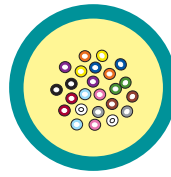


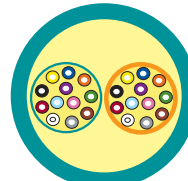
# GenSPEED® Air Blown/Jetting Indoor Cable (MFC Series)

Micro Fiber Cable (MFC) for jetting and air blown installation

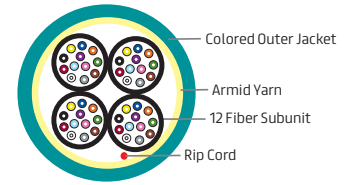
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24 Fiber Round  
3.0 mm



24 Fiber Round  
3.8 mm



48 Fiber

## OVERVIEW

GenSPEED Micro Fiber Cable for Microducts is the ideal cable for blown and jetted applications in data centers, co-locations, and central office facilities where a small diameter, highly flexible cable is needed for optimal blowing and jetting distances in microducts. GenSPEED offers up to 24 x 250 micron color coated fibers in a 3 mm cable design as well as 12 x 250 micron color coated fibers in 1.4 mm subunits with up to 48 fibers per cable. 3 mm cables and 1.4 mm subunits may be directly terminated to MPO style connectors.

## SPECIFICATIONS / RATINGS

**Applications** Routing and patching for indoor communication network locations.  
Blowing and jetting applications into microducts.

**Constructions** 250µm color coded fibers, 12 or 24 fiber groups

**Flame Ratings** Plenum (OFNP/FT6)

**Fiber Count** 8 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



## FEATURES AND BENEFITS

### Blowing and Jetting Applications

- 3.0 to 3.8 mm cables with up to 24 fibers have demonstrated the capability of being blown/jetted into a 6 mm ID plenum microduct with distances over 2000 feet at speeds averaging 230 ft/min.
- 4.5 mm cables with up to 12 fibers have demonstrated the capability of being blown/jetted into an 8 mm ID plenum microduct with distances over 1800 feet at speeds averaging 200 ft/min.
- 5.1 to 5.7 mm cables with up to 48 fibers have demonstrated the capability of being blown/jetted into a 10 mm ID plenum microduct with distances over 1800 feet at speeds averaging 200 ft/min.

### 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

- 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 & tested to standards-based performance criteria

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TLS-DS-C-204-0323

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Micro Fiber Cable (MFC) for jetting and air blown installation

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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/ft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons

## Plenum OFNP/FT6 | MFC30 Series

24	single unit	MFC30-00-AA-024-BB	0.12	3.0	8	12	1.9	4.8	1.3	3.2	100	444	32	142
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## Plenum OFNP/FT6 | MFC Series

8	single unit	MFC-00-AA-008-BB	0.12	3.0	8	11	1.9	4.8	1.3	3.2	22	98	7	31
12	single unit	MFC-00-AA-012-BB	0.12	3.0	8	11	1.9	4.8	1.3	3.2	22	98	7	31
24	single unit	MFC-00-AA-024-BB	0.15	3.8	10	15	3.0	7.7	1.5	3.9	50	222	16	74

## 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	1.8	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	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

\* 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 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:** GenSPEED 24 fiber MFC30 cable with bend-insensitive singlemode fibers (printed in feet)



PART NUMBER CONSTRUCTION	
<b>1 LENGTH MARKINGS</b>	F = Feet or M = Meters
<b>2 PRODUCT FAMILY</b>	MFC = 8 to 24f Plenum MFC30 = 248f Plenum MFC14 = 12 to 24 Plenum
<b>3 CONSTRUCTION</b>	(BLANK) = None
<b>4 FIBER GROUPING</b>	00 = single unit (8f to 24f) 12 = 12f per unit or tube (MFC14)
<b>5 FIBER TYPE</b>	<b>SINGLE-MODE</b> HB = Single-Mode (ITU G.652 C & D) - MFC only 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)

FIBER INFORMATION					
<b>5 FIBER TYPE</b>	<b>MULTIMODE</b>	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/___
<b>6 FIBER COUNT</b>	8 to 48 fibers				
<b>7 FIBER GRADE</b>	<b>SINGLE-MODE</b>	Attenuation (dB/km)	Wavelength (nm)	Fiber Type	
	E1 = 0.40/0.40/0.30		1310/1383/1550	HB, B1 or B2	
	<b>MULTIMODE</b>	Attenuation (dB/km)	Wavelength (nm)		
	M2 = 3.5/1.0		850/1300		
	M3 = 3.0/1.0		850/1300		

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.

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