

FIST Single Pigtail Storage Left
FIST Single Pigtail Storage Right

TELECOM OUTSIDE PLANT

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1 General

The FIST-SPS is a mechanical interface within the FIST product family.

It is a shelf assembly typically used to store random overlengths of active patchcords in ODF installations without prior patchcord management.

The shelf allows the individual storage of up to 24 patchcords, including connectors, in wraparound transparent cassettes.

- Patchcord Ø between 1.6 and 3.0 mm
- Storage length: maximum 10 m for Ø up to 2.4 mm , maximum 8 m for larger Ø patchcord.

Patchcords can enter the shelf from the left or right and exit the same way out or via the top of the shelf.

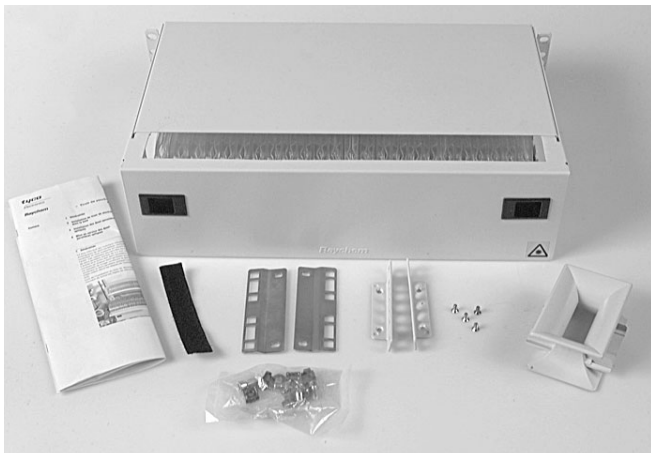
The bend radius of each pigtail is controlled through the whole routing at the rear of the drawer.

The cassette with pigtail 1 is situated at the left side, the one with pigtail 24 at the right side of the shelf.

This installation instruction describes the installation steps for the FIST-SPS.

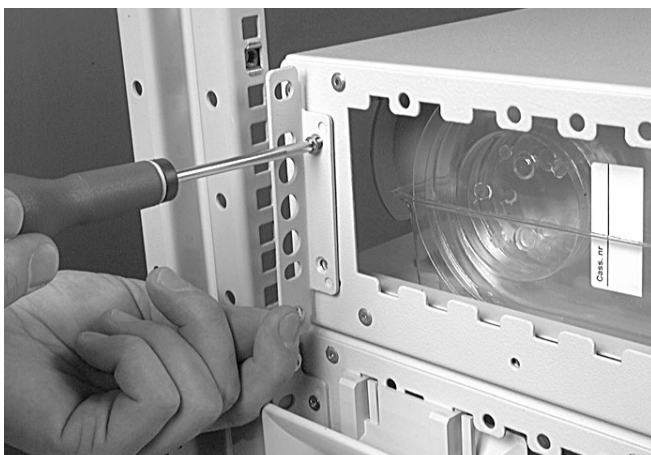
Follow all local safety regulations related to optical fibre plant elements.

1.1 Standard kit content

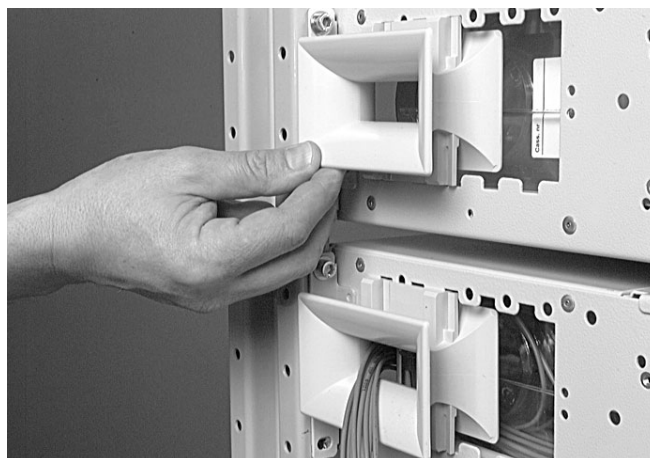


- Metal shelf assembly including bend controls for guiding the patchcords in the shelf towards the cassettes
- Mounting brackets
- Mounting bracket adapters (19" to ETSI)
- Metal cover
- 24 patchcord overlength cassettes
- One trumpet for guiding the patchcords as they enter/exit the shelf
- Velcro to bundle the patchcords in the back of the shelf
- Mounting screws and nuts
- Installation instruction

2 Installation of the Storage Shelf in the Rack

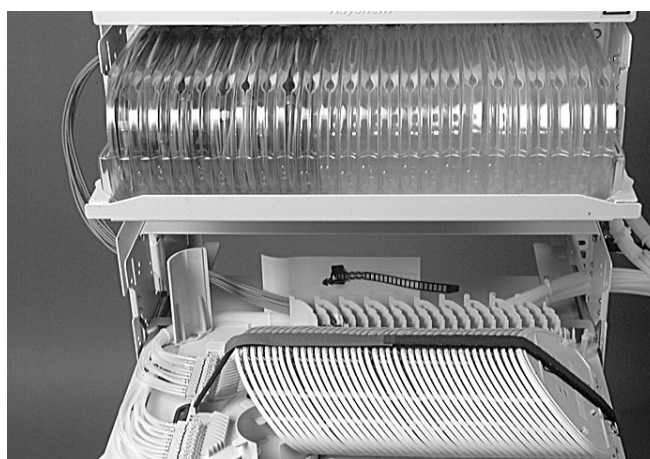


2.1 Fix the storage shelf in the rack (mounting brackets at correct positions, cage nuts, eventually adapter brackets 19" to ETSI).



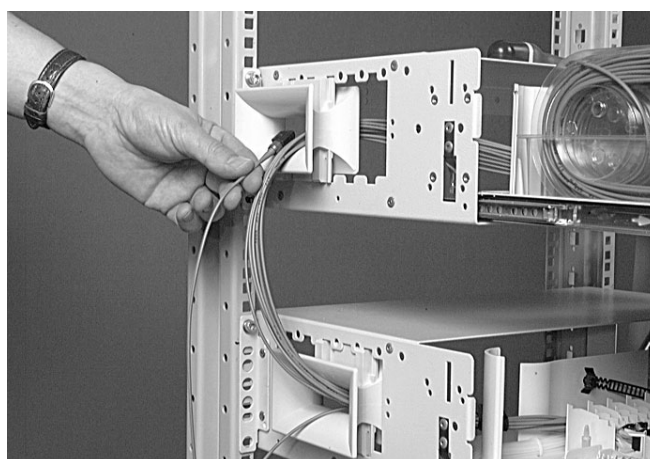
2.2 Install the pigtail trumpet (bend radius control) on the rear slot in the furthest back position of the left (SPS-L) or right (SPS-R) side of the shelf.

3 Preparation of Pigtails

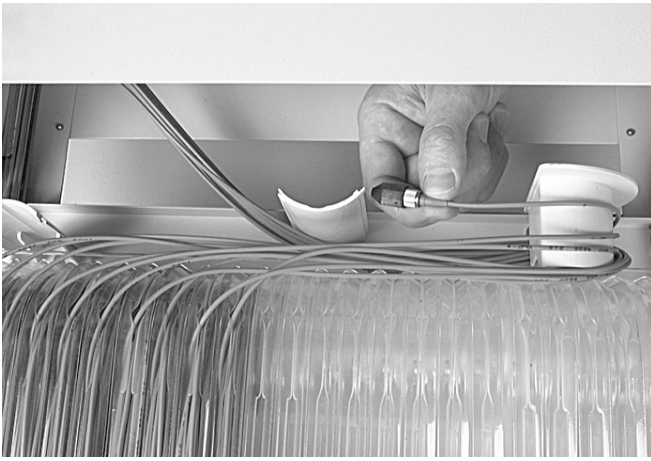


3.1 Open the FIST-SPS and eventually the shelf where the pigtails are coming from (e.g. FIST-GSS).

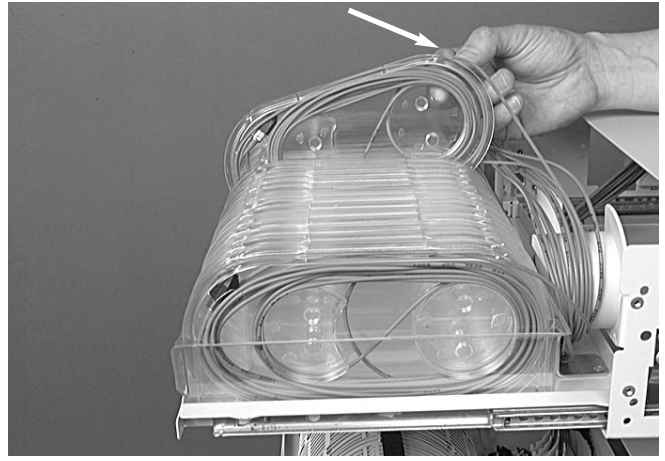
3.2 When using a FIST-GSS fix the pigtail in the KTU, then route it through the pigtail trumpet at the left side.



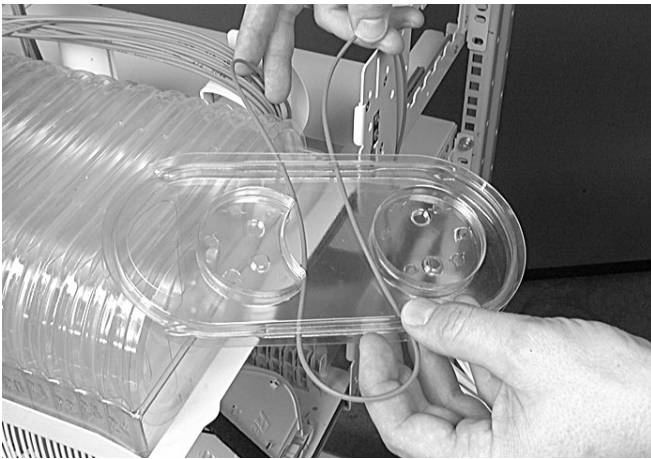
3.3 Route the pigtail in the FIST-SPS storage drawer via the appropriate pigtail trumpet.



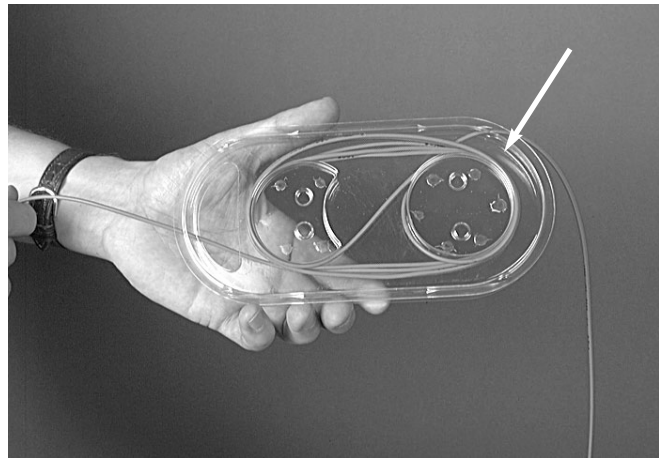
3.4 To reach the storage cassette in the FIST-SPS, pass the pigtail vertically in front of the bend radius control and from bottom to top around the trumpet at the back of the drawer.



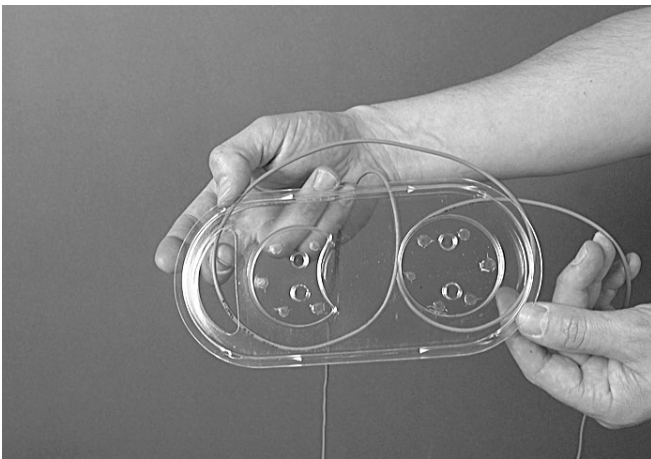
3.7 Mark the network side pigtail (before roll-up) so that the ideal working length is secured. (The marking point is the entry point of the pigtail in the cassette in released position).



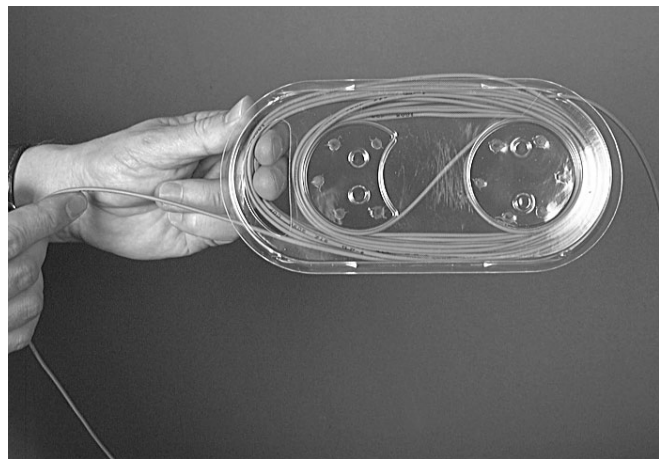
3.5 Take out the appropriate storage cassette, take the pigtail, loop it upwards and guide it around the upper cassette perimeter so that it comes to rest around the islets).



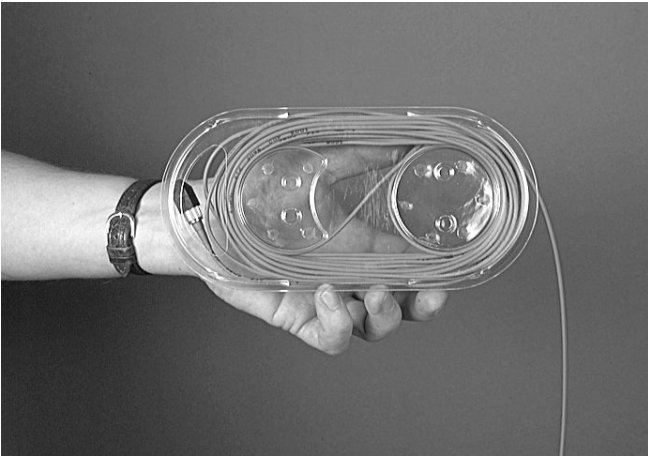
3.8 Keep the network side of the pigtail without any pressure on the edge of the cassette, pull gently at the connector side of the pigtail to route it around 2 islets, and wind at the connector side of the pigtail around the islets.



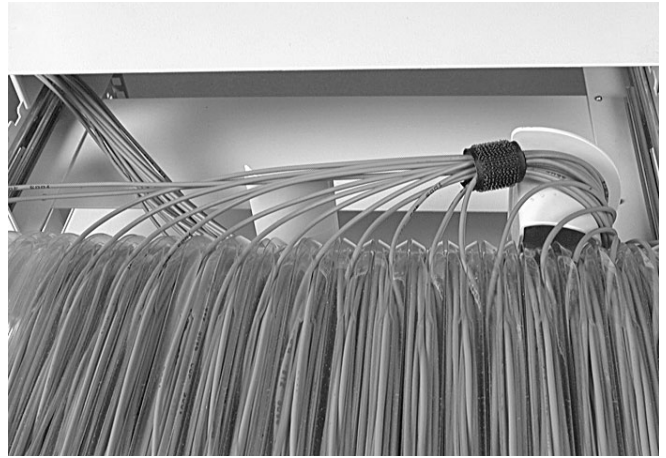
3.6 Bring the loop of the pigtail back around the storage cassette.



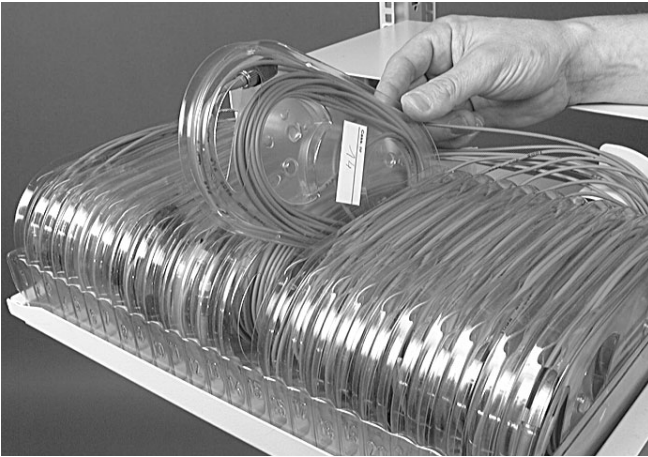
3.9 If necessary, adapt the position of the connector in the cassette during the final winding operation by putting the fingers in the empty half-moon area to increase the length of each roll-up.



3.10 Finish the winding of the pigtails by placing the connector in the free space at the furthest end of the cassette.



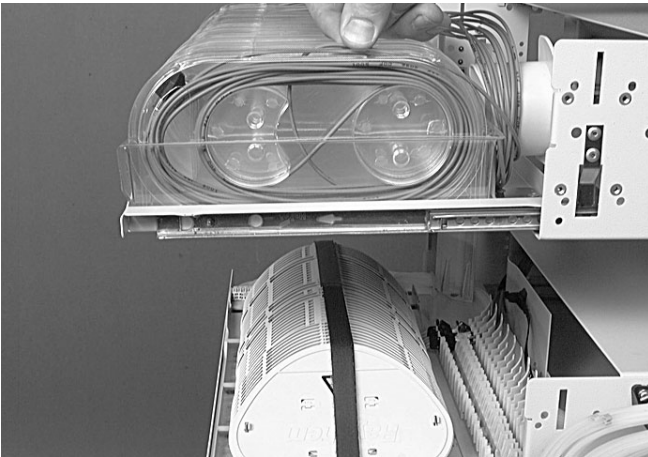
3.13 When all cassettes are finished bundle the patchcords at the back with a piece of velcro.



3.11 Put the cassette in the space provided on the tray of the drawer.

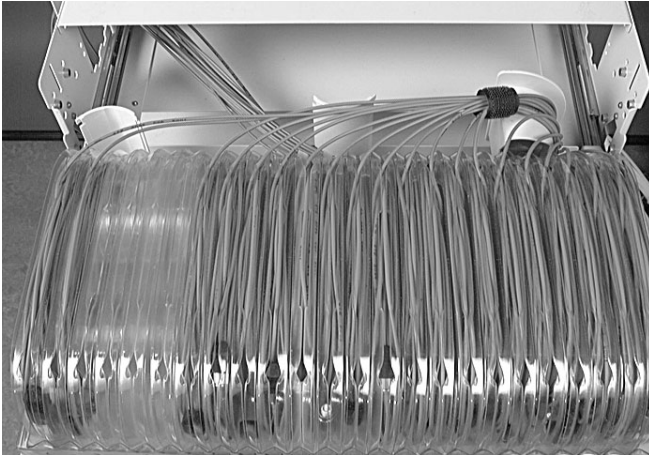


3.14 Push the tray back into the shelf. Close the front of the FIST-SPS with the metal cover.

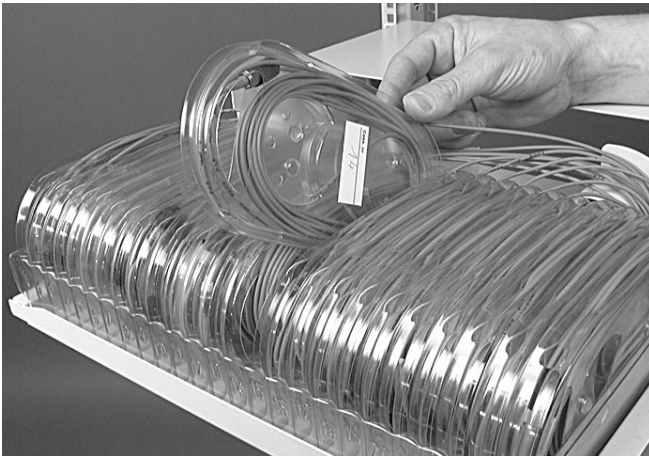


3.12 If proper installed, the overlength of the network side sits without buckling between the 2 islands.

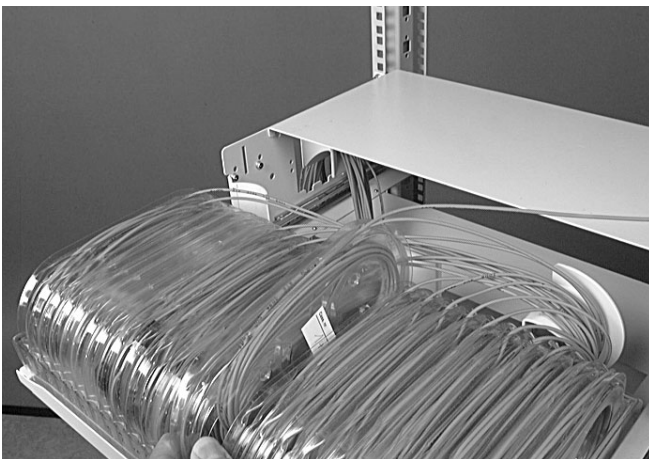
4 Installation of the Pigtails



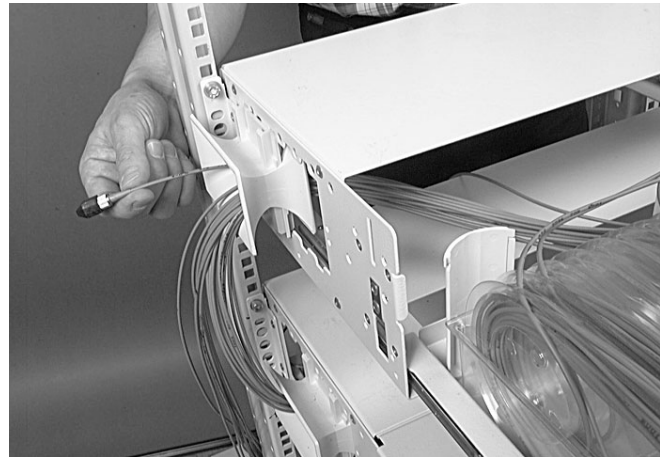
4.1 Open the SPS.



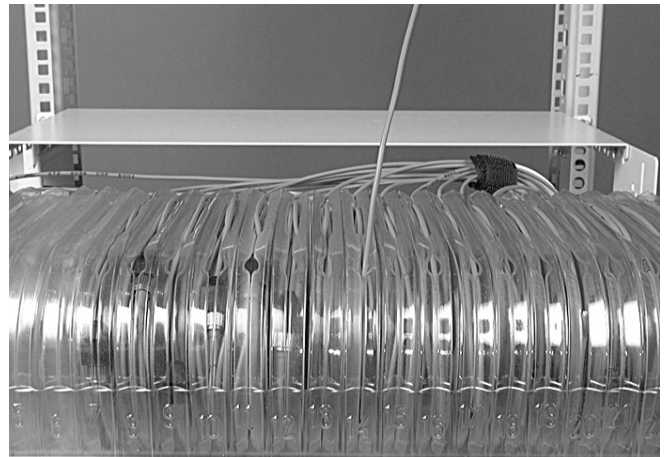
4.2 Take the cassette with the connector from its support to connect it to the network.



4.3 Unwind the pigtail to the desired length and put the cassette back in its support.



4.4 Guide the pigtail by passing it through the pigtail trumpet respecting the bend radius controls.



4.5 To reach a front patching unit, guide the pigtail from the front of the cassette to the patch panel above.
Remark: When front patching: a minimum of 5 ETSI pitches must be free between storage and patching shelf. Overlength must be provided in order to allow the drawer to be open.

4.6 Allow the overlength from the incoming pigtail to retract into the cassette (3.13).



4.7 Close the drawer. Fit the cover.

5 Jumpers

In case of jumpers, overlength storage can be done such that re-patch flexibility is provided at both sides.

Installation is similar to pigtails: typically use the midpoint of the jumper as starting point and wind both ends at the same time.

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