

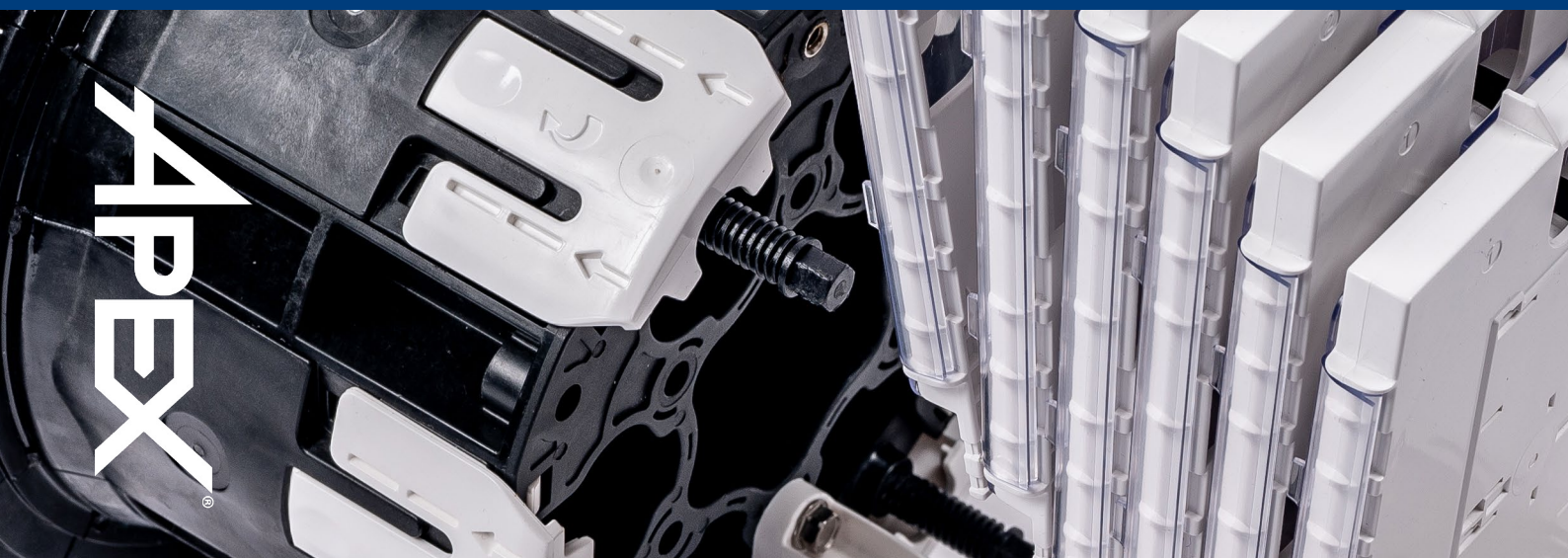


432f SPUR INSTALLATION GUIDE

Installation of 432f spur cable into the Apex splice closure.

This guide details the Network Rail-specific installation requirements when installing a 432f spur cable. See the Fujikura Network Rail Apex Installation guide for detailed Apex instructions.

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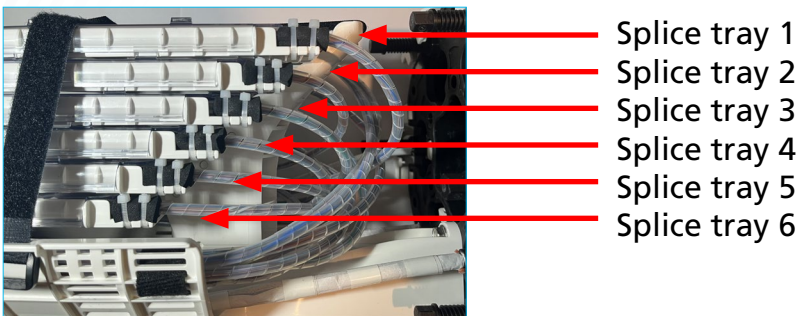
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This document details the method of installing a 432f spur cable during the initial installation of the Apex, or as an addition. All images will show the trunk fibre cable pre-installed, see the Fujikura Network Rail Apex install guide for further details.

Note:

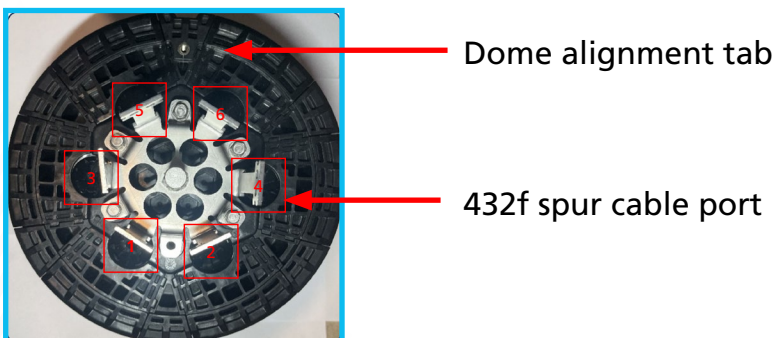
The 432f spur is installed using the lower 3 splice trays only (splice trays 4, 5, and 6) [figure 1].



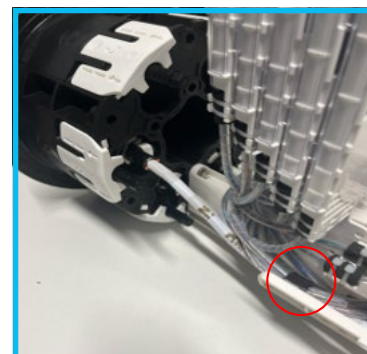
[Figure 1]

1 432F SPUR CABLE INSTALLATION

1. Install the 432f spur cable using cable port 4 following the standard cable installation procedure [figure 2].
2. Attach the water blocking tape section to the basket using Velcro [figure 3].



[Figure 2]

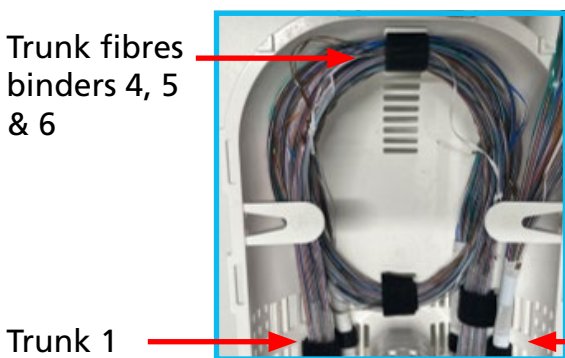


[Figure 3]

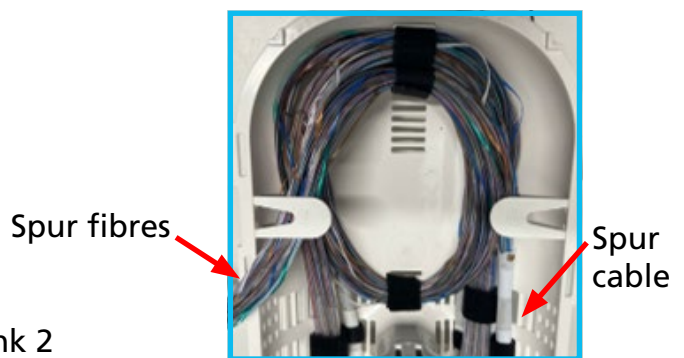
2 432F SPUR CABLE SLACK BASKET MANAGEMENT

When installing a 432f **spur** it is necessary to store additional slack in the basket to reduce the amount of fibre in the splice tray. Binders 4/5/6 of both **trunk** cables will also need to be looped in the basket. All other trunk fibre is installed as standard (No loop).

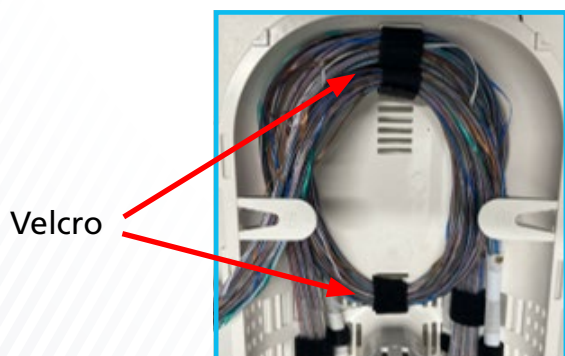
1.
Create a full loop for both **trunk** cable binder groups 4, 5, and 6 (brown, slate, white) around the basket [figure 4].
2.
Create a full loop for all the 432f **spur** fibres around the basket [figure 5].
3.
Secure the **trunk** and **spur** fibre using Velcro at the top of the basket and at the splice tray spine [figure 6].
4.
Add **320mm** of spiral wrap to each **trunk** binder group and route to the splice tray following the standard installation process [figure 7].



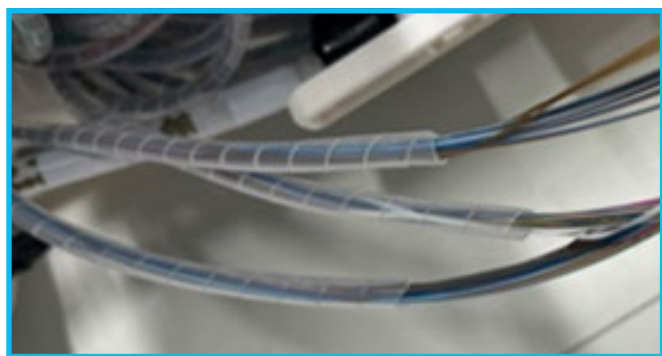
[Figure 4]



[Figure 5]



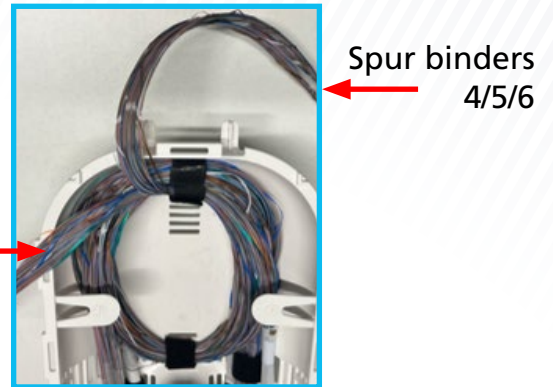
[Figure 6]



[Figure 7]

5. Separate the **spur** fibre into two sections, binder groups 1/2/3 and binder groups 4/5/6 [figure 8].

Spur binders 1/2/3



[Figure 8]

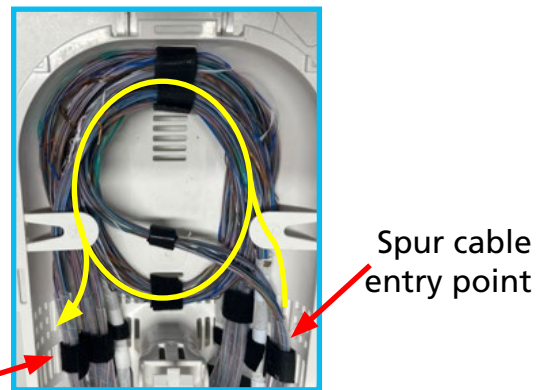
6. Add 350mm of spiral wrap to each spur binder group [figure 9].



[Figure 9]

7. Attach **spur** binder groups 1/2/3 using Velcro to the basket on the opposite side to the **spur** cable entry point [figure 10].

Binders 1/2/3

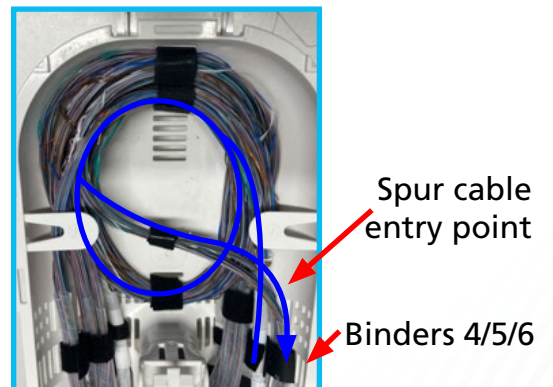


[Figure 10]

8. Create a cross over loop with **spur** binder groups 4/5/6 and attach to the basket using Velcro. The fibre must be attached to the basket on the same side as the cable entry point [figure 11].

Spur cable entry point

Binders 4/5/6



[Figure 11]

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432F SPUR CABLE SPLICE TRAY ALLOCATION

The spur cable binders are allocated as shown in the table below [table 1].

Trunk 1 binder	Spur binder	Splice tray (count from top)
Brown	Blue	4
Slate	Orange	5
White	Green	6

Trunk 2 binder	Spur binder	Splice tray (count from top)
Brown	Brown	4
Slate	Slate	5
White	White	6

[Table 1]

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432F SPUR CABLE SPLICE TRAY INSTALLATION

The following instruction detail the installation of splice tray 6 (lowest). Repeat for splice trays 4 and 5 following the allocation table [table 1].

1. Pass the spiral wrap around the back of the splice tray stack [figure 12].
2. Attach the green binder group to the splice tray (right hand side) using foam and cable ties [figure 13].
3. Attach the white binder group to the bottom tray (left hand side) using foam and cable ties [figure 13].

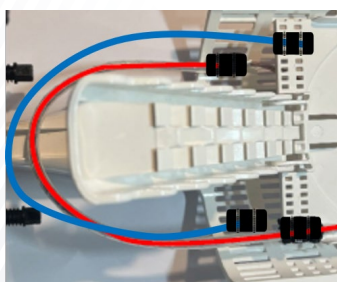


Figure 12

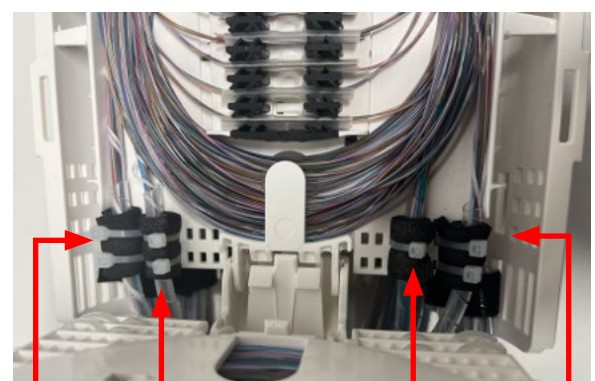


Figure 13

Trunk 1 Trunk 2
 Spur cable (white binder) Spur cable (green binder)

5 432F SPUR CABLE SPLICE TRAY CONFIGURATION

1. Route **trunk 1** fibres clockwise to the upper 6 splice holders on the left-hand side of the splice tray. The fibre must bend up into the splice holders. Store **2 loops** of fibre.
2. Route **trunk 2** fibres anti-clockwise to the lower 6 splice holders on the left-hand side of the splice tray. The fibres must bend down into the splice holders. Store **2 loops** of fibre.
3. Route the **spur** fibres (binders 1,2 or 3) anti-clockwise to the upper 6 splice holders on the right-hand side of the splice tray. The fibres must bend up into the splice holders. Store **2 loops** of fibre.
4. Route the **spur** fibres (binders 4, 5 or 6) clockwise to the lower 6 splice holders on the right-hand side of the splice tray. The fibres must bend down into the splice holders. Store **2 loops** of fibre.

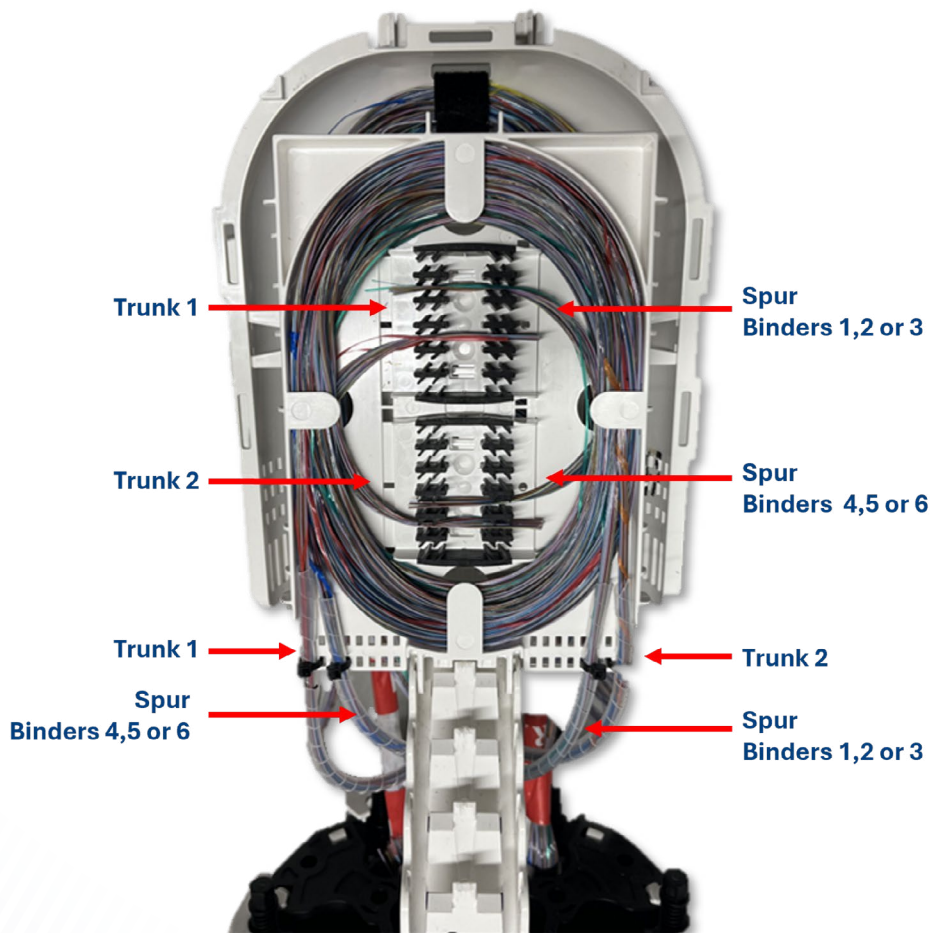


Figure 14

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432F SPUR CABLE SPLICING

Splice the spur cable as shown in the images below [figure 15/16].

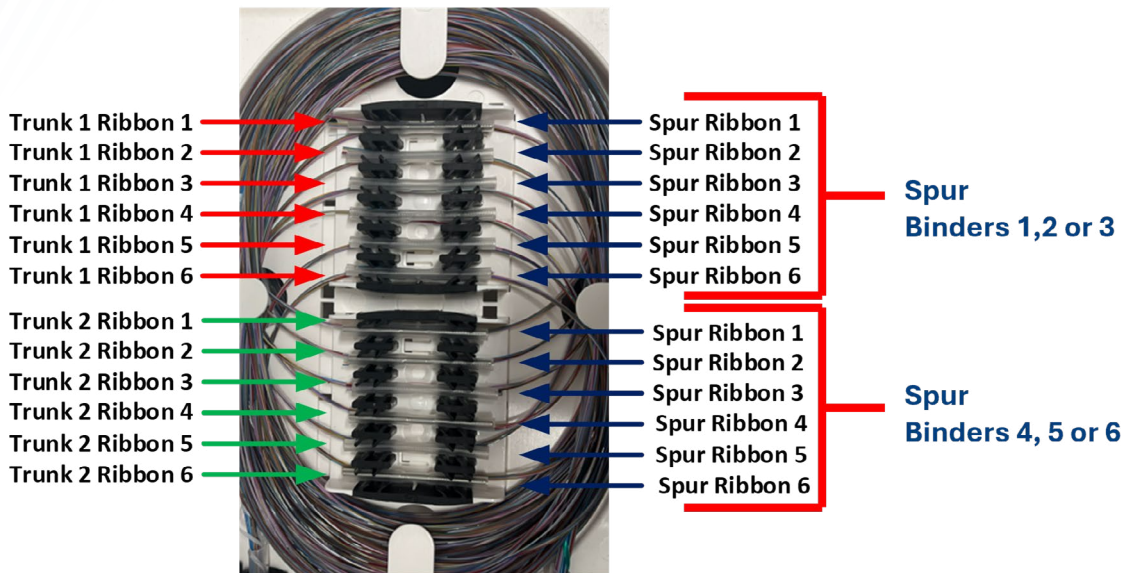


Figure 15

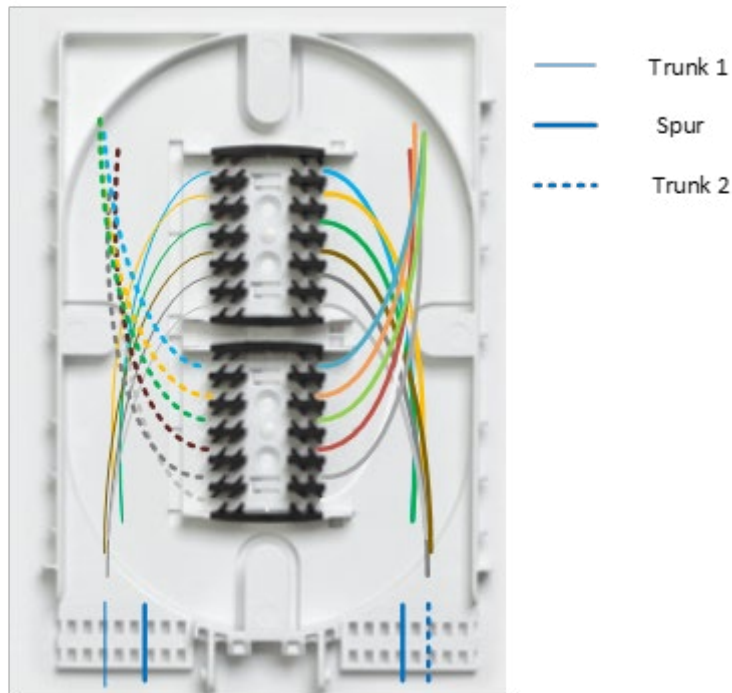


Figure 16