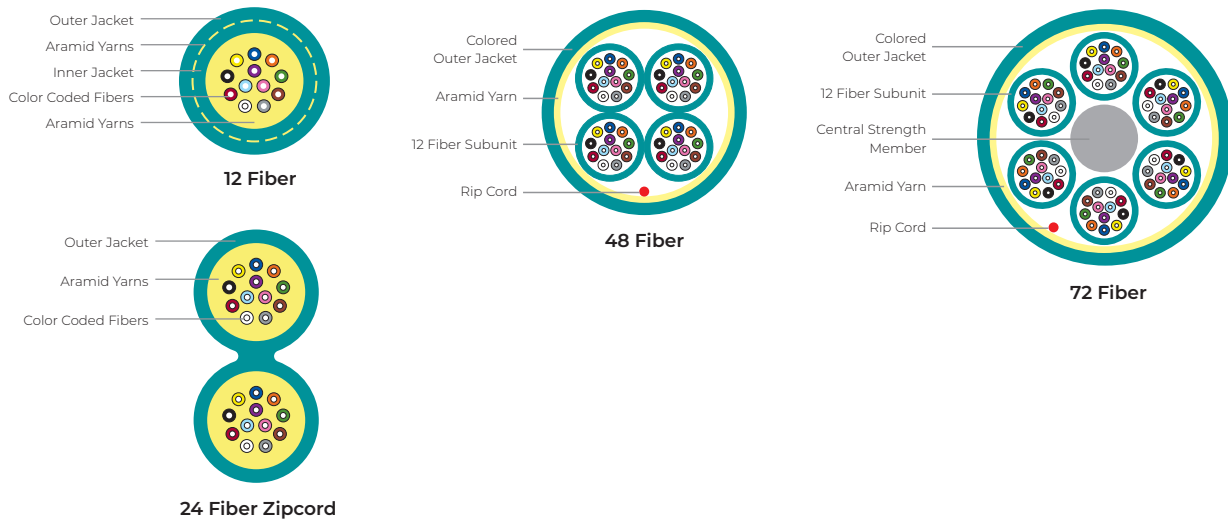


# GenSPEED® Micro Fiber MFC | 3 to 3.8 mm Units

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  $\mu$ m fibers, 8, 12 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 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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## 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 |         |
|-------------|--------------------|-------------------------|----------|----|--------------|-------|------------------------|----|---------------------|----|---------------------------------------|---------|--------------------|---------|
|             |                    |                         | inches   | mm | lb/kft       | 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 |
|----|-------------|--------------------|------|-----|---|----|-----|---|-----|-----|-----|-----|----|-----|

### 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 | 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 |
|----|-------------|--------------------|------|-----|------|----|-----|-----|-----|-----|-----|-----|----|-----|

### 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 |
|----|-------------|----------------------|------|------|----|-----|-----|----|-----|----|-----|-----|----|-----|

### 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 |
|----|------------------------------|-------------------|---------------|------------|------|------|-----|-----|-----|-----|----|-----|----|----|

### 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 |
|----|-------------|---------------------|------|-----|---|----|-----|-----|-----|-----|----|----|---|----|

\* 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)   |



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# 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 |         |
|-------------|--------------------|-------------------------|----------|----|--------------|-------|------------------------|----|---------------------|----|---------------------------------------|---------|--------------------|---------|
|             |                    |                         | 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 |
|----|-------------|--------------------|------|-----|---|----|-----|---|-----|-----|-----|-----|----|-----|

### 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 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 |
|----|-----------------------------|-------------------|---------------|------------|------|------|-----|-----|-----|-----|----|-----|----|----|

### 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 |
|----|-------------|---------------------|------|-----|---|----|-----|-----|-----|-----|----|----|---|----|

\* 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)



## 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                       |                        |
|--|------------------------|
| <b>1</b>                                       | <b>LENGTH MARKINGS</b> |
| F = Feet or M = Meters                         |                        |
| <b>2</b>                                       | <b>PRODUCT FAMILY</b>  |
| MFC30 = 8 to 24f Plenum)                       |                        |
| MFC = 8 to 72f 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                  |                        |
| <b>3</b>                                       | <b>CONSTRUCTION</b>    |
| (BLANK) = None                                 |                        |
| <b>4</b>                                       | <b>FIBER GROUPING</b>  |
| 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  |                        |                        |                       |                        |
|--|------------------------|------------------------|-----------------------|------------------------|
| <b>5</b>   | <b>FIBER TYPE</b>      |                        |                       |                        |
| <b>SINGLE-MODE</b>   |                        |                        |                       |                        |
| 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)                      |                        |                        |                       |                        |
| <b>MULTIMODE</b>   | <b>Wavelength (nm)</b> | <b>Bandwidth (MHz)</b> | <b>1 GbE Dist (m)</b> | <b>10 GbE Dist (m)</b> |
| 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 72 fibers   |                        |                        |                       |                        |
| <b>7</b>   | <b>FIBER GRADE</b>     |                        |                       |                        |
| <b>SINGLE-MODE</b>   |                        |                        |                       |                        |
| <b>Attenuation (dB/km)</b>   | <b>Wavelength (nm)</b> | <b>Fiber Type</b>      |                       |                        |
| E1 = 0.40/0.40/0.30  | 1310/1383/1550         | HB, B2 or B2           |                       |                        |
| <b>MULTIMODE</b>   |                        |                        |                       |                        |
| <b>Attenuation (dB/km)</b>   | <b>Wavelength (nm)</b> |                        |                       |                        |
| M2 = 3.5/1.0   | 850/1300               |                        |                       |                        |
| M3 = 3.0/1.0   | 850/1300               |                        |                       |                        |



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