



A Furukawa Company

M-Pack® Interconnect Cordage Multi-Fiber

Compact Cordage Offers Increased Energy Efficiency and Cost-Saving Opportunities



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 identification¹. 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 2.0mm or 3.0mm diameters!

Features and Benefits

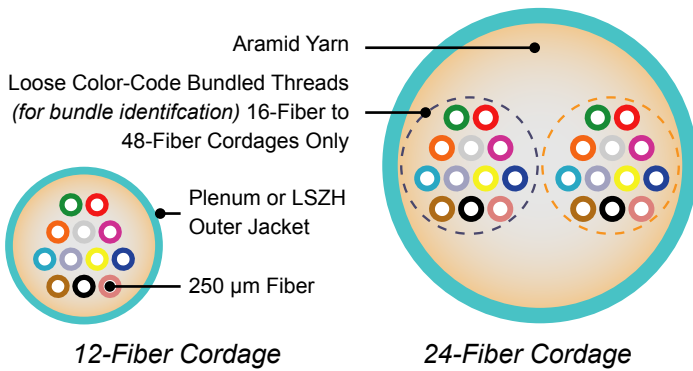
- Small diameter, lightweight cordage allows ease of deployment and termination
- Ideal for use in high-density, high-bandwidth applications and optimized for use with multi-fiber connectors
- RoHS compliant and environmentally friendly; free of heavy metals and polybrominated fire retardants
- Available 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

Fiber Count	Cable Outer Diameter- mm. (in)	Cable Weight- lb/kft (kg/km)	Fiber Bundles	Flame Rating	Version
2	2.0 (0.08)	2.4 (3.6)		OFNP	C
4	2.0 (0.08)	2.6 (3.9)		OFNP	C
6	2.0 (0.08)	2.8 (4.1)		OFNP	C
8	2.0 (0.08)	3.0 (4.4)		OFNP	C
12	2.0 (0.08)	3.3 (4.9)		OFNP	C
4	3.0 (0.12)	5.5 (8.2)		OFNP	B
6	3.0 (0.12)	5.6 (8.4)		OFNP	B
8	3.0 (0.12)	5.8 (8.7)		OFNP	B
12	3.0 (0.12)	6.2 (9.2)		OFNP	B
16	3.8 (0.15)	8.5 (12.6)	2x8 Colors	OFNP	B
24	3.8 (0.15)	9.2 (13.7)	2x12 Colors	OFNP	B
32	4.5 (0.18)	11.6 (17.2)	4x8 Colors	OFNP	B
36	4.8 (0.19)	13.1 (20.1)	3x12 Color 1xFillers	OFNP	A
48	4.8 (0.19)	13.7 (20.4)	4x12 Colors	OFNP	A
2	2.0 (0.08)	2.6 (3.9)		LSZH 60332-3C	A
4	3.0 (0.12)	4.8 (7.1)		LSZH 60332-3C	A
6	3.0 (0.12)	4.9 (7.2)		LSZH 60332-3C	A
8	3.0 (0.12)	5.0 (7.4)		LSZH 60332-3C	A
12	3.0 (0.12)	5.1 (7.6)		LSZH 60332-3C	A
24	3.8 (0.15)	11.8 (7.9)		LSZH 60332-3C	A

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

¹ 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

Installation	-20 °C to 60 °C (-4 °F to 140 °F)
Operation (SM)	-20 °C to 70 °C (-4 °F to 158 °F)
Operation (MM)	0 °C to 70 °C (0 °F to 158 °F)
Storage and Shipping	-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 Fiber	G.657.A2	0.4 (dBkm)	0.3	4
7	AllWave FLEX+ Enhanced Bend-Optimized Single-Mode Fiber	G.657.A2	0.4	0.3	4
Code	Multimode Descriptor	Grade	850 nm	1300 nm	MCA (Z)
K	LaserWave® FLEX G+ Multimode Fiber	OM2	3.5	1.5	G
3	LaserWave FLEX 300 Multimode Fiber	OM3	3.5	1.5	G
5	LaserWave FLEX 550 Multimode Fiber	OM4	3.5	1.5	G
4	LaserWave WideBand Multimode Fiber	OM5	3.5	1.5	G

M-PACK INTERCONNECT CORDAGE ORDERING INFORMATION

Example: MP38-024B-5PA¹

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

MP = M-Pack

NN = Cordage Size

20 = 2.0 mm M-Pack Cordage (2 Fibers)

30 = 3.0 mm M-Pack Cordage (4-12 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)

NNN = Fiber Count: 002-012, 016, 024, 032, 036 or 048

C = Version (see chart)

W = Fiber Type (see chart)

X = Jacket Material (flame retardant)

P = Plenum

H = Low Smoke/Zero Halogen (IEC 60332-3C)

Y = Jacket Color

Y = Yellow (Single-mode Fiber)

O = Orange (62.5/125 µm Multimode Fiber)

A = Aqua (LaserWave FLEX Fibers)

Z = Maximum Cable Attenuation (see chart)

* **NOTE:** Other colors available upon customer request.

¹ 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 or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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