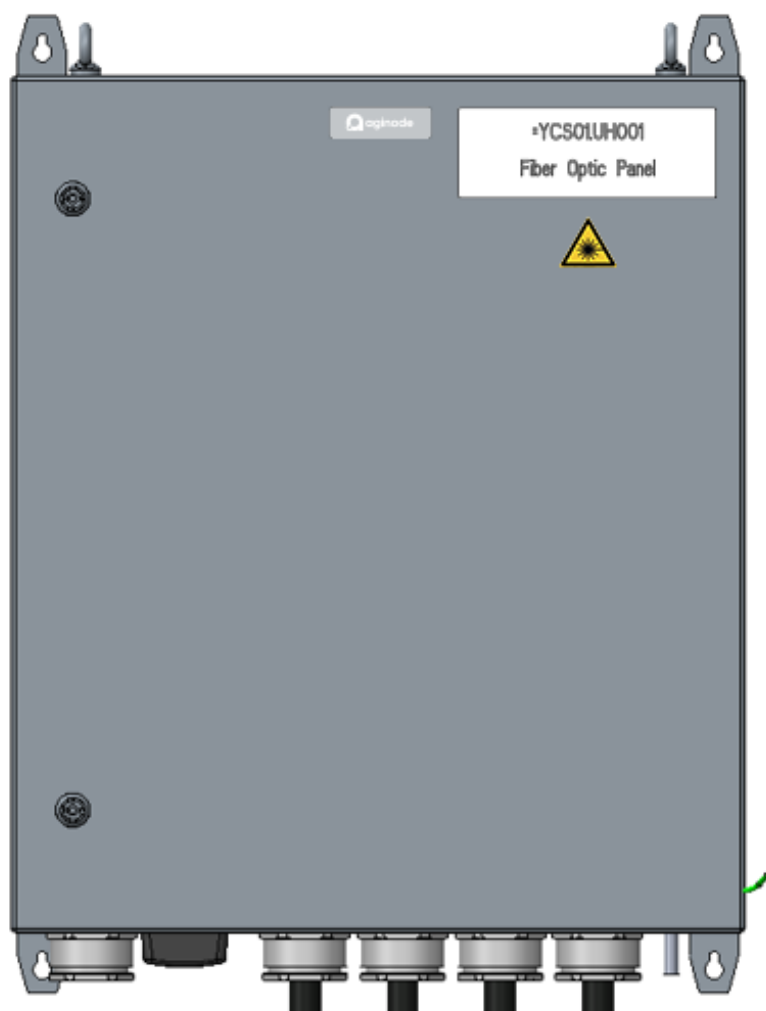




#smartconnection

NOTICE / INSTRUCTIONS

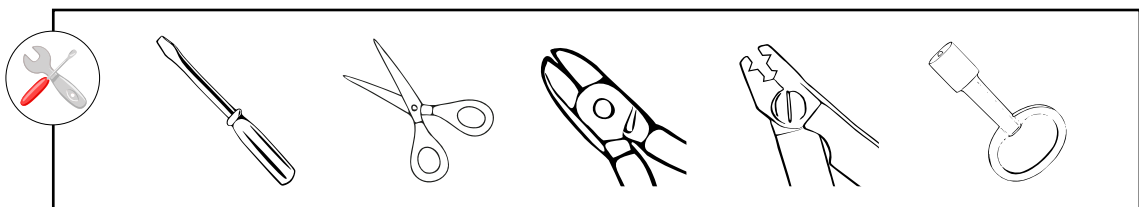


OTB 96-192

Optical Transition Box

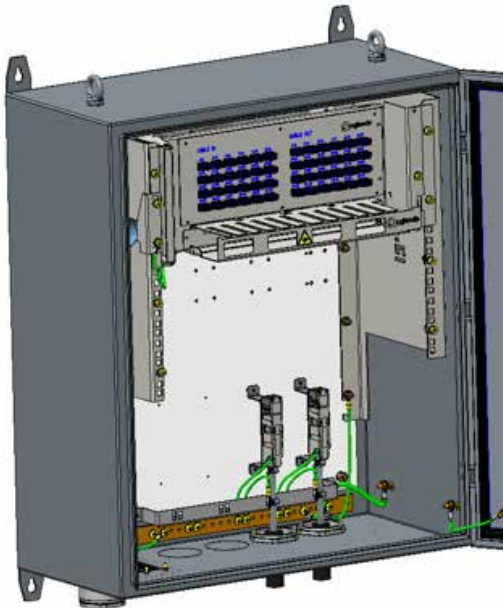
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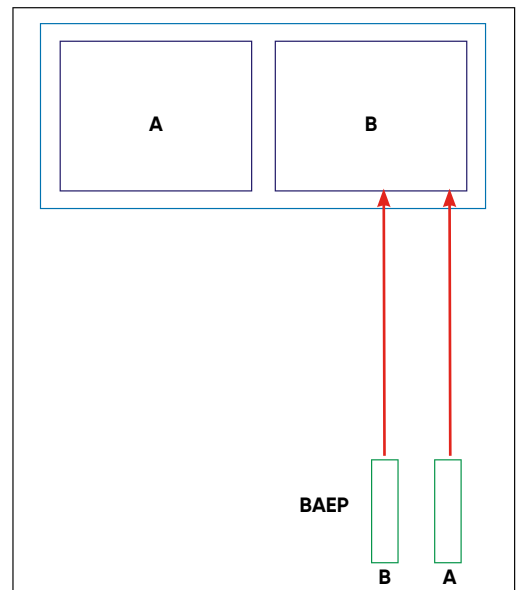




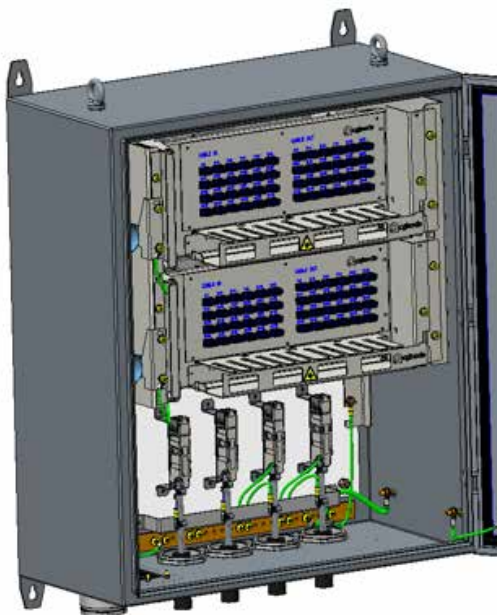
Version 96 LC with 2 BAEP: wiring information below



COSH 1

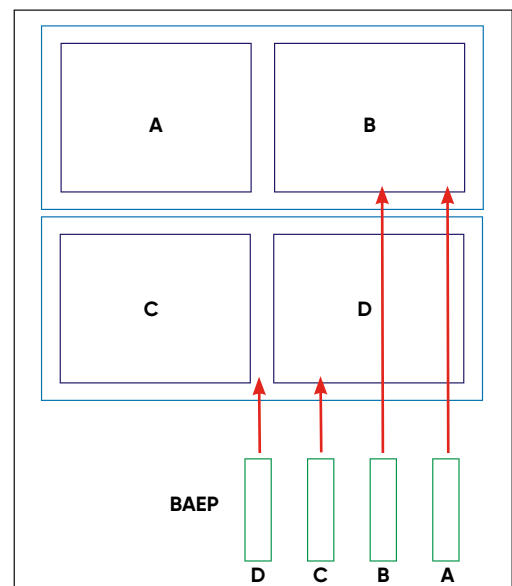


Version 192 LC with two 96 LC COSH and 4 BAEP: wiring information below



COSH 1

COSH 2

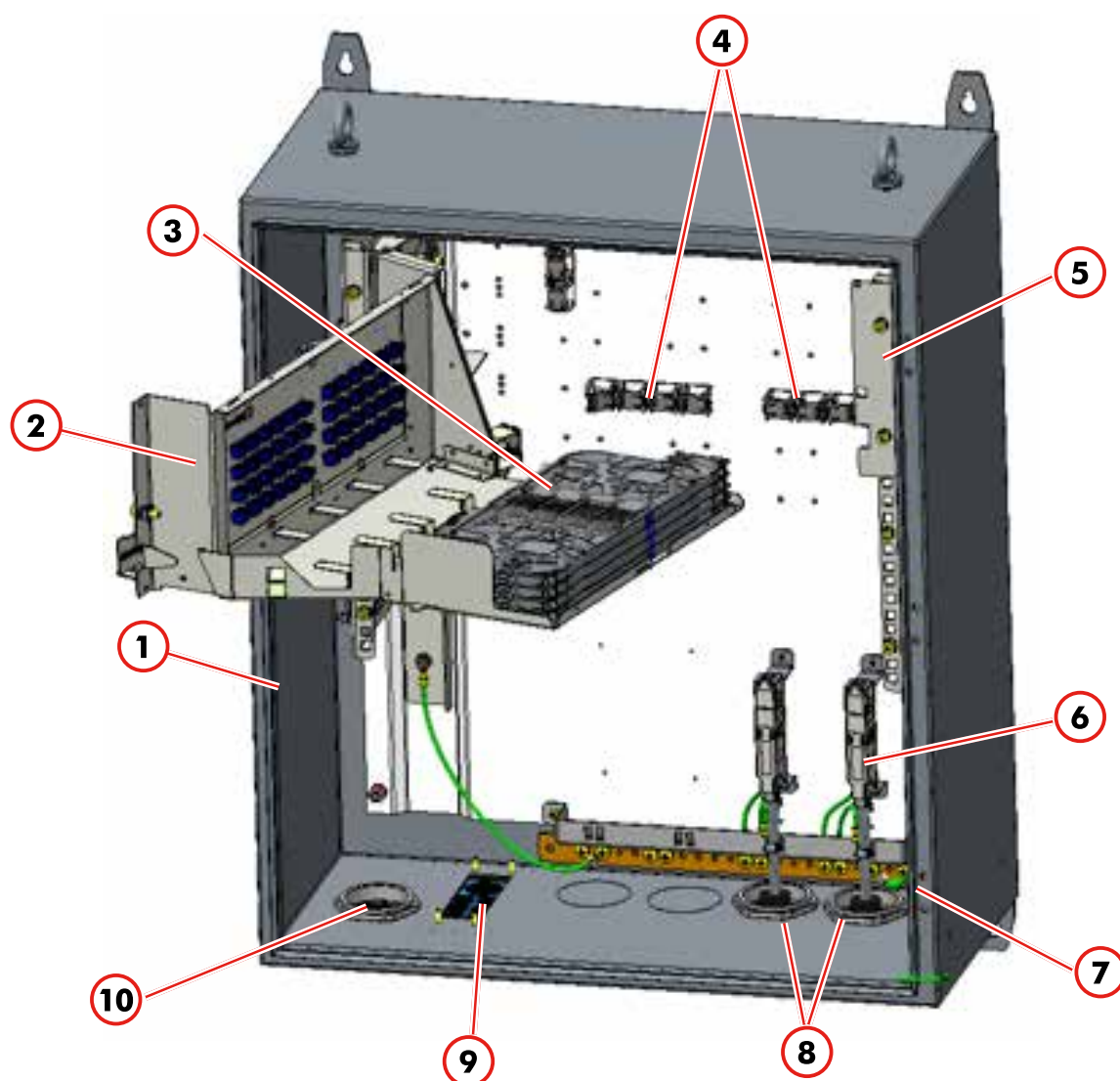


1. OVERVIEW

1.1. Products presentation

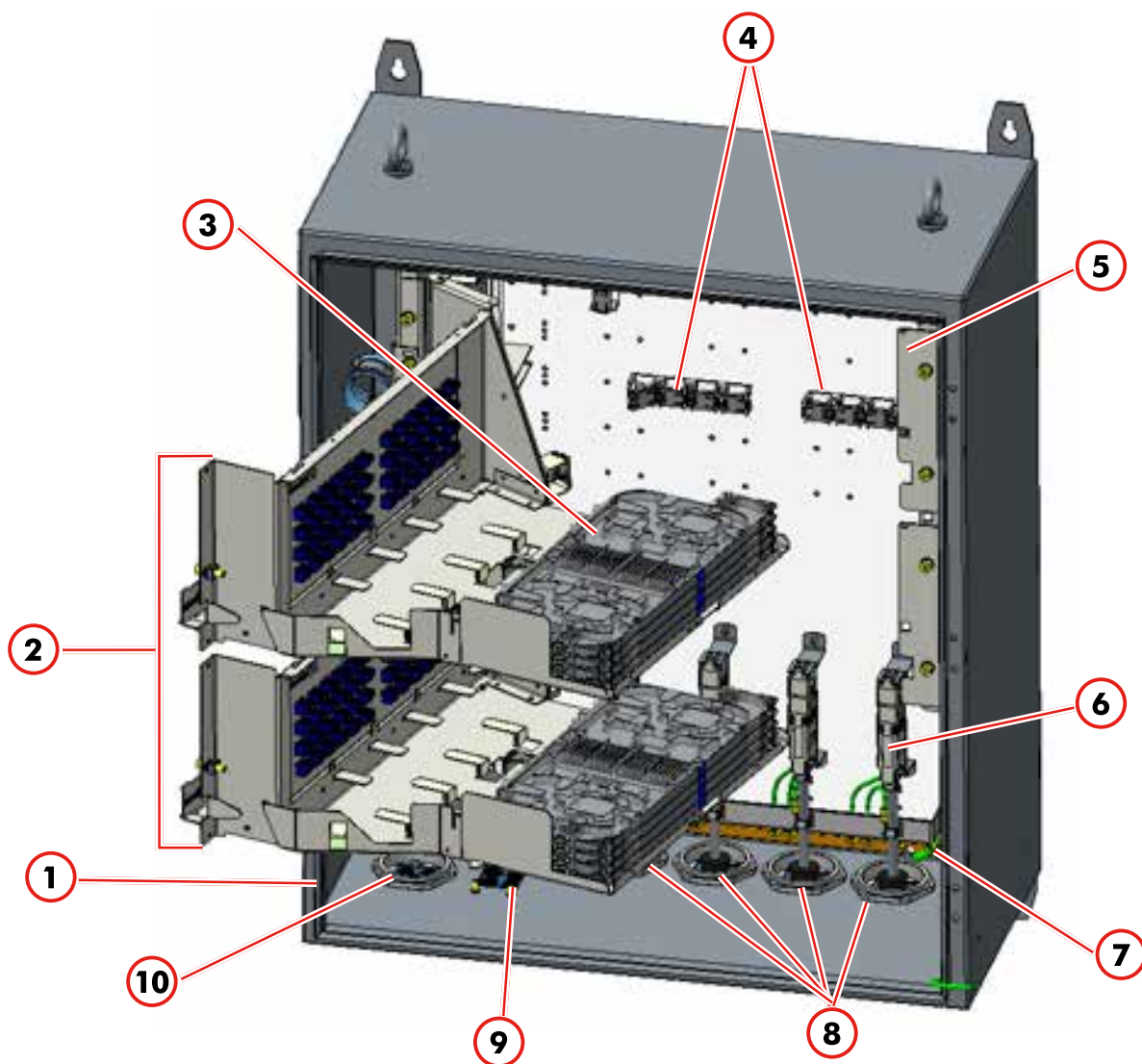
1.1.1. OTB 96 LC BOX

- 1- Stainless steel metallic box
- 2- Module COSH - Patch panel for 96 LC/UPC
- 3- Cassettes 24/48 splices (x5)
- 4- Cable guides 4 rings (x3)
- 5- Locking plate
- 6- BAEP cable clamp (x2)
- 7- Grounding cables
- 8- 2 Main cables entries for IAC
- 9- Breakout cable entries (x7)
- 10- Secondary cable entries (x4)



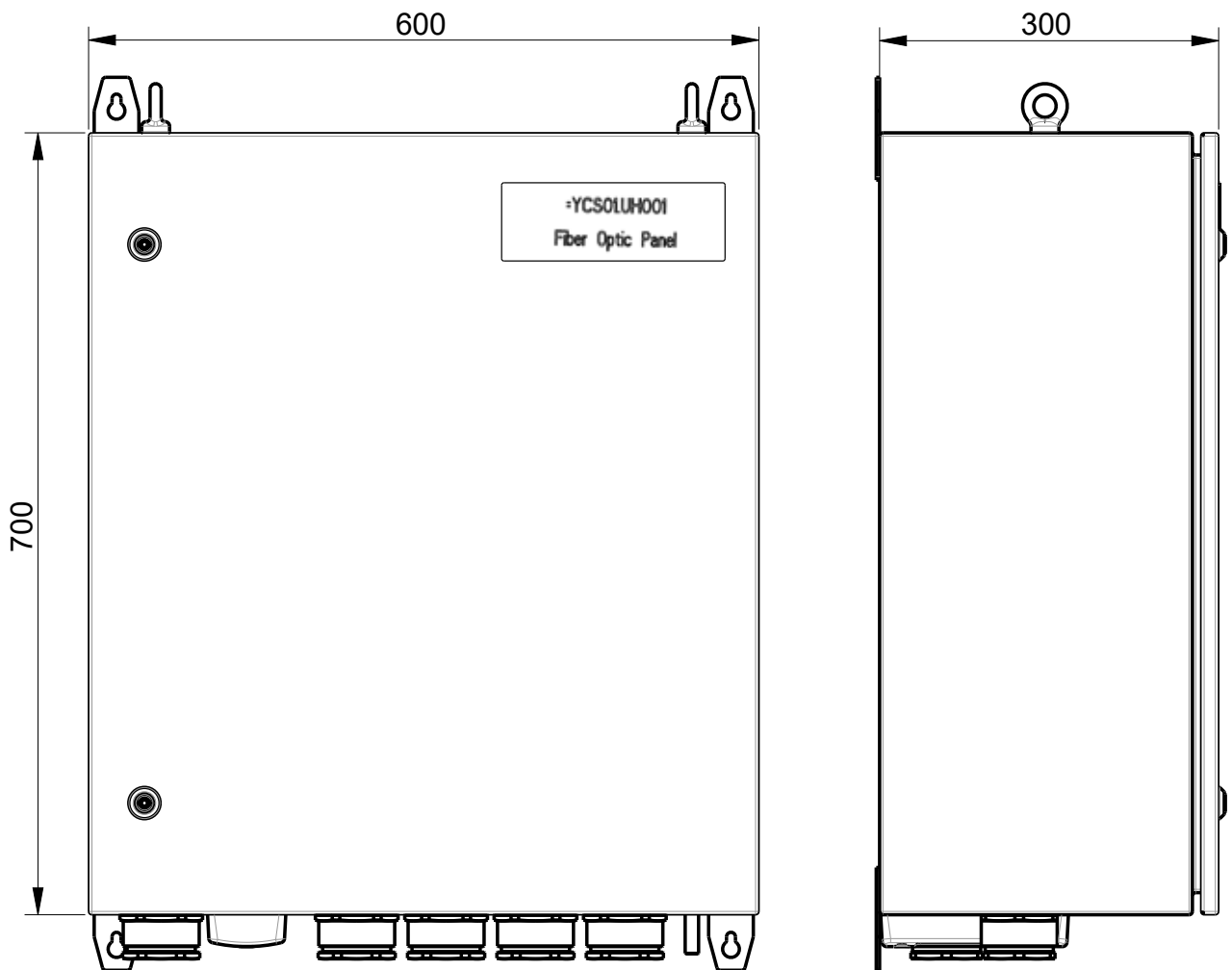
1.1.2. OTB 192 LC BOX

- 1- Stainless steel metallic box
- 2- 2 modules COSH - Patch panel for 192 LC/UPC
- 3- Cassettes 24/48 splices (x5)
- 4- Cable guides 4 rings (x6)
- 5- Locking plate
- 6- BAEP cable clamp (x4)
- 7- Grounding cables
- 8- 4 Main cables entries for IAC
- 9- Breakout cable entries (x7)
- 10- Secondary cable entries (x4)



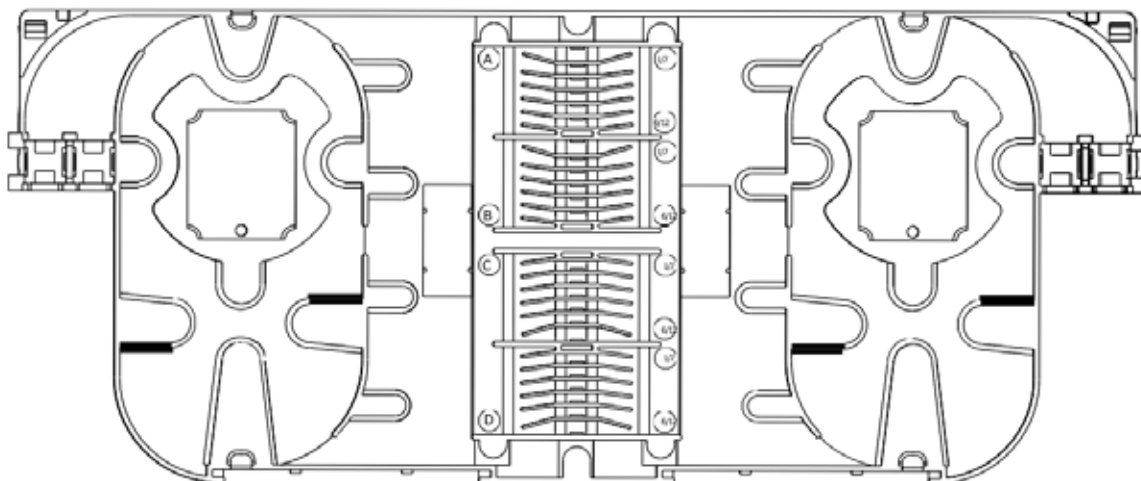
1.2. Technical characteristics

- Dimensions : 600x700x300mm
- IP seal : IP66
- Weight : OTB96-38Kg / OTB192-45kg
- Enclosure material : SIGMADUR 520-C4 High / RAL 7001



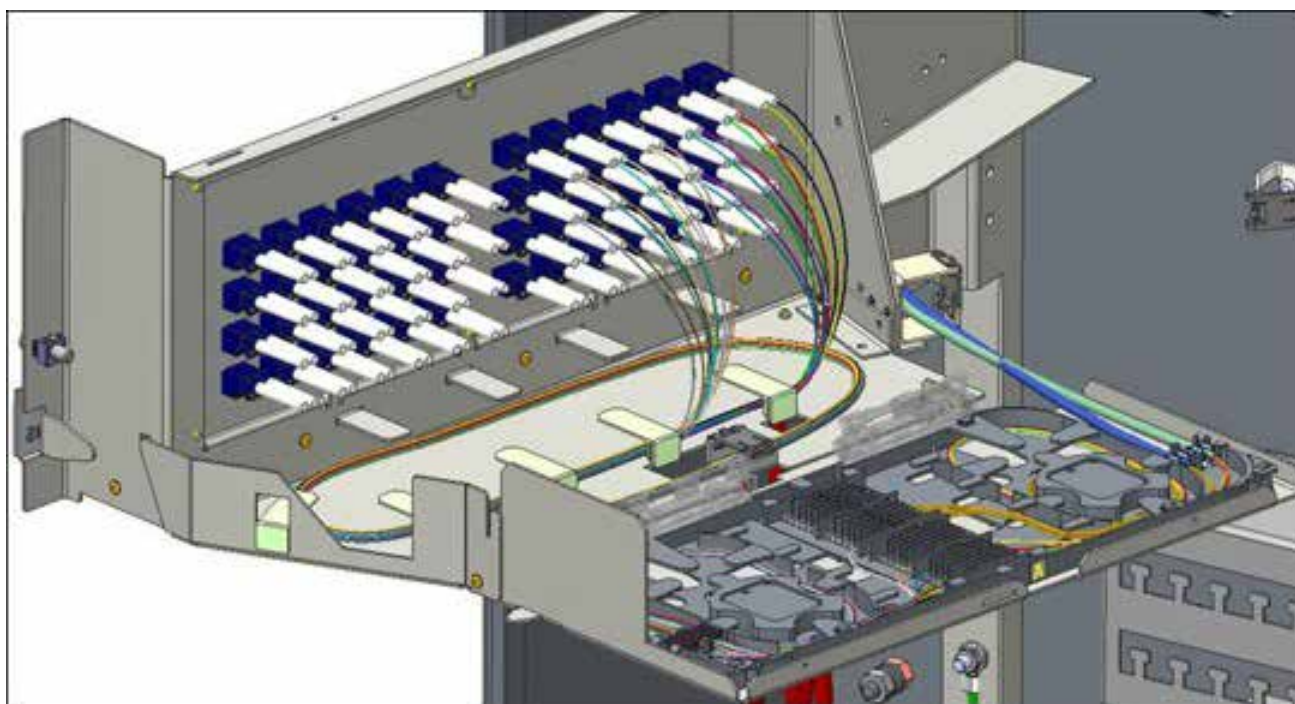
1.3. Cassette presentation (organiser 5 cassettes)

- 4 holders of 12 splices (head shrink 60mm)
- Coiling of Ø 250µm fibres overlengths (900mm max.) in the cassette



Max. capacity
24 splices, G.652.D fibre (bending radius 30mm)

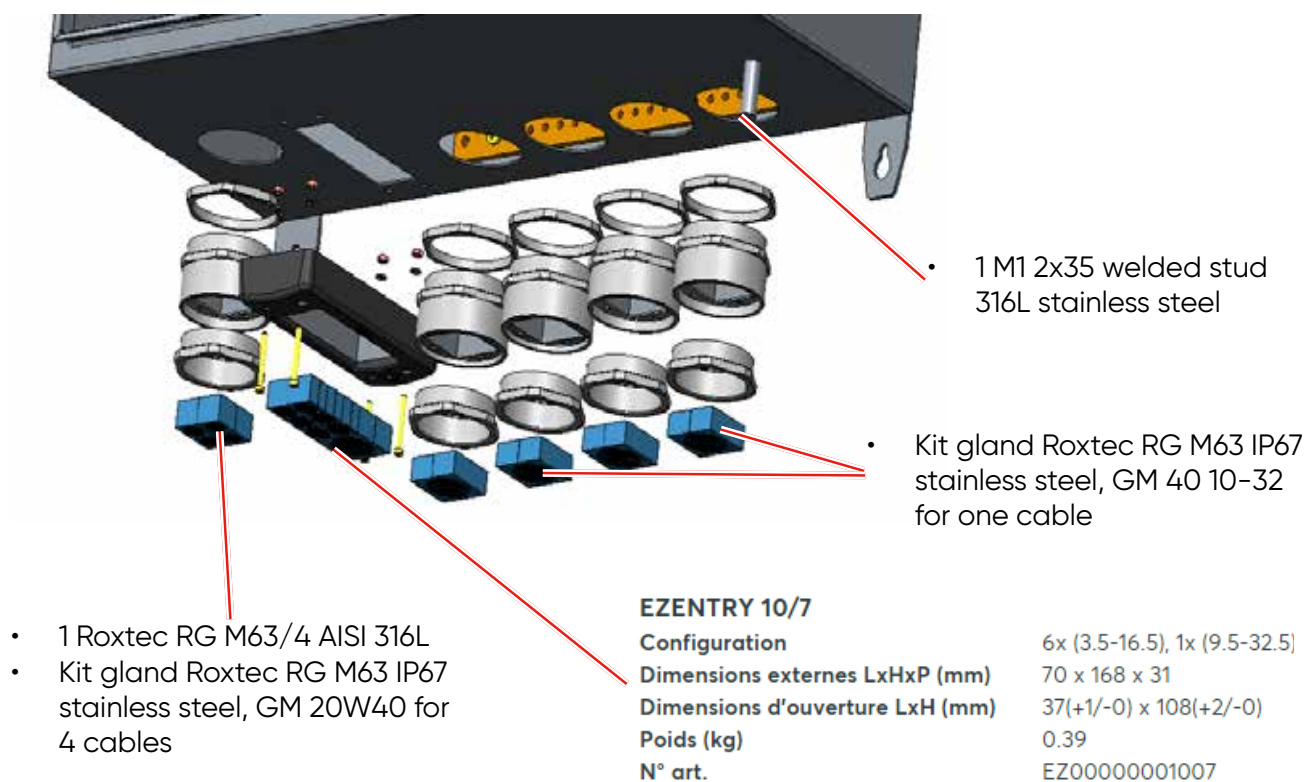
1.4. Patching and splicing module (pre-assembly with 96 pigtails)



LC duplex adaptors and pre-wired pigtails

1.5. Provided kits

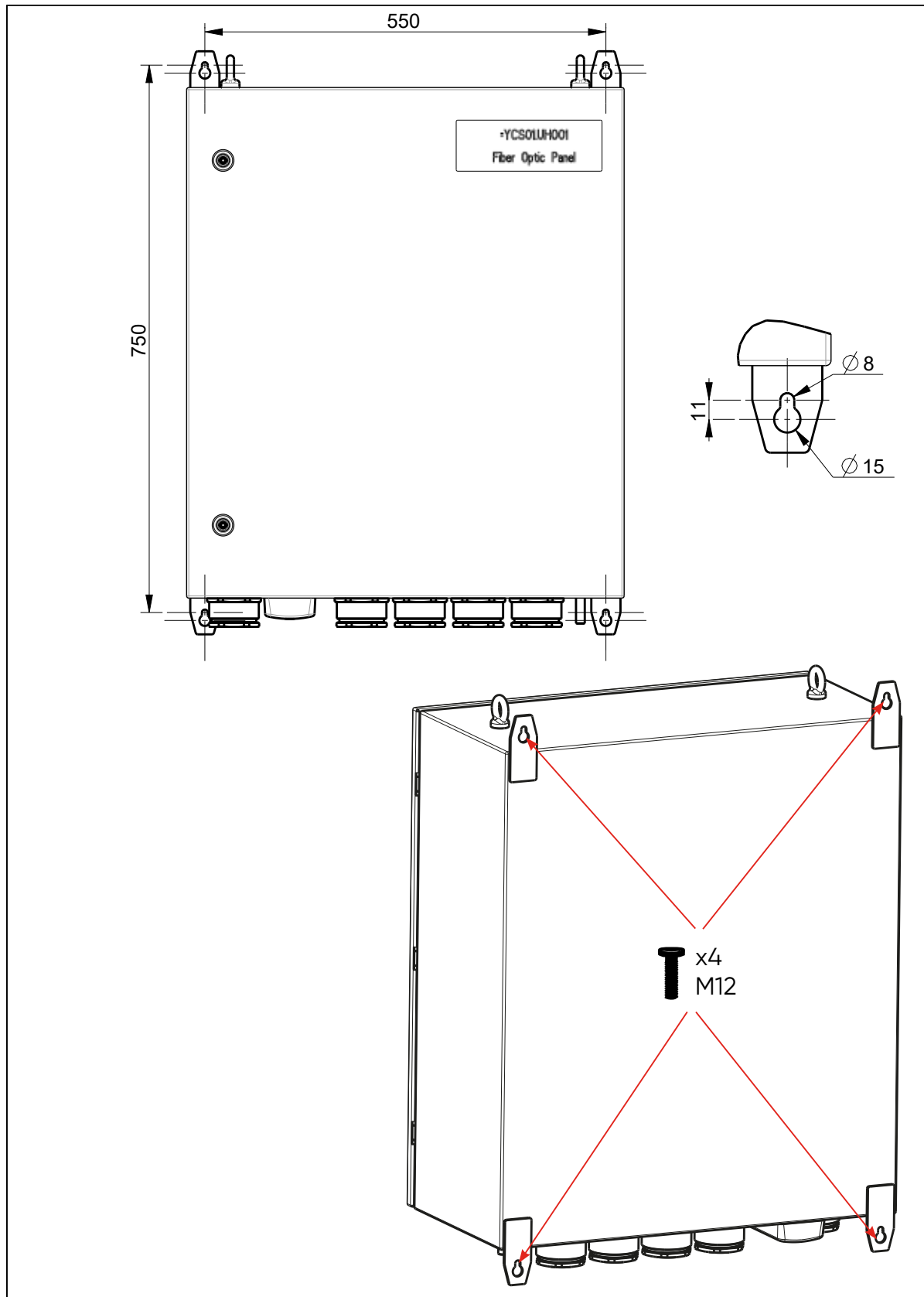
- Cables entries mounted



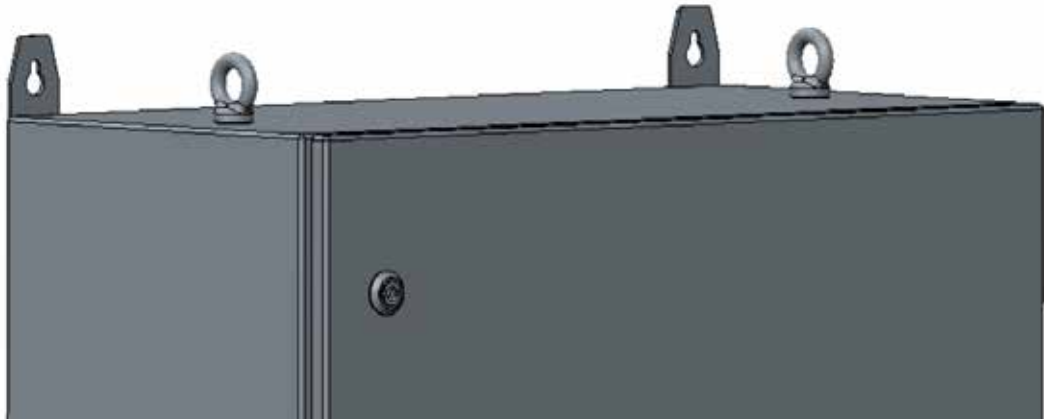
Leave the instructions and the glue sticks of the Roxtec kits in sachets in the box for installers.

2. PACKAGING AND FIXATION

2.1. Wall mounting points

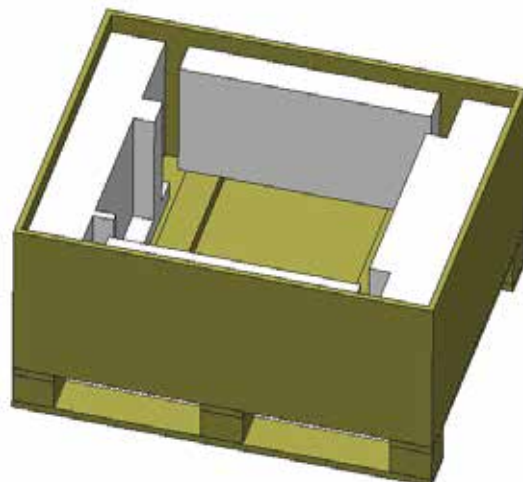
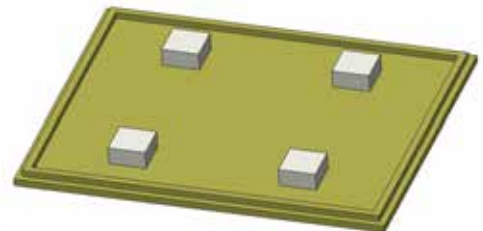
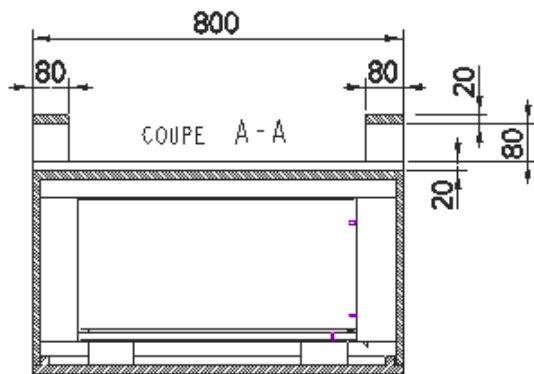
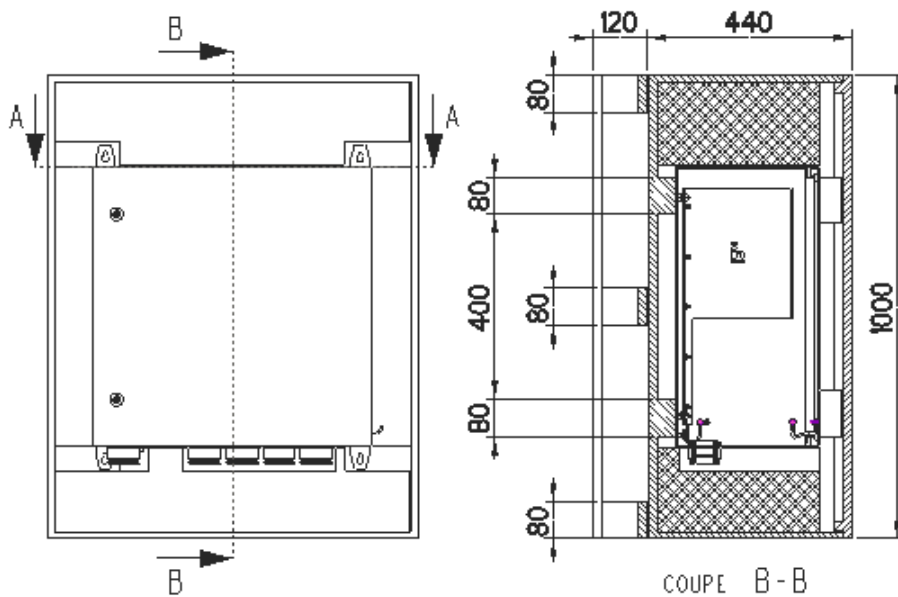


2.2. Fixing points for lifting (transport & installation)



2.3. Packaging

- Unit packaging in wooden maritime box treated following standard NIMP15
- Box protected in a waterproof plastic sheath with desiccant to protect the coating, then placed in the center on 2 heightening boards.
- Box called by a protective foam around.





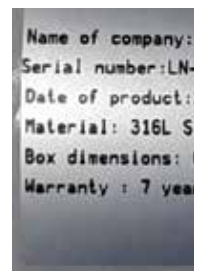
- The panel on the top side of the cabinet must be removable and reusable. Access to the upper mounting brackets of the cabinet must be allowed so that it can be moved with a handling device. Identify this panel: UNLOADED PANEL.

- Each box is delivered with 2 RITTAL type keys, to be put in a plastic bag taped to the wooden box inside above the foams.

Enclosure key – SZ 2531.000
created: 01.10.2019 build on www.rittal.com/uk-en

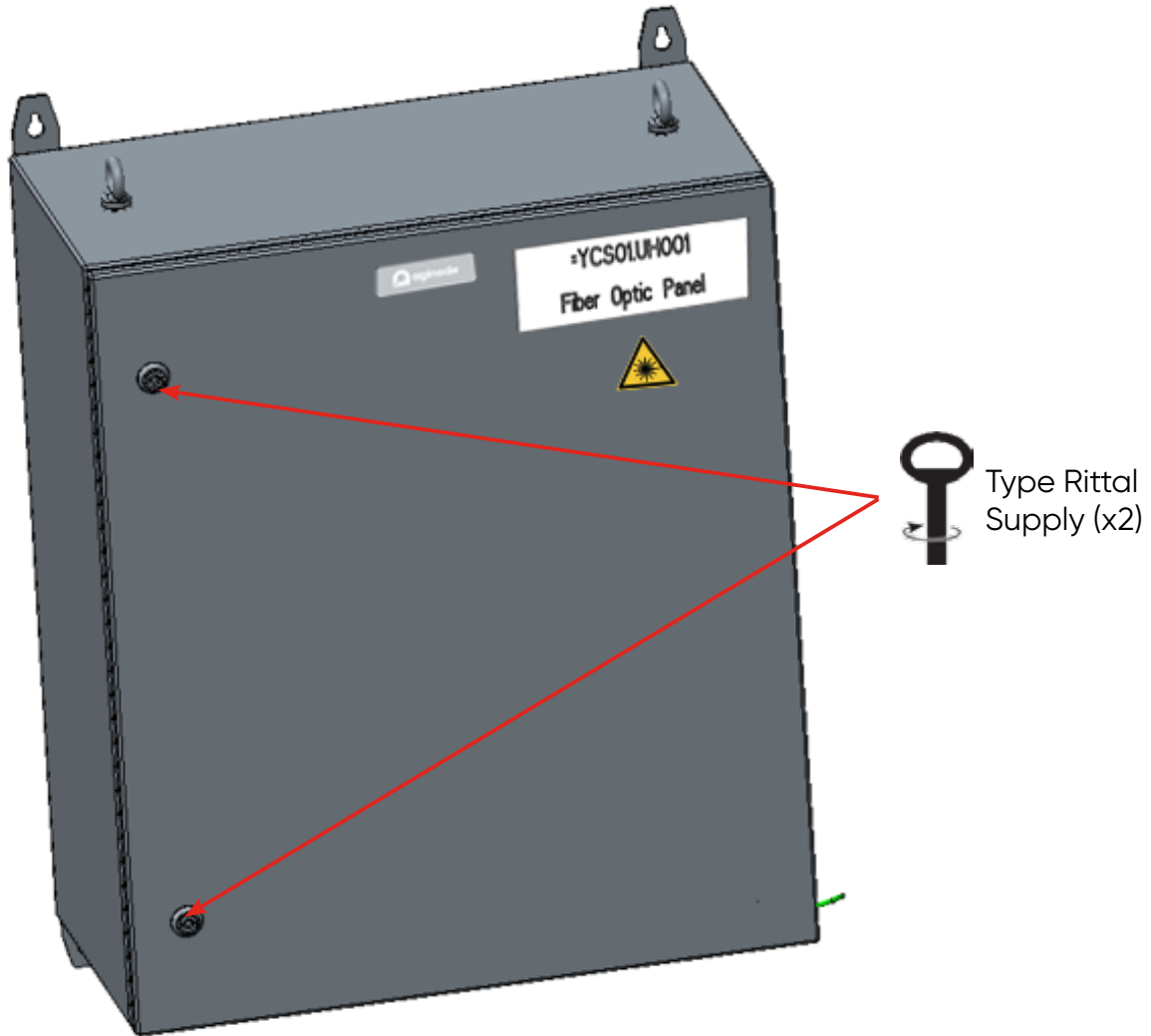


- IP66 tests must be carried out on the initial sample by an approved external laboratory.
- No supplier marking on cabinet and packaging
- An identification label incremented by product is to be stuck inside the box.
- 100% of the boxes must be checked before shipment to Aginode with a FAT type registration form.



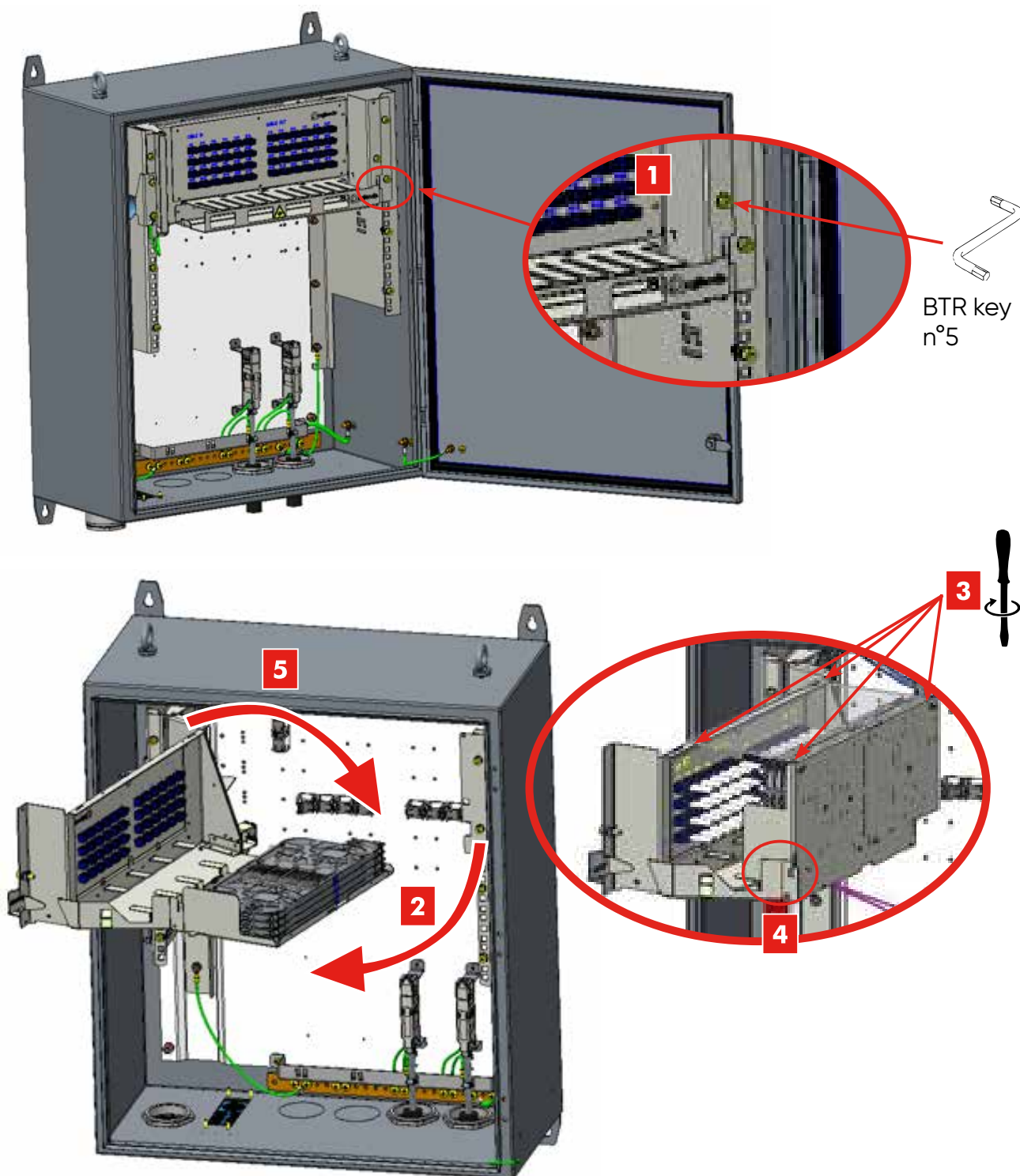
3. PRELIMINARY OPERATIONS

3.1. Opening the box



3.2. Opening the module

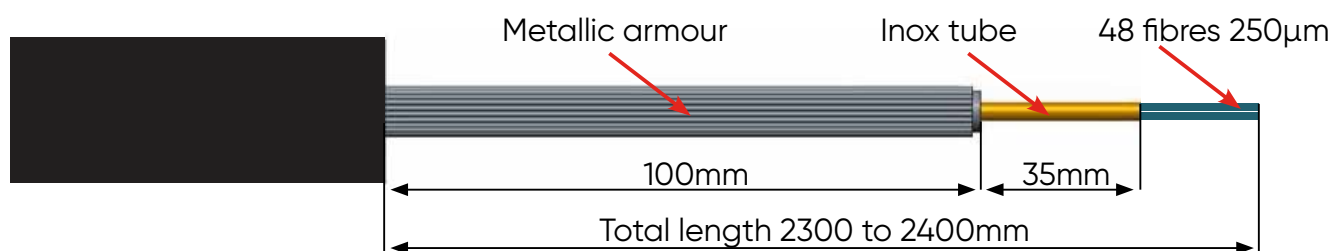
- 1- Unscrew the security screw
- 2- Open the module to the left (BTR key no.5, supply)
- 3- Remove the 4 fixing screws and the translucent cover (screwdriver torx N°10, no supply)
- 4- Unlock the safety lever
- 5- Open the organiser



4. MAIN CABLE INSTALLATION (IAC)

4.1. Cable preparation (48 fibres)

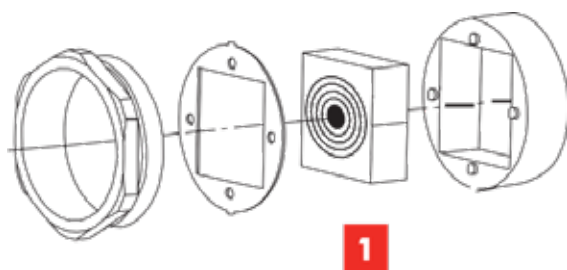
- 1- Metallic armour length 100mm
- 2- Inox tube length 35mm
- 3- Optical fibres length 2300 to 2400mm



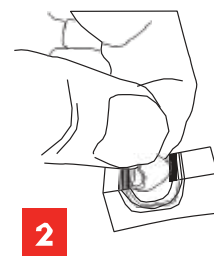
Recommendation for security
Overlength fibres inside the cassette 900 to 1000mm

4.2. Clamping cable

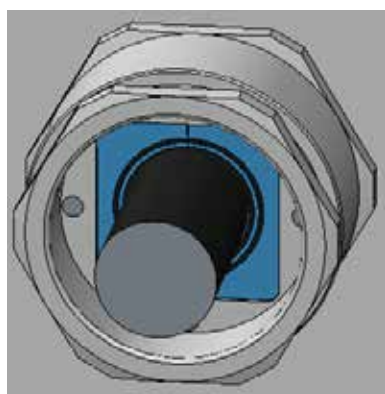
4.2.1. Seal installation



Remove the compression screw and the front washer



Uncap the seal according to the cable diameter



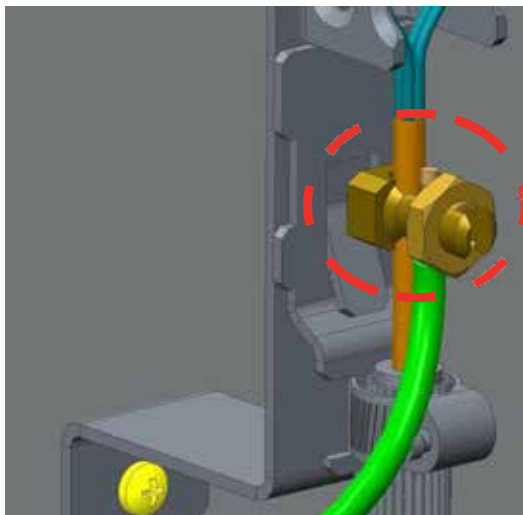
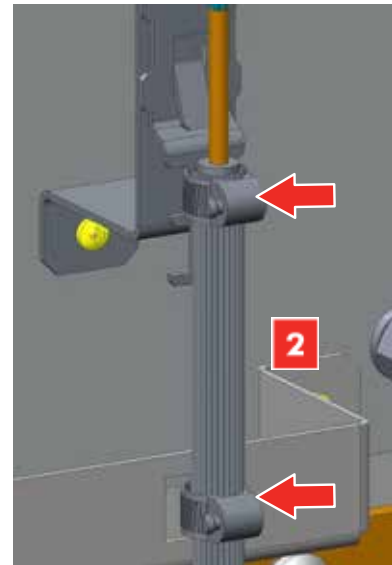
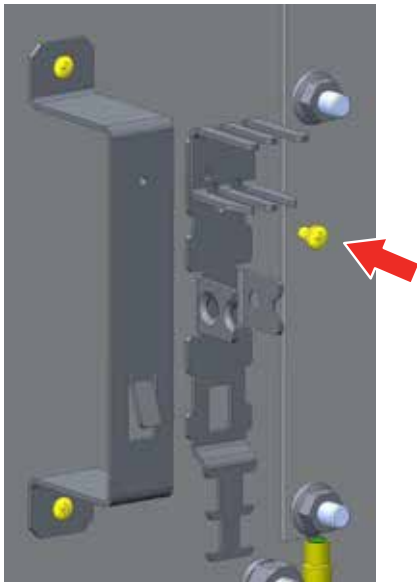
- 3 Place the cable in the module



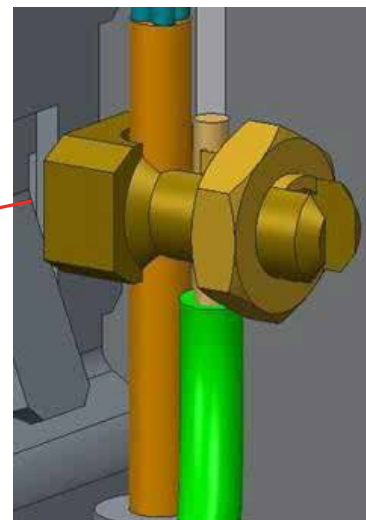
For more details refer to the notice sealing kit

4.2.2. Fixation of the cable in the BAEP

- 1- Fix the BAEP base on the fixation holder
- 2- Clamp the cable to the BAEP with metal ties
- 3- Fix the grounding cable on the inox tube in the BAEP

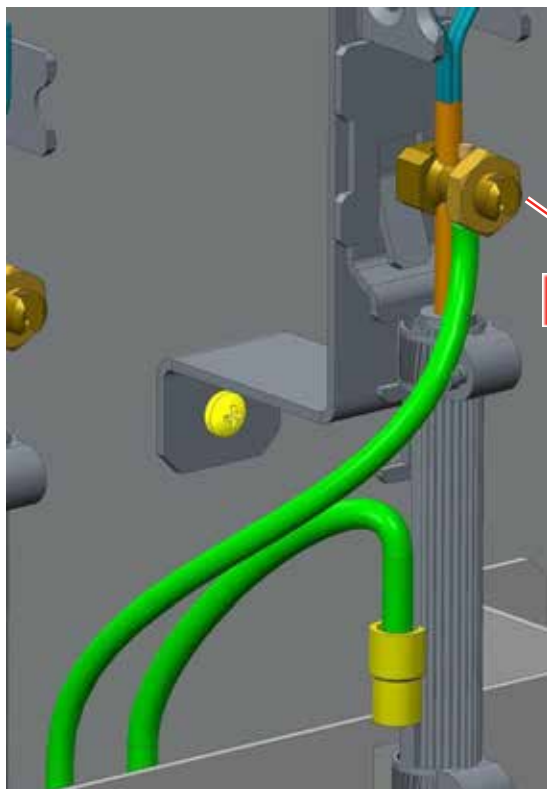


3

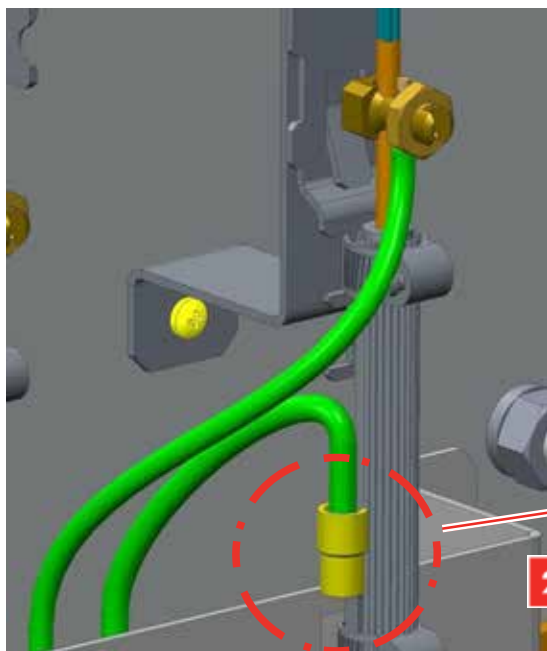


The grounding cables are supplied already stripped

4.2.3. Grounding and clamping



Connect the grounding cable on the copper connector KS16



Hooked terminal

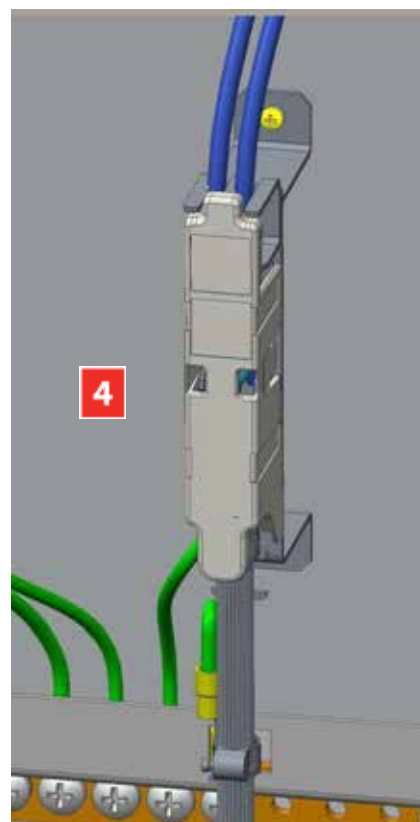
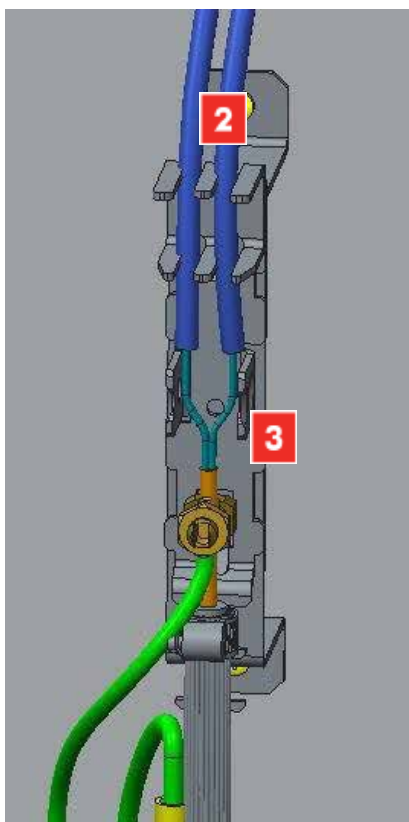
Connect another grounding cable with a hooked terminal on the metallic armour of the cable

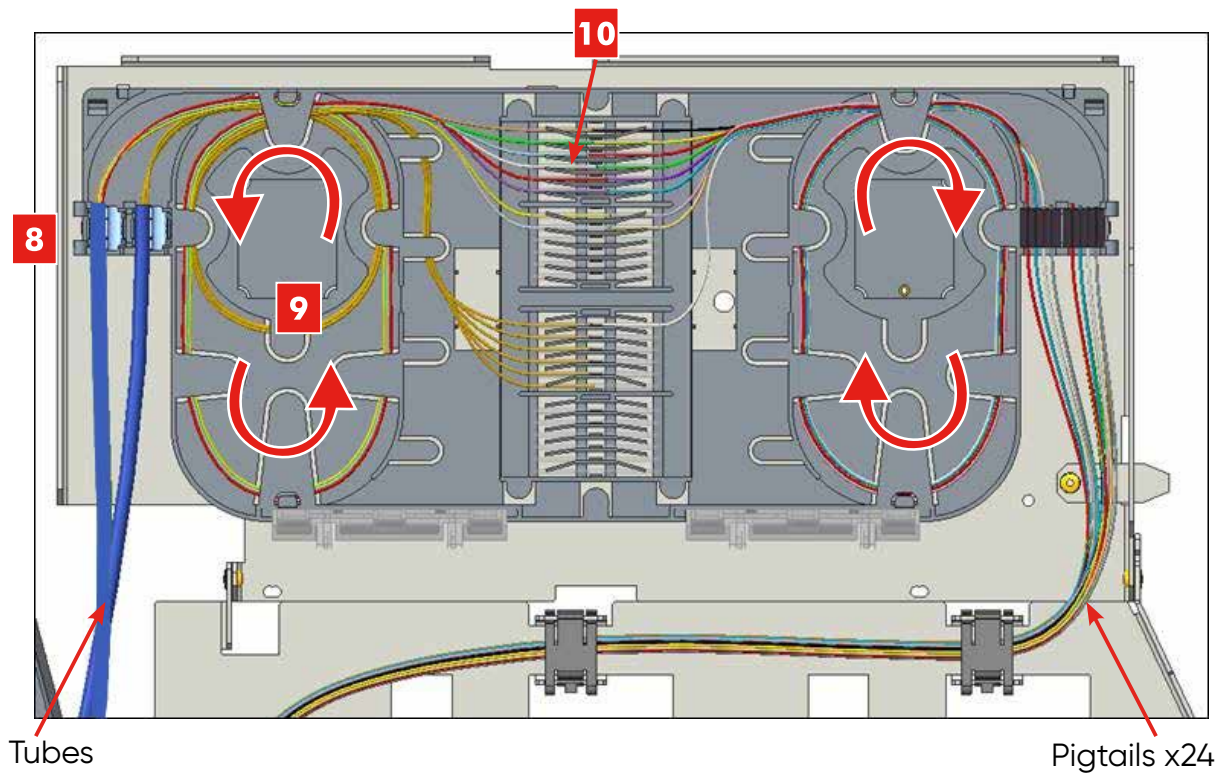
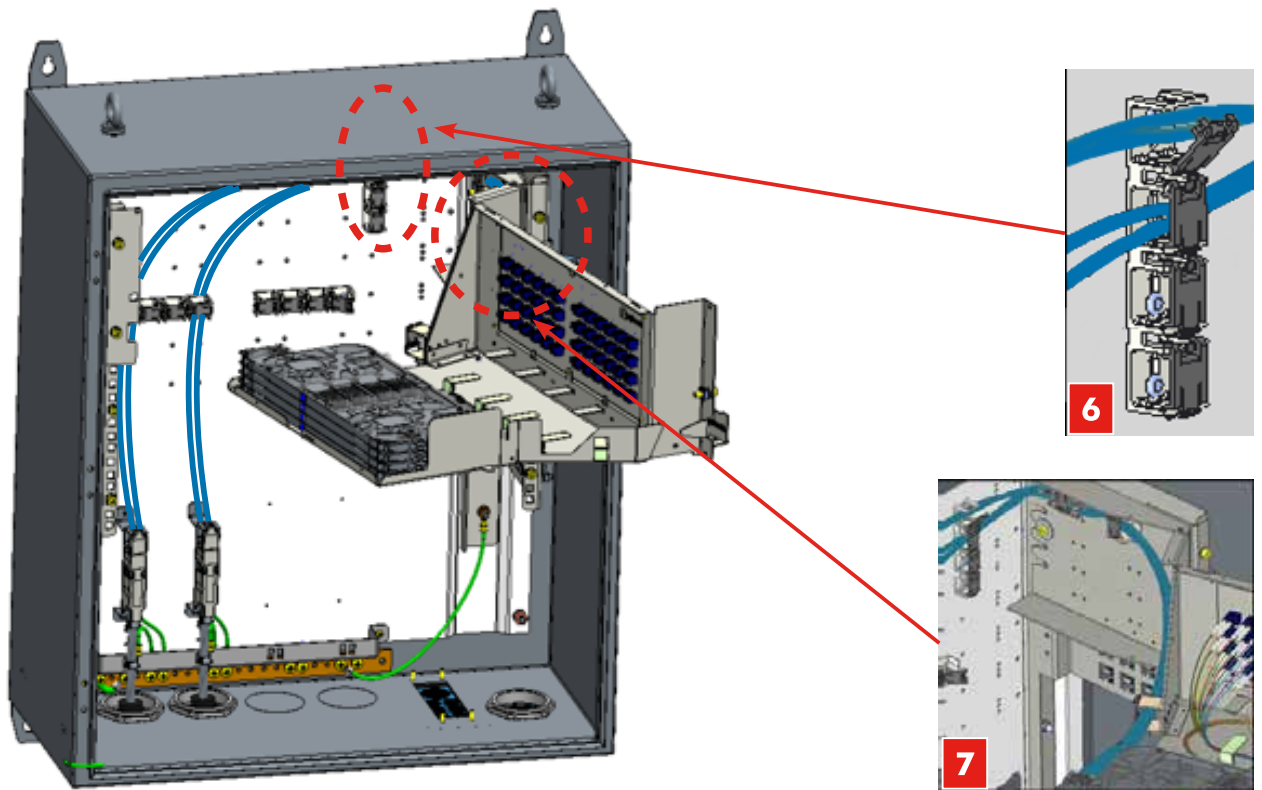
4.3. Routing fibres

- 1- Cut the blue tubes to a length of 1300mm, then adapt length with modules
- 2- Clamp the tubes in the BAEP
- 3- Distribute the cable fibres in the blue tubes
- 4- Close the BAEP
- 5- Route the blue tubes through the guide rings
- 6- Fix the tubes in the plastic comb
- 7- Route tubes toward the cassettes
- 8- Secure the tubes on the plastic comb n°5
- 9- Coil fibres in the coiling area
- 10- Realize the splicing

Blue tube (Ø 5mm)

1

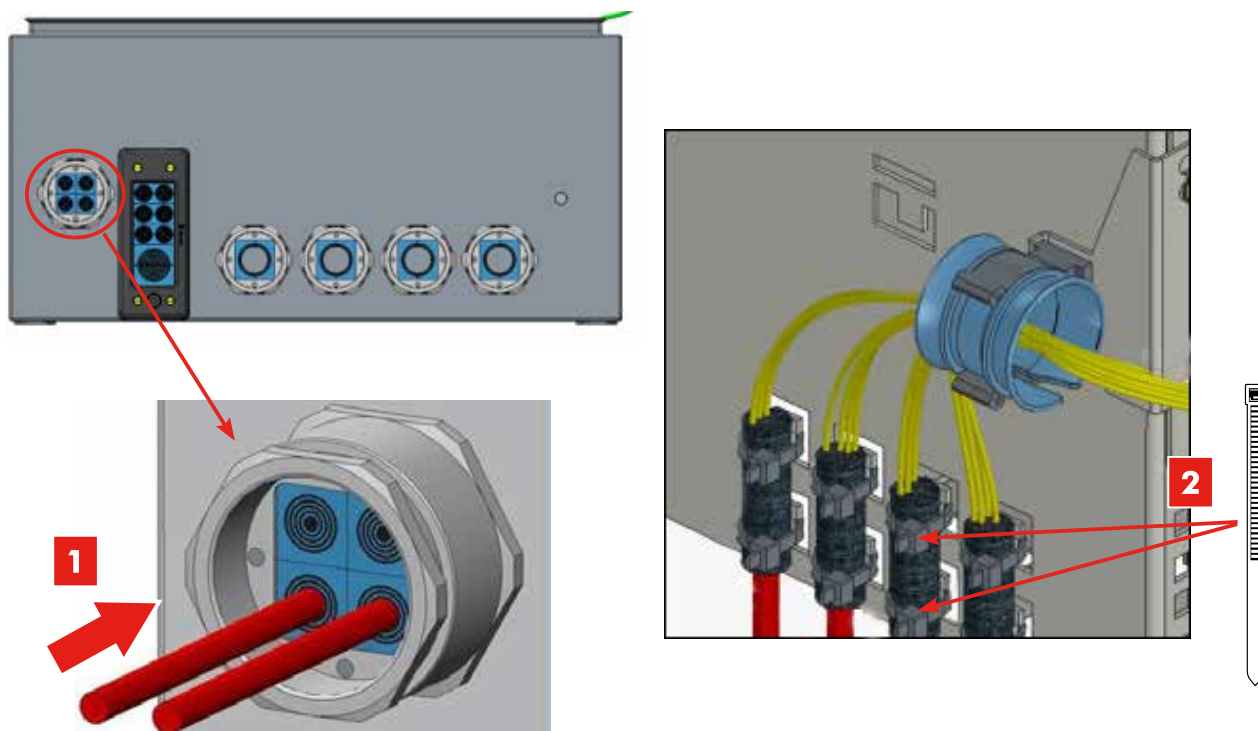




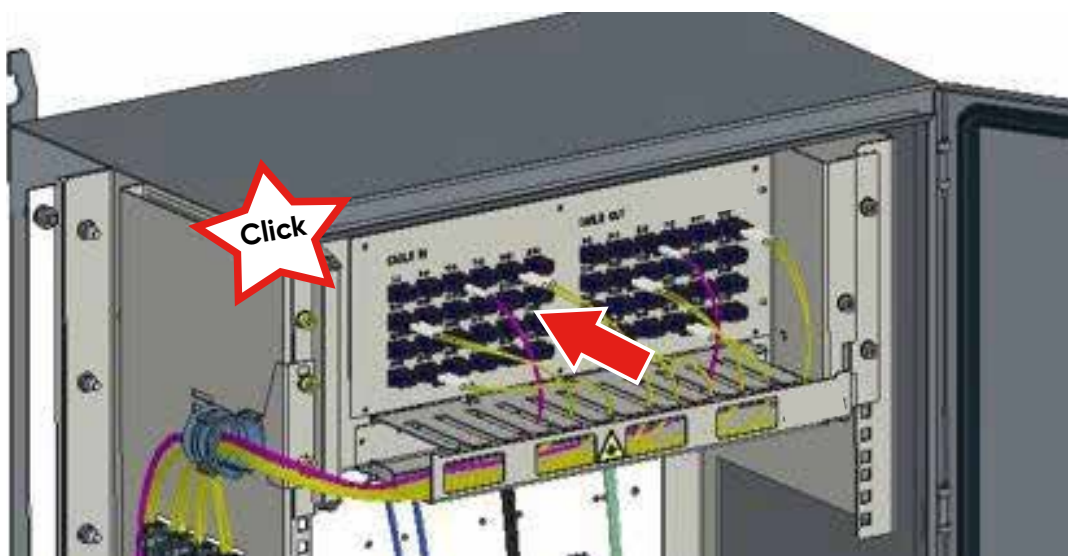
5. PRETERMINATED SECONDARY CABLE INSTALLATION

5.1. Clamping cable

- 1- Install the cables in the sealing kit
- 2- Tighten the cable with plastic ties



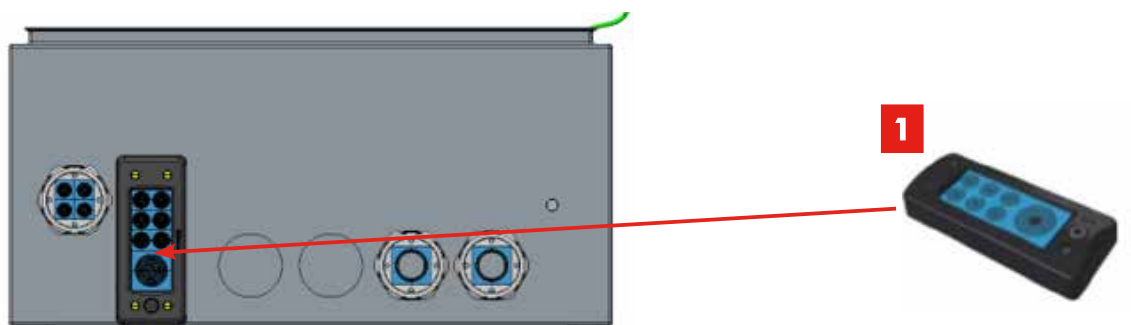
5.2. Routing preterminated fibres on the front of the module



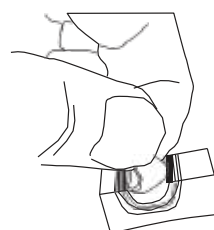
Length of breakout cables at the ends: 600mm

6. BREAKOUT CABLES INSTALLATION

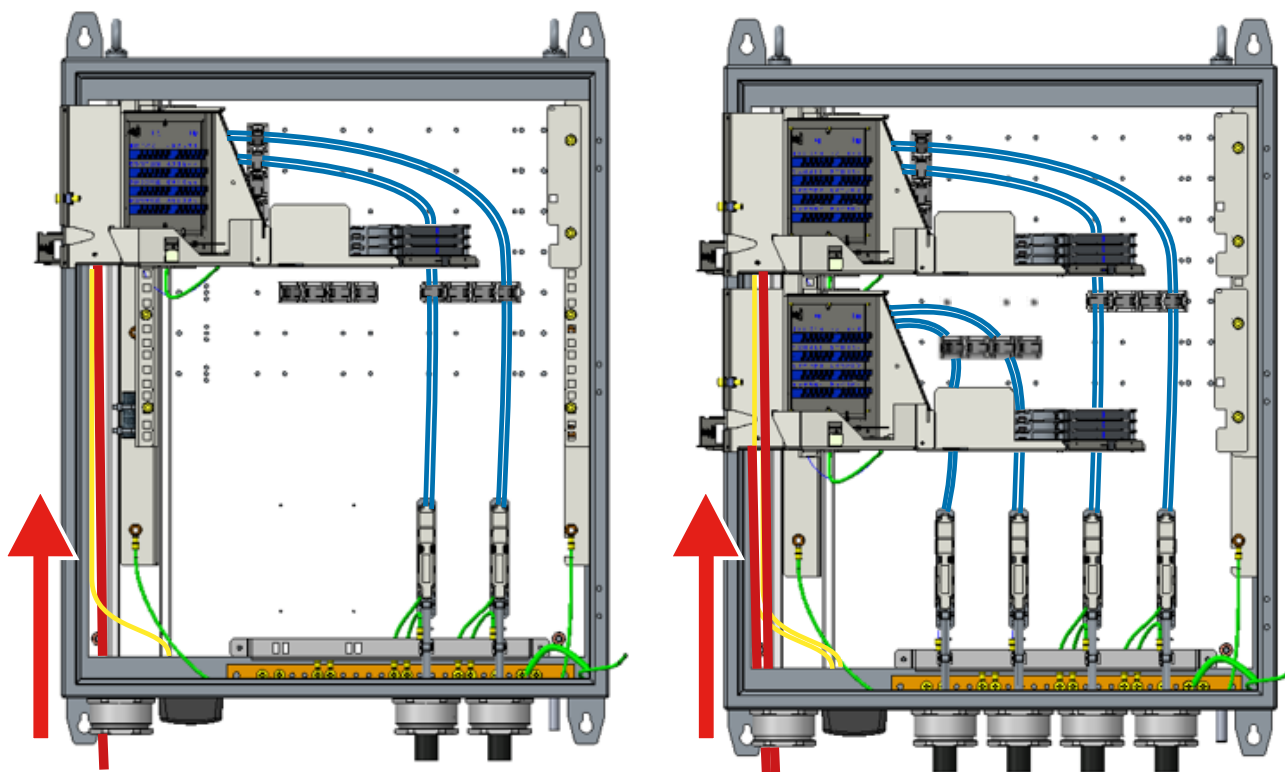
6.1. Seal installation



2 Un cap the seal according to the cable diameter



3 Slide the breakout cables



Two ways:

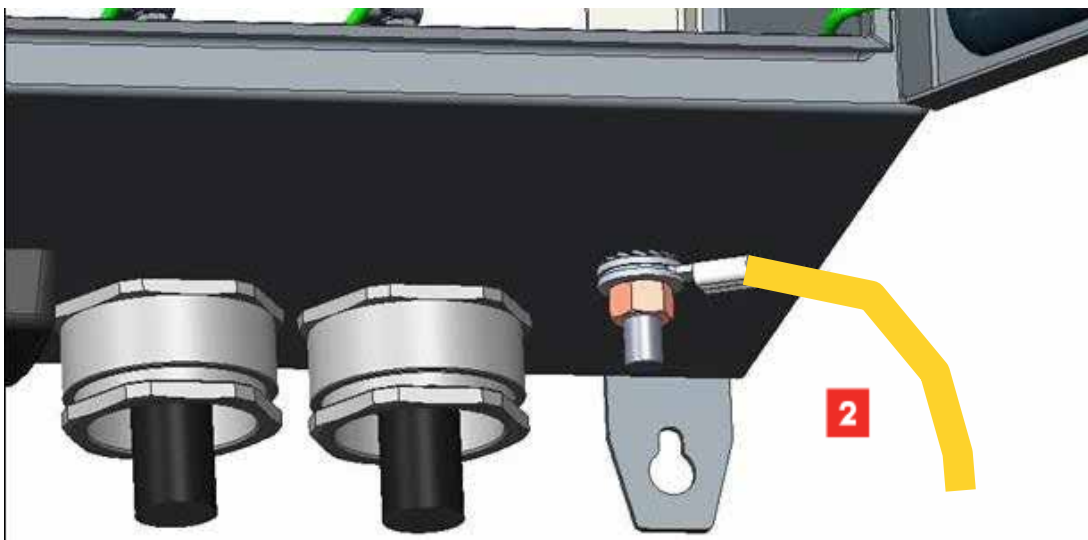
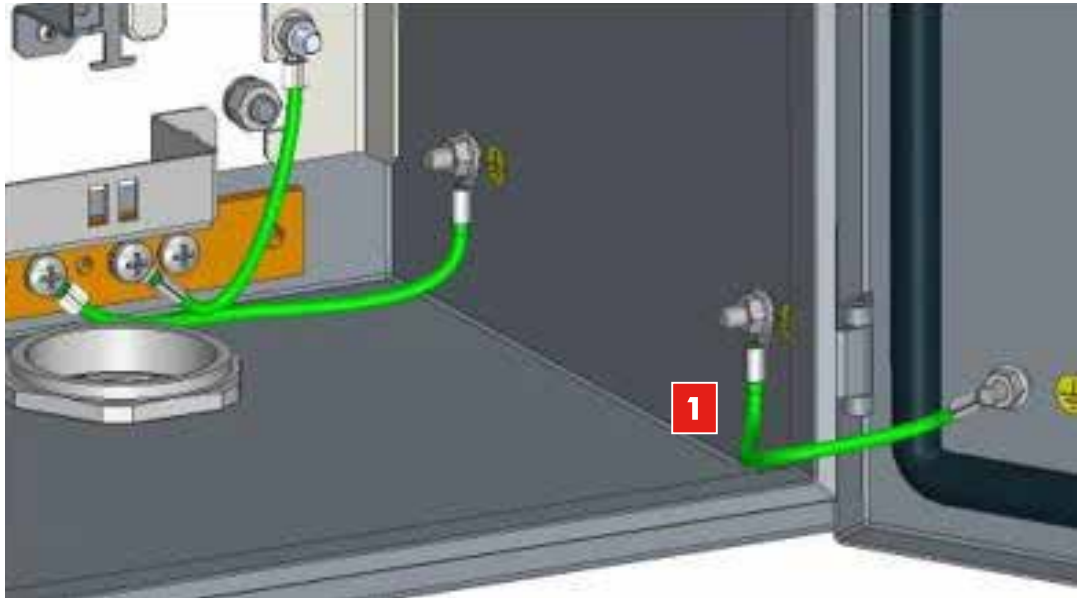
To the patch panel (yellow)

To the cassettes (blue)

7. FINAL OPERATIONS

7.1. Grounding

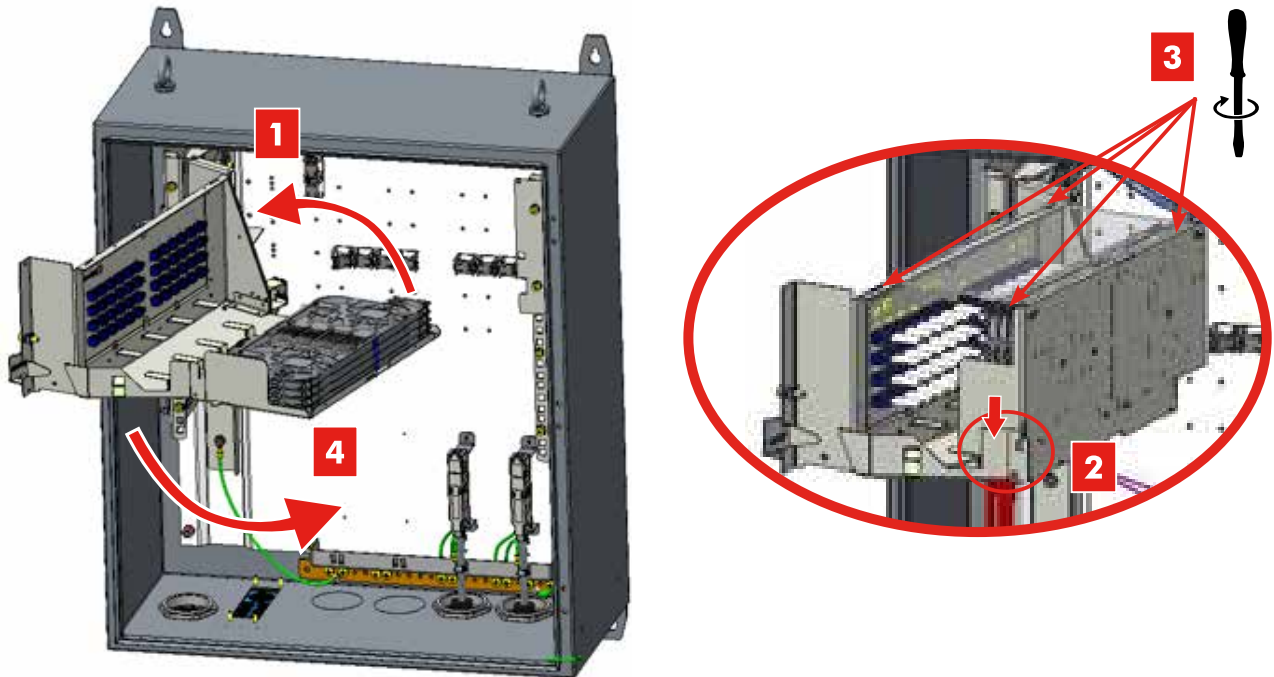
- 1- Grounding wire in the box
- 2- Grounding wire external



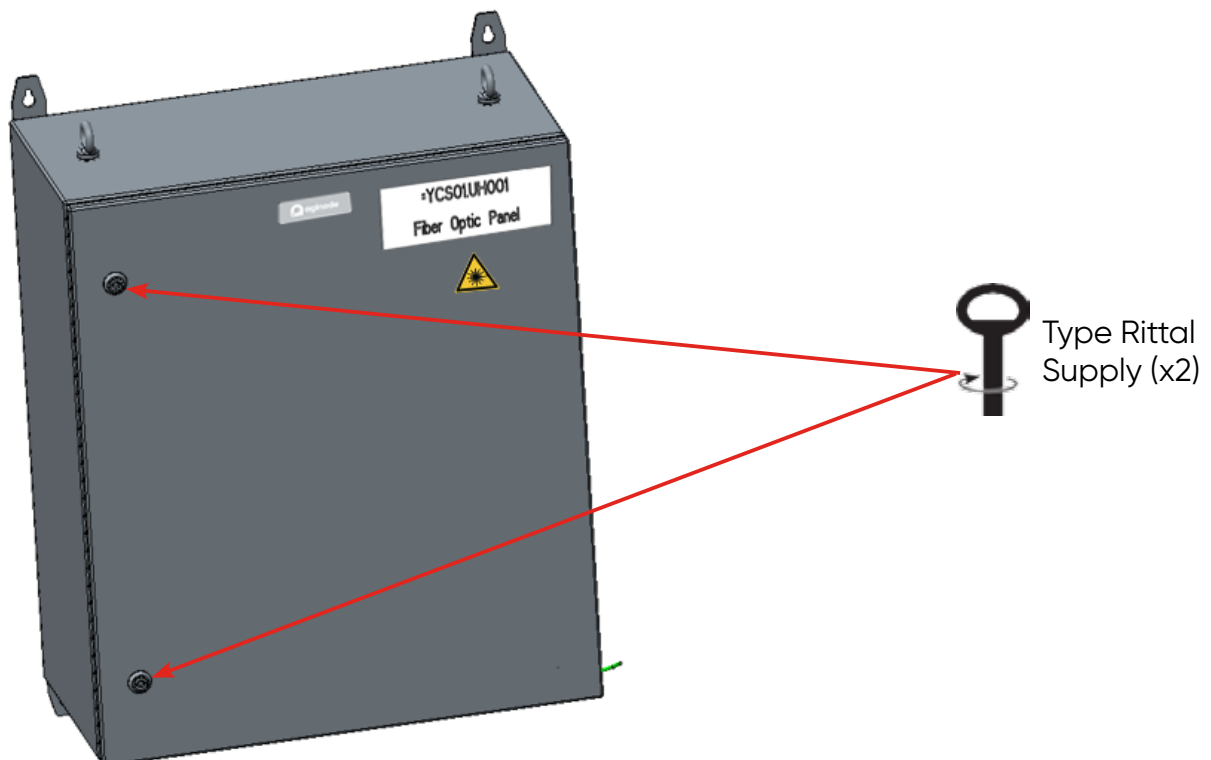
Using washers and nuts to secure grounding wire:
 Earthing bolt dimensions M12x35, A4 stainless steel
 M12 nut with 2 washers

7.2. Closing the module

- 1- Close the organiser
- 2- Lock the safety lever
- 3- Put the cover and the 4 fixing screws
- 4- Close the module and tighten the security screw



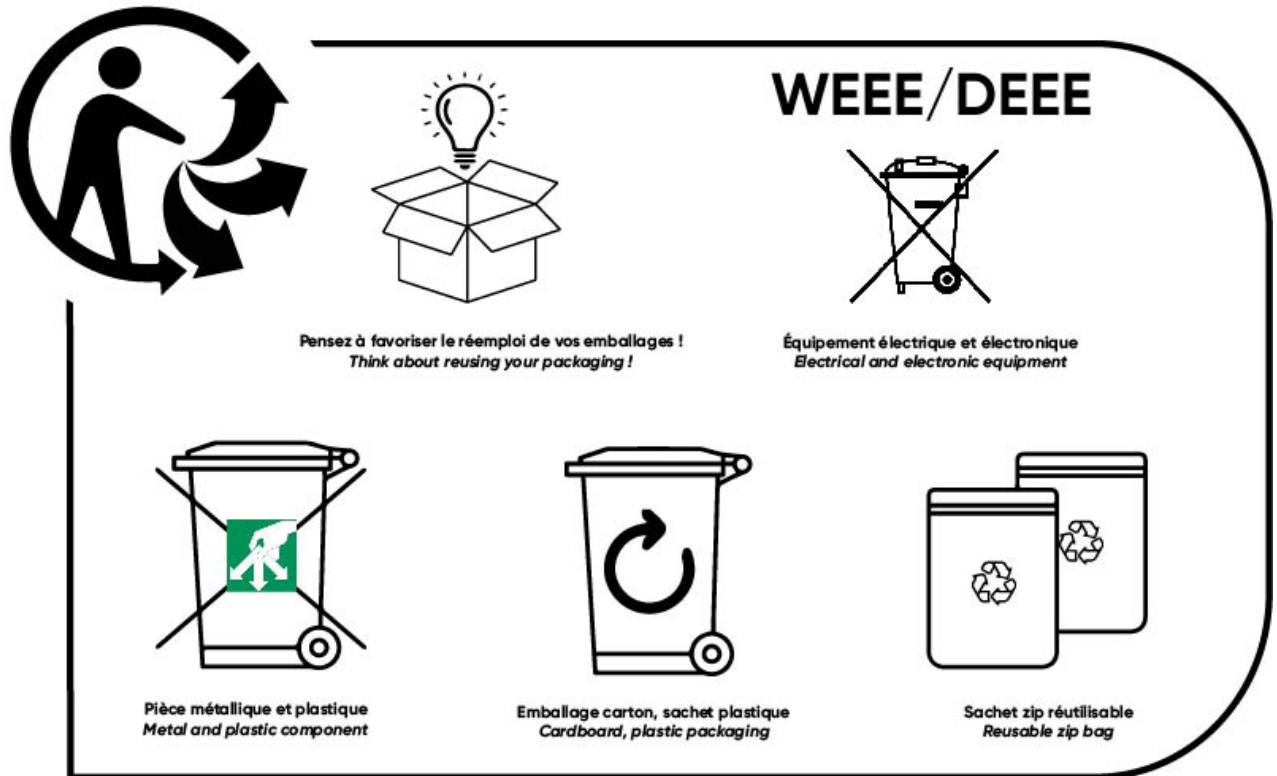
7.3. Closing the box



8. MAINTENANCE OPERATIONS

Refer to the OMM project manual

9. END LIFE INSTRUCTIONS





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