HDX Splice Module
Cat. Nos. SPLCH, SPMPH

LEVITON®

**INSTALLATION INSTRUCTIONS** | **ENGLISH**

WARNINGS
- **READ AND UNDERSTAND ALL INSTRUCTIONS.** Follow all warnings and instructions marked on the product.
- **DISCONNECTED OPTICAL COMPONENTS MAY EMIT INVISIBLE OPTICAL RADIATION THAT CAN DAMAGE YOUR EYES. TO AVOID SERIOUS INJURY,** never look directly into an optical component that may have a laser coupled to it. If accidental exposure to laser radiation is suspected, consult a physician for an eye examination.

CAUTIONS
- **TO AVOID INJURY,** wearing safety glasses during installation of this device is recommended. Although standard safety glasses provide no protection from potential optical radiation, they offer protection from accidental airborne hardware and cleaning solvents.
- Isopropyl alcohol is flammable and can cause eye irritation on contact. If eye contact occurs, flush with water for at least 15 minutes. In case of ingestion, consult a physician. Use only in well ventilated areas.
- Fiber optic cable is sensitive to excessive pulling, bending and crushing forces. Do not bend the cable less than recommended bend radius. Do not use more pulling force than specified. Do not kink or crush the cable.

Includes:

LC   OR   MTP

1. Splice Module Base (LC or MTP)
2. Splice Module Cover
3. Convertible splice sleeve holder
4. Splice Sleeve Holder retention tabs
5. Single and Ribbon splice sleeves
6. Cable Management tab
7. Cover tab
8. Module Release button
9. Fiber Optic Pigtail
10. Nylon Tie Wraps
11. Mesh Tubing

Single Splice sleeves x 13 in LC kits

Ribbon Splice sleeves x 1 in LC kits x 3 in MTP kits
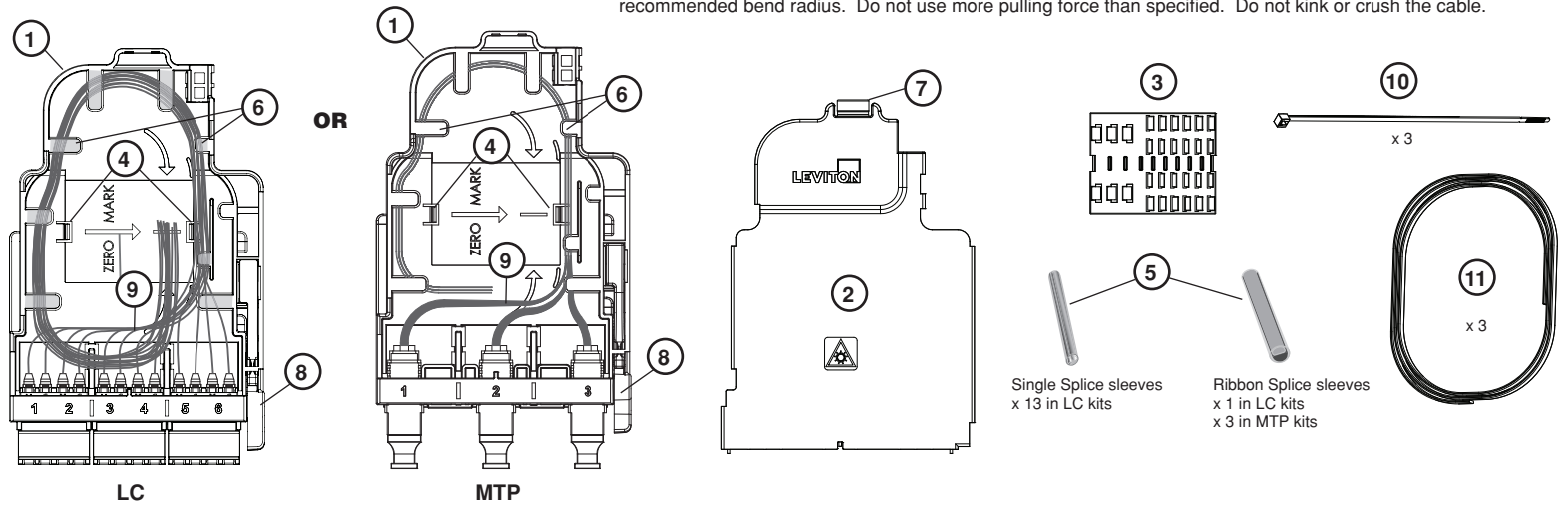
Optional Accessories:

- HDXAD-ACC - HDX to SDX Adapter Bracket
- 5FUHD-BLK - HDX Adapter Plate Blank
- FSSSD-040 - Single Fiber Splice Sleeves, 40mm (50 pack)
- FSSRB-040 - Ribbon Fiber Splice Sleeves, 40 mm (25 pack)

Mounts in these devices:

- UHDX Rack Mount Enclosures
- UHDX Rack Mount Panels
- HDX Frame
- SDX Enclosures with HDX to SDX Adapter Brackets

You Will Need:

- Single and/or mass fusion splicer with compatible fiber holders
- Precision cleaver
- When working with outside plant or armored cables:
  - safety blade/utility knife
  - armor jacket removing tool
  - gel remover
- Fiber termination kit:
  - aramid yarn scissors
  - lint free wipes
  - fiber cleaning solution or 95% or better isopropyl alcohol
  - jacket removing tool
  - fiber stripping tool
  - fiber waste container

Installation

1. Open module.

push and lift
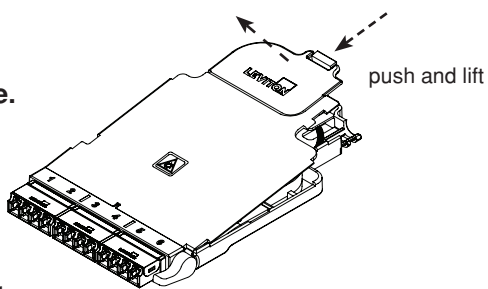
2. Prepare fiber.

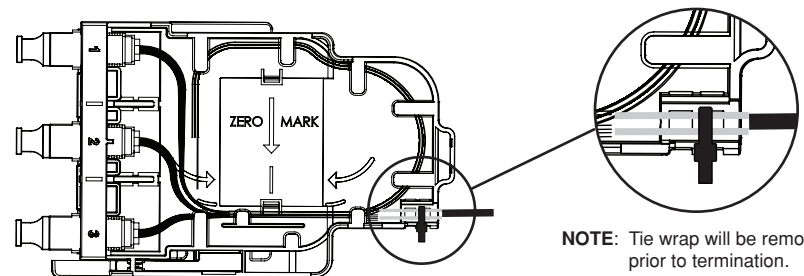Determine termination location. Depending on cable construction, breakout and/or furcation may be required.

NOTE: Incoming cable opening is 7.6 mm. Evaluate incoming fiber to verify correct sizing.

• **High count cable**: overall fiber cabling larger than the following requires breakout prior to install:
>36 fiber for MTP splice modules
>12 fiber for LC splice modules

- **Tight buffered cable**: 12 fiber cable can be routed directly to the splice module. Overall fiber cabling larger than 7.6 mm, secure the cable to the enclosure cable management tie down points according to the device instructions, remove the outer jacket after the tie down point and utilize the mesh sleeve provided in this accessory kit to protect and route the individual fibers to the module.
- **Loose tube cable**: if overall fiber cabling larger than 7.6 mm and correctly sub-unitized under cable jacket, secure cable to tie down points, remove jacket after tie down points and route sub-unit tubes to each module.
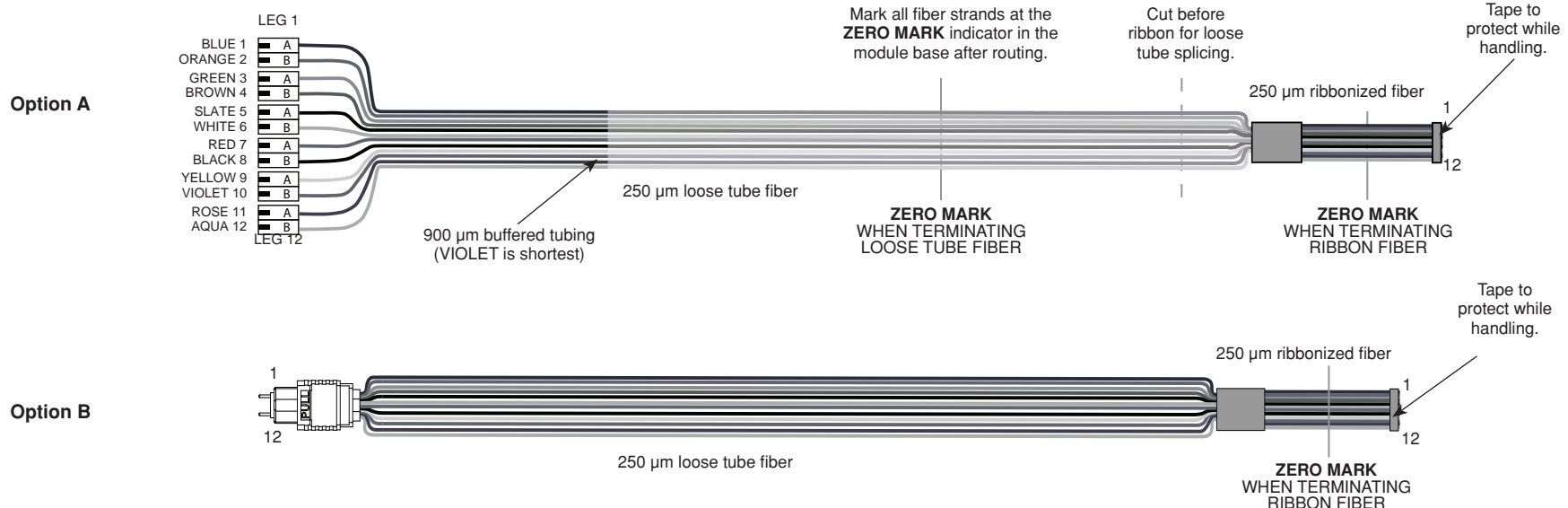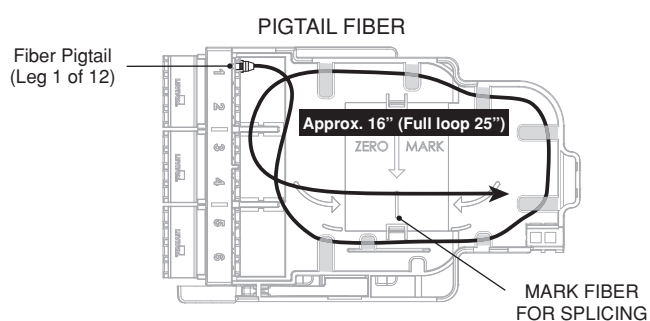
3. Route fiber.

a. Remove at least 35 mm of outer cable jacket.

NOTE: Do not store excessive fiber slack within the module housing. Achieve minimal slack by routing fiber(s) in the widest path available under the wire management tabs as shown in the routing diagrams. All other required slack storage should be performed in the fiber enclosure and/or available pathway outside the enclosure.

b. Feed incoming cable(s) through the rear opening and secure through the tie wrap slots and over the cable jacket with nylon tie.

NOTE: Tie wrap will be removed prior to termination.

4. Prepare pigtail assembly (single fiber [**Option A**] or mass fusion [**Option B**])

NOTE: Cut pigtail *after* making Zero Mark.

Option A

LEG 1
BLUE 1 — A
ORANGE 2 — B
GREEN 3 — A
BROWN 4 — B
SLATE 5 — A
WHITE 6 — B
RED 7 — A
BLACK 8 — B
YELLOW 9 — A
VIOLET 10 — B
ROSE 11 — A
AQUA 12 — B
LEG 12

900 µm buffered tubing (VIOLET is shortest)

250 µm loose tube fiber

Mark all fiber strands at the **ZERO MARK** indicator in the module base after routing.

ZERO MARK WHEN TERMINATING LOOSE TUBE FIBER

Cut before ribbon for loose tube splicing.

250 µm ribbonized fiber

Tape to protect while handling.

ZERO MARK WHEN TERMINATING RIBBON FIBER

Option B

250 µm loose tube fiber

250 µm ribbonized fiber

Tape to protect while handling.
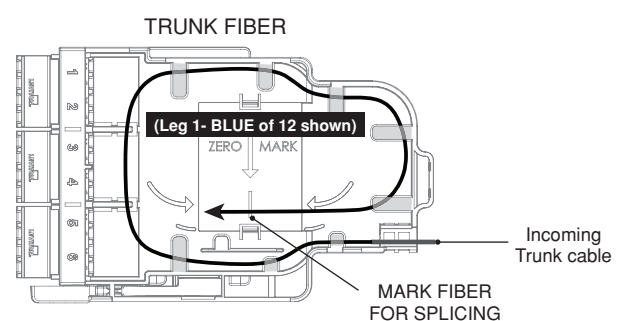
ZERO MARK WHEN TERMINATING RIBBON FIBER

5. Route pigtail fibers.

a. Route pigtail fibers counter clockwise.
   • When splicing single fiber, route the fibers one full loop and mark at Zero Mark.
   • When performing mass fusion splices, route the fiber two full loops and mark at Zero Mark.
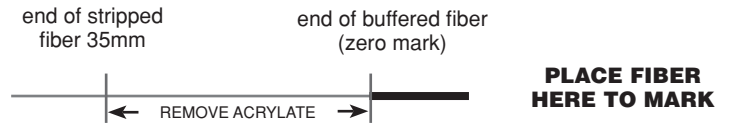b. Remove pigtail fibers from module, leaving connectors mated into adapters.

PIGTAIL FIBER

Fiber Pigtail (Leg 1 of 12)

Approx. 16" (Full loop 25")

MARK FIBER FOR SPLICING

6. Route trunk fibers.

a. Route trunk fibers clockwise.
b. Mark all fibers at Zero Mark.
c. Remove all fibers from module.

TRUNK FIBER

(Leg 1- BLUE of 12 shown)

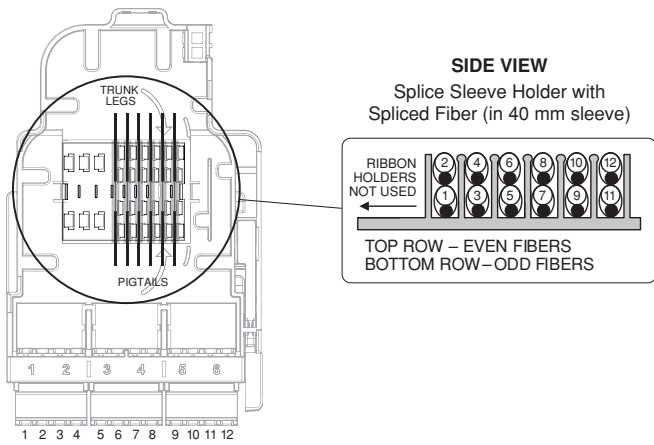Incoming Trunk cable

MARK FIBER FOR SPLICING

7. Terminate.

NOTE: Cleave lengths and termination steps can vary. Consult your splicer instructions.

a. Install splice sleeves
b. Shorten each fiber to 35 mm past Zero Mark using guide.
c. Strip.
d. Perform fusion splicing per manufacturer's instructions
e. Place fibers in splice sleeve holder after termination as shown by termination type.
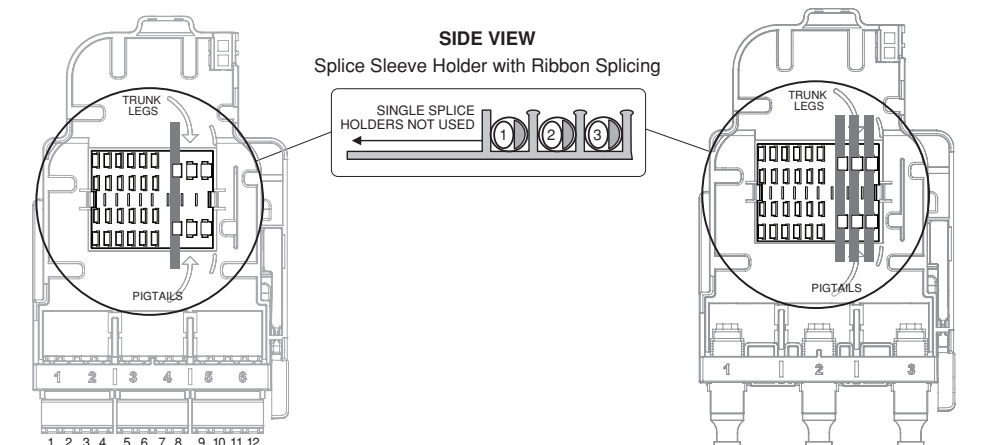

end of stripped fiber 35mm   end of buffered fiber (zero mark)

← REMOVE ACRYLATE →

PLACE FIBER HERE TO MARK

SINGLE SPLICING

SIDE VIEW
Splice Sleeve Holder with Spliced Fiber (in 40 mm sleeve)

RIBBON HOLDERS NOT USED

TOP ROW – EVEN FIBERS
BOTTOM ROW – ODD FIBERS

Single Fusion Splicing for LC pigtails

RIBBON SPLICING

SIDE VIEW
Splice Sleeve Holder with Ribbon Splicing

SINGLE SPLICE HOLDERS NOT USED

Mass Fusion Splicing for LC pigtails

Mass Fusion Splicing for MTP pigtails

8. Route assembly into module (single fiber or mass fusion).

a. Feed fibers through channel shown.
b. Rotate module base clockwise as you place fibers under tabs.
c. Position sleeve holder and snap into place, positioning the last 250 um of fiber under the LC connectors
d. Continue rotating module clockwise, routing trunk fibers under tabs as you go, with final length of fiber in outermost channel.
e. Secure trunk jacket at entrance, tie with wraps.
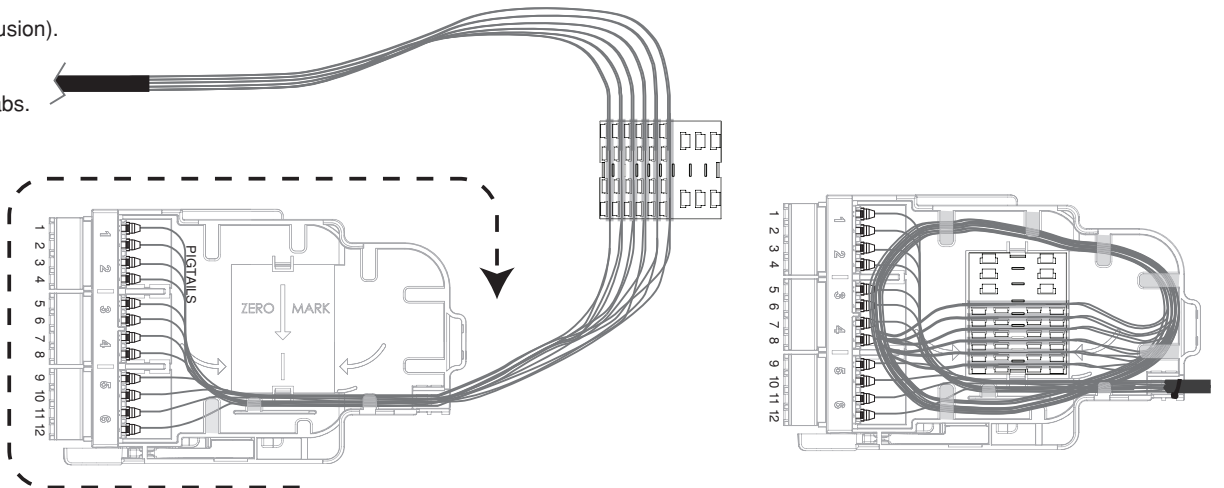
9. Replace lid.

NOTE: To avoid damaging fibers, verify all fiber optic cabling is correctly routed within the module base under the cable management tabs prior to installing and securing the lid.
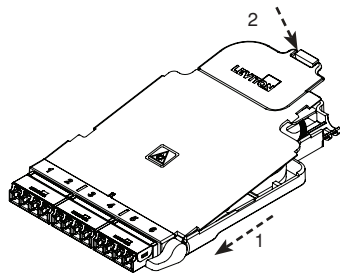
10. Label module.

Affix labels as shown.

NOTE: Make sure the label surface area is free of dirt, oil and debris. When wiping down surface area, use isopropyl alcohol or a simple soap and water solution.

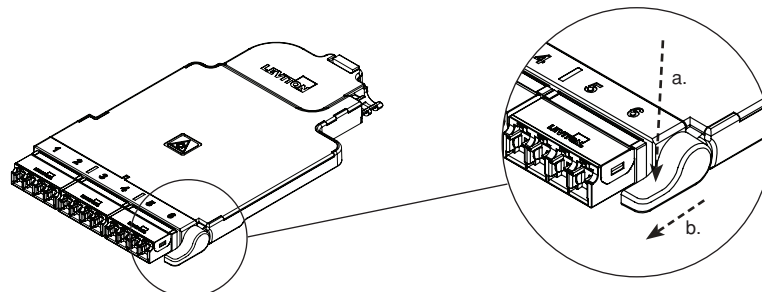| Label Printing Organization by Fiber Adapter Type								
HDX Splice Module	**Per Column**		**Number Scheme**					
	Port Spacing	**No. of Ports**						
Quad LC (duplexed)	0.6	6	1	2	3	4	5	6
Quad LC (by fiber)	0.6	12	1-2/3-4		5-6/7-8		9-10/11-12	
MTP (3 port)	1.20	3	1	Space	2	Space	3	

11. Mount module in enclosure.

All modules install through front of enclosure. If using an enclosure or HDX patch deck with sliding trays, individual trays can be removed for ease of use.

a. Place module in guide rails of enclosure.
b. Slide module toward back of enclosure until latch engages.

12. To remove module.

a. Gently press button.
b. Remove module.