

## HDX LC & MTP® Splice Modules

### APPLICATION

HDX LC & MTP Splice Modules protect and organize heat-shrink fusion spliced fibers (up to 12 or 36 fibers) inside a fiber enclosure or panel. The modular design enables faster field splicing and simple management of pigtails within the housing. Splice modules eliminate the need for individual splice trays within a fiber enclosure and provide optimal organization and slack management of fibers. Typical applications include Wide Area Networks (WAN), campuses, high-count riser buildings, government installations, data centers, and central offices.



### SPECIFICATION

Fiber pigtail fusion splice modules shall be offered in 12-fiber LC (UPC and APC) and 36-fiber MTP configurations in OS2, OM4, and OM5 fiber types. Module construction shall be polycarbonate for robustness and light weight. Splice Modules shall be pre-loaded and routed with respective color-coded pigtail assembly. Provided pigtail shall be preconfigured to allow for termination to loose tube, tight buffered, or ribbon fiber cables without modification or replacement. Individual pigtails shall have maximum insertion loss of 0.15 dB (OM4 and OM5) and 0.25 dB (OS2) for LC. For MTP a maximum insertion loss of 0.35 dB max on both OM4 and OS2. LC adapters shall use ceramic ferrules. And they 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 connectors. Module shall provide slack storage and bend radius protection for incoming backbone fibers, 900 μm tight-buffer fibers, and fusion-spliced fibers. Incoming 250 μm or ribbon backbone fibers shall be protected by a braided mesh sleeve. Heat-shrink style splice sleeves, a ribbon splice sleeve, a braided mesh sleeve, and tie wraps shall be included with module.

### COUNTRY OF ORIGIN

USA

### FEATURES

- Modules integrate fiber adapter bulkhead (12 or 36 fibers) and splice holders, eliminating need of splice trays
- Offered in single-mode (OS2) UPC, APC, laser-optimized multimode (OM4), and SWDM multimode (OM5) fiber types in LC or MTP connectivity
- MTP splice module offered in pinned or unpinned
- No proprietary tool or fixture required for fusion splicing
- 12-fiber color-coded pigtail assembly (U.S. patent pending) offers capability to fusion splice individual or mass fusion ribbon fibers
- Optional patented internal shutters on LC adapters eliminate the need for dust plugs to reduce waste, speed up deployment, and ensure safer installations
- Modular design allows for easy maintenance of individual spliced fiber and scaling up without impacting existing fibers
- Accessory kit includes 40 mm heat-shrink individual splice sleeves, ribbon splice sleeve, braided mesh sleeve, and tie wraps

### DESIGN CONSIDERATIONS

- Terminate with distribution, loose-tube, ribbon, and air blown fiber
- Pigtails designed with 250 μm coating for fusion splicing with above cables; for 200 μm coated ribbon cable applications, please contact Technical Support
- For outside-plant fiber cable please contact Technical Support
- Installs in UHDx, HDX, and SDX (with HDX-to-SDX adapter bracket) fiber enclosures and panels
- Zirconia ceramic ferrule used on LC connectors
- Zirconia ceramic sleeve used on LC adapters
- Individual splice holder accepts up to 12 heat-shrink individual style splice sleeves and 3 heat-shrink ribbon splice sleeves

### STANDARDS & REGULATIONS

- ANSI/TIA-568.3-D Optical Fiber Cabling and Components
- ANSI/TIA-604-5 (MTP), -10A (LC) Connector Interchangeability
- IEC 60529 IP5x dust protection (LC)

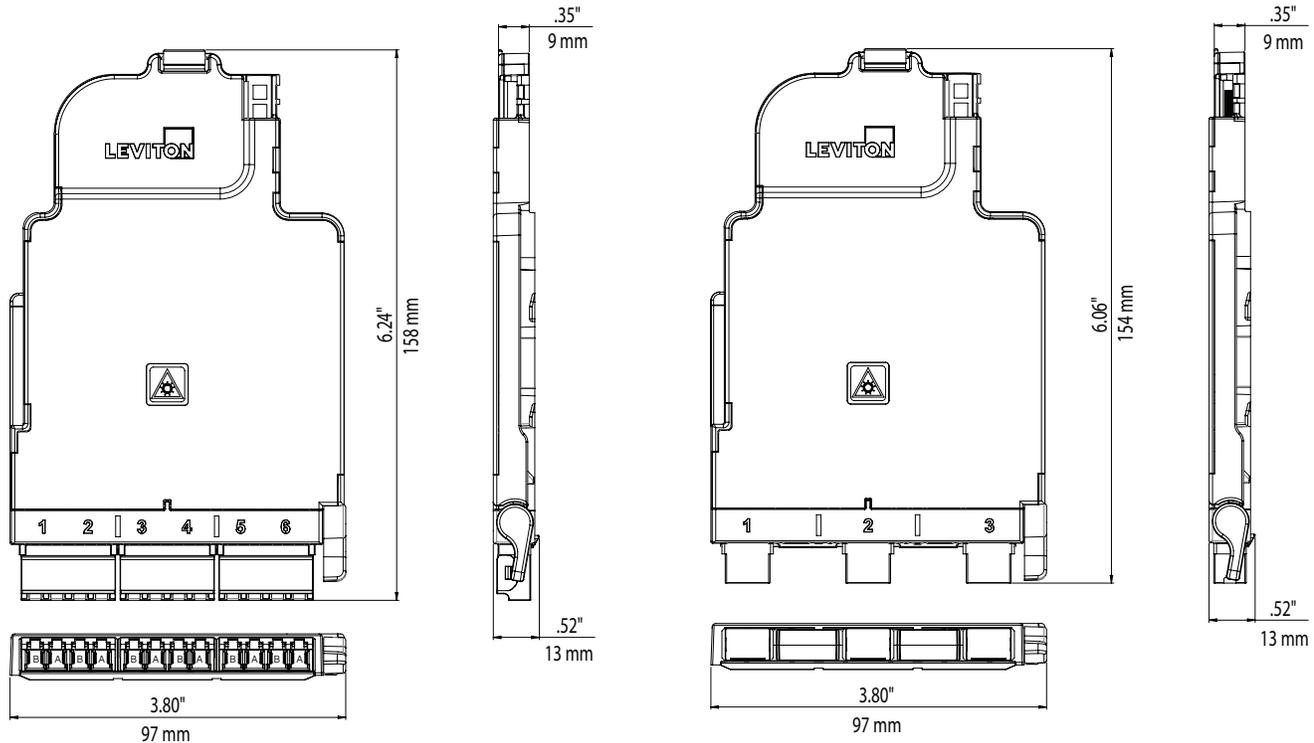
### MECHANICAL SPECIFICATIONS

Dimensions:	See page two
Material:	gray polycarbonate
LC Adapter Colors:	OM4 – aqua and heather violet OM5 – lime green OS2/UPC – blue OS2/APC – green
MTP Adapter Colors:	black

SPLCH-12x, SPMPH-xMxx

**PRODUCT SPECIFICATIONS**  
**SPLCH-12x, SPMPH-xMxx**

**SPLCH-12x, SPMPH-xMxx**



**HDX FIBER SPLICE MODULES AND HDX TO SDX ADAPTER BRACKET**

Description	Part No.
12-Fiber OM4 LC (aqua)	SPLCH-12A
12-Fiber OM4 LC (heather violet)	SPLCH-12M
12-Fiber OS2 LC (blue)	SPLCH-12L
12-Fiber OS2 LC/APC (green)	SPLCH-12V
12-fiber OM4 LC shuttered (aqua)	SPLCH-12AQ
12-fiber OS2 LC shuttered (blue)	SPLCH-12BL
12-fiber OS2 LC/APC shuttered (green)	SPLCH-12GN
12-fiber OM4 LC shuttered (heather violet)	SPLCH-12HV
12-fiber OM5 LC shuttered (lime green)	SPLCH-12LG
36-Fiber (3 x 12 fibers) OM4 MTP, male	SPMPH-MMPN
36-Fiber (3 x 12 fibers) OS2 MTP, male	SPMPH-SMPN
36-Fiber (3 x 12 fibers) OM4 MTP, female	SPMPH-MMUP
36-Fiber (3 x 12 fibers) OS2 MTP, female	SPMPH-SMUP
HDX to SDX Adapter Bracket (for use with SDX enclosures)	HDXAD-ACC

**PERFORMANCE SPECIFICATIONS**

	OM4/OM5		OS2	
	Max. IL	Min. RL	Max. IL	Min. RL
LC	0.15 dB	>25 dB	0.25 dB	>55 dB
LC/APC	—	—	0.25 dB	>65 dB
MTP <sup>®</sup>	0.35 dB	>20 dB	0.25 dB	>55 dB

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

MTP<sup>®</sup> is a registered trademark of US Conec, Ltd.

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