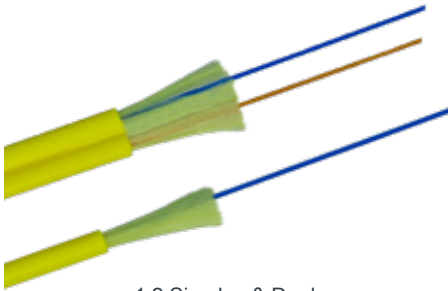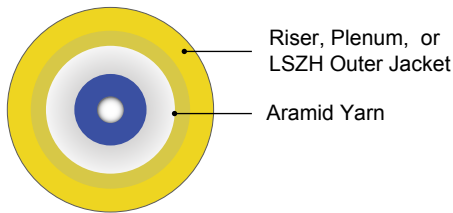# M-Pack® 1.2 mm Cordage - Interconnect

Highly Compact, Leading-Edge Cordage Offers Ease of Deployment for Demanding, High-Density Applications

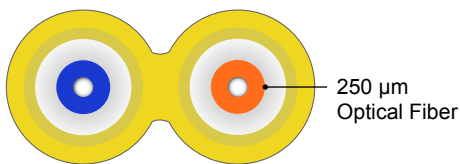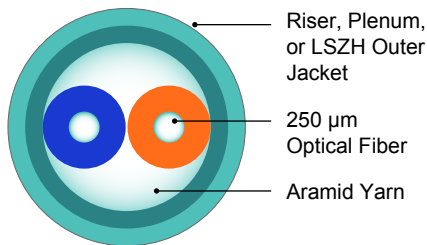**1.2 Simplex & Duplex M-Pack Cordages**

1-Fiber Cordage
- Riser, Plenum, or LSZH Outer Jacket
- Aramid Yarn

OD Geometry (1 Fiber)

Maximum Average	1.25 mm
Average	1.20 mm
Mininum Average	1.15 mm

2-Fiber Cordage
- 250 µm Optical Fiber

Round Duplex Cordage
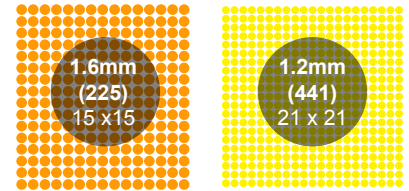- Riser, Plenum, or LSZH Outer Jacket
- 250 µm Optical Fiber
- Aramid Yarn

Features

- Lightweight cordage with highly reduced diameter
- Available in simplex and duplex designs
- OFNR (UL 1666), OFNP (NFPA-262), LSZH (IEC 60332-1)
- ROHS compliant and environmentally friendly; free of heavy metals and polybrominated fire retardants

Benefits

- Compact, lightweight cordage allows ease of deployment and termination
- Ideal for use in high-density frame management systems and in building micro assemblies
- Increase packing density by 196%

1.6mm (225) 15 x15

1.2mm (441) 21 x 21

Product Description

When you need a highly compact, leading-edge cordage solution for demanding high-density applications, look to the new M-Pack® Simplex Interconnect Cordage. This new cordage series was specifically designed to answer the need for extremely small and lightweight, yet durable and flexible cordages to help facillitate rapid installation, termination and splicing.

World-class OFS optical fiber lies at the heart of each M-Pack Simplex Cordage. Aramid yarn is wrapped around the non-buffered, 250 micron (µm) optical fiber for protection and to add overall strength to the cordage. This construction is then carefully encased in a durable, flame-resistant jacket. The 1.2 mm M-Pack Simplex Cordage is also available in duplex zipcord and round duplex constructions and features PVC OFNR riser-rated or OFNP jacket. Also available with LSZH jacket material in simplex and duplex round constructions.

Why The M-Pack Interconnect Cordage?

The M-Pack Interconnect Cordage is specifically engineered for customers who need an extremely compact and flexible, yet highly durable cordage optimized for use with demanding high-density and FTTx drop solutions.

This cordage's small diameter and light weight allow ease of deployment and termination along with rapid access for splicing for use in FTTx drop solutions. The cordage also offers:

Optical Fiber Quality: OFS develops and produces world-class optical fibers with precise fiber geometries for a broad range of global applications.

Strength and Durability: The M-Pack Interconnect Cordage is designed to exceed industry tensile standards and features extra aramid yarn in each cordage for added strength. Meets the same testing standards of 1.6 & 2.0 mm cordage.

Material Performance Stability: Controlling cordage shrinkage is key to delivering a high-performance connectorized product. OFS' extensive knowledge of materials allows us to design and produce cordages that help enterprise cabling networks and other high-bandwidth applications.

Specifications	MP12		MX12
	Simplex	**Duplex Zipcord**	**Round Duplex**
Fiber Count	1	2	2
Outer Diameter - in. (mm)	0.05 (1.2)	0.05 x 0.10 (1.2 x 2.48)	0.05 (1.2)
Weight - lb/kft (kgm/km)	.90 (1.34)	1.8 (2.68)	0.94 (1.41)
Maximum Tensile lb (N)	22 (100)	44 (200)	22 (100)
Flame Spread	OFNR, OFNP, or LSZH CPR	OFNR	OFNR, Plenum, or LSZH CPR
Mechanical	GR 409 Interconnect - All Cordages		
Performance Standard	Cordage tested and listed to applicable standards including Telcordia GR-409/ICEA-S-83-596/ ICEA-S-104-696/ICEA-S-115-730; TIA-568: TIA 598. Cordage UL Listed as compliant with NEC Article 770; CSA; EN 50173.		
Handling Temperature	Installation: 32º F to 140º F (-0º C to 60º C) Operation: 32º F to 158º F (-0º C to 70º C) Storage: -40º F to 158º F (-40º C to 70º C)		
CPR Rating	LSZH Versions: Dca-s1, d0, a2 Riser Versions: Dca-s1, d0, a3		LSZH Versions: Dca-s1, d0, a2 Riser Versions: Dca-s1, d0, a3
DoP Lookup: www.ofs-sales.com/cpr/	LSZH: **MP12-001-A-H** Riser: **MP12-001-A-R**		LSZH: **MX12-002-A-H** Riser: **MX12-002-A-R**

Fiber Type[2]

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

M-Pack Interconnect Cordage Ordering Information

Example: MP12-001A-WRY-4-01-250[1]

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

MP =	**M-Pack Interconnect Cordage**	**X =**	**Jacket Material (Flame Retardant)**
MX =	**M-Pack Round Duplex**		**R** = Riser **P** = Plenum **H** = Low Smoke/Zero Halogen (CPR Rated)
NN =	**Cable Size** **30** = 3.0 mm **38** = 3.8 mm **DJ** = 4.5 mm **54** = 5.4 mm	**Y =**	**Jacket Color** **Y** = Yellow (IN) (Single-Mode Optical Fiber) **A** = Aqua (IN) (Multimode Optical Fiber)
NNN =	**Fiber Count**: 002-024	**Z =**	**Maximum Cable Attenuation** *(See Chart)*
V =	**Version** *(See Chart)*	**UU =**	**Fiber Groupings or Ribbon Type** = 01 or 02
W =	**Fiber Type** *(See Chart)*	**DDD =**	**Fiber Outer Diameter** = 250 µm

* NOTE: Other colors available upon customer request.

[1] Part Number shown is for a 1.2 mm M-Pack Simplex Riser-Rated AllWave *FLEX+ ZWP* Single-Mode Fiber Cordage with a yellow jacket, one (1) 250 micron fiber and standard cable print: **OFS M-PACK® ALLWAVE® FLEX+ ZWP BIF G.657.A2 OPTICAL CABLE -C- MP12-001A-WRY-4-01-250 9/125 FT4 C(UL) OFNR OFN-LS *[MM/ YY] [LOT NO] [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.