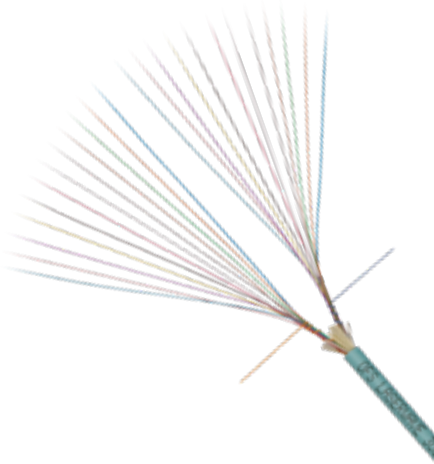




A Furukawa Company

# M-Pack® Interconnect Multi-Fiber Cordage

Compact Cordage Offers Increased Energy Efficiency and Cost-Saving Opportunities



## Features and Benefits

- Small diameter, lightweight cordage allows ease of deployment and termination
- Ideal for use in high-density, high-bandwidth applications and optimized for use with multi-fiber connectors
- RoHS compliant and environmentally friendly; free of heavy metals and polybrominated fire retardants
- Available with OFS' industry-leading LaserWave® Multimode Fibers and other fibers

## Product Description

When you need a compact cordage solution for data centers or other high-density, high-bandwidth applications, look to the OFS M-Pack® Interconnect Cordage. Designed for use with multifiber connectors, this cordage helps save on energy costs and valuable space while offering outstanding performance.

The M-Pack Cordage features color-coded 250 μm optical fibers combined with aramid yarns under a structural flame rated jacket. The M-Pack family is offered in three jacket ratings; Plenum, Riser and CPR flame ratings. Plenum rated products range from 2 to 48 fibers, Riser rated 2 to 12 fibers while the CPR rated (LSZH) feature 2 to 12 fibers. For 2 to 12 fiber cordages, the individual fibers are identified by easily-distinguishable TIA-598 compliant colors. In cordages with fiber counts of 16 to 48, the fibers are held loosely together by polyester threads for bundle identification<sup>1</sup>.

Now available in 1.6 mm, 2.0 mm, 2.3 mm or 3.0 mm diameters!

Plenum Rated Specifications (OFNP)							
Fiber Count	2-12	2-12	16	24	32	36	48
Cable Outer Diameter - mm. (in.)	2.0 (0.08)	3.0 (0.12)	3.8 (0.15)	4.5 (0.18)	4.5 (0.18)	4.8 (0.19)	4.8 (0.19)
Version	C	B	B	B	B	A	A
Fiber Bundles			2x8 Colors	2x12 Colors	4x8 Colors	3x12 Colors, 1xFillers	4x12 Colors

**NOTE:** Fiber bundles are bound by colored thread: blue, orange, green, brown

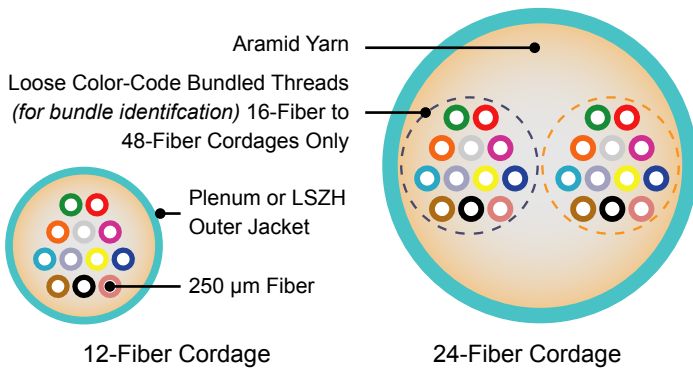
Riser Rated Specifications			
	MP16-R	MP20-R	MP23-R
Fiber Count	2-8	2-12	16
Cable Outer Diameter - mm. (in.)	1.6 (0.06)	2.0 (0.08)	2.3 (0.09)
Flame Rating	OFNR	OFNR	OFNR
Version	A	B	M
CPR Rating	N/A	Cca-s2, d0, a3	Cca-s2, d0, a3
DoP Lookup: <a href="http://www.ofs-sales.com/cpr/">www.ofs-sales.com/cpr/</a>	N/A	MP20-XXX-B-R or MPH-XXX-B-R* (XXX = Fiber Count)	MP23-XXX-M-R or MPH-016-M-R

\* **NOTE:** MPH is an FTTx Version of MP20 and MP23 OFNR.

LSZH Jacket Specifications			
	MP16-H	MP20-H	MP30-H
Fiber Count	2-8	2-12	2-12
Cable Outer Diameter - mm. (in.)	1.6 (0.06)	2.0 (0.08)	3.0 (0.12)
Flame Rating	LSZH 60332-3C		
Version	A	A	B
CPR Rating	Dca-s1b, d0, a1	Cca-s2, d0, a1	Cca-s1a, d0, a1
DoP Lookup: <a href="http://www.ofs-sales.com/cpr/">www.ofs-sales.com/cpr/</a>	MP16-XXX-A-H	MP20-XXX-A-H	MP30-XXX-B-H

<sup>1</sup> The fiber bundles consist of two groups of 8 fibers for the 16-fiber cordage; two groups of 12 fibers for the 24-fiber cordage; four groups of 8 fibers for the 32-fiber cordage; three groups of 12 fibers for the 36-fiber cordage; and four groups of 12 fibers for the 48-fiber cordage.

## M-Pack® Interconnect Cordage Cross Section



Mechanical and Environmental Performance	
Tested per Applicable Requirements of ICEA S-85-596, NEC 770, NEC type-DP, ANSI FDDI, IEEE 802(s), ISO/IEC 11801, TIA 568 and 598, ANSI-X3(s), ATM, Fiber Channel and HIPPI	
Temperature Range	
<b>Installation</b>	-20 °C to 60 °C (-4 °F to 140 °F)
<b>Operation (SM)</b>	-20 °C to 70 °C (-4 °F to 158 °F)
<b>Operation (MM)</b>	0 °C to 70 °C (32 °F to 158 °F)
<b>Storage and Shipping</b>	-40 °C to 70 °C (-40 °F to 158 °F)
Maximum Tensile Rating	
100 N (22 lb)	

Fiber Type					
Code	Single-Mode Descriptor	Grade	1310 nm	1550 nm	MCA (Z)
W	AllWave® FLEX+ ZWP Bend-Optimized Single-Mode Optical Fiber	G.657.A2	0.4 (dB/km)	0.3	4
9	AllWave FLEX Max Bend-Optimized Single-Mode Optical Fiber	G.657.B3 & G.652.D	0.4	0.3	4
Code	Multimode Descriptor	Grade	850 nm	1300 nm	MCA (Z)
K	LaserWave® FLEX G+ Multimode Optical Fiber	OM2	3.5	1.5	G
3	LaserWave FLEX 300 Multimode Optical Fiber	OM3	3.5	1.5	G
5	LaserWave FLEX 550 Multimode Optical Fiber	OM4	3.5	1.5	G
4	LaserWave WideBand Multimode Optical Fiber	OM5	3.5	1.5	G

### M-Pack Interconnect Cordage Ordering Information

Example: MP38-024B-5PA-G-12-250<sup>1</sup>

Short Description: MPNN-NNNV-WXY-Z-UU-DDD

<b>MP = M-Pack Loose Interconnect</b>	<b>X = Jacket Material (Flame Retardant)</b> P = Plenum H = Low Smoke/Zero Halogen (CPR Rated) R = Riser
<b>NN = Cordage Size</b> 16 = 1.6 mm M-Pack Cordage (2-8 Fibers) 20 = 2.0 mm M-Pack Cordage (2-12 Fibers) 23 = 2.3 mm M-Pack Cordage (16 Fibers) 30 = 3.0 mm M-Pack Cordage (2-12 Fibers) 38 = 3.8 mm M-Pack Cordage (16 & 24 Fibers) 45 = 4.5 mm M-Pack Cordage (32 Fibers) 48 = 4.8 mm M-Pack Cordage (36 & 48 Fibers)	<b>Y = Jacket Color</b> Y = Yellow (Single-mode Optical Fiber) O = Orange (62.5/125 µm Multimode Optical Fiber) A = Aqua (LaserWave FLEX Optical Fiber)
<b>NNN = Fiber Count: 002-012, 016, 024, 032, 036 or 048</b>	<b>Z = Maximum Cable Attenuation (See Chart)</b>
<b>V = Version (See Chart)</b>	<b>UU = Fiber Groupings or Ribbon Type = 08, 12 or 16</b>
<b>W = Fiber Type (See Chart)</b>	<b>DDD = Fiber Outer Diameter = 250 µm</b>

\* NOTE: Other colors available upon customer request.

<sup>1</sup> Part number shown is for a 3.8 mm LaserWave FLEX 550 OM4 Laser-Optimized Multimode Fiber Plenum-Rated (OFNP) Cordage with aqua jacket, 24 250 micron fibers and standard cable print: **OFS M-PACK® LASERWAVE FLEX 550 OM4 BIF OPTICAL CABLE -C- MP38-024B-5PA-G-12-250 50/125 C (UL) US TYPE OFNP [CSA OFN FT4 FT6] [MM/YY] {LOT NUMBER} {LENGTH IN FEET}**



For additional information please contact your sales representative.

You can also visit our website at [www.ofsoptics.com](http://www.ofsoptics.com) or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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