit	0.12 (3.0)	8 (11)	2.4 (6)	1.3 (3.2)	22 (98)	7 (31)
12	single-unit	0.12 (3.0)	8 (11)	2.4 (6)	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)
<b>Plenum OFNP/FT6   MFCZ Series (Zipcord Style)</b>							
24	2-units of 12 (3 mm subunits)	0.114 x 0.246 (2.9 x 6.25)	10.6 (15.8)	3.0 (7.7)	1.5 (3.9)	50 (222)	16 (74)
<b>LSZH Riser OFNR-LS/FT4   MFCL Series</b>							
8	single-unit	0.12 (3.0)	8 (11)	2.4 (6)	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)

### 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)

### 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: 12 fiber micro fiber MFC cable with bend-insensitive OM3 50/125µm multimode 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	MFC	BLANK	00	B1	012	E1

### CABLE INFORMATION

<b>1 LENGTH MARKINGS</b>
F = Feet or M = Meters
<b>2 PRODUCT FAMILY</b>
Data Center Cable
MFC14 = 12 to 24f Plenum
MFC20 = 8 to 12f Plenum
MFC30 = 16 to 24f Plenum
MFC = 8 to 24f Plenum
MFC Z = 16 to 24f Plenum Zipcord
MFCL = 8 to 24f LSZH Riser
<b>3 CONSTRUCTION</b>
(blank) = none
<b>FIBER INFORMATION</b>
<b>4 FIBER GROUPING</b>
00 = single unit (8f to 24f)
12 = 12f per unit or tube (24f MFCZ)

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### FIBER INFORMATION

5

FIBER TYPE

SINGLE-MODE

HB = Single-Mode (ITU G.652 C & D) - not for use in MFC14, MFC20 or MFC30  
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 GbE 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

002 to 024 fibers

7

FIBER GRADE

SINGLE-MODE

Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, B1, or B2

MULTIMODE

Attenuation (dB/km)	Wavelength (nm)
M2 = 3.5/1.0	850/1300
M3 = 3.0/1.0	850/1300

Other cable constructions and fiber performance grades available on request.