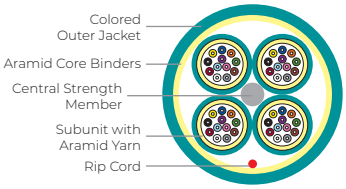
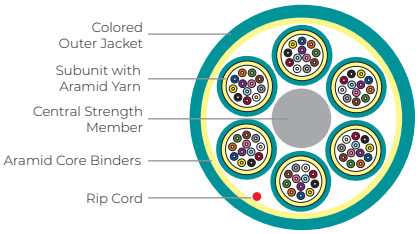
Gen*SPEED*® Micro Fiber MFC | 2 mm Units

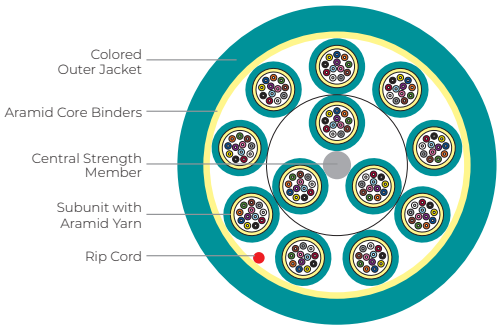
Micro Fiber Cable (MFC)



4 Position



6 Position



12 Position

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 2.0mm subunits that can be directly terminated to MPO style connectors.

SPECIFICATIONS / RATINGS

Applications	Routing and patching for indoor communication network locations
Subunit Size	2.0 mm diameter subunits
Fiber	250 µm fibers, 8 and 12 fibers per subunit 200 µm fibers, 16 fibers per subunit
Flame Ratings	Plenum (OFNP/FT6)
Fiber Count	8 to 288 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

- 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

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-C-202-1026

GenSPEED® Micro Fiber MFC | 2 mm Units

Micro Fiber Cable (MFC)

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
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
60-72**	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
40-48**	8	MFC20-08-AA-048-BB	0.35	8.8	59	88	7	18	3.5	9	150	667	45	200
64-72	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-096-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
60-72**	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
40-48**	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
MFC20 200µm - Base 16 Nominal Design Parameters (200um Fiber)														
16	Single Unit	MFC20-00-2X-016-BB	0.08	2.0	3	5	1.6	4	0.8	2	9	40	2.7	12
16-64	16	MFC20-16-2X-064-BB	0.30	7.5	45	66	6	15	3	7.5	100	444	32	142
80-96	16	MFC20-16-2X-096-BB	0.35	8.8	59	88	7	18	3.5	9	150	667	45	200
112-128	16	MFC20-16-2X-128-BB	0.43	10.8	90	134	9	22	4.5	11	150	667	45	200
144-192	16	MFC20-16-2X-144-BB	0.375	9.5	62.5	93	7.5	19	3.75	9.5	150	667	45	200
208-288	16	MFC20-16-2X-288-BB	0.52	13.1	128	191	11	27	5.5	13.5	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)

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-C-202-1026

Gen*SPEED*® Micro Fiber MFC | 2 mm Units

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, 2.0 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	– MFC20	BLANK	– 12	– B1	– 144	– E1

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

MFC20 = 8 to 216f Plenum (216f SM only) and 16 to 288f with 200um Fiber Plenum
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

3 CONSTRUCTION

(BLANK) = None

4 FIBER GROUPING

00 = Single Unit (2 to 12f)
08 = 8f per unit
12 = 12f per unit
16 = 16f 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

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)

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

8 to 216 fibers

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	B1 or B2

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

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-C-202-1026