

PRODUCT SPECIFICATIONS

OPT-X SDX Engage Low Loss MTP Fiber Cassettes

OPT-X™ SDX Engage Low Loss MTP® Fiber Cassettes

APPLICATION

Leviton SDX Cassettes are pre-terminated, pre-tested, and come with 12-fiber MTP connectors on the back that break out to single connectors on the front. Cassettes are custom built to your specifications. Select from a variety of connectors including LC and SC to meet your specific application needs. For more information, visit www.leviton.com/configurator.



SPECIFICATION

All pre-terminated solution 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 rather than MPO connectors. All discrete connectors (LC, SC) shall use ceramic ferrules and sleeves. 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. MTP cassettes shall be available in SDX footprints; each shall be available with MTP connections on the back with a choice of the following front-side connectors: LC, SC, LC/APC, and SC/APC. SDX cassettes shall be black in color with white silk-screened port number identification. All SDX cassettes are available in standard TIA methods A, B, C, and Universal Polarity.

COUNTRY OF ORIGIN

Please contact customer service

WARRANTY INFORMATION

For Leviton product warranties, go to leviton.com/ns/warranty

FEATURES

- Pre-terminated fiber eliminates the need for complicated and craft-sensitive field terminations and splices
- Every fiber component is factory terminated and pre-tested using automated procedures to ensure product quality
- Supports up to 24 fibers with LC
- Standard MTP connector terminates 12 fibers
- Select from a variety of fiber types including OS2, OM3, and OM4
- Uses bend-insensitive single-mode and multimode fiber
- All discrete connectors (LC, SC) are heat cured and use ceramic ferrules and sleeves for consistent performance
- Optional patented internal shutters on LC adapters eliminate the need for dust plugs to reduce waste, accelerate deployment, and ensure safer installation

DESIGN CONSIDERATIONS

- SDX footprint fits Leviton SDX Enclosures (500i, 1000i, 2000i, and wall mount)
- 24-F and Legacy 12-F MTP Applications: Method B trunk links require one Core (black plunger/grommet) and one Edge (white plunger/grommet) MTP-LC cassette
- 24-F and 12-F Applications: Universal Polarity MTP-to-LC Cassettes; require method B trunks with one cassette on each end

STANDARDS & REGULATIONS

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

MECHANICAL SPECIFICATIONS

Dimensions: See page two
Materials: Powder-coated black with white silk-screened port identification
Operating Temperature: -10 °C to +60 °C
Installation Temperature: -10 °C to +60 °C

PERFORMANCE SPECIFICATIONS

	FIBER CASSETTE INSERTION LOSS (DB)	
	Multimode Max IL	Single-mode Max IL
MTP-LC	0.50	0.90
MTP-MTP	0.75	0.75

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COLOR CODES

Adapters

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

FIBER CAPACITY

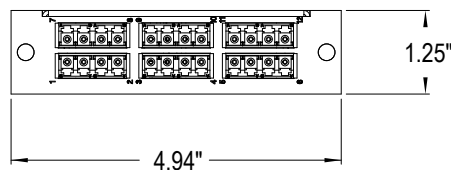
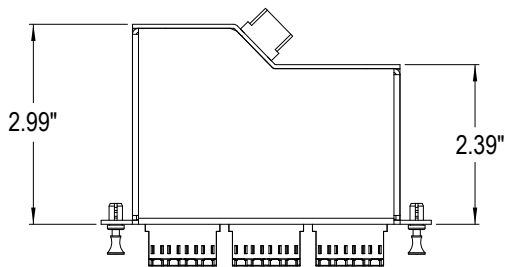
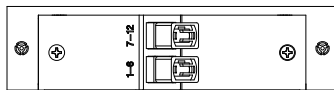
SDX Cassettes

LC connector - 12 or 24 fibers

SC connector - 12 fibers

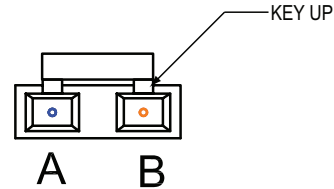
TYPICAL PLUG-N-PLAY WIRING CONFIGURATIONS

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

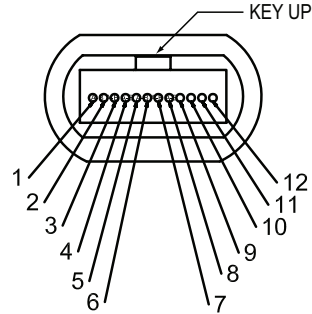


SDX

Discrete Duplex Connector



MTP Connector



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12-FIBER CASSETTES — POPULAR CONFIGURATIONS

Description	PART NO.
OM3, 12-fiber, MTP (male) to LC shuttered (aqua), Universal Polarity	FM-E012CSAC0U
OM4, 12-fiber, MTP (male) to LC shuttered (aqua), Universal Polarity	FM-F012CSAC0U
OM4, 12-fiber, MTP (male) to LC shuttered (heather violet), Universal Polarity	FM-F012GSAC0U
OS2, 12-fiber, MTP (male) to LC shuttered (blue), Universal Polarity	FM-A012CSAC0U

24-FIBER CASSETTES — POPULAR CONFIGURATIONS

Description	PART NO.
OM3, 24-fiber, 2x12F MTP (male) to LC shuttered (aqua), Universal Polarity	FM-E024CSAC0U
OM4, 24-fiber, 2x12F MTP (male) to LC shuttered (aqua), Universal Polarity	FM-F024CSAC0U
OM4, 24-fiber, 2x12F MTP (male) to LC shuttered (heather violet), Universal Polarity	FM-F024GSAC0U
OS2, 24-fiber, 2x12F MTP (male) to LC shuttered (blue), Universal Polarity	FM-A024CSAC0U

Make-to-order!

SDX CASSETTE OPTIONS

Fiber Type	Cable Type	Fiber Count	MTP Fiber Count	Footprint	Color	Polarity
<ul style="list-style-type: none"> • OM3 (E) • OM4 (F) • OS2 (A) 	<ul style="list-style-type: none"> • SC (B) • LC (C) • LC Shuttered (CS) • LC Shuttered Heather Violet (GS) • SC/APC (E) • LC/APC (F) • LC/APC Shuttered (FS) 	<ul style="list-style-type: none"> • 12 (12) • 24 (24) 	<ul style="list-style-type: none"> • 12-fiber (A) 	<ul style="list-style-type: none"> • SDX (C) 	<ul style="list-style-type: none"> • Black (O) 	<ul style="list-style-type: none"> • MTP Method A (A) • MTP Method B, Core (BC) • MTP Method B, Edge (BE) • MTP Method C (C) • Universal (U)

For assistance customizing your trunk cables, please visit leviton.com/configurator or call Tech Support at 800.824.3005.

Cassettes are equipped with pinned (male) MTP connectors.

Standard MTP connector terminates 12 fibers.

Standard color for SDX modules is black.

Contact Inside Sales at 800.722.2082 or visit Leviton.com/configurator for more information.



For further support information, visit leviton.com/ns/support

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Page 3 of 3

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