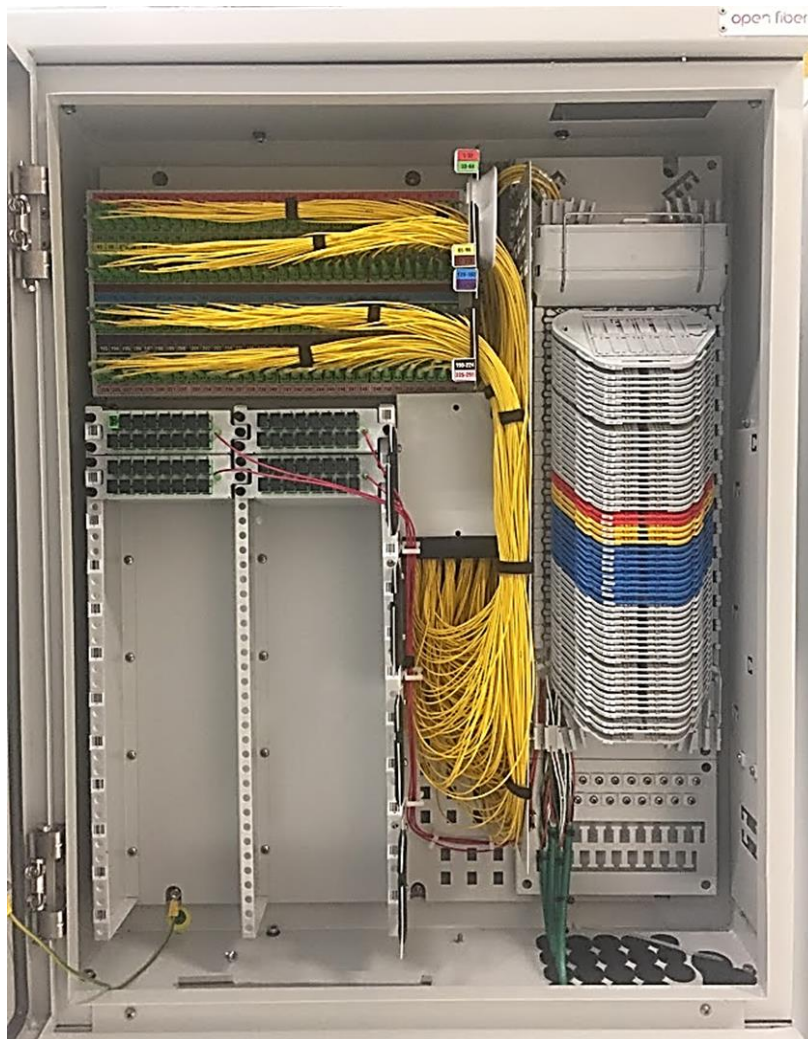


## 1. PRODUCT DESCRIPTION

The Secondary Concentration Point (SCP) patch cabinet HLGX version allows, on a multi-operator passive network (PON) that supports point-to-point and multi-point technologies, the optical connection, with the possibility of exchange, between the cables coming from a primary concentration element and the cables directed to the individual customer.

The cabinet has a secondary network parking area, consisting of a panel with 256 parking spaces, for as many customers that allows the end users to activate and quickly reconfigure, being able to connect any output of the optical splitters with any of the fibers terminated on the other side by the customer. The cabinet is designed to accommodate up to 24 pcs of 1x16 HLGX type optical splitters.

The fibers of the cables belonging to the SCP, spliced and not with pre-connectorized pigtails coming from the parking area, are contained in splice trays with a thickness of 4 mm in different colors. The cabinet is structured in such a way as to guarantee all the optical fibers inside a minimum radius of curvature of 30 mm.



## 2. MAIN CHARACTERISTICS

- Overall dimensions 125 x 75 x 25 cm for type 1 and 125 x 100 x 25 cm for type 2.
- Aluminum Alloy chassis with a degree of protection at least equal to IP65 and IK10.
- Lower cable handling compartment, height of 40cm (included in the maximum dimensions indicated above), separated from the upper section and accessible from the front with a locking system inside the cabinet.
- Grey color, RAL7035.
- Front door hinged on the left and equipped with gasket, must open up to indicatively 110°
- Locking system of the cabinet equipped with a lock compatible with the cylinder a European profile EN1303.
- Unified key, with lock cylinder type "European 333" EN 1303 with single encryption for the whole territory.
- Perimeter seal of the front door and of the lower compartment made of a two-component material (polyurethane/silicone) and applied by pouring, resistant to operating temperatures  $-40 \div +90$  °C.
- Predisposed for future height expansion, by removing the upper cover and positioning of additional expansion element to accommodate additional network elements such as to maintain the IP65 and IK10 degrees of protection.
- At least one opening on the upper right side of the cabinet above the junction area of indicative dimensions of 10x15cm intended for the passage of any cables towards the upper compartment.
- GPON termination area: with 256pcs pigtails SC/APC, G657A1 fiber,  $\varnothing 1.6 \pm 0.2$ mm, total length 2.9m/3.15m (1.7m will in the splice tray), yellow LSZH.
- Splitter Area: Area dedicated to splitters and their management. A maximum of 24 1:16 Splitters can be accommodated, arranged in two vertical rows of 12 splitters each.
- SCP cabinet of type 1 with 20 pcs circular inlets with diameter suitable for the management of outgoing distribution/drop cables up to 18 mm.
- SCP cabinet of type 2 with 50 additional circular inlets with diameter suitable for the management of outgoing drop cables up to 3 mm.
- GPON patch area: Area dedicated to the hosting and management of the GPON semi-connectorized patch cables, which are terminated in "GPON termination area" and spliced to GPON outgoing optical fibers in "Splicing area".
- Splicing Area: this area is composed by different groups of splicing trays and is dedicated to the splice management and to the termination of fibers of both incoming and outgoing cables by means of adequate splicing trays. This area is divided in:
  - Distribution GPON splices area: 22 blue trays.
  - Aggregation GPON splices area: 2 grey trays.
  - Aggregation termination area: 3 yellow trays.
  - P2P splices area: 9 red trays.
  - Distribution termination area: 20 blue trays.

### 3. RFID and LABELS

The product will be equipped with the following:

- adhesive RFID identification tag applied inside the door handle;
- numeration and labeling of the splitters, connectors and splice trays according to specification;
- numeration and labeling of the splitters positions and parking areas according to specification;
- label on the door with
  - batch number consisting of the month and the last two digits of the year of production
  - supplier acronym and logo
- NON-removable label with permanent ink with QRcode with supplier information and operating manuals;
- NON-removable label with permanent ink customizable on-field with format ##x##
- NON-removable label with permanent ink with PPC logo (will be defined prior product order)
- External door labeled with the warning laser beam icon (UNI EN ISO 7010-2012)

### 4. FUNCTIONAL DIAGRAM

