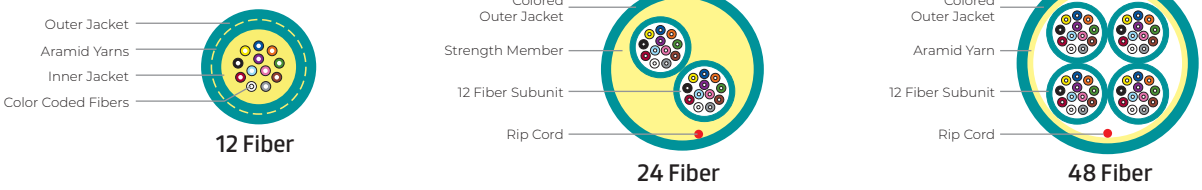
Gen*SPEED*® Micro Fiber MFC | 1.4mm Units

Micro Fiber Cable (MFC)



OVERVIEW

Gen*SPEED* MFC is the ideal cable for data center, co-location and central office facilities where a small diameter, highly flexible cable is desired. Gen*SPEED* 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.

SPECIFICATIONS / RATINGS

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 Fibers
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

CE
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
- 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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Fiber Count	Fibers Per Subunit	Recommended Part Number	Diameter		Cable Weight		Bend Radius UNDER LOAD		Bend Radius NO LOAD		Max Installation LOAD (pull strength)		Max Operation LOAD	
		Prysmian*	inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons
Plenum OFNP/FT6 | MFC14 Series | (1.4 mm sub-units)														
12	1-unit of 12	MFC14-12-AA-012-BB	0.177	4.5	12.5	18.6	3.5	9.0	2.0	4.5	100	444	32	142
24	2-units of 12	MFC14-12-AA-024-BB	0.200	5.1	18.3	27.2	4.0	11.0	2.0	5.1	150	667	45	200
48	4-units of 12	MFC14-12-AA-048-BB	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 | (1.4 mm sub-units)														
12	1-unit of 12	MFCL14-12-AA-012-BB	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	MFCL14-12-AA-024-BB	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	MFCL14-12-AA-048-BB	0.240	6.1	23.8	35.4	4.8	12.2	2.4	6.1	150	667	45	200

* Where AA equals glass type and BB equals attenuation code

Outer Jacket Color Identification

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

Temperature Range

Shipping and Storage:	-40° F to +158° F	(-40° C to +70° C)
Installation:	+32° F to +140° F	(0° C to +60° C)
Operation:	+32° F to +158° F	(0° C to +70° C)

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

Example: GenSPEED 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

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet, M = Meters, or B = BABA Compliant in Feet

2 PRODUCT FAMILY

MFC14 = 12 to 48f Plenum

MFCL14 = 12 to 48f LSZH Riser

3 CONSTRUCTION

(BLANK) = None

4 FIBER GROUPING

12 = 12f per unit

Note: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help. Other cable constructions and fiber performance grades available on request.

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+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___
GW = OM5 (50µm)	850/1300	3500/500	1200	550/___

6 FIBER COUNT

12 to 48 fibers

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	B2

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

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