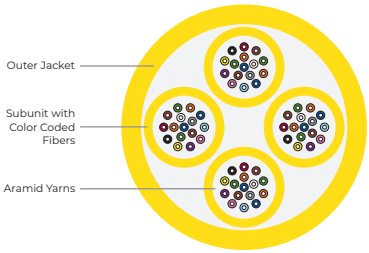
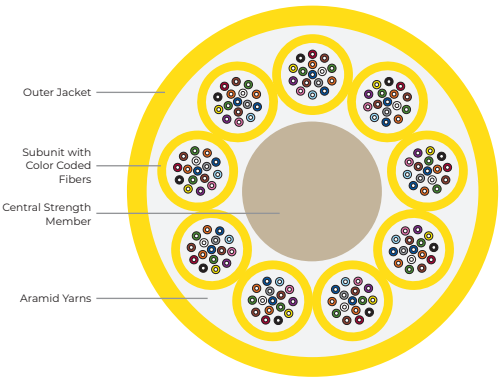
Gen*SPEED*® Micro Fiber MFC 2.4mm Units Plenum Rated

Micro Fiber Cable (MFC24)

16 x 250µm Fibers
2.4mm OD



64f with
16 x 250µm Fibers
per 2.4mm Subunit



144f with
16 x 250µm Fibers
per 2.4mm Subunit

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* MFC cables include compact 2.4mm subunits that can be directly terminated to MPO style connectors.

SPECIFICATIONS / RATINGS

Applications	Routing and patching for indoor communication network locations
Subunit Size	2.4mm diameter
Fiber	250µm fibers for 16f Units
Flame Ratings	Plenum (OFNP/FT6)
Fiber Count	16 to 144 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

Flame-Retardant Safety

- NFPA-262/CSA FT6 OFNP Plenum

Reliable Performance

- Rugged thermoplastic jacket for crush resistance
- Designed and tested to standards-based performance criteria

Prysmian
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TLS-DS-C-207 0826

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Micro Fiber Cable (MFC)

Fiber Count	Fibers Per Unit	Prysmian Part Number	Diameter		Cable Weight		Bend Radius UNDER LOAD (Installation)		Bend Radius NO LOAD (Long Term)		Max Installation LOAD (Pull Strength)		Max Operation LOAD		Max Reel Length	
			inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons	ft	m
MFC24 - 250µm 16 Fibers per Subunit OFNP/FT6																
16	16	MFC24-00-AA-016-BB	0.09	2.4	4	6	1.9	4.8	0.9	2.4	22	98	7	31	41,000	12,500
64	16	MFC24-16-AA-064-BB	0.34	8.7	46	68	6.8	17.4	3.4	8.7	150	668	45	200	41,000	12,500
144	16	MFC24-16-AA-144-BB	0.50	12.7	125	176	9.4	24.0	4.7	12.0	150	668	45	200	41,000	12,500

* Where AA equals glass type and BB equals attenuation code

Outer Jacket Color Identification

Orange	Multimode OM1 and OM2+
Aqua	Multimode OM3 and OM4
Lime Green	Multimode OM5
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)

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Micro Fiber Cable (MFC)

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: Gen*SPEED* 144 fiber micro fiber MFC cable, 2.4mm 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	–	MFC24	–	BLANK	–	16	–	B2	–	144	–	E1

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

MFC24 = Plenum OFP/FT6 Rated Dielectric Cable

3 CONSTRUCTION

(BLANK) = None

4 FIBER GROUPING

00 = Single Unit

16 = 16f per unit (250µm)

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 = 250µm Bend-Insensitive Single-Mode (ITU.G.657.A2&B2 & G.652.D)

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

6 FIBER COUNT

16 to 144 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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