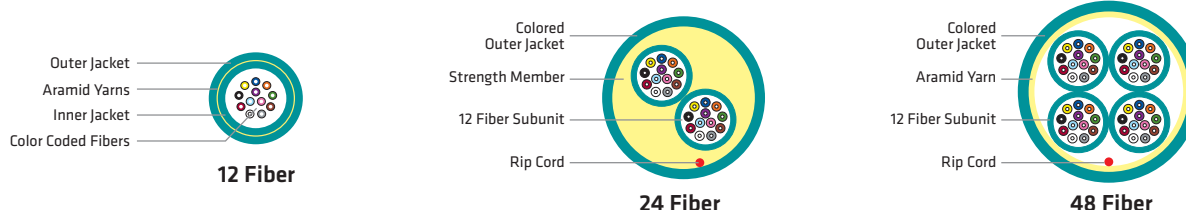




Micro Fiber MFC | 1.4 mm Units

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 offers 12 fiber, 250 micron color coded fibers in 1.4 mm diameter subunits, to deliver high performance and high density. Subunits can be directly terminated to MPO style connectors.

Product Snapshot

Applications	Routing and patching for indoor communication network locations
Subunit Size	1.4 mm diameter subunits
Fiber	250 μm fibers, 12 fibers per subunit
Flame Ratings	Plenum (OFNP/FT6), LSZH Riser (OFNR-LS/FT4-ST1) IEC 60332-1 and IEC 60332-3-24
Fiber Count	12 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

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
- Smaller diameter than traditional micro fiber cable style cables
- 24% smaller diameter than MFC20 (2mm unit 48f)

Flame-Retardant Safety

- NFPA-262/CSA FT6 OFNP Plenum
- UL1666, UL1685 LSZH Riser
- IEC 60332

Reliable Performance

- 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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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)
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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)	2.0 (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)

LSZH Riser OFNR-LS/FT4-ST1 | MFCL14 Series | Each unit size 0.055 inches (1.4 mm)

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)
48	4-units of 12	0.240 (6.1)	23.8 (35.4)	4.8 (12.2)	2.4 (6.1)	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)

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: 48 fiber micro fiber MFC14 cable, 1.4 mm subunits, with bend-insensitive single mode 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	MFC14	BLANK	12	B2	048	E1

CABLE INFORMATION
1 LENGTH MARKINGS F = Feet or M = Meters
2 PRODUCT FAMILY DATA CENTER CABLE MFC14 = 12 to 48f Plenum MFCL14 = 12 to 48f LSZH Riser
3 CONSTRUCTION (blank) = none
4 FIBER GROUPING 12 = 12f per unit

FIBER INFORMATION				
5 FIBER TYPE SINGLE-MODE 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 012 to 048 fibers				

7 FIBER GRADE				
SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type	MULTIMODE Attenuation (dB/km)	Wavelength (nm)
E1 = 0.40/0.40/0.30	1310/1383/1550	B2	M2 = 3.5/1.0	850/1300
Other cable constructions and fiber performance grades available on request.			M3 = 3.0/1.0	850/1300

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