

## Plug-n-Play 12-Fiber MTP® Modules

### APPLICATION

Leviton's Plug-n-Play MTP Modules are pre-terminated, pre-tested, and come with 12-fiber MTP connectors on the back that break out to single connectors on the front. Modules are custom-built to your specifications. Select from a variety of connectors including LC, SC, and MU to meet your specific application needs. For more information, visit [www.leviton.com/configurator](http://www.leviton.com/configurator).



### SPECIFICATION

All pre-terminated solution components including trunks, modules, harnesses, brackets, patch panels, and enclosures shall be provided and warranted by a single manufacturer. Components with modular (12-fiber) connection shall use MTP rather than MPO connectors. All discrete connectors (LC, SC, MU, etc.) shall use ceramic ferrules and sleeves. Insertion loss for connectors shall be a maximum of 0.5 dB per mated pair for both MTP connectors and discrete connectors. MTP modules shall be available in Opt-X® and LightSpace® (LGX® footprint) footprints; each shall be available with MTP connections on the back with a choice of the following "front side" connectors: LC, SC, and MU. Opt-X and LightSpace modules shall be black in color with white silk-screened port number identification. All modules shall have crossover polarity using TSB-140 "Method C". Modules shall be pre-terminated and pre-tested with test documentation provided upon request.

### FEATURES

- Plug-n-Play fiber eliminates the need for complicated and craft sensitive field terminations and splices
- High-density components reduce space requirements for cable pathways, racks, and cabinets by 50% or more
- "Fiber on demand" manufacturing and logistics allows Leviton to deliver plug-n-play solutions with significantly reduced lead times
- Every fiber component is factory-terminated and pre-tested using automated procedures to ensure product quality
- Available in Opt-X and LightSpace (LGX footprint)
- Support up to 24 fibers
- Use new generation MTP multi-fiber connectors
- Are easily interchangeable if a new connector type is needed in the future
- Standard MTP connector terminates 12 fibers, other MTP fiber counts available upon request
- Select from a variety of fiber types including single-mode, multimode, laser optimized multimode
- All discrete connectors (LC, SC, MU, etc.) are heat cured and use ceramic ferrules and sleeves for consistent performance

### DESIGN CONSIDERATIONS

- LightSpace type fits Leviton LightSpace Rack-Mount Enclosures
- Opt-X footprint fits Leviton Opt-X Series Enclosures

### STANDARDS COMPLIANCE

Meets the following standards:  
IEEE 802.3ae rev. 2002  
Adheres to TIA-942 data center design guidelines

### PHYSICAL SPECIFICATIONS

**Opt-X & LightSpace:** Powder-coated black with white silkscreened port identification

### WARRANTY INFORMATION

For a copy of Leviton product warranties, visit [www.leviton.com](http://www.leviton.com).

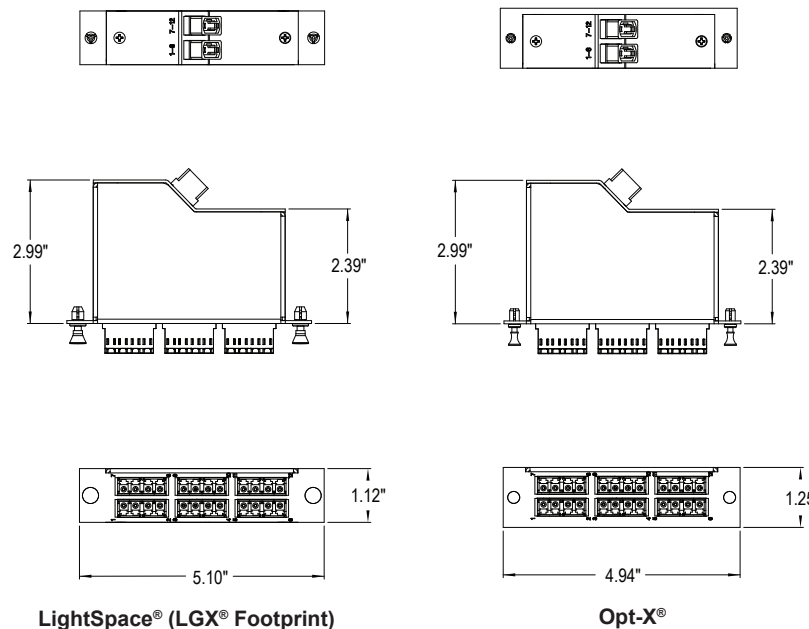
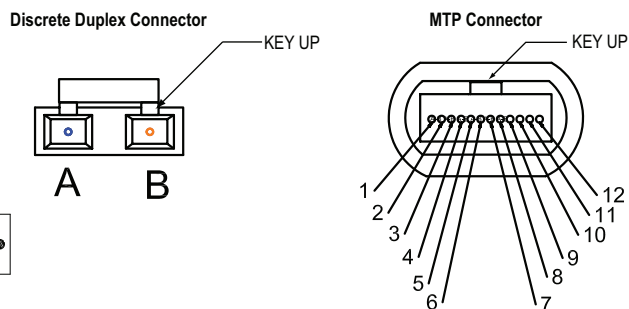
### ELECTRONIC FILES

For CAD files, typical specs, or dimensional line art (.DXF, .DWG), visit [www.leviton.com](http://www.leviton.com).

COLOR CODES	
<b>Connectors and Adapters</b>	
Single-mode	Blue
Single-mode, APC (angle polish)	Green
Multimode (62.5/125 μm)	Beige
Multimode (50/125 μm)	Beige
Multimode (50/125 μm laser optimized)	Aqua

TYPICAL PLUG-N-PLAY WIRING CONFIGURATIONS			
Port ID	Discrete Connector Position	Fiber Color	MTP Connector Position
1	A	Blue	1
	B	Orange	2
2	A	Green	3
	B	Brown	4
3	A	Slate	5
	B	White	6
4	A	Red	7
	B	Black	8
5	A	Yellow	9
	B	Violet	10
6	A	Rose	11
	B	Aqua	12

Module Insertion Loss Performance (dB)				
	Multimode		Single-mode	
	TYP IL	MAX IL	TYP IL	MAX IL
LC	0.5	0.75	0.6	1.00
SC	0.55	0.75	0.6	1.00
MU	0.5	0.75	0.6	1.00



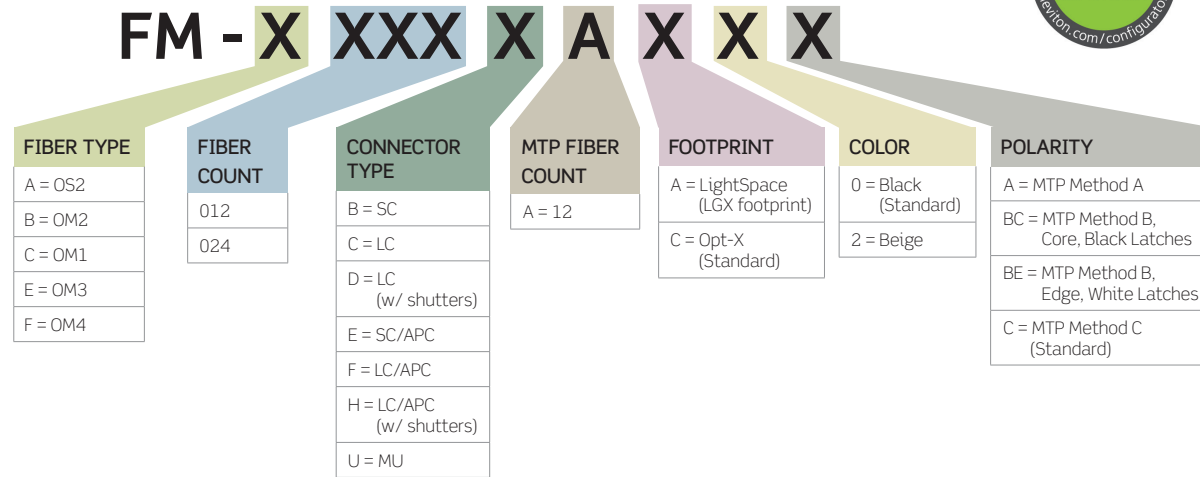
**PRODUCT SPECIFICATIONS**  
See Custom Model Configurator for Part Numbers



**PART NUMBER CONFIGURATOR - 12-FIBER MTP® PREMIUM MODULES**

Example: **FM-B012BAC0A**; 12-fiber 50/125µm std MM, SC to MTP connector, black color, MTP Method A.

FOR ASSISTANCE CONFIGURING YOUR ENCLOSURE, PLEASE CALL 800.722.2082 OR VISIT [WWW.LEVITON.COM/CONFIGURATOR](http://WWW.LEVITON.COM/CONFIGURATOR).



Modules are equipped with pinned (male) MTP connectors.  
Standard MTP connector terminates 12 fibers.  
Standard color for Opt-X and LightSpace (LGX Footprint) modules is black.  
Leviton Plug-n-Play 12-fiber solution follows TIA-568-C.0 Fiber Polarity guidelines.  
Additional MTP module configurations available.  
Contact inside sales at 800.722.2082 or visit [www.leviton.com/configurator](http://www.leviton.com/configurator) for more information.

FIBER CAPACITY
<b>Opt-X® and LightSpace® (LGX Footprint) Module</b>
LC connector - 12 or 24 fibers
SC connector - 12 fibers
MU connector - 12 or 24 fibers

Plug-n-Play 12-Fiber MTP® Modules



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