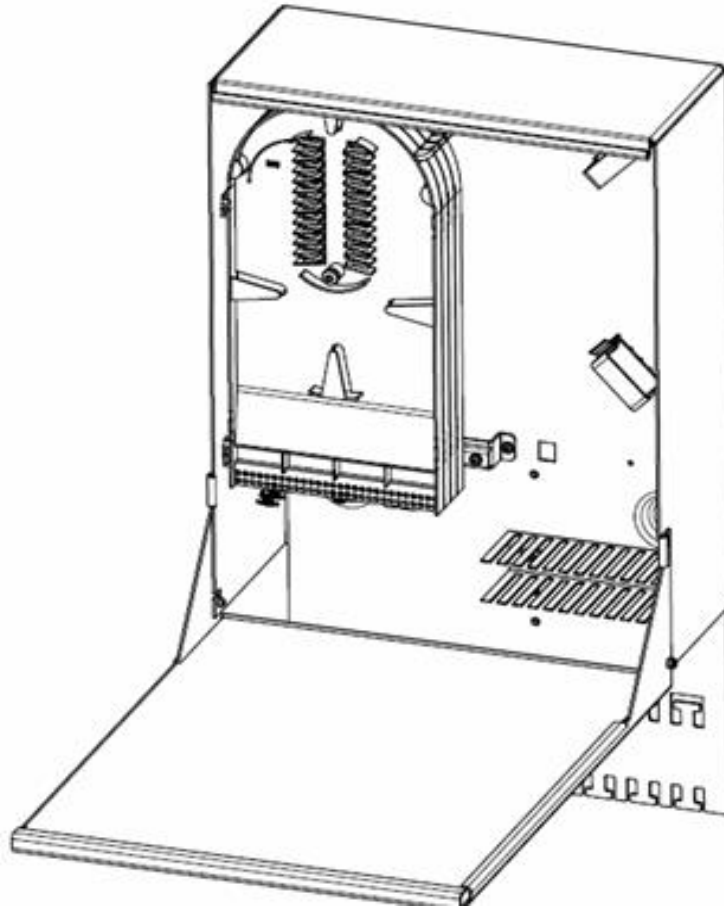


Installation Instruction

Splice cabinet for installation in pedestal – NCD 518 8006



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1 Introduction

This document describes how to install the splice cabinet **NCD 518 8006**

1.1 Target Group

This instruction is for skilled fiber optical technicians.

Technicians working on Hexatronic products or systems must have the necessary training and competence required to perform their work correctly.

1.2 Tools

This section shows tools recommended for performing the installation.

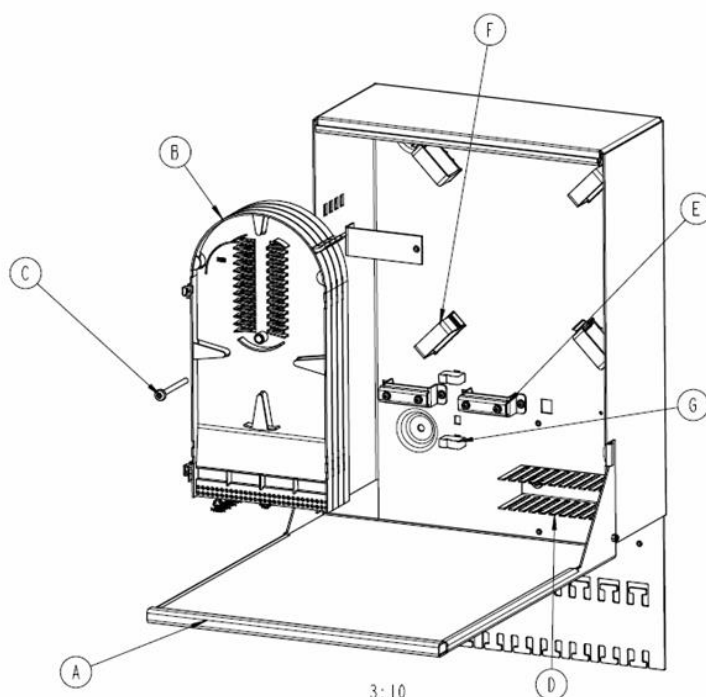
Table 1 Tools

Name	Description	Product Number
Microduct cutter	This cutter is used when cutting microducts, achieving clean 90° cuts.	LDK 208 03
Multiduct sheath cutter	This tool is used for dismantling cables or multiducts.	LDK 195 01
Micro cable sheath cutter	For opening of microcables, butt end or midspan.	LDK 195 03
Additional tools	Side cutting pliers marking pen, tape, etc.	

2 Product Description

The **NCD 518 8006** is designed to connect up to 96 subscribers. The cabinet is fitted with a 96-way duct organizer and supports multiple cable inlets. Each splice cassette can hold 24 single sleeves. The cabinet is designed to be pedestal / wall mounted.

Product overview



Figur 1

Table 2

Position	Description
A	Door/Working platform
B	Splice cassettes
C	Locking pin
D	Duct organizer
E	Strain relief
F	Fiber guide/Midspan guide
G	Fiber guide

Dimensions

Table 3 Sizes, Weight and Color

Height	Width	Depth	Weight	Color
490 mm	289 mm	141 mm	2000 g	White

Capacity

- 4 Fiber cassettes each holding 24 single splice sleeves.
- 1 Duct organizer holding 96 x 5/3,5 microducts.
- 1 Duct organizer holding 96 x 7/3,5 microducts.
- 9 Cable positions at the bottom.

3 Installation

This section contains instructions on how to install the **NCD 518 8006** in a street cabinet, for example Hexatronic HNBD 116 30+. There are several possible combinations with different ducts and cables; this instruction covers 24 duct assembly and 72 fiber micro cable with midspan.

3.1 Prerequisites

The following procedure is recommended to perform before installation.

- 1 Unpack the cabinet and check the contents
- 2 Mount the duct organiser and cable strain relief.
- 3 Unpack the fibre splice cassettes
- 4 Remove the front cover of the cabinet.

3.2 Mounting

To mount the NCD 518 8006 in the street cabinet, do the following:

1. The Hexatronic street cabinet HNBD 116 30+ is already prepared for the NCD 518 8006 (pre-drilled holes etc) If other street cabinet is used perform the operations 2-4 below.
2. *Make sure that the surface for installation is flat, no screws left in the chipboard.*
3. *Align the cabinet inside the street cabinet at desired height and use the footprint to mark the positions for the screws.*
4. *Pre-drill all holes and mount two screws in the holes on the top without fully tighten them.*
5. Fit the cabinet on the screws and slide it into position.
6. Mount the remaining screws and tighten them all.

3.3 Installing ducts

This section describes how to install the microducts

1. Cut all duct assemblies in line with the centre of the cabinet. Prepare all in/out going ducts by removing the outer/inner sheath. Fixate the ducts with cable ties or fixings at the street cabinet “cable bar”. See Figure 2
2. Fixate the center, micro cable cable duct at the backplane of the cabinet according to figure 2.
3. Place all the ABF microducts in the duct organizer and cut them about 10mm above the organizer.

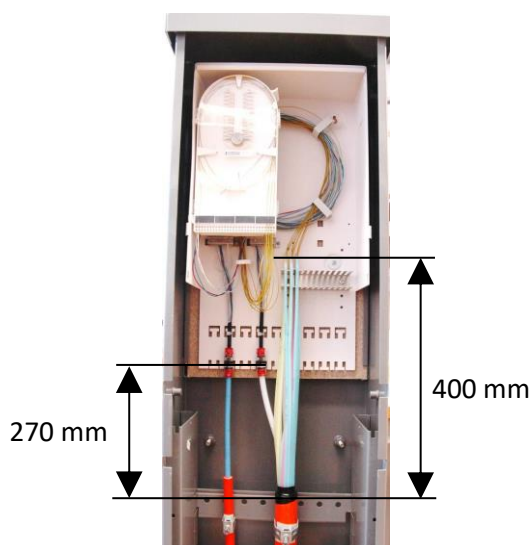
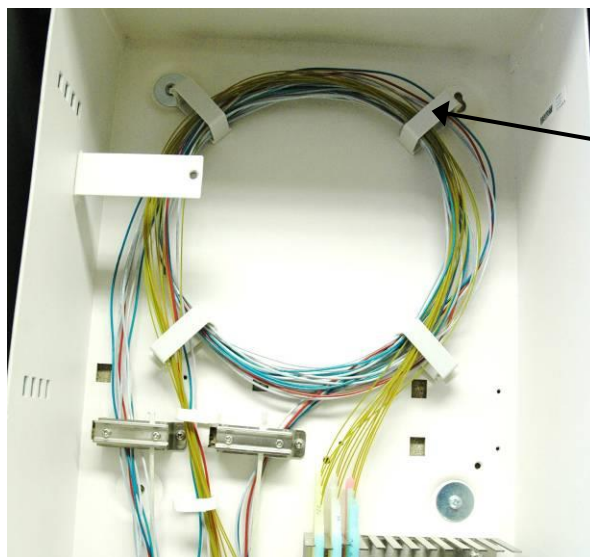


Figure 2

3.4 Cable Midspan

This section describes how to make a midspan break out on the micro cable.

1. Mount duct connectors on the ends of the duct for micro cables.
2. Measure and install a 3800mm of temporary duct (same dimension as the connecting ones) between the in- and outgoing ducts. (It might be necessary to remove the previous installed cable ties and reinstall them in the end of this section)
3. Blow the micro cable.
4. Remove the temporary microduct between the two connectors. The tool LDK 195 01 is useful for that operation.
5. Make a midspan on the micro cable between the two connectors
Opening of micro cable is described in instruction 1553-TOL 401 9017 Uen. End the cable sheath 100mm outside the connectors.
6. Route the fibers underneath each strain relief and secure the cable strength members.
7. Re-fit the cable ties holding the duct assemblies.
8. Cut the correct fiber bundle/tube and place the uncut tubes in the fiber guides, see figure 3.



The uncut loose tubes are stored in the fiber guides **F**.

Figure 3

3.5 Air Blown Fiber (ABF) Installation

For ABF installation (blowing technique), use the Hexatronic ABF blowing tool. The ABF's can be installed all at the same time or incrementally.

3.6 Routing the fibers

Mount the front cover of the cabinet and lower it into down position. Install in one cassette with its cover removed using the cover as work surface.

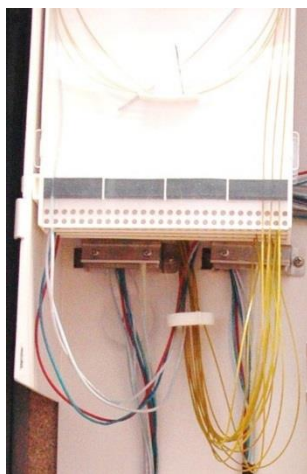


Figure 4

Note! Facing the cassette, the slots in the cassette on the right hand side shall be used for the ABF units and on the left hand side for micro cable loose tubes.

3.6.1 ABF units

1. Route the in/out going fiber units from the microducts anti clockwise in the fiber guides. Route them desired number of turns or make just a U-turn, see Figure 3.
2. Guide the fiber to the cassettes through the fiber guides **F**, between the two strain relief's **E**. See Figure 1 and 5.
3. Place the fiber units, one in each slot in the cassette **B**.

Note! The minimum recommended fiber length in the cassette is based on normal praxis.

3.6.2 Micro cable, loose tubes

1. Guide the loose tubes coming from the micro cable through the fiber guides **G** passing the fiber unit guides **F**. See Figure 1, 3 and 5.
2. Place the tube in the cassette using a slot at the left-hand side. See fig 4.
3. Mark were to cut the loose tube.
4. Cut and remove the tube, clean, prepare and splice all fibers.

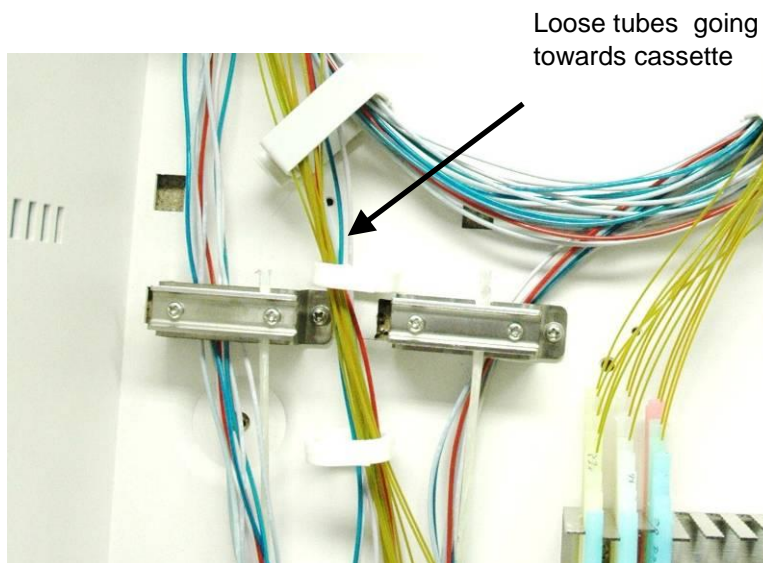


Figure 5

Installation Instruction

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