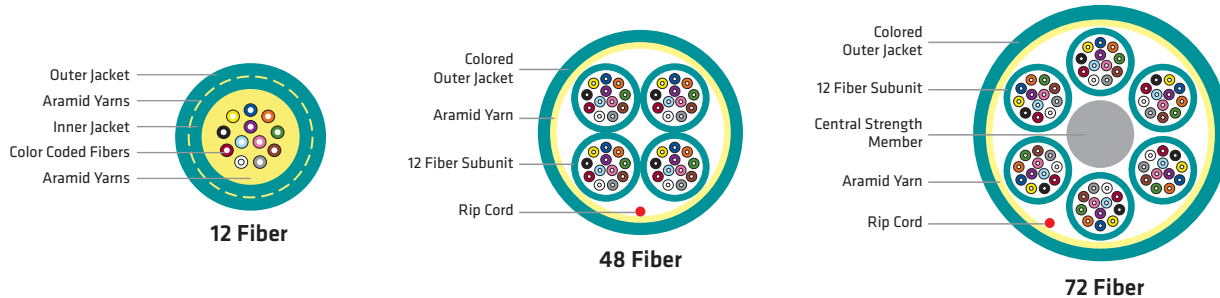




Micro Fiber MFC | 3 to 3.8 mm Units

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 combines 8, 12 and 24, 250 micron color coded fibers in 3.0 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	3.0 mm diameter subunits
Fiber	250 μ m fibers, 8, 12 and 24 fibers per subunit
Flame Ratings	Plenum (OFNP/FT6), LSZH Riser (OFNR-LS/FT4-ST1) IEC 60332-1 and IEC 60332-3-24, CPR Listed
Fiber Count	8 to 72
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
Optional	Interlock Armor



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

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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Base 12 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	0.12 (3.0)	8 (12)	2.4 (6)	1.3 (3.2)	100 (444)	32 (142)
Plenum OFNP/FT6 MFC Series							
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)
12-48	12	0.39 (9.9)	60 (90)	6.0 (15.2)	4.0 (10.1)	300 (1334)	100 (444)
60-72	12	0.43 (10.9)	79 (118)	6.7 (16.9)	4.5 (11.3)	300 (1334)	100 (444)
Plenum OFNP/FT6 MFCDJ (Double Jacket)							
12	single-unit	0.19 (4.7)	15.5 (23)	3.8 (9.4)	2.0 (4.7)	100 (444)	32 (142)
Plenum OFNP/FT6 MFC30AJ Series							
24	single-unit	0.41 (10.4)	70 (104)	8.2 (21)	4.2 (11)	100 (444)	32 (142)
Plenum OFNP/FT6 MFCAJ Series (Interlock Armor)							
12-48	12	0.677 (17.2)	176 (263)	14 (36)	7.0 (18)	300 (1334)	100 (444)
60-72	12	0.704 (17.9)	196 (292)	14 (36)	7.0 (18)	300 (1334)	100 (444)
Plenum OFNP/FT6 MFCZ (Zipcord Style)							
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)
LSZH Riser OFNR-LS/FT4 MFCL Series – CPR: Dca s1 d1 a1							
12	single-unit	0.12 (3.0)	8 (11)	1.9 (4.8)	1.3 (3.2)	22 (98)	7 (31)
LSZH Riser OFNR-LS/FT4 MFCL Series							
24	single-unit	0.15 (3.8)	10 (15)	3.0 (7.7)	1.5 (3.9)	50 (22)	16 (74)
LSZH Riser OFNR-LS/FT4 MFCL36 Series – CPR: Dca s1 d1 a1							
24	single-unit	0.14 (3.6)	9 (14)	2.8 (7.2)	1.5 (3.8)	22 (98)	7 (31)

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

Micro Fiber MFC | 3 to 3.8 mm Units

Micro Fiber Cable (MFC)

Link8™ (Base 8) 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							
16	single-unit	0.12 (3.0)	8 (12)	2.4 (6)	1.3 (3.2)	100 (444)	32 (142)
Plenum OFNP/FT6 MFC Series 3 mm							
8	single-unit	0.12 (3.0)	8 (11)	2.4 (6)	1.3 (3.2)	22 (98)	7 (31)
16	single-unit	0.15 (3.8)	10 (15)	3.0 (7.7)	1.5 (3.9)	50 (222)	16 (74)
8-32	8	0.39 (9.9)	60 (90)	7.8 (202)	4.0 (10.1)	300 (1334)	100 (444)
40-48	8	0.43 (10.9)	79 (118)	8.6 (22)	4.5 (11.3)	300 (1334)	100 (444)
Plenum OFNP/FT6 MFCJ (Double Jacket)							
8	single-unit	0.19 (4.7)	15.5 (23)	3.8 (9.4)	2.0 (4.7)	100 (444)	32 (142)
Plenum OFNP/FT6 MFC30AJ Series							
16	single-unit	0.41 (10.4)	70 (104)	8.2 (21)	4.2 (11)	100 (444)	32 (142)
Plenum OFNP/FT6 MFCAJ Series (Interlock Armor)							
8-32	8	0.677 (17.2)	176 (263)	14 (36)	7.0 (18)	300 (1334)	100 (444)
40-48	8	0.704 (17.9)	196 (292)	14 (36)	7.0 (18)	300 (1334)	100 (444)
Plenum OFNP/FT6 MFCZ (Zipcord Style)							
16	2-units of 8 (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)
LSZH Riser OFNR-LS/FT4 MFCL Series – CPR: Dca s1 d1 a1							
8	single-unit	0.12 (3.0)	8 (11)	2.4 (6)	1.3 (3.2)	22 (98)	7 (31)
LSZH Riser OFNR-LS/FT4 MFCL Series							
16	single-unit	0.15 (3.8)	10 (15)	3.0 (7.7)	1.5 (3.9)	50 (222)	16 (74)
LSZH Riser OFNR-LS/FT4 MFCL36 Series – CPR: Dca s1 d1 a1							
16	single-unit	0.14 (3.6)	9 (14)	2.8 (7.2)	1.5 (3.8)	22 (98)	7 (31)

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: 72 fiber micro fiber MFC cable, 3.0 mm subunits, with bend-insensitive single mode fibers (printed in feet)



CABLE INFORMATION	
1 LENGTH MARKINGS	F = Feet or M = Meters
2 PRODUCT FAMILY	DATA CENTER CABLE MFC30 = 8 to 24f Plenum MFC = 8 to 72f Plenum MFCDJ = 8 to 12f Plenum MFC30AJ = 8 to 24f Plenum with Interlock Armor MFCAJ = 12 to 72f Plenum with Interlock Armor MFCZ = 16 to 24f Plenum Zipcord MFCL = 8 to 24f LSZH Riser MFCL36 = 16 to 24f LSZH Riser
3 CONSTRUCTION	(blank) = none
4 FIBER GROUPING	00 = Single unit (8 to 24f) 8 = 8f per unit 12 = 12f per unit

FIBER INFORMATION																															
5 FIBER TYPE	SINGLE-MODE HB = Single-Mode (ITU G.652 C & D) - Not for use in MFC30 or 24f MFC-00 B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D) - Not for use in 24f MFC-00 B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & B2 & G.652.D)																														
	<table border="1"> <thead> <tr> <th>MULTIMODE</th> <th>Wavelength (nm)</th> <th>Bandwidth (MHz)</th> <th>1 GbE Dist (m)</th> <th>10 GbE Dist (m)</th> </tr> </thead> <tbody> <tr> <td>G6 = OM1 (62.5µm)</td> <td>850/1300</td> <td>200/500</td> <td>300/550</td> <td>33/___</td> </tr> <tr> <td>G5 = OM2+ (50µm)</td> <td>850/1300</td> <td>700/500</td> <td>800</td> <td>150/___</td> </tr> <tr> <td>G3 = OM3 (50µm)</td> <td>850/1300</td> <td>1500/500</td> <td>1000</td> <td>300/___</td> </tr> <tr> <td>G4 = OM4 (50µm)</td> <td>850/1300</td> <td>3500/500</td> <td>1100</td> <td>550/___</td> </tr> <tr> <td>GW = OM5 (50µm)</td> <td>850/1300</td> <td>3500/500</td> <td>1200</td> <td>550/___</td> </tr> </tbody> </table>	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/___
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6 FIBER COUNT	008 to 072 fibers																														

7 FIBER GRADE													
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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.													

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