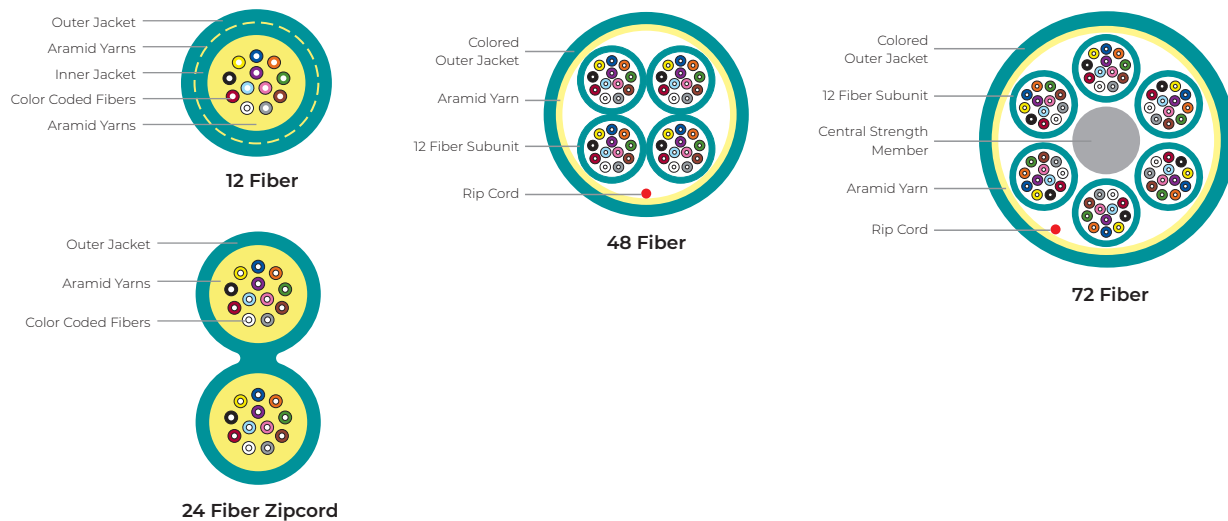


GenSPEED® Micro Fiber MFC | 3 to 3.8 mm Units

Micro Fiber Cable (MFC)



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 offers 8, 12 and 24, 250 micron color coded fibers in 3.0 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 3.0 mm diameter subunits

Fiber 250 μ m fibers, 8, 12, 16 and 24 fibers per subunit

Flame Ratings Plenum (OFNP/FT6), LSZH Riser (OFNR-LS/FT4-ST1) IEC 60332-1 and IEC 60332-3-24

Fiber Count 8 to 72 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

Options Interlock Armor

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
- UL1666, UL1685 LSZH Riser
- IEC 60332

Reliable Performance

- Available option for incorporating bendinsensitive 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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Base 12

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	2.4	6	1.3	3.2	100	444	32	142
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Plenum OFNP/FT6 | MFC Series

12	single-unit	MFC-00-AA-012-BB	0.12	3.0	8	11	2.4	6	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
12-48	12	MFC-12-AA-048-BB	0.39	9.9	60	90	7.8	20	4.0	10.1	300	1334	100	444
60-72	12	MFC-12-AA-072-BB	0.43	10.9	79	118	8.6	22	4.5	11.3	300	1334	100	444

Plenum OFNP/FT6 | MFC36 Series

24	single-unit	MFC36-00-AA-024-BB	0.14	3.6	9	14	2.8	7.2	1.5	3.8	22	98	7	31
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Plenum OFNP/FT6 | MFCDJ (Double Jacket)

12	single-unit	MFCDJ-00-AA-012-BB	0.19	4.7	15.5	23	3.8	9.4	2.0	4.7	100	444	32	142
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Plenum OFCP/FT6 | MFC30AJ Series (Interlock Armor)

24	single-unit	MFC30AJ-00-AA-024-BB	0.41	10.4	70	104	8.2	21	4.2	11	100	444	32	142
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Plenum OFCP/FT6 | MFCAJ Series (Interlock Armor)

12-48	12	MFCAJ-12-AA-048-BB	0.677	17.2	176	263	14	36	7.0	18	300	1334	100	444
60-72	12	MFCAJ-12-AA-072-BB	0.704	17.9	196	292	14	36	7.0	18	300	1334	100	444

Plenum OFNP/FT6 | MFCZ (Zipcord Style)

24	2-units of 12 (3mm Subunits)	MFCZ-00-AA-024-BB	0.114 x 0.246	2.9 x 6.25	10.6	15.8	3.0	7.7	1.5	3.9	50	222	16	74
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LSZH Riser OFNR-LS/FT4 | MFCL Series

12	single-unit	MFCL-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	MFCL-00-AA-024-BB	0.15	3.8	10	15	3.0	7.7	1.5	3.9	50	222	16	74

LSZH Riser OFNR-LS/FT4 | MFCL36 Series

24	single-unit	MFCL36-00-AA-024-BB	0.14	3.6	9	14	2.8	7.2	1.5	3.8	22	98	7	31
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* 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)



GenSPEED® Micro Fiber MFC | 3 to 3.8 mm Units

Micro Fiber Cable (MFC)



Base 8

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 | MFC30 Series

16	single-unit	MFC30-00-AA-016-BB	0.12	3.0	8	12	2.4	6	1.3	3.2	100	444	32	142
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Plenum OFNP/FT6 | MFC Series 3mm

8	single-unit	MFC-00-AA-008-BB	0.12	3.0	8	11	2.4	6	1.3	3.2	22	98	7	31
16	single-unit	MFC-00-AA-016-BB	0.15	3.8	10	15	3.0	7.7	1.5	3.9	50	222	16	74
8-32	8	MFC-12-AA-032-BB	0.39	9.9	60	90	7.8	20	4.0	10.1	300	1334	100	444
40-48	8	MFC-12-AA-048-BB	0.43	10.9	79	118	8.6	22	4.5	11.3	300	1334	100	444

Plenum OFNP/FT6 | MFC36 Series

16	single-unit	MFC36-00-AA-016-BB	0.14	3.6	9	14	2.8	7.2	1.5	3.8	22	98	7	31
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Plenum OFCP/FT6 | MFCAJ Series (Interlock Armor)

8-32	8	MFCAJ-12-AA-032-BB	0.677	17.2	176	263	14	36	7.0	18	300	1334	100	444
40-48	8	MFCAJ-12-AA-048-BB	0.704	17.9	196	292	14	36	7.0	18	300	1334	100	444

Plenum OFNP/FT6 | MFCZ (Zipcord Style)

16	2-units of 8 (3mm Subunits)	MFCZ-00-AA-016-BB	0.114 x 0.246	2.9 x 6.25	10.6	15.8	3.0	7.7	1.5	3.9	50	222	16	74
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LSZH Riser OFNR-LS/FT4 | MFCL Series

8	single-unit	MFCL-00-AA-008-BB	0.12	3.0	8	11	2.4	6	1.3	3.2	22	98	7	31
16	single-unit	MFCL-00-AA-016-BB	0.15	3.8	10	15	3.0	7.7	1.5	3.9	50	222	16	74

LSZH Riser OFNR-LS/FT4 | MFCL36 Series

16	single-unit	MFCL36-00-AA-016-BB	0.14	3.6	9	14	2.8	7.2	1.5	3.8	22	98	7	31
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* 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 72 fiber micro fiber MFC cable, 3.0 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		MFC		BLANK		12		B1		072		E1	

PART NUMBER CONSTRUCTION	
1	LENGTH MARKINGS
F = Feet or M = Meters	
2	PRODUCT FAMILY
MFC30 = 8 to 24f Plenum	
MFC = 8 to 72f Plenum	
MFC36 = 8 to 24f Plenum	
MFCDJ = 8 to 12f Plenum	
MFC30AJ = 8 to 24f Plenum with Interlock Armor	
MFCAJ = 12 to 72f Plenum with Interlock Armor	
MFCZ = 16 to 24f Plenum Zipcord	
MFCL = 8 to 24f LSZH Riser	
MFCL36 = 16 to 24f LSZH Riser	
3	CONSTRUCTION
(BLANK) = None	
4	FIBER GROUPING
00 = Single Unit (8 to 24f)	
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				
5	FIBER TYPE			
SINGLE-MODE				
HB = Single-Mode (ITU G.652 C & D) - Not for use in MFC30 or 24f MFC-00				
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D) - Not for use in 24f MFC-00				
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 72 fibers				
7	FIBER GRADE			
SINGLE-MODE				
Attenuation (dB/km)	Wavelength (nm)		Fiber Type	
E1 = 0.40/0.40/0.30	1310/1383/1550		HB, B2 or B2	
MULTIMODE				
Attenuation (dB/km)	Wavelength (nm)			
M2 = 3.5/1.0	850/1300			
M3 = 3.0/1.0	850/1300			