

## PRODUCT SPECIFICATIONS

### Opt-X™ HDX Enterprise DC Low Loss Base 12 MTP® Cassettes



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### APPLICATION

HDX Base 12 MTP Cassettes are pre-terminated, pre-tested, and come with 12-fiber MTP connectors on the back that break out to single or array connectors on the front. Available with LC connectors featuring visible internal white shutters offering an IP5x dust rating, faster installation, and protection from eye exposure to laser light. Cassettes are custom-built to your configuration needs. Select from a variety of connectors, including LC, SC, and MTP. For more information, visit [www.leviton.com/configurator](http://www.leviton.com/configurator).



### SPECIFICATION

All pre-terminated components including trunks, cassettes, harnesses, brackets, patch panels, and enclosures shall be provided and warranted by a single manufacturer. Components with modular (12-fiber) connection shall use MTP connectors. MTP connectors shall mate to key up/key down adapter on rear of cassette. LC adapters shall use ceramic ferrules and shall provide an option for IP5x-rated internal shutters, compliant with IEC 60529, that open and close automatically with the insertion and removal of an LC Connector. Base 12 multimode cassettes shall meet an optical insertion loss not to exceed 0.50 dB for MTP-to-LC or SC cassettes, and 0.75 dB for MTP-to-MTP cassettes. Base 12 single-mode cassettes shall meet an optical insertion loss not to exceed 0.90 dB for MTP-to-LC or SC cassettes, and 0.75 dB for MTP-to-MTP cassettes. Cassettes shall be preterminated and pre-tested with test documentation provided upon request. Cassettes available in method A, B, C or Universal Polarity and shall allow for multiple cassettes to be connected in a channel.

### COUNTRY OF ORIGIN

USA

### FEATURES

- Low-loss Base 12 MTP connectors for maximum network design flexibility
- Pre-terminated fiber eliminates the need for complicated and craft-sensitive field terminations and splices
- Patented internal shutters on LC adapters eliminate the need for dust plugs to reduce waste, speed deployment, and ensure safer installation
- One cassette supports up to 24 fibers
- Select from a variety of fiber types including single-mode (OS2) and laser-optimized multimode (OM3 and OM4)
- Discrete connectors are heat cured and use ceramic ferrules and sleeves for consistent performance
- Labeled to identify channel, wiring, and polarity

### DESIGN CONSIDERATIONS

- Fits in UHDx 1RU, 2RU, and 4RU enclosures for 144 LC fibers per RU
- Fits in UHDx 1RU Flat and Angled Panels for 144 LC fibers per RU
- Fits in HDX Fiber Distribution Frame Patching Decks
- MTP adapters oriented key up/key down (or opposed) on back of cassette
- 8-fiber MTP connectors are unpinned (female) on front side of cassette
- 24-fiber and legacy 12-fiber MTP Applications: Method B trunk links require one Core (black thumb latch) and one Edge (white thumb latch) MTP-LC cassette
- 12-fiber applications: Universal Polarity MTP-to-LC Cassettes; require method B trunks with one cassette on each end

### STANDARDS & REGULATIONS

- ANSI/TIA-942 data center design guidelines
- ANSI/TIA-568.3-D for performance requirements
- ANSI/TIA-604-5 (MTP), -3B (SC), -10B (LC) for connector intermateability
- IEC 60529 IP5x dust protection (LC)

### MECHANICAL SPECIFICATIONS

Dimensions: See page three

Materials: Gray polycarbonate

### WARRANTY INFORMATION

For Leviton product warranties, go to [leviton.com/warranty](http://leviton.com/warranty)

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## PERFORMANCE SPECIFICATIONS

### FIBER CASSETTE INSERTION LOSS

	Multimode	Single-mode
	Base 12 Max IL	Base 12 Max IL
MTP-LC	0.50	0.90
MTP-MTP	0.75	0.75
MTP-SC	0.50	0.90

### COLOR CODES

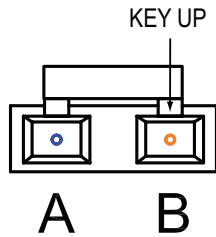
#### Adapters

OM3/OM4	Aqua
OM4 Option	Heather Violet
OS2	Blue
OS2 LC/APC	Green

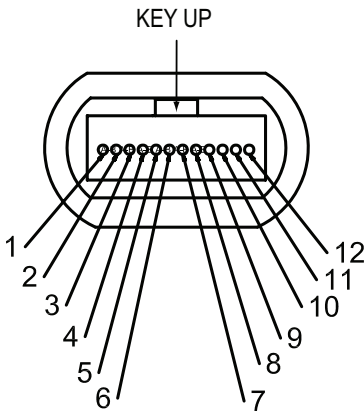
### TYPICAL 12-FIBER WIRING CONFIGURATIONS

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

### Discrete Duplex Connector



### MTP Connector



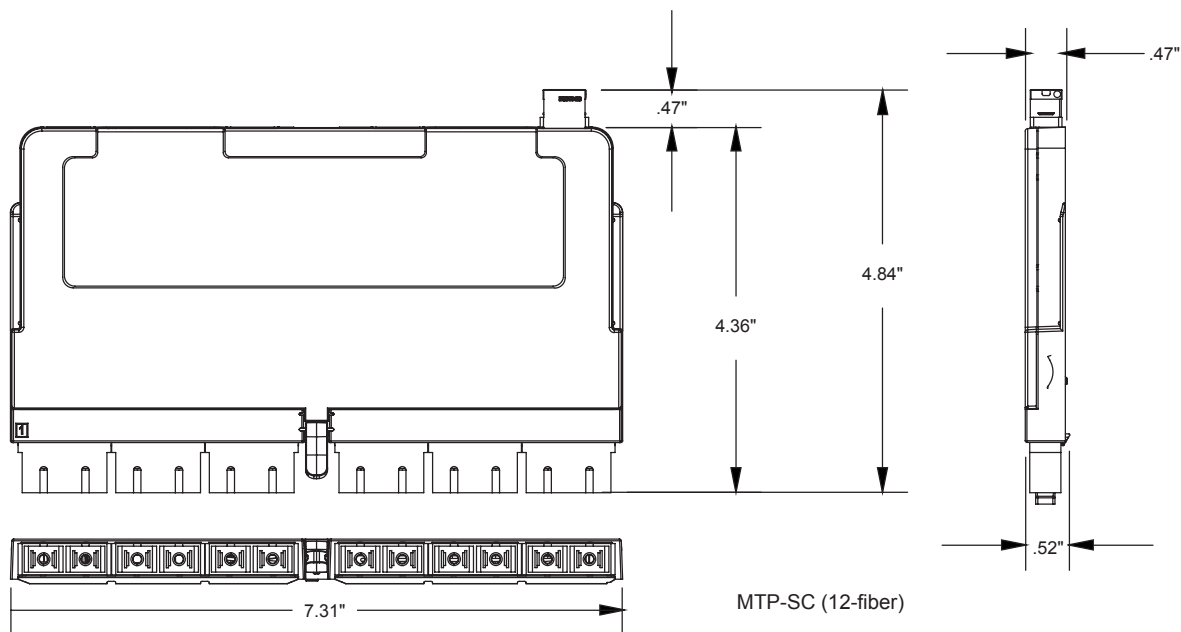
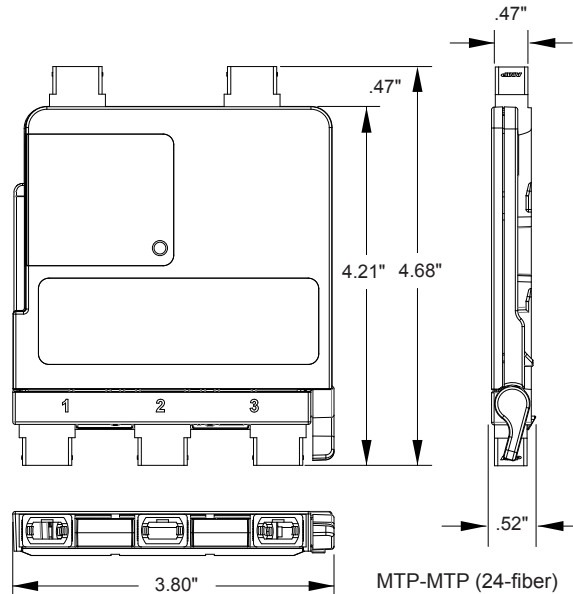
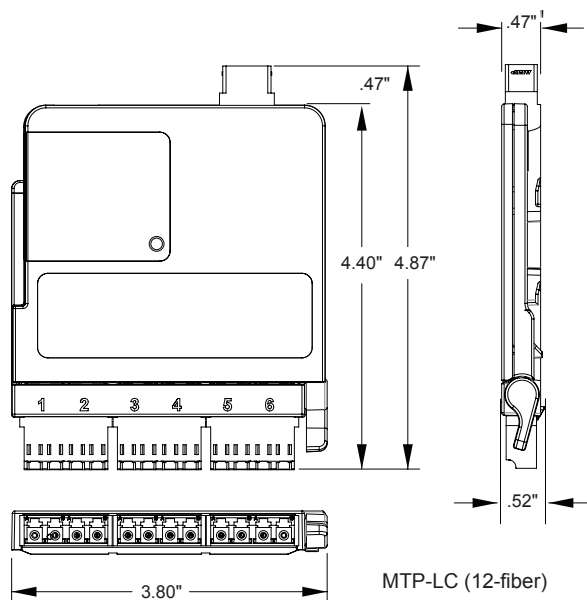
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#### 12-FIBER CASSETTES — POPULAR CONFIGURATIONS

Description	Part No.
HDX OM3, 12-fiber, MTP (male) to LC shuttered (aqua), Universal Polarity	31LSM1-UNN
HDX OM4, 12-fiber, MTP (male) to LC shuttered (aqua), Universal Polarity	41LSM1-UNN
HDX OM4, 12-fiber, MTP (male) to LC shuttered (heather violet), Universal Polarity	41GSM1-UNN
HDX OS2, 12-fiber, MTP (male) to LC shuttered (blue), Universal Polarity	U1LSM1-UNN

#### 24-FIBER CASSETTES — POPULAR CONFIGURATIONS

Description	Part No.
HDX2 OM3, 24-fiber, 2x12F MTP (male) to LC shuttered (aqua), Universal Polarity	32LSM1-UNN
HDX2 OM4, 24-fiber, 2x12F MTP (male) to LC shuttered (aqua), Universal Polarity	42LSM1-UNN
HDX2 OM4, 24-fiber, 2x12F MTP (male) to LC shuttered (heather violet), Universal Polarity	42GSM1-UNN
HDX2 OS2, 24-fiber, 2x12F MTP (male) to LC shuttered (blue), Universal Polarity	U2LSM1-UNN
HDX2 OM4, 24-fiber, 2x12F MTP (male) to 3x8F MTP (female), Method B Core	42MM1-BCN
HDX2 OM4, 24-fiber, 2x12F MTP (male) to 3x8F MTP (female), Method B Edge	42MM1-BEN
HDX2 OS2, 24-fiber, 2x12F MTP (male) to 3x8F MTP (female), Method B Core	U2MM1-BCN
HDX2 OS2, 24-fiber, 2x12F MTP (male) to 3x8F MTP (female), Method B Edge	U2MM1-BEN

#### Make to order!

#### OPT-X HDX ENTERPRISE DC LOW LOSS MTP CASSETTE OPTIONS

FIBER TYPE	FIBER COUNT	CONNECTOR TYPE (FRONT)	MTP FIBER COUNT (REAR)	POLARITY
<ul style="list-style-type: none"> <li>• OM3 (3)</li> <li>• OM4 (4)</li> <li>• OS2 (U)</li> <li>• OS2 (A)</li> </ul>	<ul style="list-style-type: none"> <li>• 12</li> <li>• 24</li> </ul>	<ul style="list-style-type: none"> <li>• SC (S)</li> <li>• LC (L)</li> <li>• LC shuttered (LS)</li> <li>• LC (heather violet) (G)</li> <li>• LC shuttered (heather violet) (GS)</li> <li>• 8-Fiber MTP (Female) (M)</li> </ul>	<ul style="list-style-type: none"> <li>• Base 12 MTP (male) (M1)</li> </ul>	<ul style="list-style-type: none"> <li>• Method A (A)</li> <li>• Method B (Core) (BC)</li> <li>• Method B (Edge) (BE)</li> <li>• Method C (C)</li> <li>• Universal (U)</li> </ul>



For assistance customizing your pre-terminated trunks, please visit [leviton.com/configurator](https://leviton.com/configurator) or call Tech Support at 800.824.3005.

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For further support information, visit [leviton.com/ns/support](https://leviton.com/ns/support)

#### NETWORK SOLUTIONS GLOBAL HEADQUARTERS

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#### NETWORK SOLUTIONS EUROPEAN HEADQUARTERS

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