

INSTALLATION CONSTRUCTION
MO045I

SPLICE CABINET NS4



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Product description

NS4 is made of powder-coated galvanized steel plate. It is suitable for use in all types of splicing and branching, both indoors and outdoors in cable cabinets or similar installations. NS4 is designed to fit into the Fia 2x3 cable cabinet (day opening B290 x H530 mm).

NS4 has a capacity for splicing up to 192 fibers in a single fiber configuration (4 splice cassettes). The cabinet offers the possibility to connect various types of cables and conduits. The mounting area of the cabinet can be divided into four zones, and each zone can accommodate the following accessories:

- Connection for 2 cables (ø 9-22 mm).
- Connection for 64 microducts (ø 3 mm).
- Connection for 36 microducts (ø 5 mm).
- Connection for 24 microducts (ø 7 mm).
- Connection for 48 micro cables (ø < 2 mm).
- Connection for 8 cables (ø 2-9 mm).

For midspan or splicing of cables with a diameter greater than 19 mm, a metal clamp similar to a W-shape is used.

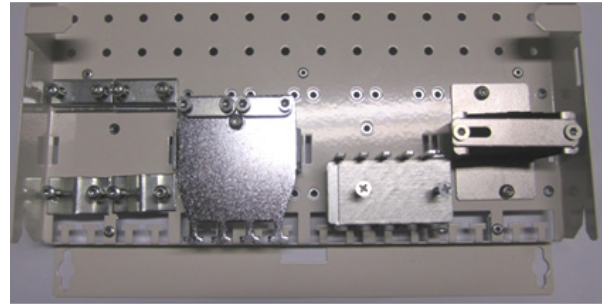
NS4 comes with 2 splice cassettes and cable connection for 2 cables.

NS4 can be supplemented with an additional 2 cassettes to increase the splicing capacity to 192 fibers in a single fiber configuration.

Ordering information for accessories can be found on the last page of this manual.

Dimension:

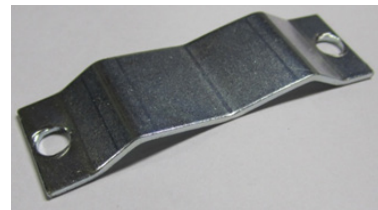
Height: 380 mm
Width: 289 mm
Depth: 90 mm
Weight: 3.7 kg



NS4 with four different accessories

From left:

1. Connection for 2 cables (ø 9-22 mm).
2. Connection for 8 cables (ø 2-9 mm).
3. Connection for 24 microducts (ø 7 mm).
4. Connection for 48 microcables (ø < 2 mm)



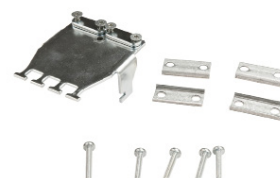
W-metal clamp



Extra splice cassette



Connection for 48 micro cables (ø < 2 mm)



Connection for 8 cables (ø 2-9 mm)

Installation

Preparation of NS4

NS4 can be placed on a wall indoors or in a cable cabinet outdoors.

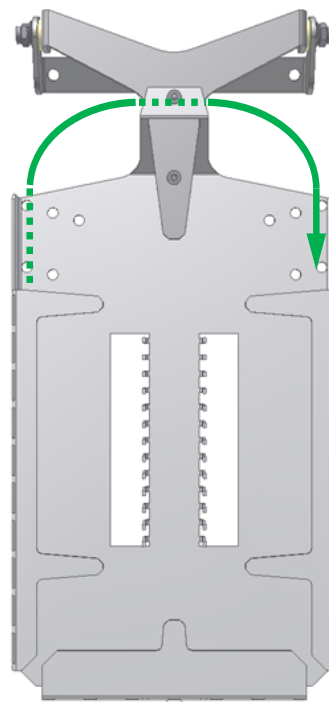
If NS4 is used in public indoor areas, the junction box can be supplemented with a lock cylinder.

In cases where the brush strip is in the way of incoming/outgoing cables or microducts, it can be cut to a suitable length. This is best done with a wire cutter.



General pulling of tubes/fiber ribbons up into the cassette

Always lead the tubes/fiber ribbons under the cassette attachment up into the cassette on the opposite side. When the cassette is folded up, the tubes/fiber ribbons will twist slightly and not be subjected to unsuitable bending radii

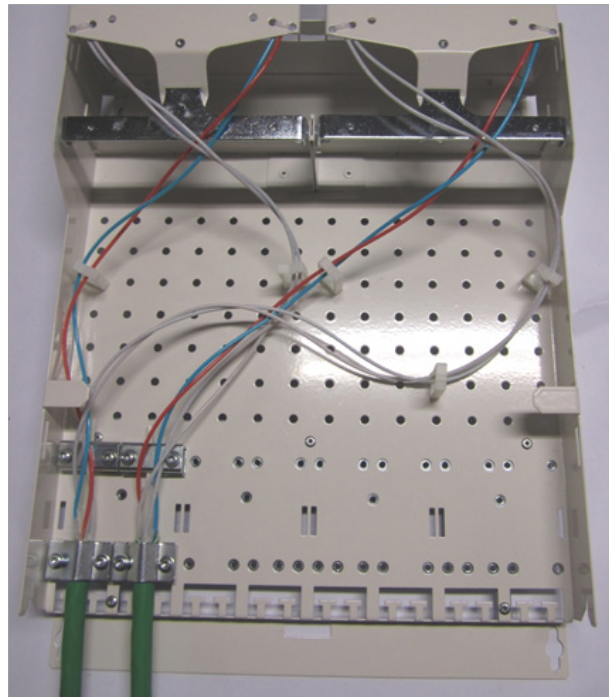


Splicing of tubular cable

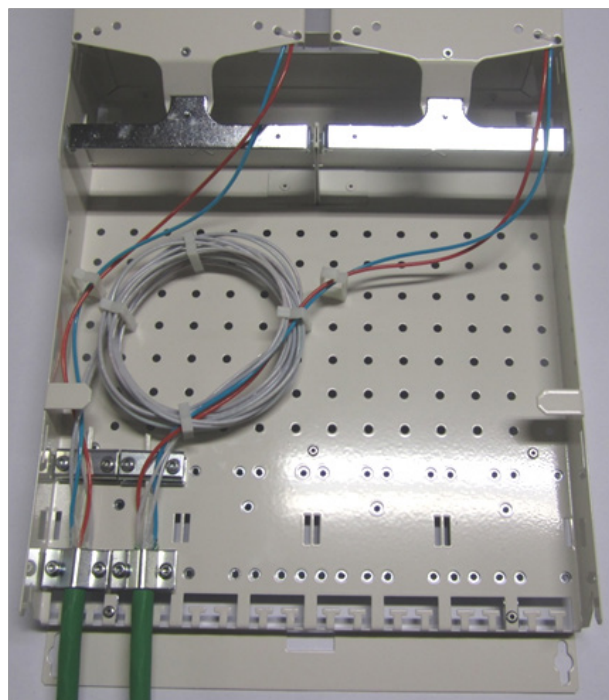
Make a marking on the sheath 1.8 meters from the end. Cut the sheath at the marking. To expose the ripcord (applies to Nexans cable), cut the sheath 10-15 cm from the end, after which the sheath is pulled off from the core (due to the immediate placement of the ripcord under the sheath, the cutting should be done carefully). Slit and remove the sheath. Remove any moisture-absorbing tapes and yarns and cut them at the sheath edge. If a vaseline-filled cable is used, clean the tubes with isopropanol. The correct tube order is marked with, for example, a marker. The groove element/center element is cut 6 cm from the sheath edge.

Fold up the cassettes in the joint box and place the cables to be spliced as shown in the picture.

If midspan is to be performed on the tubular cable, there is space at the bottom for placement of tubes, see picture. The total scaling length for midspan should be 2.8 meters to limit the number of turns on the tubes during midspan storage.

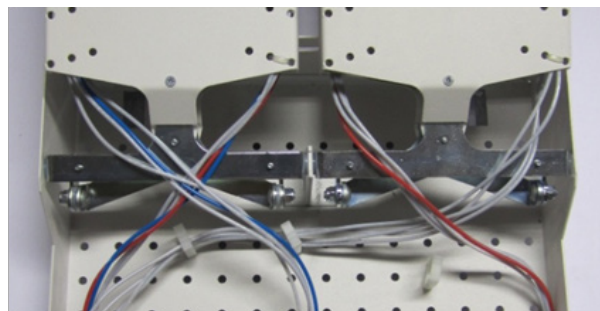


Example of placement of tubes when splicing tubular cable.



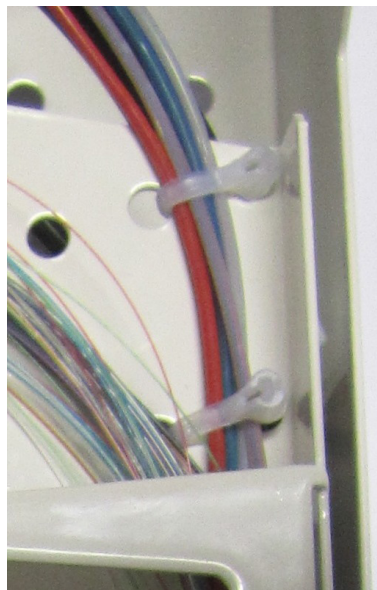
Midspan tube cable 48-fiber

The tubes are pulled to the cassette on the backside of the cassette bracket, see image.



OBS! Bandens väg till skarvkassetterna

The tubes are secured with cable ties in the holes located in the cassette's upper part. The cable ties should not be tightened too hard, as the tubes should have some room to move under them.



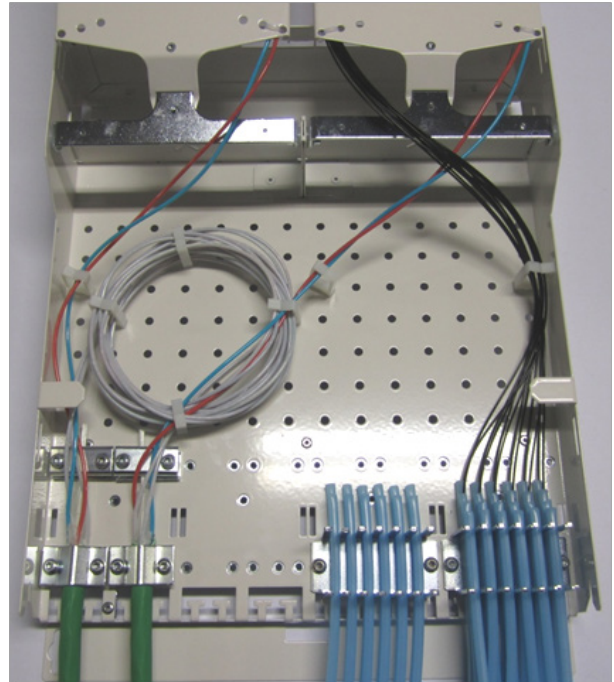
The tubes should be stripped so that they reach halfway into the cassette, see image. It is important that the tube is not too short. The tube must never be on the wrong side of the cable tie when the cassette is folded up and down.

The fibers are spliced according to common methods. Each cassette has space for 48 splices in single-fiber design

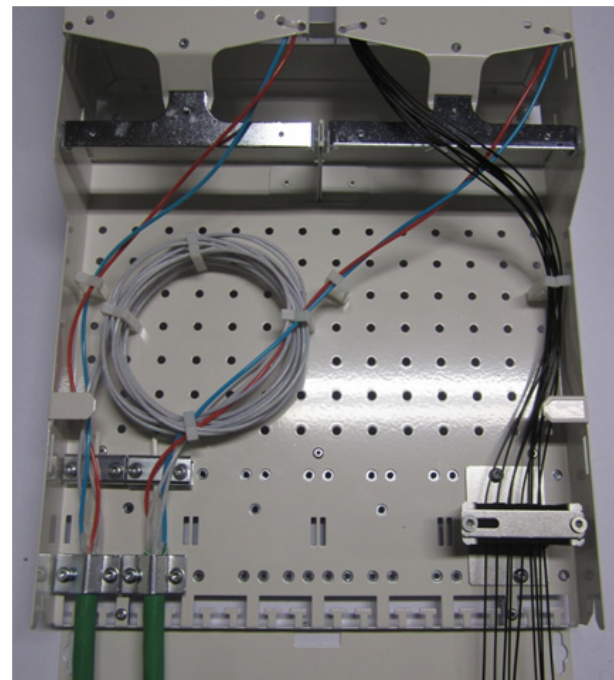


Splicing of tube cable to micro cable

If NS4 is used at a branching point at a fiber optic distribution point, there are accessories for attaching microducts and micro cables. The micro cable is brought up into the cassette in the same way as the tubes. The micro cable is loosely fastened with the help of cable ties so that the micro cable has full mobility when the cassette is folded up and down.



Midspan tubkabel 48-fiber and two connections for 5 mm ducts with micro cable (costumer).

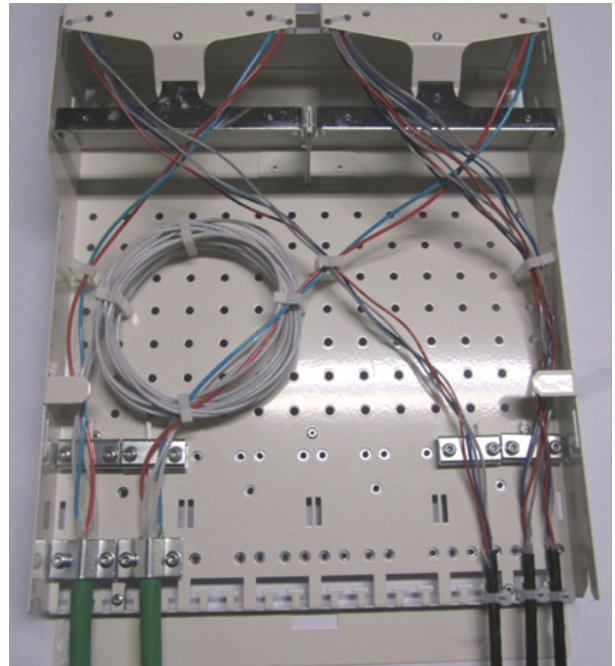


Midspan tub cable 48-fiber together with connection for 48 micro cables ($\varnothing < 2$ mm) with micro cable (customer)

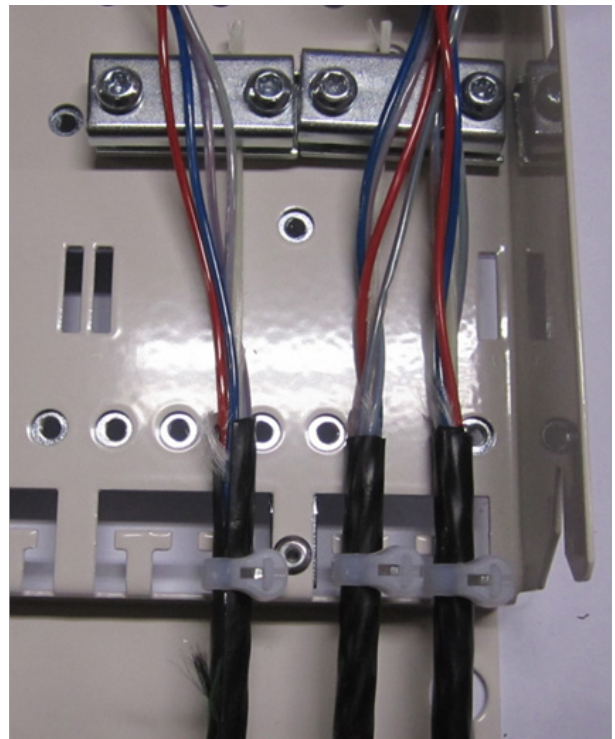
The sheath of the micro cable is stripped to the same length as the tube's sheath in the cassette.

The fibers are spliced using conventional methods. Each cassette has space for 48 splices in single fiber configuration.





Midspan tub cable 96-fiber together with three micro cables of 48-fiber



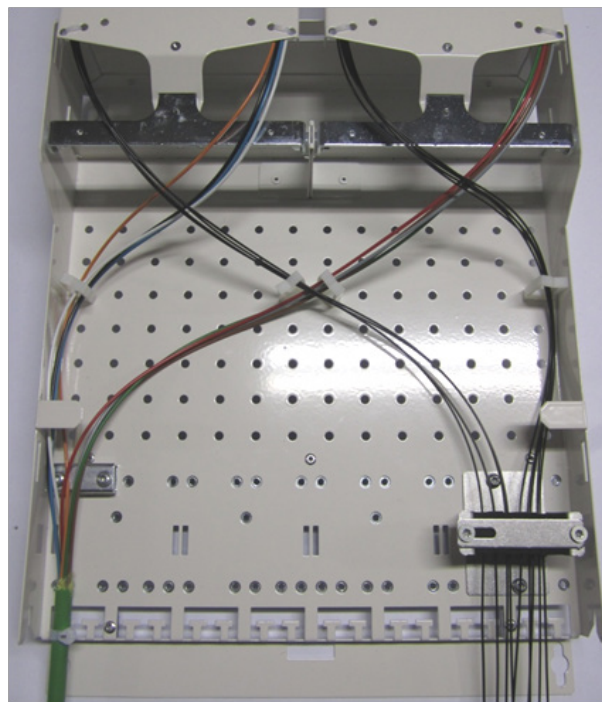
Smaller micro cables can be fixed over the sheath with cable ties

Joining of micro cable to micro cable

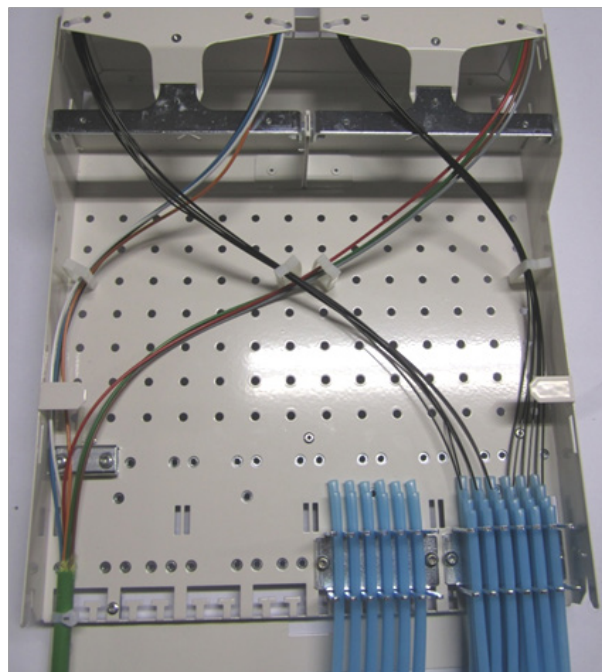
The micro cable is inserted into the cassette in the same way as the tubes. The micro cable is loosely fastened with cable ties so that the micro cable has full mobility when the cassette is folded up and down.

The sheath of the micro cable is stripped to the same length as the sheath of the tube in the cassette.

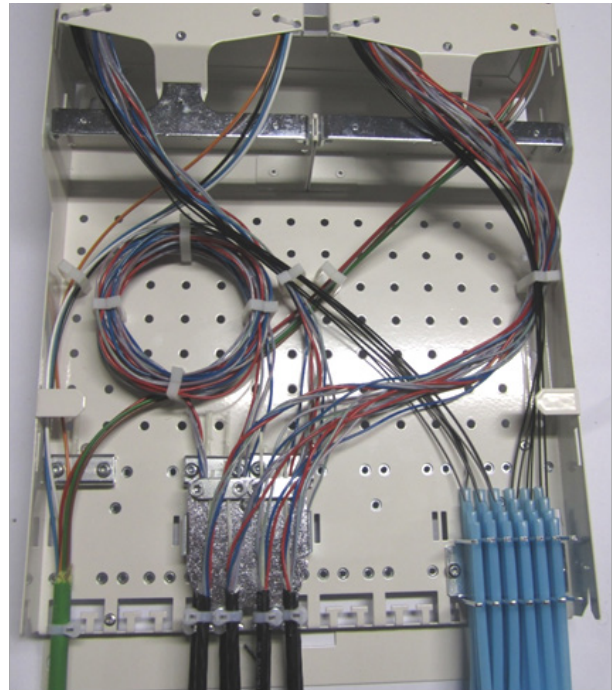
The fibers are spliced using conventional methods. Each cassette has space for 48 splices in single fiber design



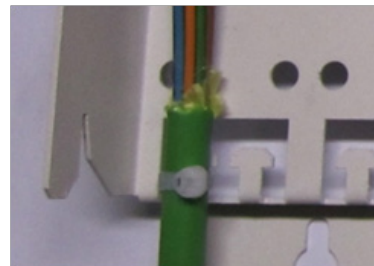
Micro cable 144-fiber together with connection for 48 micro cables ($\varnothing < 2\text{ mm}$) with micro cable (customer)



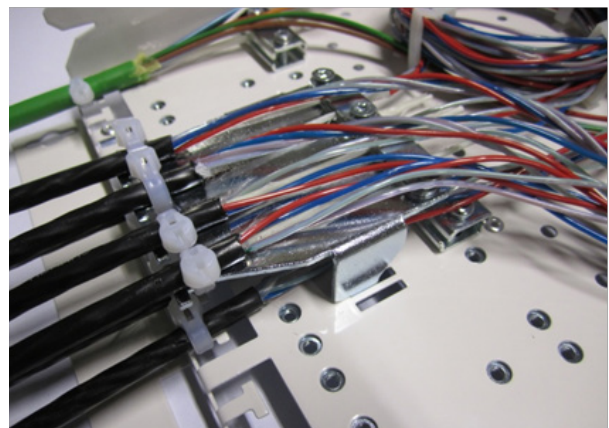
Micro cable 144-fiber together with two connections for 5 mm tubes with micro cable (customer)



Micro cable 192-fiber, connection for 8 cables (Ø 2-9 mm) with eight micro cables of 48-fiber each and connections for 5 mm tubes with micro cable (customer)



Micro cable can be fastened with cable ties



Connection for 8 cables (Ø 2-9 mm) with eight micro cables of 48-fiber each

Splicing of ribbon fiber cable

Make a mark on the jacket 1.8 meters from the end. Cut the jacket at the marking. To expose the rip cord (applies to Nexans cable), cut the jacket 10-15 cm from the end, and then pull off the jacket from the core (due to the immediate placement of the rip cord under the jacket, the cutting must be done with care). Slit and remove the jacket. Remove any moisture-absorbing tapes and yarns and cut them at the edge of the jacket. Pull the fiber ribbons out of their grooves. If a vaseline-filled cable is used, clean the ribbons with isopropanol. The correct ribbon order is marked with, for example, Flexipart. Cut the ribbon element 6 cm from the jacket edge.

Fold up the cassettes in the splice box and place the cables to be spliced according to the picture.

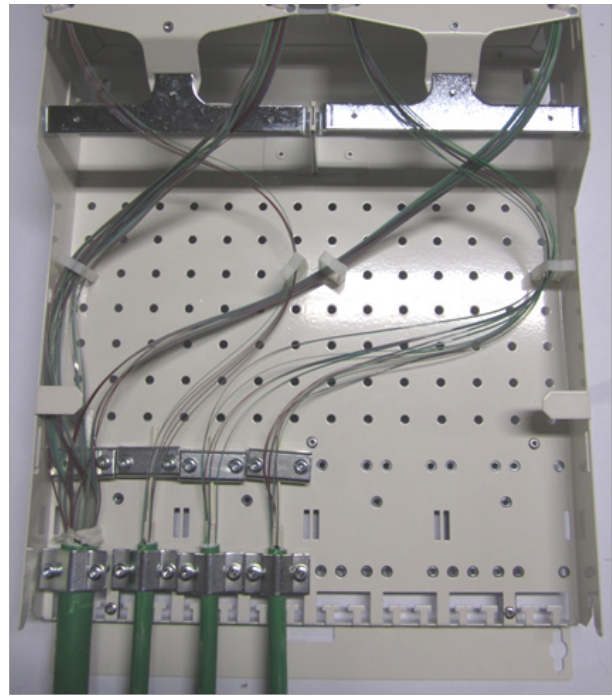
If mid-span is to be performed on the ribbon fiber cable, there is space at the bottom for placement of the ribbons, see picture.

The total upscaling length for mid-span should be 3.3 meters to limit the number of turns on the ribbons during mid-span storage

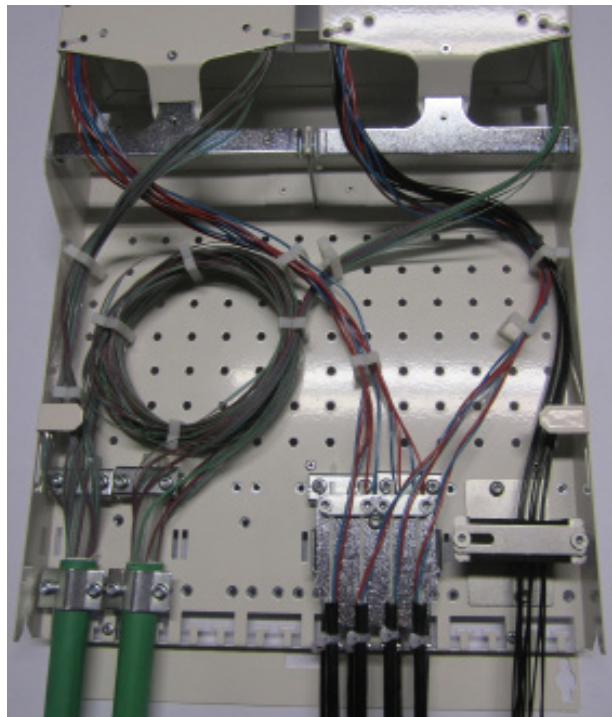
The bands are pulled to the cassette on the backside of the cassette holder, see image.

The bands are attached with zip ties in the holes located in the upper part of the cassette. The zip ties should not be tightened too hard, but the bands should have some room to move under the zip ties.

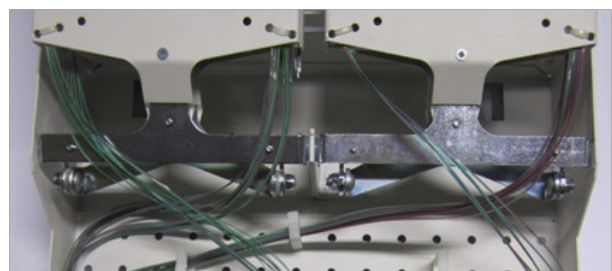
The fibers are spliced using standard methods. Each cassette has room for 24 splices in band fiber configuration.



Examples of band placement when splicing ribbon fiber cable.



Midspan on ribbon fiber cable with 192 fibers, eight micro-cables with 24 fibers each, and a connection for 48 micro-cables (diameter less than 2mm) using

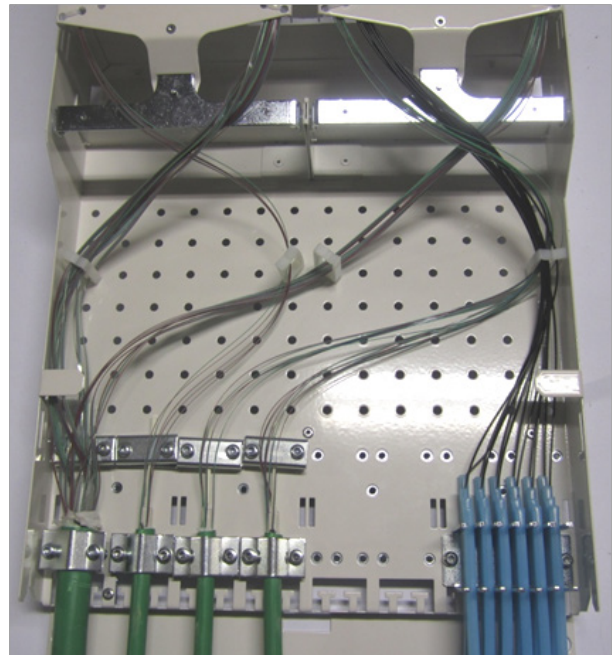
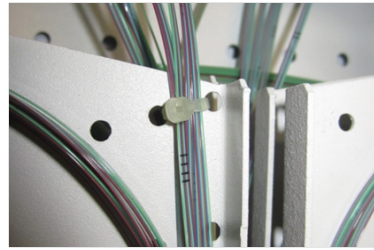


Splicing of ribbon fiber cable to micro cable.

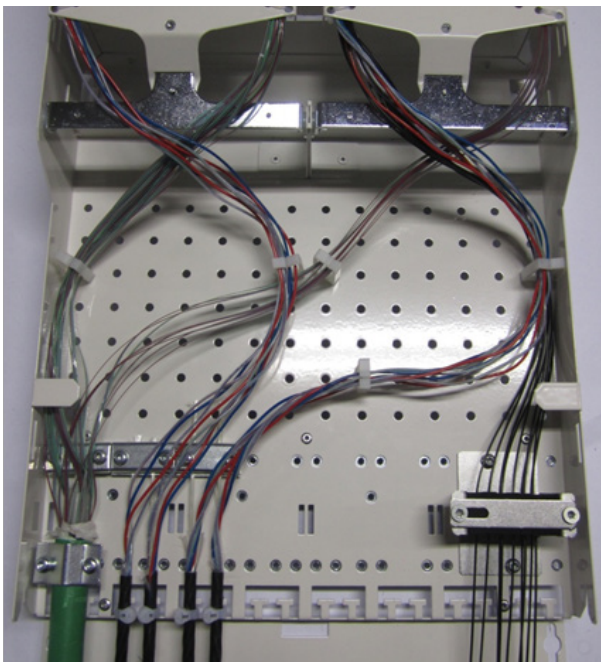
If NS4 is used at a branching point at a Fiber Optic Distribution Point (FODP), there are accessories available for attaching microducts and microcables. The microcable is inserted into the cassette in the same way as the bands. The microcable is loosely fastened with cable ties so that it has full mobility when the cassette is opened and closed.

Microcables are handled in the same way as tube cables.

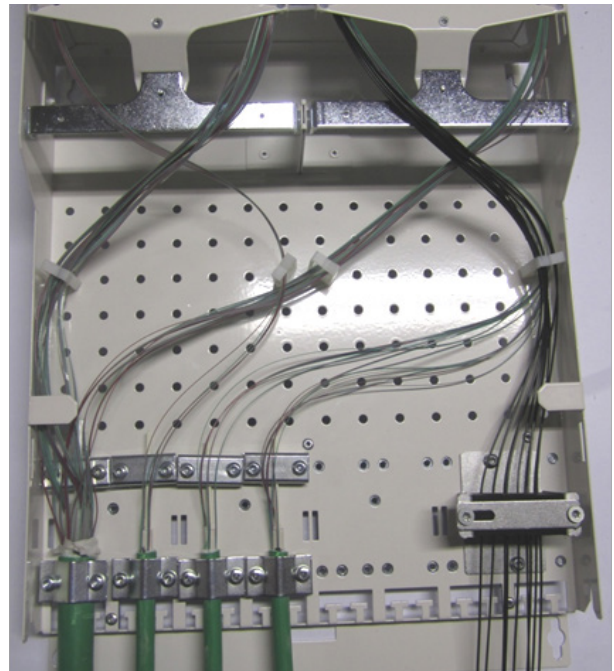
The fibers are spliced using common methods. Each cassette has room for 24 splices in band fiber design.



This refers to band fiber cables with 192-fiber and 48-fiber capacity, as well as a connection for a 5 mm tube with customer-provided microcable.



Band fiber cable with 192 fibers, four micro cables with 48 fibers each and connection for 48 micro cables ($\varnothing < 2$ mm) with micro cable (customer).



Band fiber cables 192-fiber, 48-fiber, and connection for 48 microcables ($\varnothing < 2$ mm) with micro-blowing cable (customer).

Accessories and ordering information

E-nummer	Artikelnummer	TS artikelnummer	Benämning
50 608 61	30785809	NCLA 101 79	Skarvkasset till skarvskåp NS2 och NS4
50 608 66	30776209	NTAA 101 13/2	Anslutning för 2 kablar (9-22 mm) till NS2 och NS4
50 620 22	30776309		Anslutning för 64 mikrodukter (3 mm) till NS2 och NS4
50 608 67	30776109	NTAA 101 14/5	Anslutning för 36 mikrodukter (5 mm) till NS2 och NS4
50 551 23	30776409	NTAA 101 14/7	Anslutning för 24 mikrodukter (7 mm) till NS2 och NS4
50 608 62	30787109	NTAA 101 12	Anslutning för 48 mikrokablar (< 2 mm) till NS2 och NS4
50 608 68	30776009	NTAA 101 13	Anslutning för 8 kablar (2-9 mm) till NS2 och NS4
50 621 08	30786609	SKYA 101 00 25	Låsregel till NS2 och NS4 (TeliaSonera)
50 627 00	30903009	A 952 5773/40	Skarvhylsa 40mm enkelfiber
50 627 01	30903109	A 952 5773/60	Skarvhylsa 60mm enkelfiber
50 627 07	30902809	A 952 8187	Skarvhylsa 40mm fiberband 4-8 fiber