

LL-5D Splicing and Distribution Enclosure



TABLE OF CONTENTS

Package Contents	2
Required Tools	2
Additional Kits – Optional	2
LL-5D Defined	
LL-5D Enclosure Description Guide	5
Enclosure Mounting	
Wall	6
Pole	
Enclosure Preparation	
Door Removal	8
Seal/Grommet – Grommet Version	9
Conduit Drill Out – Conduit Version	10
Adapter Panel Removal	11
Cable Prep Length Table	13

Cable Attachment Unit	14
Cable Preparation	15
Cable Installation	16
Enclosure Preparation	
Adapter Panel Installation	18
Fiber Routing – Ribbon Version	19
Fiber Routing – Tight Buffer Version	21
Splicing	23
Drop Cable Installation	
Conduit Version	
Grommet Version	25
Skirt Kit Installation – Optional	28



LL-5D Enclosure

PACKAGE CONTENTS

LightLink LL-5D Enclosure
Cable Attachment Units, as ordered
Splice Trays, as ordered
Splice Module Cover
Foam and Tie Wrap Retention Kit
Installation Instructions Packet

REQUIRED TOOLS

3/8" Can wrench 5/32" Hex head tamper-proof screwdriver Tape measure Tie wraps or Velcro® for slack management Splicer's scissors Splice equipment and sleeves Cable entry tools Marker Utility Knife

ADDITIONAL KITS - OPTIONAL

Table 1

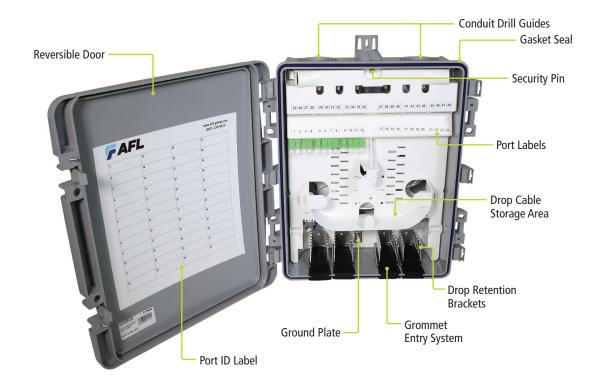
DESCRIPTION	AFL NO.
Velcro, 75 Foot Length Roll – For securing bundles in the slack basket	FC001759
Apex® Cable Bonding Kit (Bonds armored cable sheath to ground) – Alligator clip on one end, eyelet on other end. Pack of 10	AX-KIT-GROUND-10
Bundle Splice Tray Retention Kit – Includes 25 foam grommets for retaining bundles to splice trays	HW000406
Apex Splice Module (18 single fusion triple stacked, 12 mass fusion double stacked, 6 mechanical). Pack of 20	AX-TRAY-MOD-20
Apex Cable Attachment Unit	AX-KIT-CBLSTRN
X-2S Tray Fully Loaded with Two Splice Modules (288 fibers per tray only recommended for rollable ribbon, e.g. AFL SWR)	AX-TRAY-2S-2
Apex AFRS Kit 2 — Used for Loose Tube Cable. Kit includes: V-Clip (24 ea.) and Retention Pads (6 sheets of 8 pads)	AX-KIT-AFRSLT
12 Fiber Tight Buffered Pigtail Kit with 12 ASC Connectors	LL5D-KIT-ASCT
12 Fiber Ribbon Pigtail Kit with 12 ASC Connectors	LL5D-KIT-ASCR
PLC Splitter, 1x16, 900 μm, 1260-1650, 1 Meter Leads, SC/APC Connectors	PLC-1X16-9-1M-ASC
PLC Splitter, 1x8, 900 µm, 1260-1650, 1 Meter Leads, SC/APC Connectors	PLC-1X8-9-1M-ASC
PLC Splitter, 1x4, 900 µm, 1260-1650, 1 Meter Leads, SC/APC Connectors	PLC-1X4-9-1M-ASC
PLC Splitter, 1x2, 900 µm, 1260-1650, 1 Meter Leads, SC/APC Connectors	PLC-1X2-9-1M-ASC
LL-5D Skirt Kit, with Cover, with Base, with End Plate No Holes, No Fiber Guides, No Clips	LL5D-SKIRT-KIT-0XX
LL-5D Skirt Kit, with Cover, with Base, with End Plate No Holes, with Fiber Guides, with Clips	LL5D-SKIRT-KIT-0GC
LL-5D Skirt Kit, with Cover, with Base, with End Plate 1.375" Holes, with Fiber Guides, with Clips	LL5D-SKIRT-KIT-1GC
LL-5D Skirt Kit, with Cover, with Base, with End Plate 2.375" Holes, with Fiber Guides, with Clips	LL5D-SKIRT-KIT-2GC

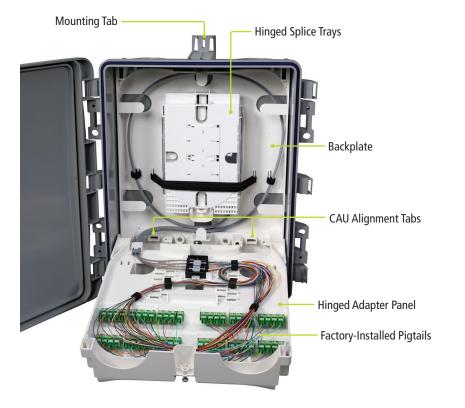






LL-5D DEFINED



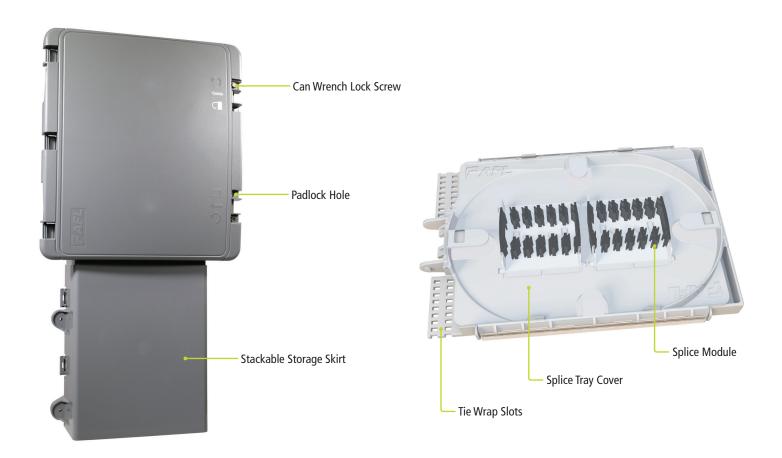








LL-5D DEFINED











LL-5D ENCLOSURE DESCRIPTION GUIDE

Reference for the different LL-5D versions mentioned throughout the installation instructions, based on the type of pre-installed fiber pigtails and cable entry system.

- * Based on how the LL-5D is ordered, the enclosure will be a combination of configuration group A and B.
- ** Splice tray count and fiber routing may vary depending on how the LL-5D was ordered.

Group A



Figure 1 - Conduit Version



Figure 2 – Grommet Version

Group B

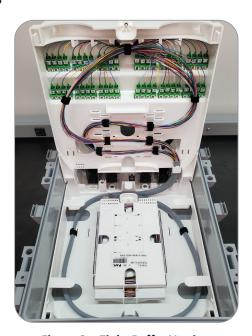


Figure 3 - Tight Buffer Version

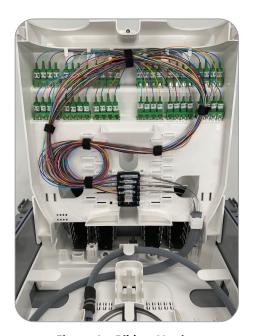


Figure 4 – Ribbon Version



LL-5D Enclosure

ENCLOSURE MOUNTING – WALL

- 1. Determine the mounting position of the enclosure on the wall.
- 2. Identify the two mounting tabs found on the top and bottom of the enclosure and mark to be pre-drilled for enclosure placement. The mounting hole positions are approximately 16 ½ inches apart (Figure 5).
- 3. Drill pilot holes in both previously marked locations (Figure 6).
- 4. For wall mounting, the mounting holes accept size #8 screws for mounting the enclosure.
- 5. Using local accepted practices and approved hardware, install screws at each mounting tab and secure the screws into the wall (Figures 7 and 8).







Figure 5

Figure 6

Figure 7



Figure 8



Figure 9



LL-5D Enclosure



ENCLOSURE MOUNTING - POLE

- 1. Determine the mounting position of the enclosure on the pole.
- 2. Identify the two mounting tabs found on the top and bottom of the enclosure and mark to be pre-drilled for enclosure placement. The mounting hole positions are approximately 16 ½ inches apart (Figure 10).
- 3. Drill pilot holes in both previously marked locations.
- 4. For pole mounting, it is recommended to use ¼" lag screws to mount the enclosure. This will require the mounting holes to be widened with a drill bit to accept the lag screws (Figure 11).
- 5. Using local accepted practices and approved hardware, install screws at each mounting tab and secure the screws into the pole (Figures 12 and 13).



Figure 10



Figure 11



Figure 12



Figure 13



Figure 14



ENCLOSURE PREPARATION – DOOR REMOVAL

- 1. Using a 3/8" can wrench, unscrew the upper and lower security screws holding the cover closed (Figures 15 and 16).
- 2. Compress both tabs of the door towards the enclosure, push up, and swing open the door (Figure 17).
- 3. Position the enclosure door perpendicular to the enclosure and pull away from the hinge to release the door at the three-hinge points. Place the door to the side (Figures 18 and 19).





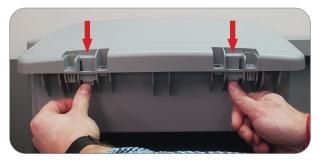


Figure 17



Figure 16

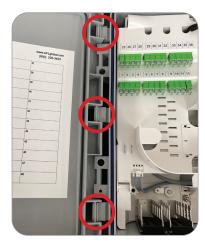
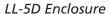




Figure 18

Figure 19







ENCLOSURE PREPARATION – SEAL/GROMMET – GROMMET VERSION

- 1. Remove the grommets intended for use, along with the drop retention brackets, by pulling them up out of the enclosure (Figure 20).
- 2. Remove the gasket seal from the enclosure and set aside in a spot free of dirt or debris (Figure 21).
- 3. Slit the grommet ports intended for use with a utility knife by slitting down the side of the grommet port. Use cut-resistant gloves and observe all appropriate safety measures (Figures 22 and 23).







Figure 22

Figure 20

Figure 21



Figure 23



ENCLOSURE PREPARATION – CONDUIT DRILL OUT – CONDUIT VERSION

- **NOTE** Conduit drill-out steps are only necessary if enclosure was <u>not</u> ordered with pre-cut holes, or if the top holes need to be cut out.
- 1. Identify the conduit fitting size to be used and select the appropriate hole saw drill bit. Measure to guarantee the appropriate drill out ring is used for what's needed (Figures 24 and 25).
- 2. Using the drill and appropriate drill bit, carefully drill out conduit openings while always observing all safety precautions and PPE requirements with the task (Figures 26 and 27). Conduit drill guides exist on both the bottom and top of the enclosure and should be removed based on the project parameters.
- 3. Ensure all cuttings and debris from drilling holes are removed from the unit before proceeding, to guarantee a clean work environment for future steps.
- 4. Install conduit fitting by inserting the threaded end into the enclosure (Figure 28). Place supplied O-ring over the conduit fitting and secure with threaded retaining locknut (Figure 29).
- 5. Make certain the fittings are centered over the hole to create the best possible seal and tighten by hand. Repeat steps for any other ports or adapter sizes needed (Figure 30).



C C SE CRAFTSMAN.



Figure 24

e 24 Figure 25

Figure 26







Figure 27



Figure 28

Figure 29







ENCLOSURE PREPARATION – ADAPTER PANEL REMOVAL

- 1. Using a 5/32" Hex head tamper-proof screwdriver, release the security screw holding the adapter panel shut (Figures 31 and 32).
- 2. Lift the hinged adapter panel so it sits open freely (Figure 33).
- 3. If the enclosure was ordered with additional splice trays, release them from their locked position by depressing the tab on the splice tray yoke and lift the trays up 90 degrees (Figure 34).
- 4. Remove the splice trays one at a time by hinging the splice tray at an angle and inserting a flathead screwdriver or other flat tool between one of the hinges to disengage (**Figure 35**). Set splice trays to the side until needed for splicing.







Figure 32

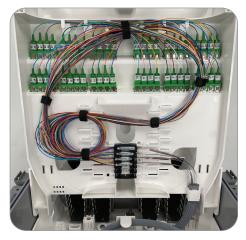


Figure 33

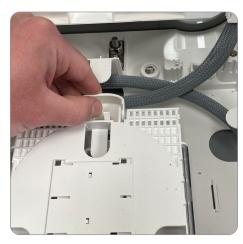
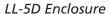


Figure 34



Figure 35







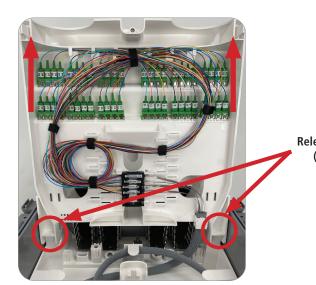
ENCLOSURE PREPARATION – ADAPTER PANEL REMOVAL (cont.)

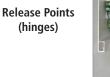
- 5. Remove pre-installed Velcro securing the meshed fiber and place to the side (Figures 36 and 37).
- 6. Pull on the upper corners of the adapter panel to release the unit from the hinges (Figure 38).
- 7. Place to the side of the enclosure in a safe area. DO NOT "hang" or leave mesh sheathing under tension, as there is fiber inside (Figure 39).





Figure 36 Figure 37





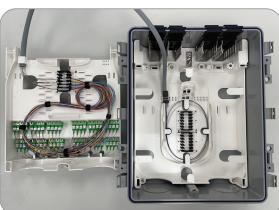


Figure 39

Figure 38



LL-5D Enclosure

CABLE PREP LENGTH TABLE

NOTE This table should be used as a reference guide for determining the right cable preparation length. Applications will vary.

Table 2

CABLE/COMPONENT	TYPE OF OPENING	LL-5D
Prep Length		(in.)
Wrapping Tube Cable (WTC)/Rollable Ribbon	Mid sheath	64-100**
	End cut	54-72**
Flat Matrix Ribbon	Mid sheath	88-90*
	End cut	54-74*
Loose Tube fiber	Mid sheath	64-100**
	End cut	54-72
All cable types	Sheath to tray	36
CSM or strength members (Non SWR®)		2-2 1/4
Storage		
Each additional storage loop in backplate		36
Each additional Splice tray service loop		18

Definition	
Midsheath	Slack loop in backplate, service loop in tray, center cut
End cut	Slack loop in backplate, service loop in tray, to far splice location
Sheath to tray	Slack loop in backplate

* Ribbon minimum is slack loop in backplate, no slack waterfall splicing in tray	
** Minimum. No service loop in splice tray — maximum allowing for service loop in splice tray	

AFL Wrapping Tube Cable (WTC)

• No need to secure strength rods.

Loose tube

• Leave loose tube stranding intact wherever possible in slack loop.



LL-5D Enclosure

CABLE ATTACHMENT UNIT

Parts of the CAU (Figures 40 and 41)

- Sheath end
- Hose clamp gear nest in CAU
- Strength member retention bolt
- Alignment tab on back
- SWR® breakaway line
- Spur Bracket

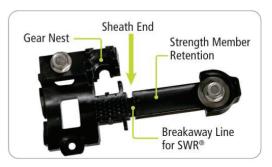




Figure 41

Figure 40

Trim strength member (single or dual) to 2-2 1/4" as needed.

Cable must be clean and free of all tape, dirt, or contamination for proper sheath retention and sealing.

For WTC/SWR®

- Remove the strength member retention from the CAU at the breakaway line by hand (Figure 40).
- Armored WTC sheath will end at the CAU sheath end location (Figure 42).

For Flat Matrix and LT

- Sheath should be installed even with (or beyond) the breakaway line.
- 2. Secure strength members under retention bolt without trapping or pinching tubes (Figure 43).

Spur Bracket Orientation under Hose Clamp

1. The spur bracket MUST be installed completely under the hose clamp ring at the top of the cable (Figure 44)

For mid-sheath on all WTC / SWR® binders and tubed flat matrix ribbon, ensure there is no twisting in the mid sheath opening that occurs to trap groups in the splice basket.

For all Thin-Walled Jettable Micro Cable

Install hose clamp without the spur bracket on any thin-walled micro cable (Figure 45).

For traditional cable types

- Secure hose clamp and install spur bracket making sure it is properly oriented (spur bracket on top of cable), but do not fully tighten.
- 2. If cable is armored, a tab should be left for the ground clamp. The tab should be past the hose clamp (Figure 42).
- Tighten hose clamp to 30 in-lb, which is about the maximum one can get on a can wrench.



Figure 42

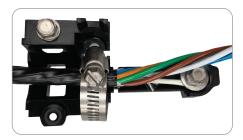


Figure 43



Figure 44



Figure 45







CABLE PREPARATION

- 1. Using the length table above, determine the total length needed in the enclosure. Measure and mark the cable (Figure 46).
- 2. Use accepted local practice to remove the cable sheath where it has been marked (**Figure 47**). Remove outer jacket, water blocking tape, ripcords, core binders, etc. and discard. If cable contains central strength members or aramid yarn that need to be secured, leave several inches of them remaining. They will be trimmed and secured under the cable attachment unit in subsequent steps (**Figure 48**).
- 3. If grounding is required, install a grounding clamp under the sheath (Figure 49). Ensure the grounding clamp contacts the cable armor and secure. The ground clamp should be tethered to the ground plate located at the front end of the enclosure (Figure 50).



Figure 46



Figure 47

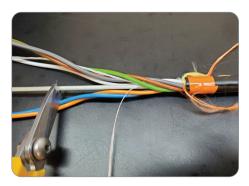


Figure 48



Figure 49



Figure 50



LL-5D Enclosure



CABLE INSTALLATION

- 1. If using the **conduit version** of the LL-5D, insert prepared cable through conduit entrance. (**Figure 51**).

 If installing the **grommet version of the LL-5D, omit this step.**
- 2. Locate the cable attachment unit (CAU) within the unit packaging (**Figure 52**). Attach the cable attachment unit to the cable by tightening the hose clamp. Ensure the hose clamp is oriented properly in the gear nest (**Figure 53**).
- 3. If cable contains a central strength member and/or aramid yarn, cut to length to secure (**Figure 54**). Once under the strength member retention, secure strength members under retention bolt without trapping or pinching tubes (**Figure 55**).
- 4. Before fully tightening down the hose clamp, insert spur bracket between the hose clamp and cable sheath. Finish tightening the hose clamp around the cable (**Figure 56**).



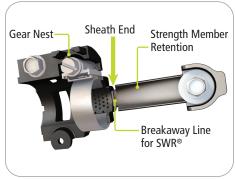


Figure 52



Figure 53



Figure 51







Figure 56

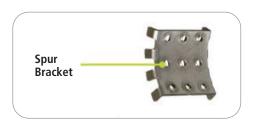
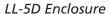


Figure 57







CABLE INSTALLATION (cont.)

- 5. If using the **conduit version**, place cable attachment unit and cable into position, and secure using the 3/8" can wrench (**Figures 58 and 59**).
- 6. If using the **grommet version**, place the drop retention bracket inside the enclosure in front of the grommet port (**Figure 60**).
- 7. Locate the grommet that was cut in previous steps and insert cable into cable port (Figure 61). Using caution not to kink the cable, slide the grommet into the enclosure, in line with the drop retention bracket (Figure 62).
- 8. Gently pull cable outward until the cable attachment unit is seated in the alignment tab, and secure the CAU using the 3/8" can wrench (Figure 63).







Figure 58 Figure 59



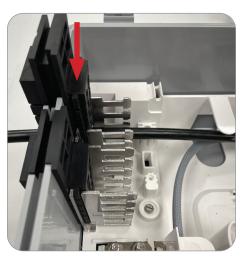




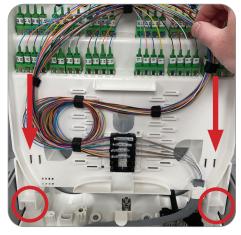
Figure 61 Figure 62 Figure 63



ENCLOSURE PREPARATION – ADAPTER PANEL INSTALLATION

- 1. Route meshed fiber back into the enclosure and reattach Velcro (Figure 64).
- 2. Position the adapter panel over the hinges and push downward to reattach (Figure 65).
- 3. Ensure the connectorized pigtails have the proper slack and adjust routing, if needed, to prevent potential macrobending issues (Figure 66).





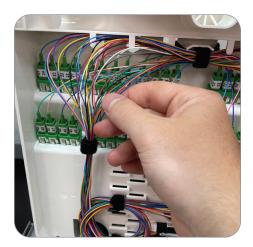


Figure 64

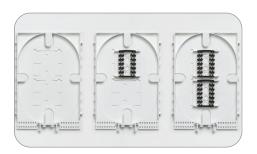
Figure 66

ENCLOSURE PREPARATION – SPLICE CHIP CONFIGURATIONS

Splice trays can be shipped empty, partially loaded or fully loaded and splice modules are field removable (Figure 67). Each Splice Tray holds up to two splice modules, each splice module has six splice chips. In each splice chip, single fusion splices can be triple stacked, and mass fusion splices can be double stacked (Table 3).

Figure 65

NOTE Single splice sleeves can be quad-stacked if using AFL Slim Protection Sleeves.



	TRAY CAPACITY	
DESCRIPTION	SINGLE	MASS
X-2S Tray Loaded with One Splice Module	18	72
X-2S Tray Fully Loaded with Two Splice Modules	36	288



Table 3

Figure 67

- To add a splice module to splice tray, simply align the latch tabs (Figure 68).
- 2. Slide to engage (Figure 69).
- To remove a splice module, simply disengage the locking tabs on the back with a pair of shears and slide module to release latch (Figure 70).

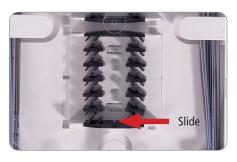


Figure 69

Figure 68



Figure 70







ENCLOSURE PREPARATION – FIBER ROUTING – RIBBON VERSION

- 1. Route the slack sub-units or buffer tubes around in the backplate of the enclosure. Ensure they are routed under the Cable Attachment Unit (Figures 71 and 72).
- 2. Route the sub-units or buffer tubes intended for splicing into the splice tray and mark slightly beyond the wall of the splice tray (Figure 73).
 - **NOTE** The amount of cable routed in the enclosure and splice tray will depend on the cable length chosen from the <u>Length Table on page 13</u>.
- 3. Wrap Velcro on the cable at multiple locations to neatly dress the cable slack in the backplate (Figure 74).
- 4. Using an appropriate ringing tool, cut and remove the sub-unit or buffer tube where it was previously marked in step 2 (Figure 75). Remove any aramid yarn, water-blocking material, or gel from the fiber (Figure 76).







Figure 73

Figure 71 Figure 72

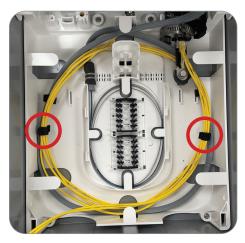






Figure 74 Figure 75 Figure 76







ENCLOSURE PREPARATION – FIBER ROUTING – RIBBON VERSION (cont.)

- 5. Insert two tie wraps at the splice tray entrance (**Figure 77**). This will be used to secure the sub-units or buffer tubes to the splice tray.
- 6. Using the supplied adhesive foam included with the splice tray, cut a piece of foam and wrap around the sub-unit or buffer tube (up to 2 at a time). Cinch tie wraps securely around the foam, but not too tight that it damages the sub-unit or buffer tube. Cut tie wrap tails flush (Figures 78 and 79).

NOTE If using SWR® or Ribbon, use the supplied foam with the non-adhesive side down (Figure 80). Alternatively, use the AFL WTC-SWR Foam Retention (AFL P/N: HW00406) to protect the bare fibers and secure with tie wraps (Figure 81). The fiber should have some movement after tie wraps are secured to ensure no attenuation.



Figure 77

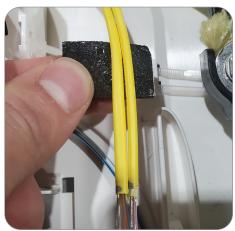


Figure 78



Figure 79

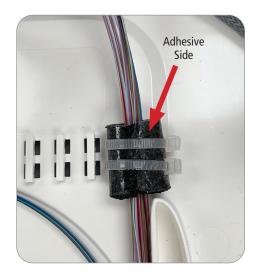


Figure 80

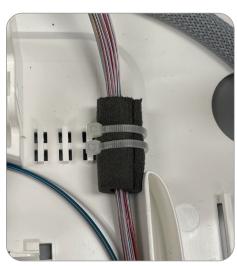


Figure 81







ENCLOSURE PREPARATION – FIBER ROUTING – TIGHT BUFFER VERSION

- 1. Route the slack sub-units or buffer tube around in the backplate of the enclosure (**Figure 82**). Ensure these are routed under the Cable Attachment Unit (**Figure 83**).
- 2. Route the appropriate buffer tubes or sub-units to the splice tray and mark slightly beyond the wall of the splice tray (Figure 84).
 - **NOTE** The amount of cable routed in the enclosure and splice tray will depend on the cable length chosen from the Length Table on page 13.
- 3. Elevate the splice trays so that they sit in the open position and begin by removing the cover off the lower splice tray (Figure 85). Uncoil the factory installed fibers in the splice tray and carefully set the tails out of the way (Figure 86).
- 4. Using an appropriate ringing tool, cut and remove the buffer tubes or sub-units where it was previously marked in step 2 (Figure 87). Remove any aramid yarn, water-blocking material, or gel from the fiber.

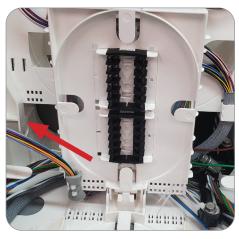






Figure 82 Figure 83 Figure 84





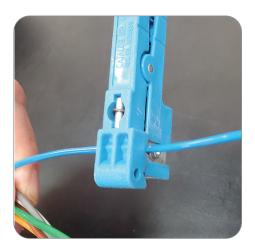
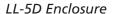


Figure 85 Figure 86 Figure 87



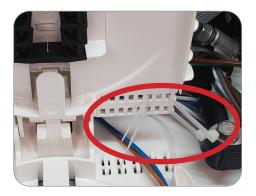


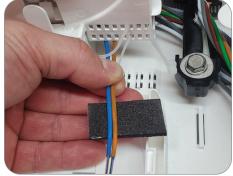


ENCLOSURE PREPARATION - FIBER ROUTING - TIGHT BUFFER VERSION (cont.)

5. Insert two tie wraps where the tubes will enter the splice tray (Figure 88).

- 6. Using the supplied adhesive foam included with the splice tray, cut a piece of foam and wrap around the sub-unit or buffer tube. Cinch tie wraps securely around the foam, but not too tight that it damages the sub-unit or buffer tube. Cut tie wrap tails flush (Figures 89 and 90).
- 7. Route all fiber back into tray and replace splice tray cover (Figure 91). Repeat steps for the second splice tray.
- 8. Route any unused buffer tubes or sub-units in the backplate and use Velcro to neatly dress them (Figures 92 and 93).





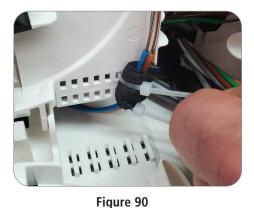


Figure 88 Figure 89

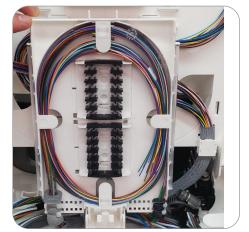






Figure 93

Figure 91 Figure 92







SPLICING

Fiber length and splice location in the splice tray will depend on cable length chosen from the <u>Length Table on page 13</u>.

- 1. Route fiber in splice tray to determine proper lengths and splice locations (Figure 94). Cut any excess fiber that is not desired (Figure 95).
- 2. Remove fiber from the tray to prepare for splicing. Keep a record of the fiber groupings to guarantee successful splicing.
- 3. Following approved splicing procedures, prepare two fiber ends for fusion splice (Figure 96). After acceptable splice, route the fiber in the splice tray, securing the splice sleeve into the splice chip (Figure 97).

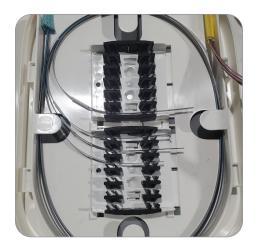






Figure 96

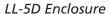
Figure 94

Figure 95



Figure 97







DROP CABLE INSTALLATION – CONDUIT VERSION

- **NOTE** It is recommended to use pre-terminated drop cables for installing the drops on the customer side. If using stubbed drop cable, such as standard flat drop cable, ensure that proper furcation tubing is added to any exposed bare fiber for protection when routed in the enclosure.
- 1. Prepare drop cables for installation into the enclosure. Before inserting connectors into adapters, use proper cleaning techniques to clean adapters and connectors (Figures 98 and 99).
- 2. Feed drop cables through the conduit entry holes and route cables appropriately. Use the routing wall and Velcro to manage drop cable slack (**Figure 100**).
- 3. Use the lances on each side of the adapter panel to secure drop cable groupings with tie wraps or Velcro (Figure 101).
- 4. Once enclosure is fully populated with drops, tighten down the safety screw to secure the adapter panel (Figure 102). Re-install LL-5D door by pressing back into the 3 hinge positions (Figure 103). The door can be installed to open in either direction.





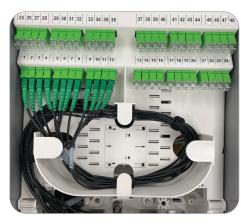


Figure 98

Figure 99

Figure 100



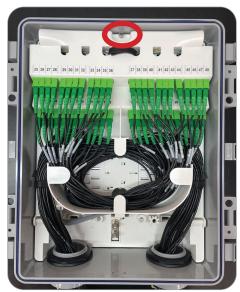


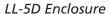


Figure 101

Figure 102

Figure 103







DROP CABLE INSTALLATION – GROMMET VERSION

- **NOTE** It is recommended to use pre-terminated drop cables for installing the drops on the customer side. If using stubbed drop cable, such as standard flat drop cable, ensure that proper furcation tubing is added to any exposed bare fiber for protection when routed in the enclosure.
- 1. Prepare additional grommets for drop cable installation by slitting all needed drop openings along the side (Figures 104 and 105). Take all safety precautions when using sharp tools.
- 2. Install drop cables into the pre-slit openings in the grommet two to three round drops per port, or one flat drop per port (Figure 106).
- 3. Once grommet is fully populated, install grommet and drop retention bracket into the enclosure. Begin routing drop cables into the enclosure (Figure 107).
- 4. Before inserting connectors into adapters, use proper cleaning techniques (Figures 108 and 109).





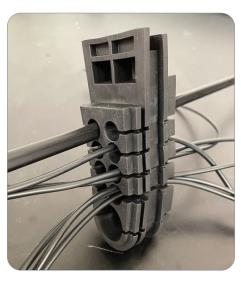


Figure 104

Figure 105

Figure 106





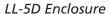


Figure 107

Figure 108

Figure 109







DROP CABLE INSTALLATION - GROMMET VERSION (cont.)

- 5. Continue to fully populate the rest of the drops, using Velcro to route and organize the drops (Figures 110 and 111).
- 6. Use the lances on each side of the adapter panel to secure drop cable groupings with tie wraps or Velcro (Figure 112).
- 7. To prevent cable pull-out, foam and tie wraps can be used to secure the drop cables to the drop retention brackets (**Figure 113**). If installing a non-terminated flat drop cable, end the sheath at the metal bracket and secure it to the bracket using foam and tie wraps (**Figure 114**).



Figure 110



Figure 111



Figure 112

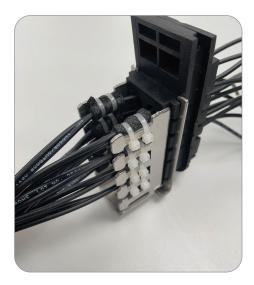


Figure 113

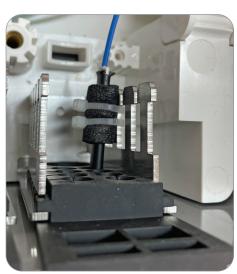


Figure 114



LL-5D Enclosure

DROP CABLE INSTALLATION - GROMMET VERSION (cont.)

- 8. Once the enclosure is fully populated with drops, re-install the gasket seal around the edge of the enclosure and tighten the safety screw to secure the adapter panel (Figure 115).
- 9. Re-install the LL-5D door by pressing it back into the three hinge positions (Figure 116). The door can be installed to open in either direction.





Figure 115 Figure 116

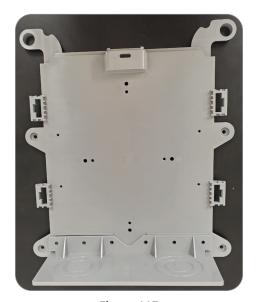






SKIRT KIT INSTALLATION – OPTIONAL

- 1. Align the holes of the bottom plate to the skirt backplate (Figure 117). Join the two with $\frac{1}{2}$ #8 screws to secure and make a single assembly (Figure 118).
- 2. If the enclosure has already been mounted, temporarily remove the bottom mounting screw.
- 3. Pull the bottom of the enclosure slightly away from the mounting surface and slide the skirt backplate under it so that the bottom pegs of the enclosure sit in the corner holes of the backplate (**Figure 119**).
- 4. Re-install the lower enclosure mounting screw to secure (Figure 120).
- 5. Drill pilot holes in each of the four mounting hole locations (Figure 121).





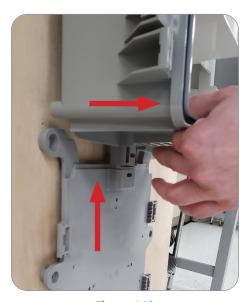


Figure 117 Figure 118 Figure 119

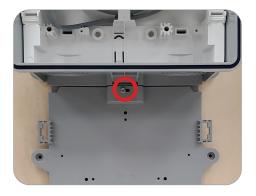


Figure 120



Figure 121



SKIRT KIT INSTALLATION - OPTIONAL (cont.)

- 6. Position skirt cover over the backplate and with light force, push side tabs into the backplate, securing the skirt in position (Figure 122).
- 7. Install four screws into the pilot holes to secure the skirt assembly (Figure 123).



Figure 122

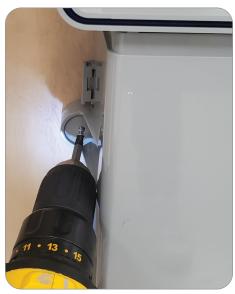


Figure 123



Figure 124



Figure 125