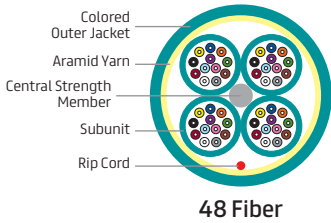


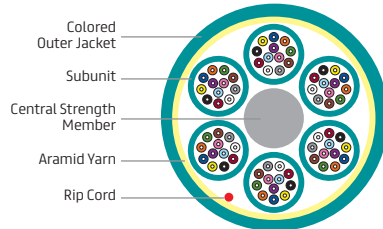
# GenSPEED® Micro Fiber MFC | 2 mm Units

Micro Fiber Cable (MFC)

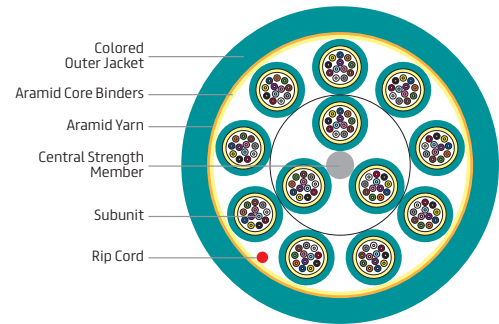
# Prysmian



48 Fiber



72 Fiber



144 Fiber (9-3)

## OVERVIEW

GenSPEED MFC is the ideal cable for data center, co-location and central office facilities where a small diameter, highly flexible cable is desired. GenSPEED MFC cables include compact 2.0mm subunits that can be directly terminated to MPO style connectors. Each subunit contains 8 or 12 color-coded, 250-micron fibers.

## SPECIFICATIONS / RATINGS

**Applications** Routing and patching for indoor communication network locations

**Subunit Size** 2.0 mm diameter subunits

**Fiber** 250  $\mu$ m fibers, 8 and 12 fibers per subunit

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

**Fiber Count** 8 to 216 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

### 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 with 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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## Prysmian Group

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TLS-DS-C-202-0323

# GenSPEED® Micro Fiber MFC | 2 mm Units

Micro Fiber Cable (MFC)

# Prysmian

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	
			inches	mm	lb/kft	kg/km	inches	cm	inches	cm	lbs	newtons	lbs	newtons

## MFC20 – Base 12 Nominal Design Parameters

2-12	Single Unit	MFC20-00-AA-012-BB	0.08	2.0	3	5	1.6	4	0.8	2	9	40	2.7	12
12-48**	12	MFC20-12-AA-048-BB	0.30	7.5	45	66	6	15	3	7.5	100	444	32	142
12-72**	12	MFC20-12-AA-072-BB	0.35	8.8	59	88	7	18	3.5	9	150	667	45	200
96-108	12	MFC20-12-AA-096-BB	0.43	10.8	90	134	9	22	4.5	11	150	667	45	200
96-144	12	MFC20(9-3)-12-AA-144-BB	0.375	9.5	62.5	93	7.5	19	3.75	9.5	150	667	45	200
144	12	MFC20(12-1)-12-AA-144-BB	0.52	13.1	128	191	11	27	5.5	13.5	150	667	45	200
216	12	MFC20-12-AA-216-BB	0.53	13.3	114	170	11	27	5.5	13.5	150	667	45	200

## MFC20 – Link8™ (Base 8) Nominal Design Parameters

8	Single Unit	MFC20-00-AA-008-BB	0.08	2.0	3	5	1.6	4	0.8	2	9	40	2.7	12
8-32**	8	MFC20-08-AA-032-BB	0.30	7.5	45	66	6	15	3	7.5	100	444	32	142
8-48**	8	MFC20-08-AA-048-BB	0.35	8.8	59	88	7	18	3.5	9	150	667	45	200
72	8	MFC20-08-AA-072-BB	0.43	10.8	90	134	9	22	4.5	11	150	667	45	200
64-96	8	MFC20(9-3)-08-AA-144-BB	0.375	9.5	62.5	93	7.5	19	3.75	9.5	150	667	45	200
96	8	MFC20(12-1)-08-AA-096-BB	0.52	13.1	128	191	11	27	5.5	13.5	150	667	45	200
144	8	MFC20-08-AA-144-BB	0.53	13.3	114	170	11	27	5.5	13.5	150	667	45	200

## MFC20AJ – Base 12 Nominal Design Parameters

12-48**	12	MFC20AJ-12-AA-048-BB	0.59	14.9	139	206	12	30	6	15	100	444	32	142
12-72**	12	MFC20AJ-12-AA-072-BB	0.63	16.1	161	239	13	33	6.5	16	150	667	45	200
96-108	12	MFC20AJ-12-AA-096-BB	0.71	18.1	221	328	14	37	7	18	150	667	45	200
144	12	MFC20AJ(12-1)-12-AA-144-BB	0.83	21.1	318	473	17	43	8.5	21	150	667	45	200

## MFC20AJ – Link8™ (Base 8) Nominal Design Parameters

8-32**	8	MFC20AJ-08-AA-032-BB	0.59	14.9	139	206	12	30	6	15	100	444	32	142
8-48**	8	MFC20AJ-08-AA-048-BB	0.63	16.1	161	239	13	33	6.5	16	150	667	45	200
72	8	MFC20AJ-08-AA-072-BB	0.71	18.1	221	328	14	37	7	18	150	667	45	200
96	8	MFC20AJ(12-1)-08-AA-096-BB	0.83	21.1	318	473	17	43	8.5	21	150	667	45	200

\* Where AA equals glass type and BB equals attenuation code

\*\* Installation temperature range of 5°C to +60°C

### 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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TLS-DS-C-202-0323

## 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 144 fiber micro fiber MFC cable, 2.0 mm subunits, with bend-insensitive single mode fibers (printed in feet)

<b>1</b> LENGTH MARKINGS	<b>2</b> PRODUCT FAMILY	<b>3</b> CONSTRUCTION	<b>4</b> FIBER GROUPING	<b>5</b> FIBER TYPE	<b>6</b> FIBER COUNT	<b>7</b> FIBER GRADE
F	MFC20	BLANK	12	B1	144	E1

PART NUMBER CONSTRUCTION	
<b>1</b>	<b>LENGTH MARKINGS</b>
F = Feet or M = Meters	
<b>2</b>	<b>PRODUCT FAMILY</b>
MFC20 = 8 to 216f Plenum (216f SM only)	
MFC20 (12-1) = Base 12 144f Plenum and Base 8 96f Plenum	
MFC20 (9-3) = Base 12 144f Plenum and Base 8 96f Plenum	
MFC20AJ = 8 to 144f Plenum with Interlock Armor	
<b>3</b>	<b>CONSTRUCTION</b>
(BLANK) = None	
<b>4</b>	<b>FIBER GROUPING</b>
00 = Single Unit (2 to 12f)	
08 = 8f per unit	
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				
<b>5</b>	<b>FIBER TYPE</b>			
<b>SINGLE-MODE</b>				
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)				
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)				
<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+ 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/___
<b>6</b>	<b>FIBER COUNT</b>			
8 to 216 fibers				
<b>7</b>	<b>FIBER GRADE</b>			
<b>SINGLE-MODE</b>				
Attenuation (dB/km)	Wavelength (nm)	Fiber Type		
E1 = 0.40/0.40/0.30	1310/1383/1550	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			