

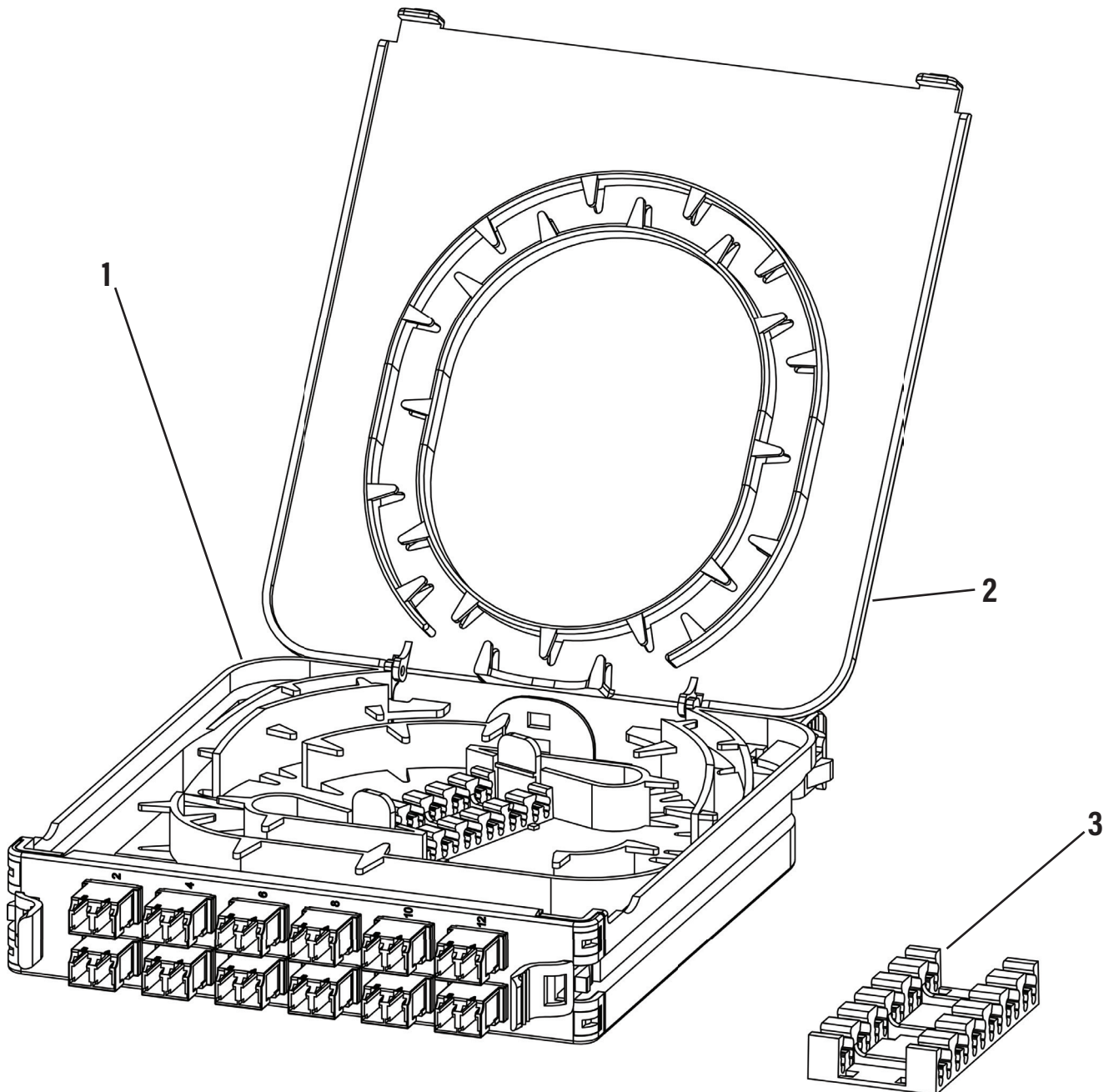
ECX SPLICE CASSETTE INSTALLATION GUIDE

PX106485 - EN REV C

Carton contents

1. Housing
2. Cover
3. Universal splice holder
4. Color-coded pigtails
(for configured **FP** cassette only, not shown)
5. Cable tie (not shown)

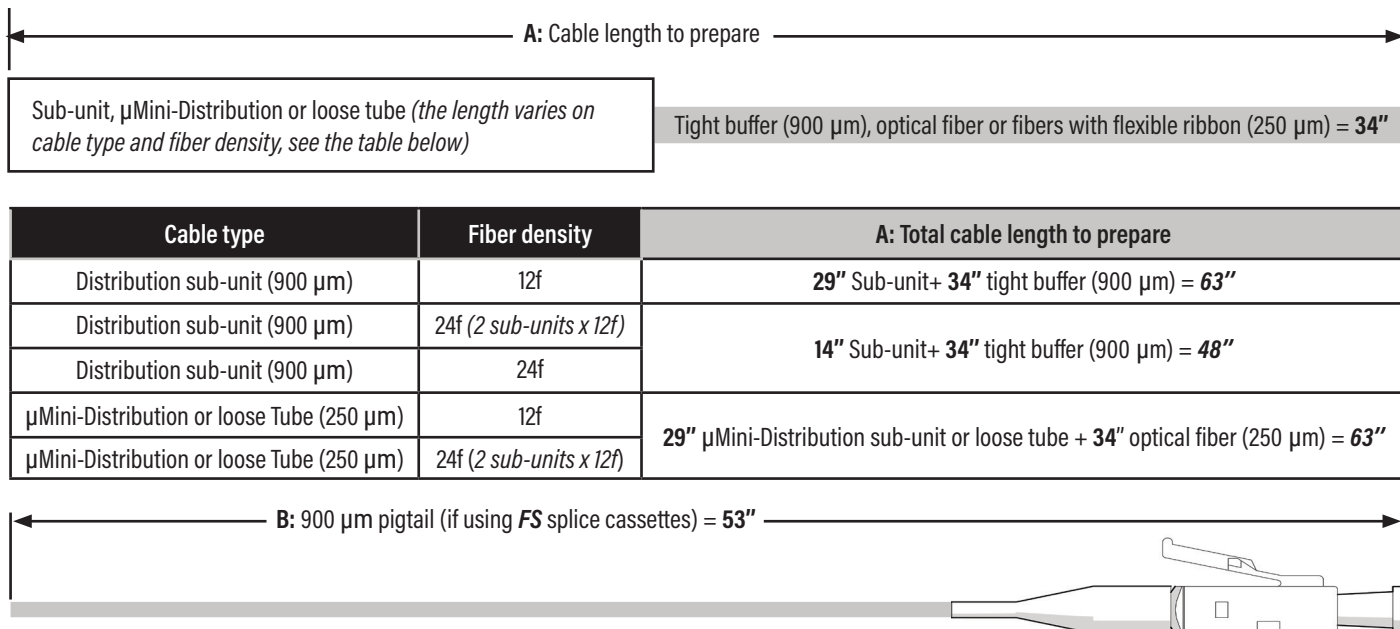
FCxX12LDFS is shown as reference only



The following instructions describe fiber routing and splicing inside the splice cassette. Please take note that the splice cassette is adapted for splicing and managing 900 μm tight buffer, 250 μm optical fiber or fibers with flexible ribbons.

Routing fibers in the splice cassette (using sub-unit cable, μmini Distribution or loose tubes)

- 1 Prepare the cable length (letter **A**) and pigtail (letter **B**, if using **FS** splice cassettes) by following the information below:

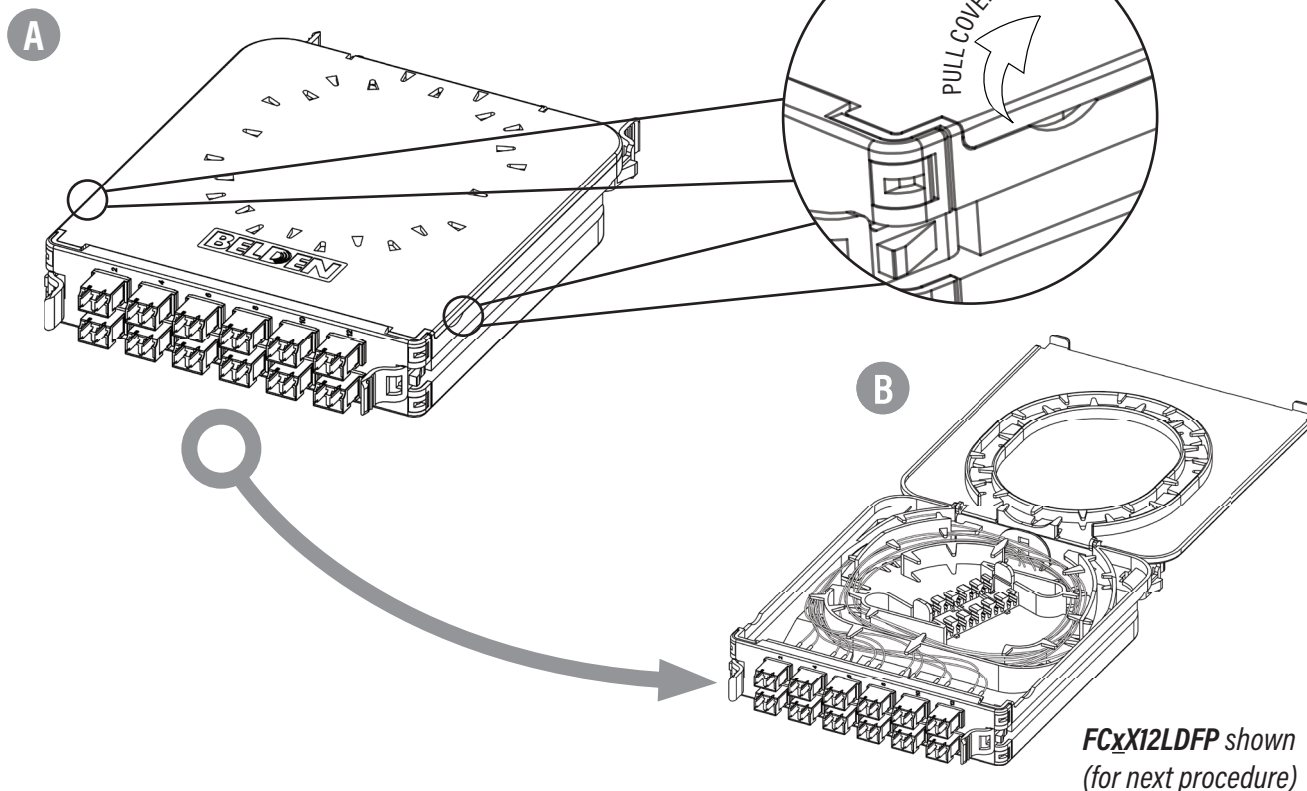


NOTE: Most of the routing/splicing instructions will be shown on a 12-port LC splice cassette with both configuration (**FS-FP**).

It's not possible to insert 4 sub-unit cables of 6 fibers (24f) in a cassette.

To know the cable length required outside the cassette please refer to our ECX patch panel installation guides **PX106841 (1U-2U)** and **PX106843 (4U)** available at our webpage www.belden.com

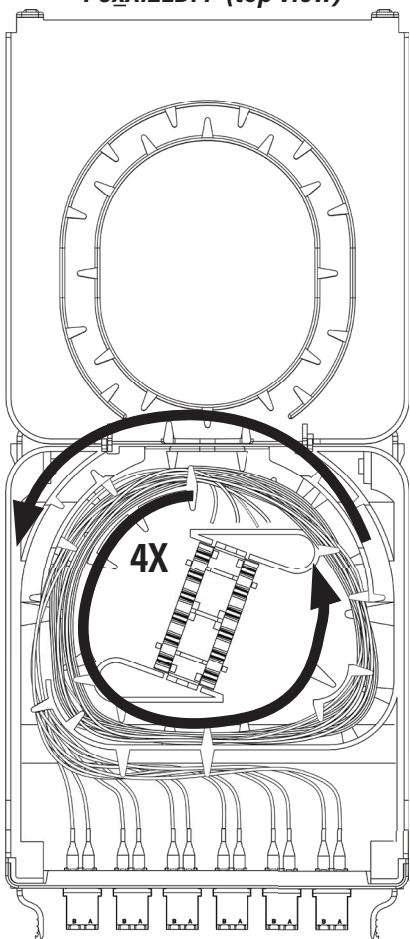
- 2 Open the splice cassette.
If the splice cassette is not loaded with pigtails (**FS** cassette), pass directly to the **page 4**.



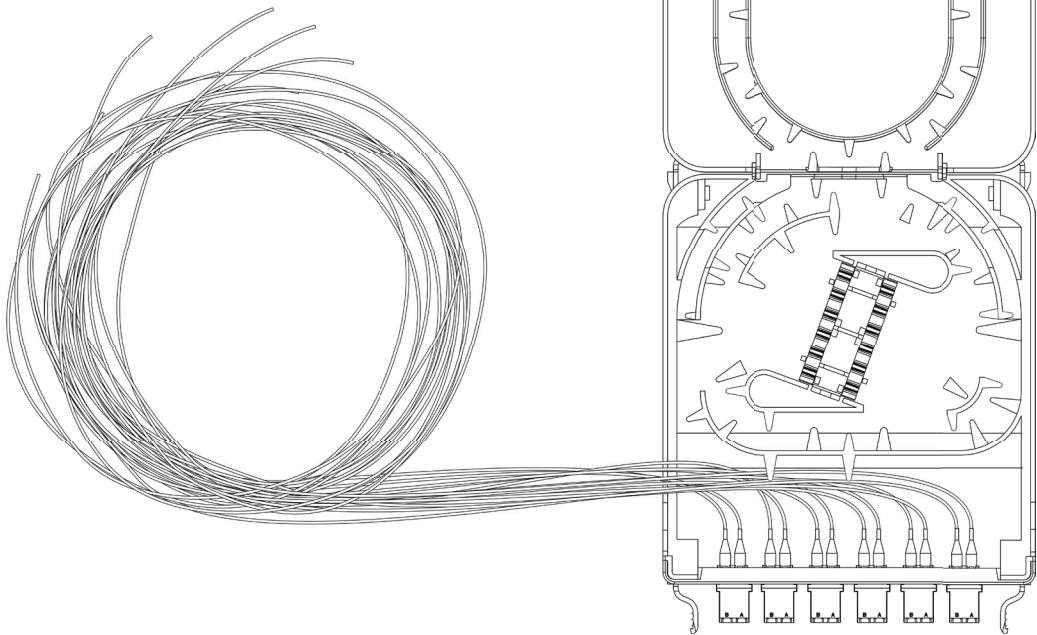
3 Unloop the pigtails from the cassette.

A

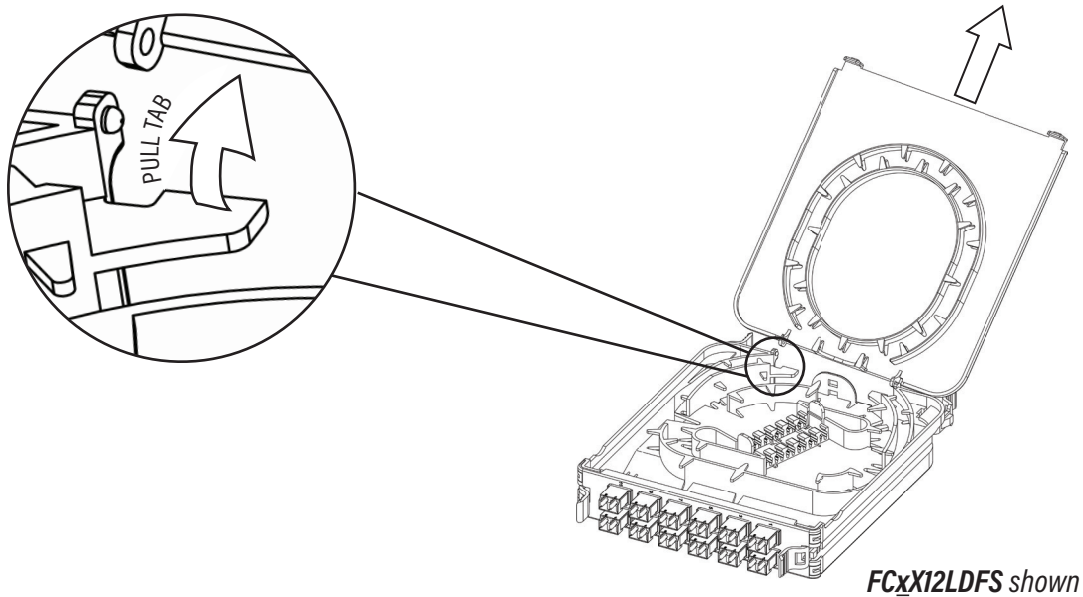
FCxX12LDFP (top view)



B



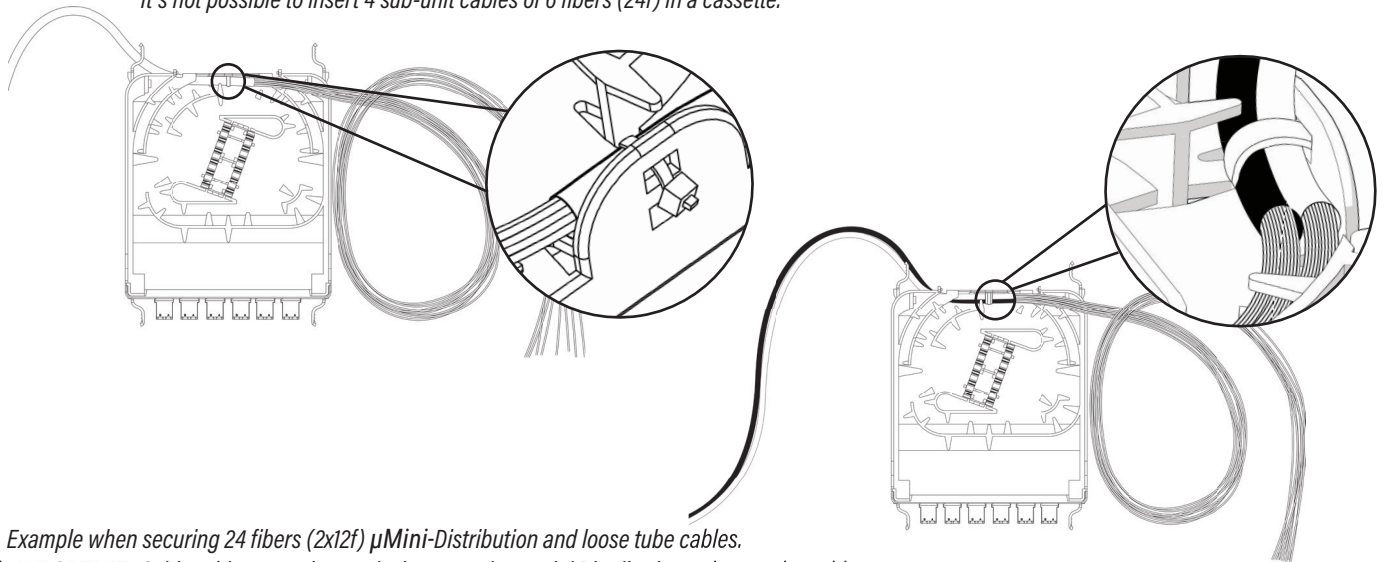
4 Pull one of the housing tabs to remove the cover.



5 Secure the end of the sub-unit with the provided cable tie.

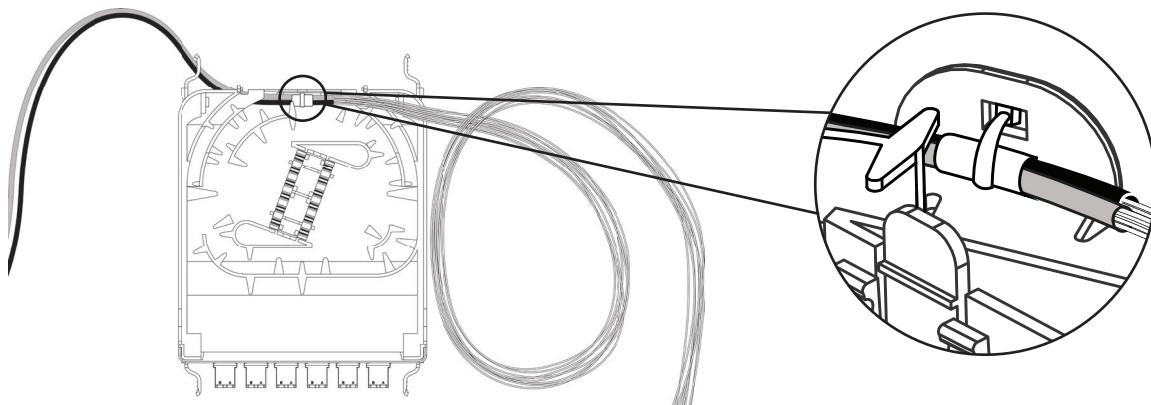
Example when securing 12 or 24 fibers (2 x 12f) distribution sub-unit cables.

- ⚠ **IMPORTANT:** For a distribution sub-unit of 24 fibers (1 x 24f) the cable is only secured at the bottom of the cassette (refer to the [page 6](#) for more details). In the case of securing (2) sub-units, the cables must be placed horizontally to permit routing the fibers (900 μ m) under the tabs. This procedure is also applied for 2 x 12f μ Mini-Distribution and loose tube cables (250 μ m). It's not possible to insert 4 sub-unit cables of 6 fibers (24f) in a cassette.

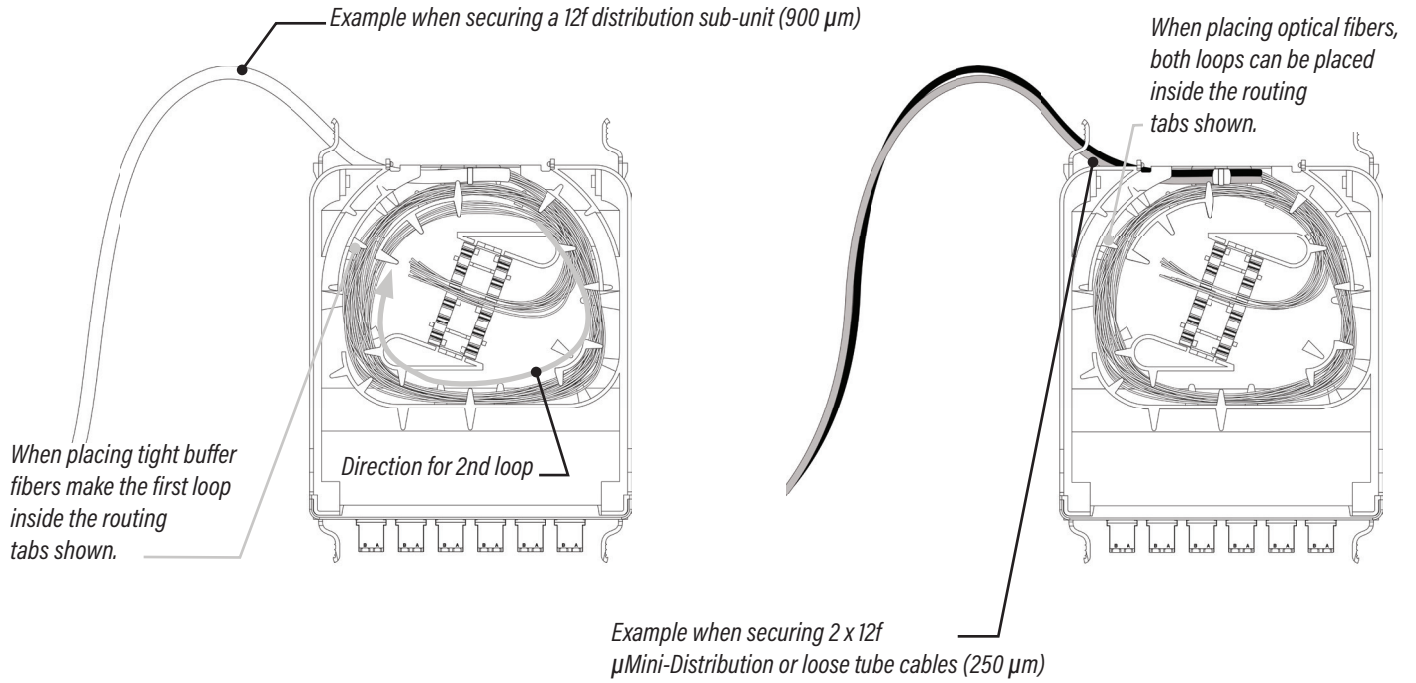


Example when securing 24 fibers (2x12f) μ Mini-Distribution and loose tube cables.

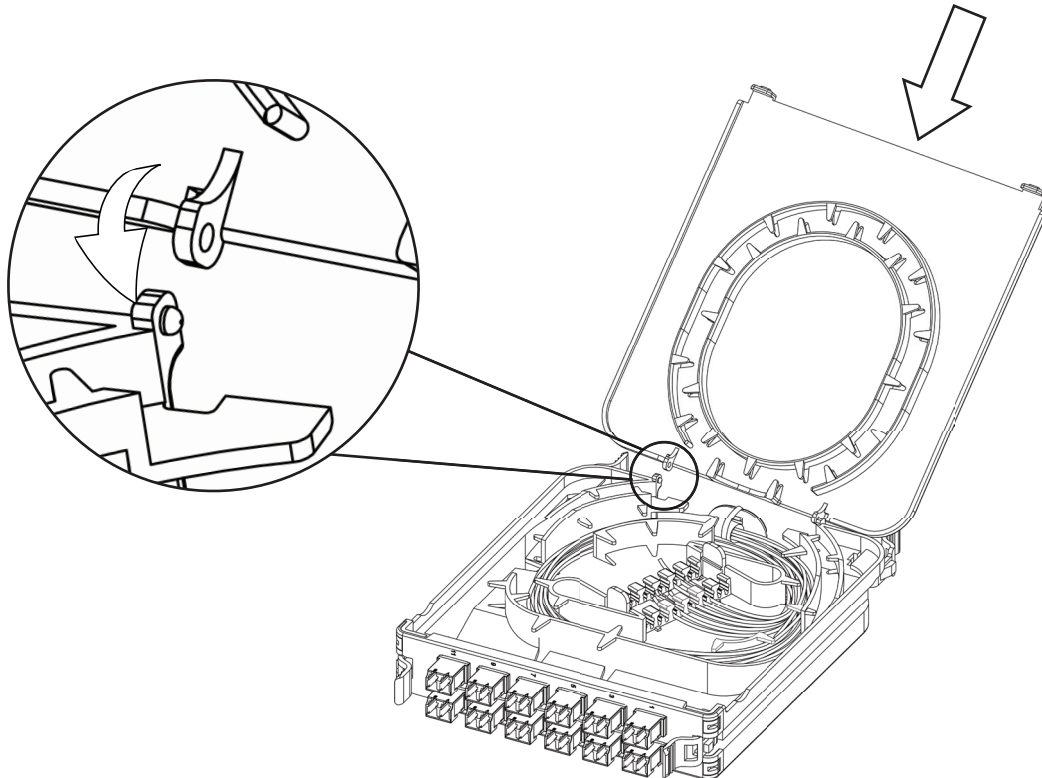
- ⚠ **IMPORTANT:** Cable rubber must be used when securing μ mini Distribution or loose tube cables.



- 6** Loop the fibers twice (2) as shown.
Make sure all fibers are well positioned under routing tabs.



- 7** Reinstall and close the cover.
For the preloaded pigtailed cassette (**FP**), make sure to reposition the fibers inside the routing tabs before closing the cover.



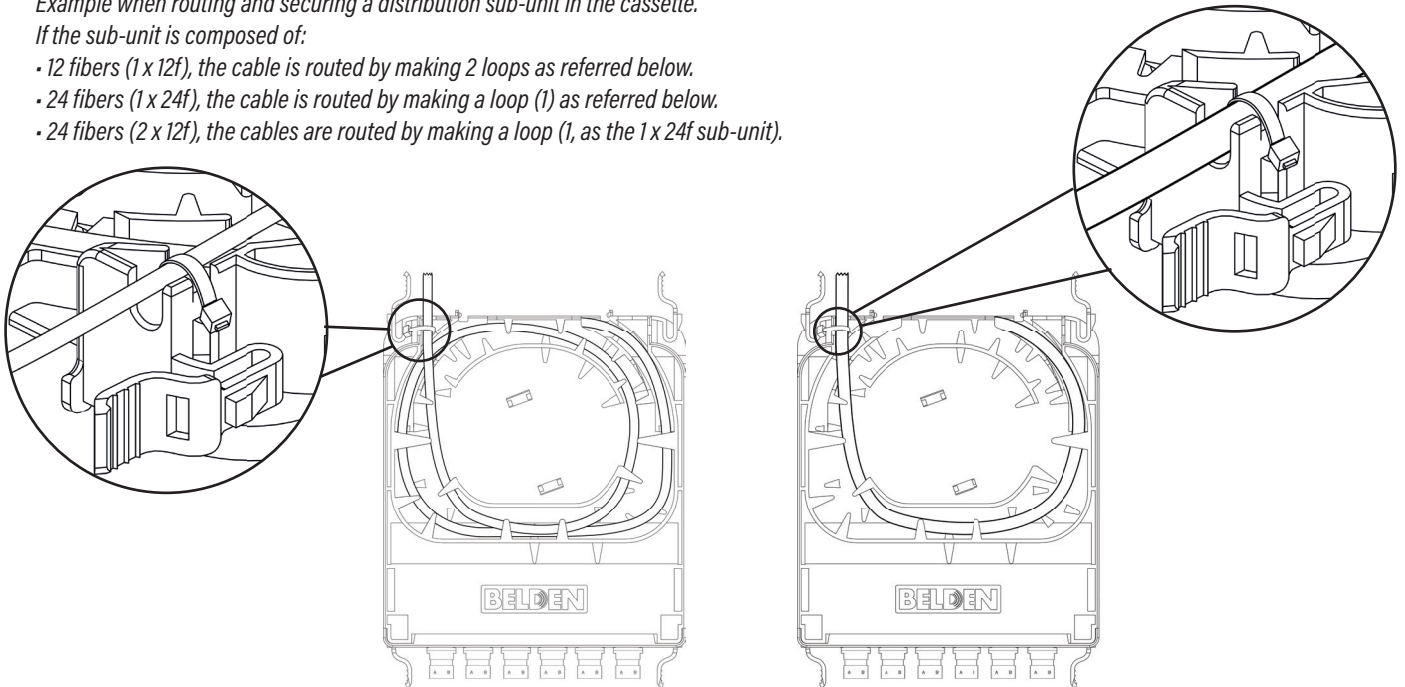
FCxI2LDfS shown

- 8** Flip the cassette.
Position the sub-unit cable under the routing tabs and secure it with the provided cable tie.

Example when routing and securing a distribution sub-unit in the cassette.

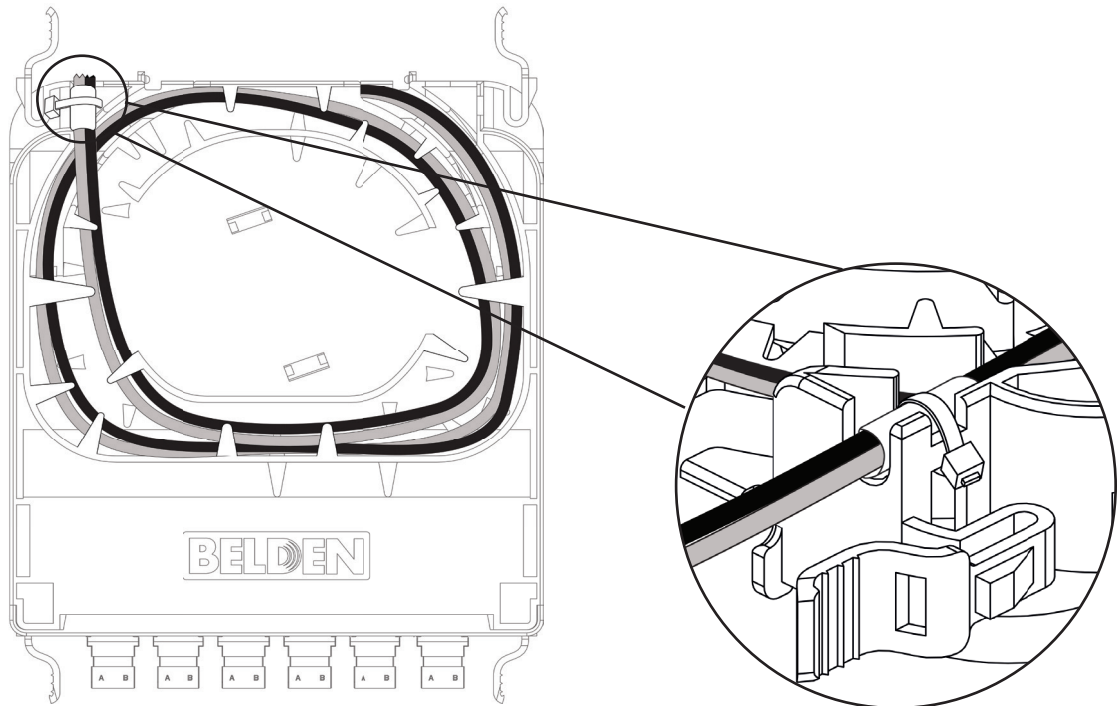
If the sub-unit is composed of:

- 12 fibers (1 x 12f), the cable is routed by making 2 loops as referred below.
- 24 fibers (1 x 24f), the cable is routed by making a loop (1) as referred below.
- 24 fibers (2 x 12f), the cables are routed by making a loop (1, as the 1 x 24f sub-unit).

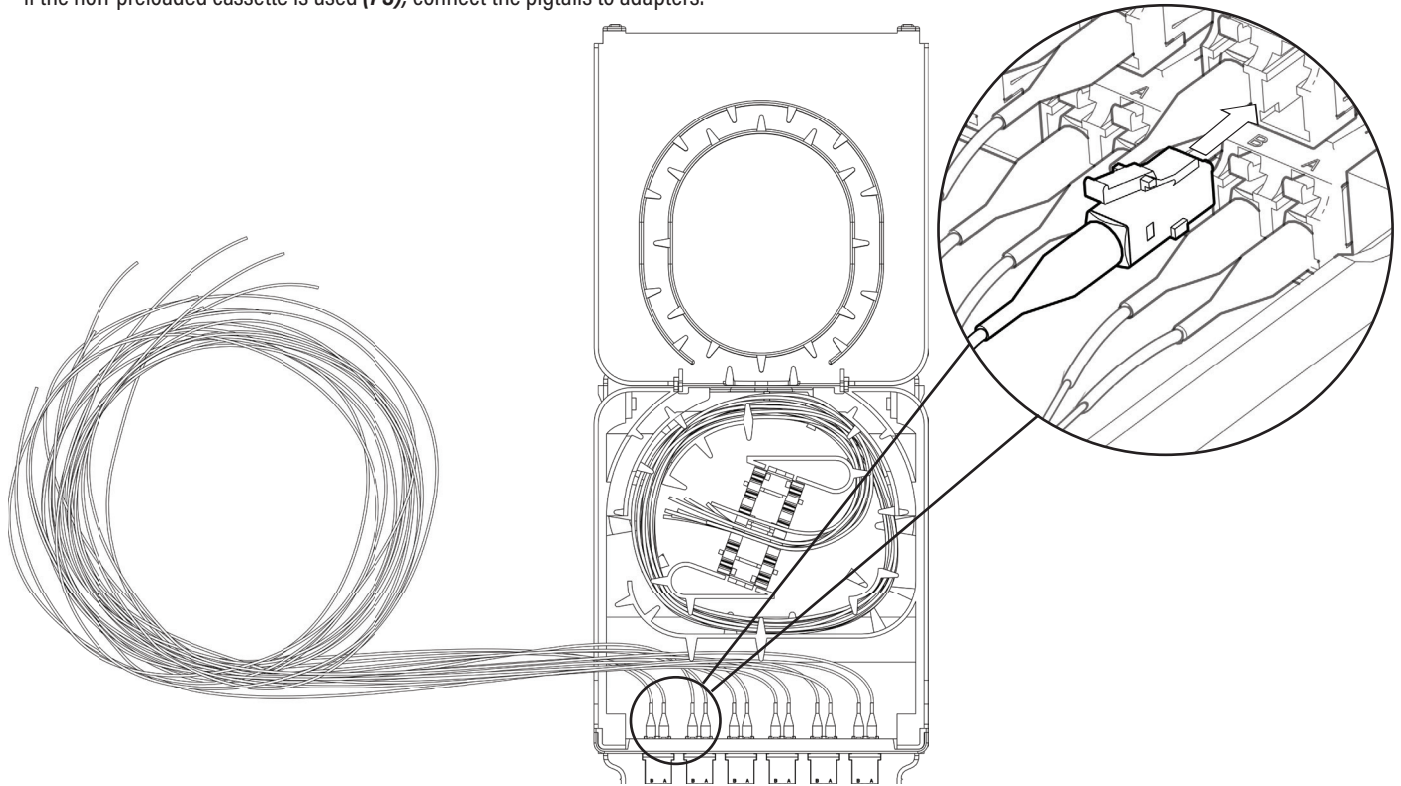


Example when routing & securing a 2x12f μ Mini-Distribution or loose tube cables in the cassette.

! **IMPORTANT:** Cable rubber must be used when securing μ mini Distribution or loose tube cables.



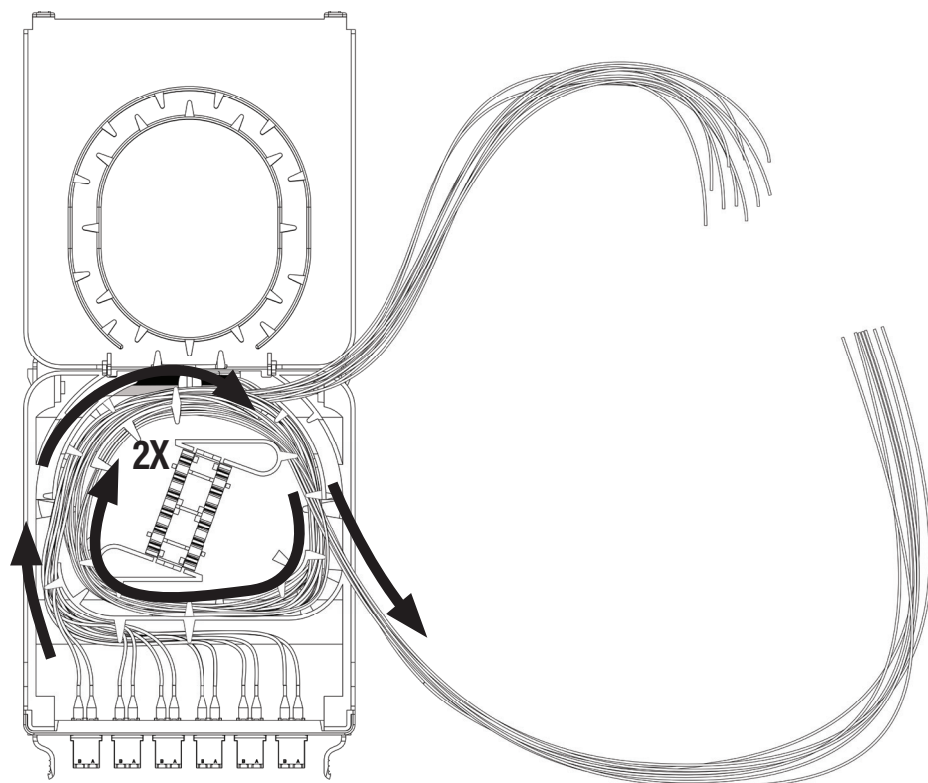
- 9** Flip the cassette.
 Open the cover.
 If the non-preloaded cassette is used (*FS*), connect the pigtails to adapters.



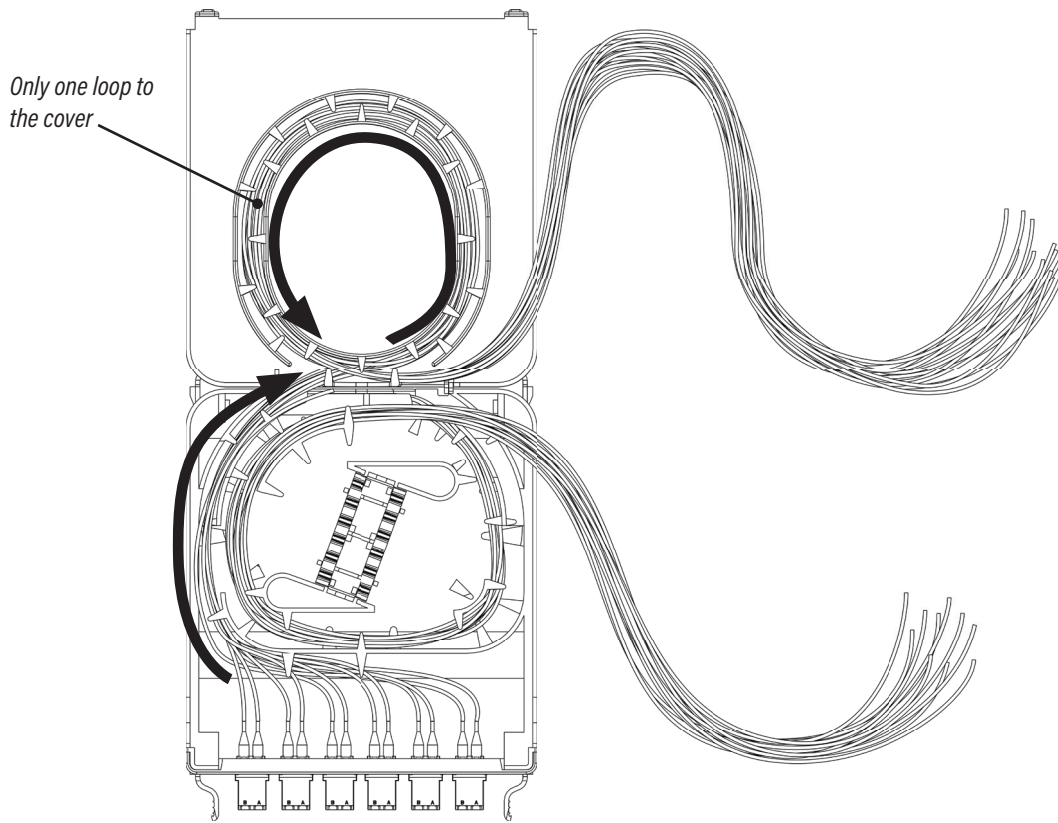
- 10** In order to prepare for splicing, unloop the fibers (tight buffer, optical or flexible ribbon) one time (1) from the housing.
 If the splice cassette is loaded with 250 μm pigtails (*FP*), route the pigtails by looping the fibers twice (2) on the housing.
 If the splice cassette is loaded with 900 μm pigtails (*FS*), route the pigtails by making only a loop (1) to the cover.

NOTE: Example when routing 250 μm pigtails in a *FP* cassette.

To see how to route 900 μm pigtails in a *FS* cassette, refer to the *next page*.

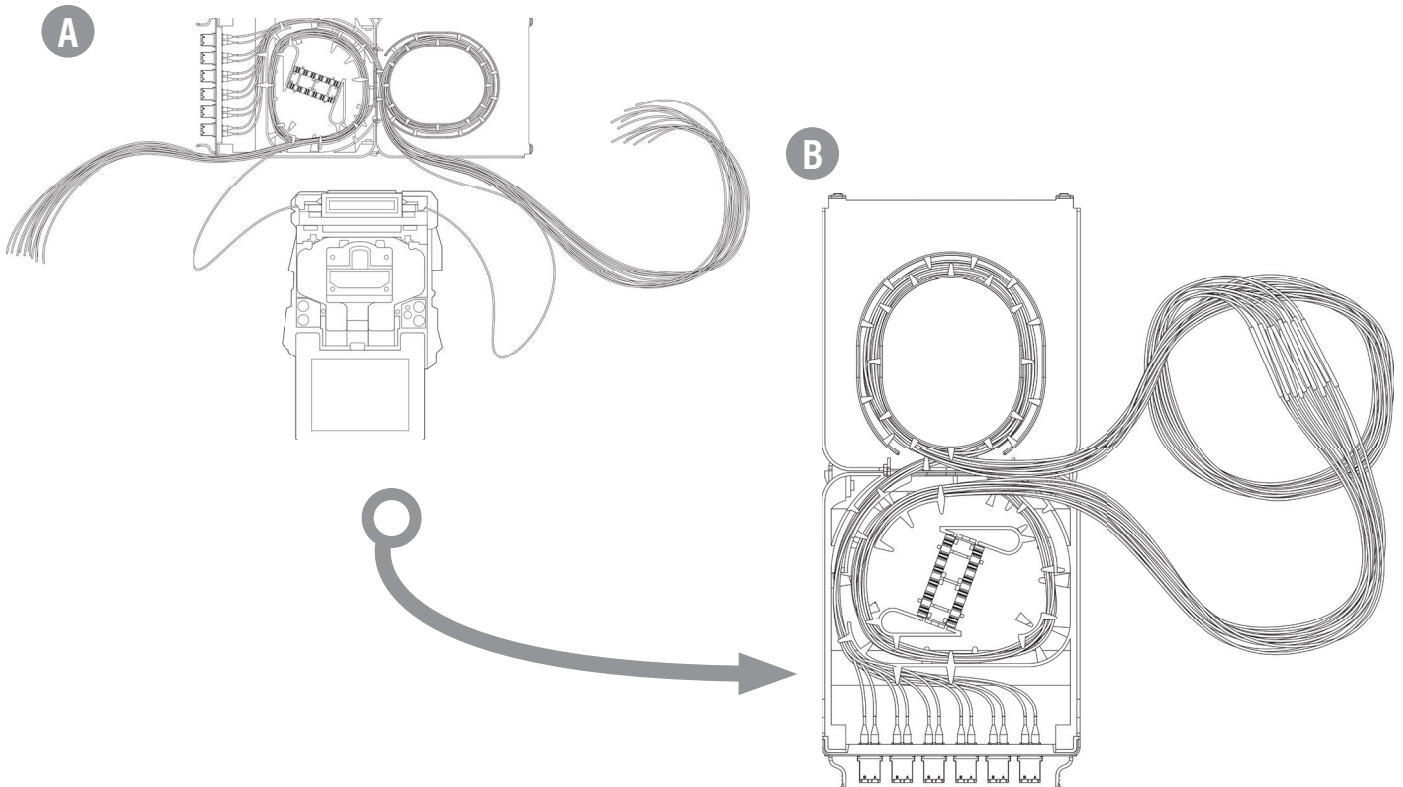


Example when routing 900 μm pigtails in a FS cassette.



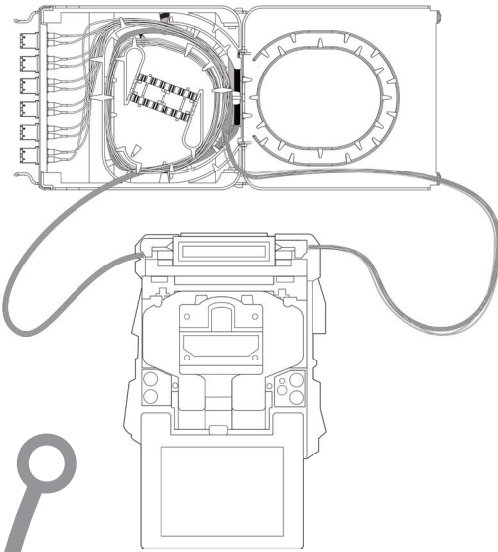
- 11 Splice the tight buffer (optical or flexible ribbon) fiber(s) to the pigtails (900 μm for configured FS cassette & 250 μm for configured FP cassette).

Example of a singular fusion splice

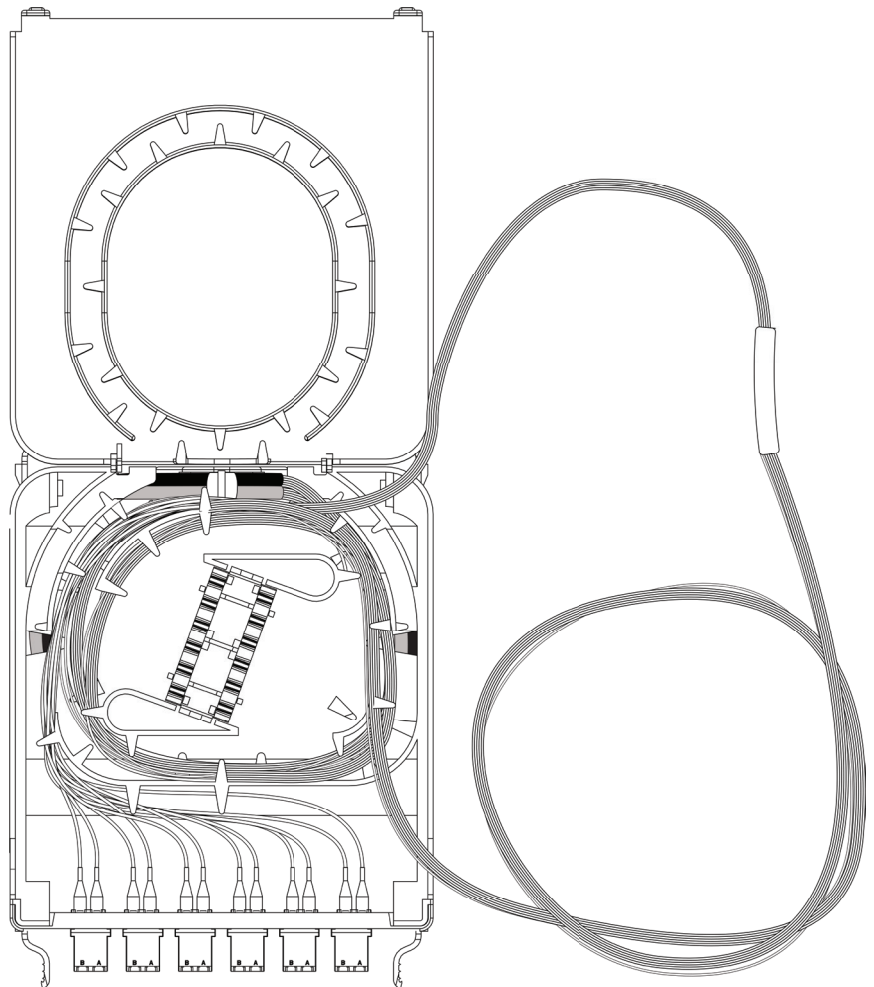


Example of a mass fusion splicing, only applicable when the cable (μ Mini-Distribution or loose tube cables) and preloaded pigtails (FP) are 250 μ m.

A

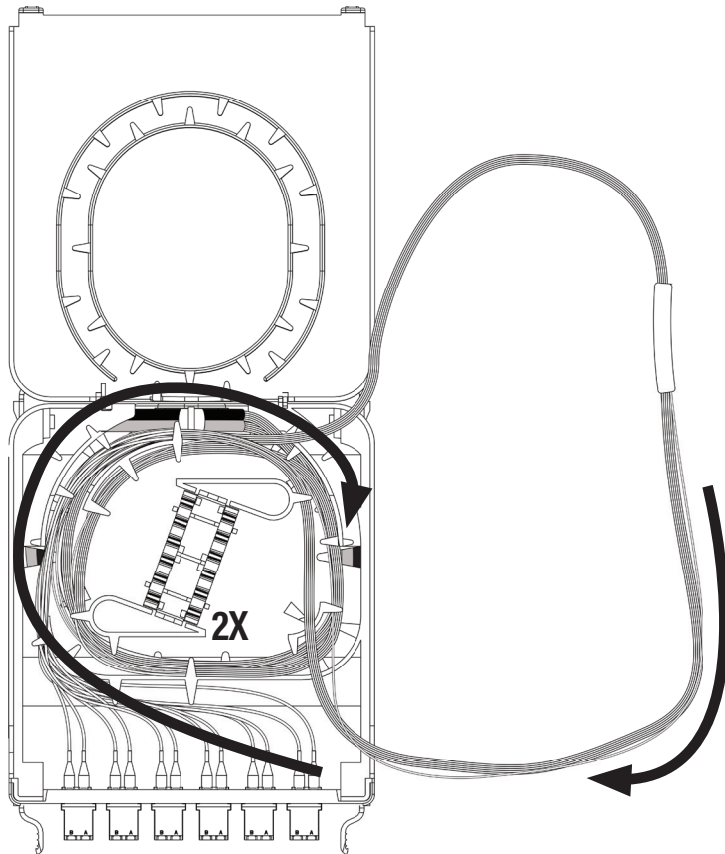


B

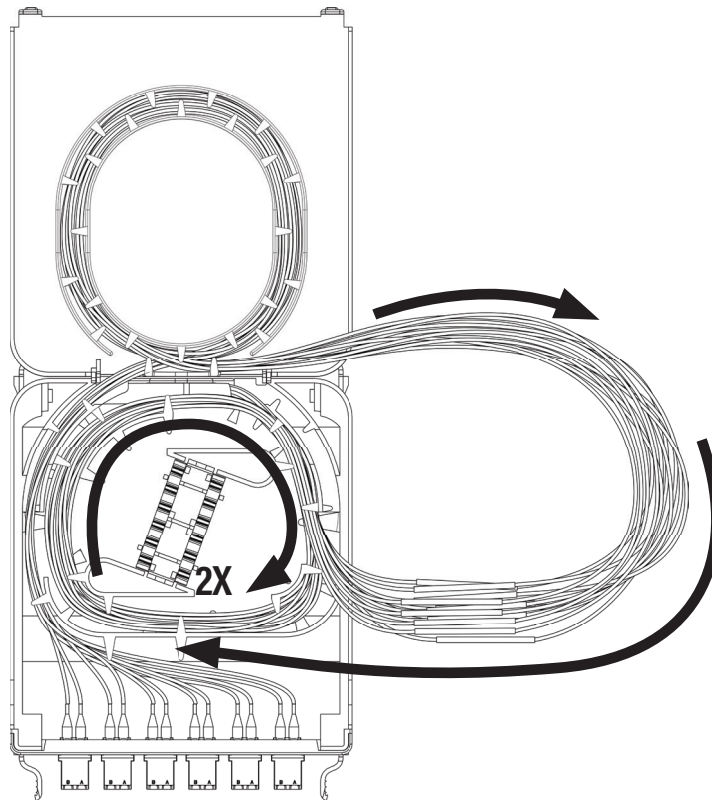


12. Route the spliced fibers (pigtail & tight buffer or optical fiber) by doing the remaining loops twice (2) to the cassette housing.

Example of an FP cassette with multiple spliced fibers in the same sleeve (mass fusion) to route.



Example of an FS cassette with each spliced fiber (single fusion) to route.



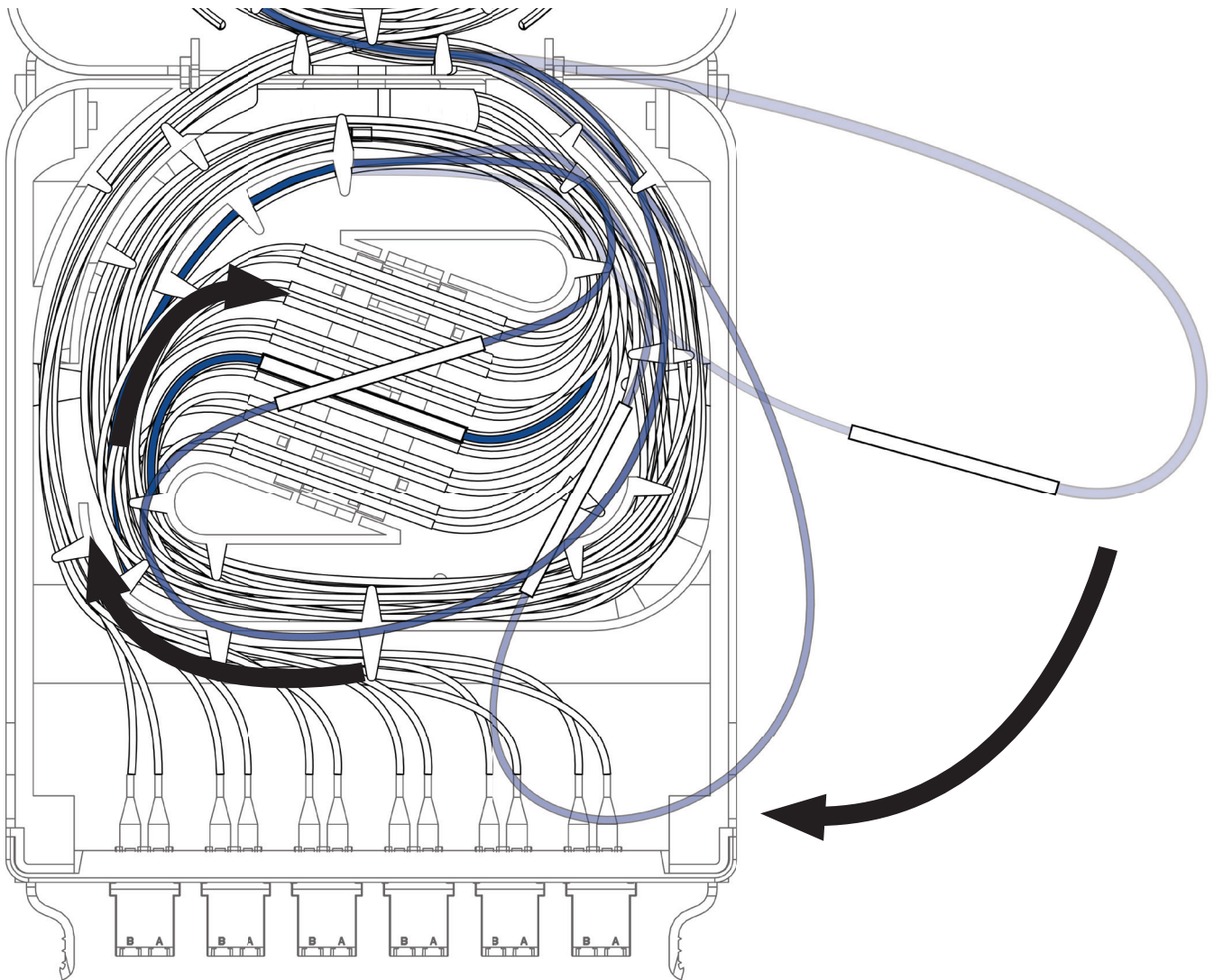
13 Insert the spliced fiber into the universal splice holder by doing an inverted "s" loop.

NOTE: The splice holder is compatible with Belden splice sleeves part numbers (post-shrink diameters):

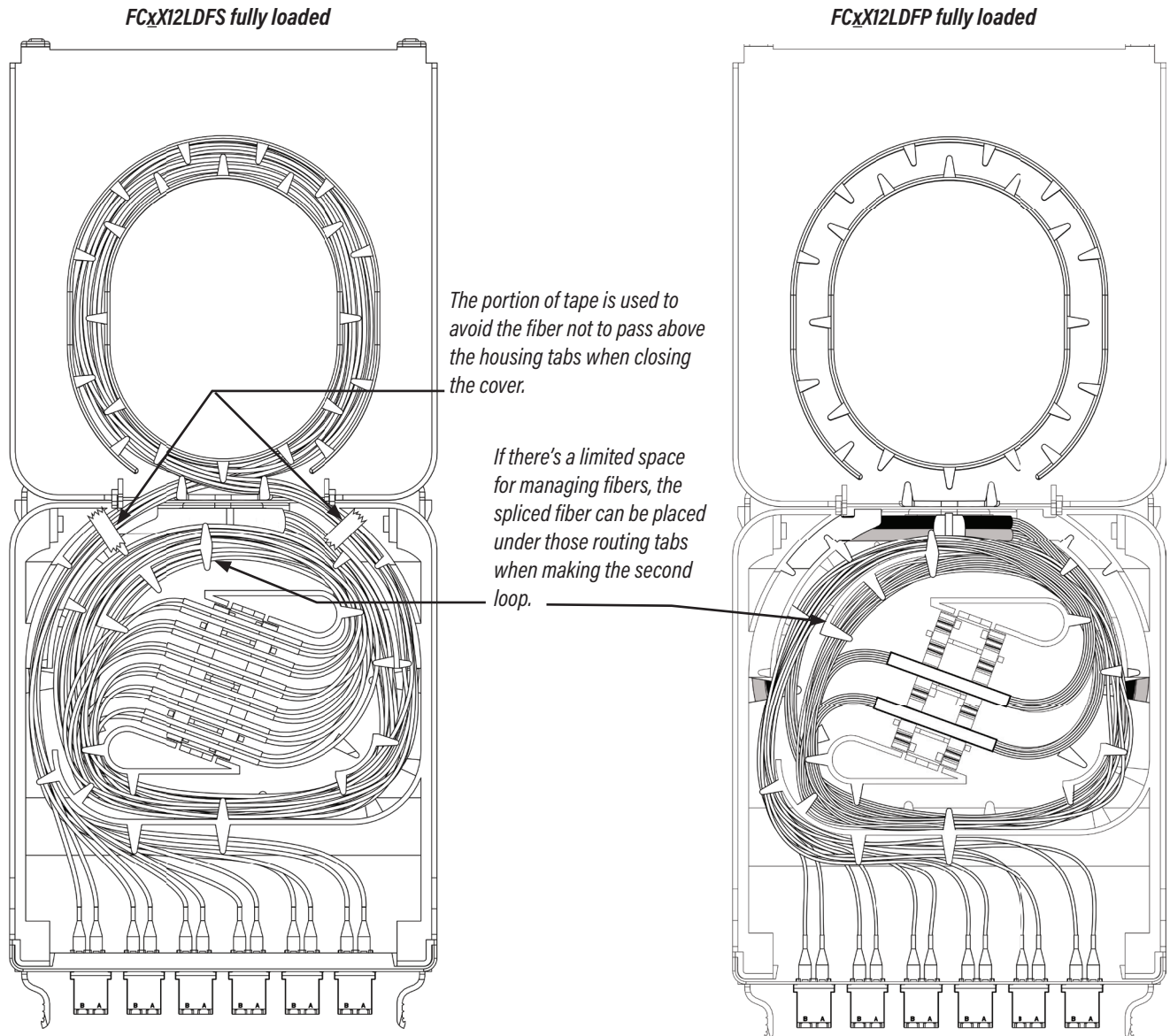
FXFUHS900AB25 (2.5 mm), FXFUHS9T2CB25 (2.0 mm), FXFUHS250DB25 (1.5 mm) and FXFUHSRIBEB12.

Contact Belden Tech Support when using other shrink sleeves for additional compatibility details.

The colored fiber below represents the movement when placing it to the holder.



- 14** Manage the rest of the fiber as shown.
Store it under the routing tabs.



ECX Splice Cassette - Installation Guide

PX106485 - EN REV C

This document is also available at our site:

www.belden.com

For more information about BELDEN Technical support, call at:

1-800-BELDEN-1