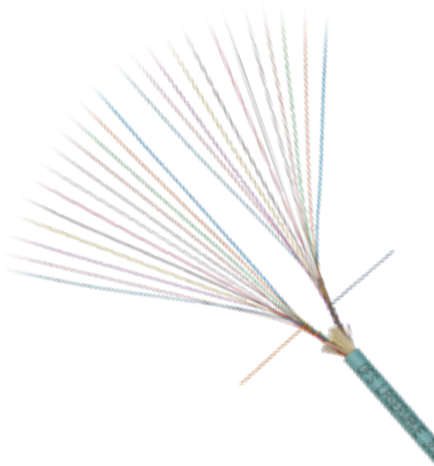




A Furukawa Company

# 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 in fiber counts from 2 to 48 (Plenum-Rated) and 2 to 12 (LSZH-Rated); also offered in an Indoor/Outdoor Simplex LSZH design. Ask for details.
- Plenum cordage meets requirements of NFPA 262 OFNP flame and smoke performance; LSZH cordage meets IEC 60332-3C standards
- 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 Plenum-Rated Cordage features 2 to 48 color-coded 250 μm optical fibers. The Low Smoke/Zero Halogen Cordage features 2 to 24 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>. The fibers are surrounded by aramid yarn for reinforcement and then covered with a flame-retardant outer jacket to complete the construction.

Now available in 2.0 mm or 3.0 mm diameters!

Plenum Rated Specifications (OFNP)															
Fiber Count	2	4	6	8	12	2/4	6	8	12	16	24	32	36	48	
<b>Cable Outer Diameter - mm. (in.)</b>	2.0 (0.08)					3.0 (0.12)					3.8 (0.15)		4.5 (0.18)		4.8 (0.19)
<b>Cable Weight - lb/kft (kg/km)</b>	2.4 (3.6)	2.6 (3.9)	2.8 (4.1)	3.0 (4.4)	3.3 (4.9)	5.5 (8.2)	5.6 (8.4)	5.8 (8.7)	6.2 (9.2)	8.5 (12.6)	9.2 (13.7)	11.6 (17.2)	13.1 (20.1)	13.7 (20.4)	
<b>Version</b>	C	C	C	C	C	B	B	B	B	B	B	B	A	A	
<b>Fiber Bundles</b>										2x8 Colors	2x12 Colors	4x8 Colors	3x12 Colors, 1xFillers	4x12 Colors	

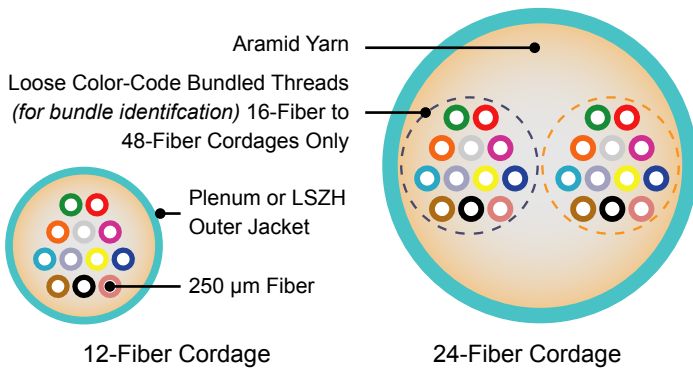
**NOTE:** Fiber bundles are bound by colored thread: blue, orange, green, brown

Riser Rated and LSZH Specifications									
	MP20-R*		MP20-H		MP30-H				
Fiber Count	2-12		2-12		2	4	6	8	12
<b>Cable Outer Diameter - mm. (in.)</b>	2.0 (0.08)		2.0 (0.08)		3.0 (0.12)				
<b>Cable Weight - lb/kft (kg/km)</b>	2.4 (3.6) - 3.3 (4.9)		2.6 (3.9) - 3.5 (5.2)		4.7 (7.0)	4.8 (7.1)	4.9 (7.2)	5.0 (7.4)	5.1 (7.6)
<b>Flame Rating</b>	OFNR		LSZH 60332-3C		LSZH 60332-3C				
<b>Version</b>	B		A		B	B	B	B	B
<b>CPR Rating</b>	B2ca-s2, d0, a3		Dca-s1, d0, a1		Cca-s1a, d0, a1				
<b>DoP Lookup: www.ofs-sales.com/cpr/</b>	MP20-XXX-B-R or MPHw-XXX-B-R (XXX = Fiber Count)		MP20-XXX-A-H		MP30-XXX-B-H				

\* **NOTE:** MPHw is an FTTx Version of MP20 OFNR.

<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 (0 °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<sup>1</sup>

Part Number: **MPNN-NNNC-W X Y-Z**

<b>MP</b> = M-Pack	<b>W</b> = Fiber Type (see chart)
<b>NN</b> = Cordage Size	<b>X</b> = Jacket Material (flame retardant)
<b>20</b> = 2.0 mm M-Pack Cordage (2-12 Fibers)	<b>P</b> = Plenum
<b>30</b> = 3.0 mm M-Pack Cordage (2-12 Fibers)	<b>H</b> = Low Smoke/Zero Halogen (CPR Rated)
<b>38</b> = 3.8 mm M-Pack Cordage (16 & 24 Fibers)	<b>R</b> = Riser
<b>45</b> = 4.5 mm M-Pack Cordage (32 Fibers)	<b>Y</b> = Jacket Color
<b>48</b> = 4.8 mm M-Pack Cordage (36 & 48 Fibers)	<b>Y</b> = Yellow (Single-mode Optical Fiber)
<b>NNN</b> = Fiber Count: 002-012, 016, 024, 032, 036 or 048	<b>O</b> = Orange (62.5/125 µm Multimode Optical Fiber)
<b>C</b> = Version (see chart)	<b>A</b> = Aqua (LaserWave FLEX Optical Fiber)
	<b>Z</b> = Maximum Cable Attenuation (see chart)

\* **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 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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