SCP Cabinets Installation Instruction
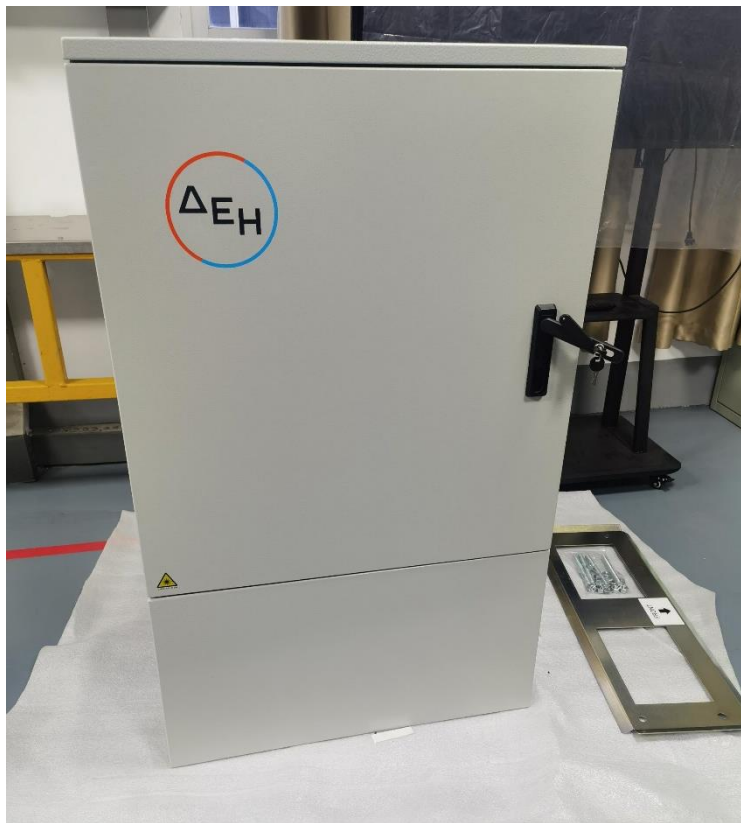
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1   Basic cabinet configuration

- n° 20 cable entry points for primary and secondary network cables (various diameters) IP65;

- n° 1 metal plate for fixing primary and secondary network cables;

- n° 56 trays for junction housing / parking fiber primary and secondary network;

- n° 4 HLGX splitters pre-installed in the dedicated area (max installable 24);

- n° 256 parking sleeves with pre-installed connectors in the appropriate area;

- n° 256 semi-connectorized patch cable 1,6-1,8mm SC/APC connectorized from the parking area and arranged inside the trays of the secondary network (12 fibers per tray);

- Plate fixing cabinet to the ground with screws;

- RFID adhesive identification tag applied inside the door handle;

- **In type 2 SCP cabinet (underground)**, n° 50 additional circular inlets to manage drop cables up to 3 mm;

NOTE: TRANSPORT/INSTALLATION PRECAUTIONS
The cabinet is supplied in cardboard packaging with polystyrene to protect.
Remove cardboard and polystyrene, open the cabinet door, and install the 4 splitters in the first 4 position.

2   Installation of the cabinet on the base

For the mechanical fixing of the cabinet to the base is available a fixing anchor, it must be immersed in concrete, the M14 threaded bars when finished will have to emerge from the concrete between 25mm and 30mm. When using a prefabricated plinth, the anchor is not needed.
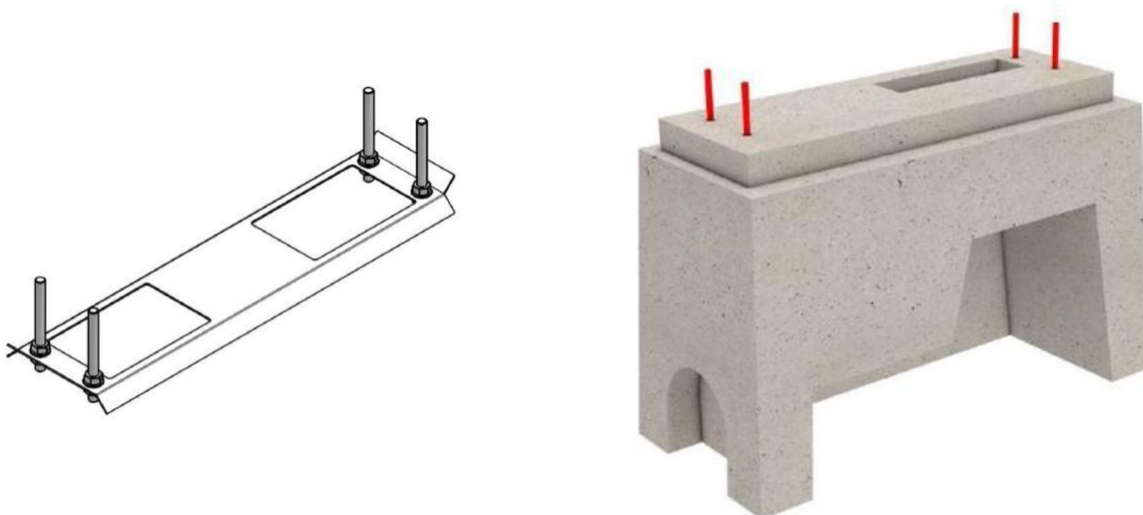
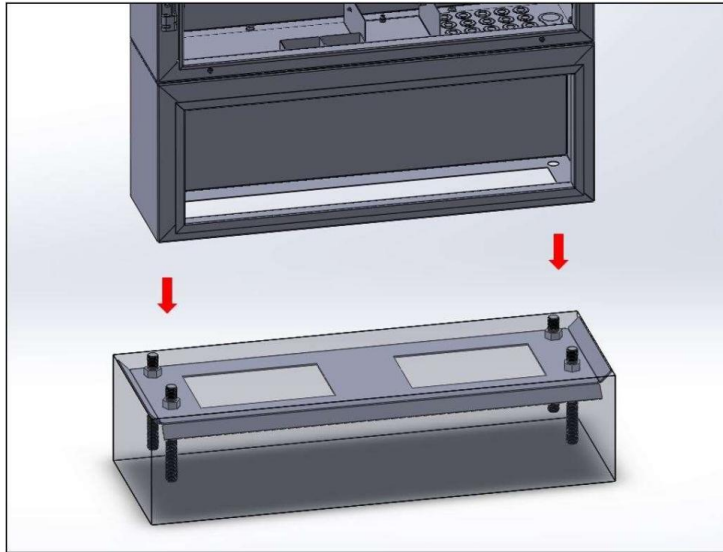**To install, proceed as follows:**

- Place the cabinet above the fixing plate by matching the 4 holes with the related threaded pins protruding from the plate itself;

- -Open the lower compartment of the cabinet through the screws accessible only after opening the door;

- Place the flanged nuts on the 4 threaded pins;

- With appropriate tools tighten the nuts, verifying the correct position of the cabinet and the functionality of the door.

3   Wiring of a continuous cable (loop)
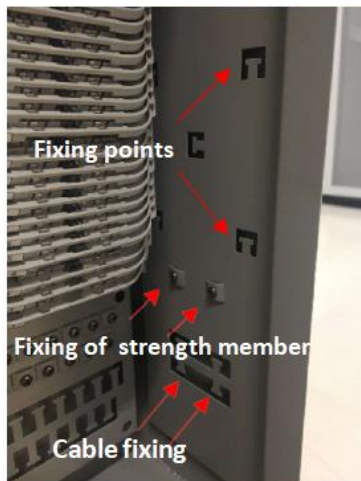
For the wiring of a continuous cable (loop) proceed as follows:

- remove the cable entry of the oval entrance from the bulkhead;

- insert through the oval entrance the cable you want to attest, for a length of at least 3 m;

- on the cable remove a stretch of outer sheath for a length of 2.5 m;

- free the tubes containing the fibers from taping and ligations throughout the stretch stripped;

- cut the pull element leaving a piece of about 10 cm on both ends of the draw;

- select the tube(s) whose fibers must be joined and cut it in half the length of the drain (2 m);

- roll the other tubes on themselves in order to form a circle (loop) with a diameter of about 20 cm and lock them with plastic ties;

- retract the cable so prepared so that the two pieces of the pull element can be inserted into the prepared clamps;

- insert the "loop" behind the support plate of the trays;

- lock the tensile elements to the clamps at such a distance that the cable sheath can also be attached to the plate. Cut off any excess shooting element;

- Fix the cable sheath to the metal plate with plastic ties;

- cut the cable entry so that it can be inserted on the cable and position it on the oval entrance of the bulkhead;

- route the tubes containing the fibers to be joined in the appropriate area;

- mark the tubes above the fixing area and unscrew the excess part;

- clean the fibers from the gel;

- Attach the tube to the base and route the fibers to the desired tray according to the regulations.

Out Line

TYPE 2 SCP Cabinet: for type 2 SCP (underground), the operation of the loop is the same as above, except that the position is changed from the side to the back, as visible in the following picture:
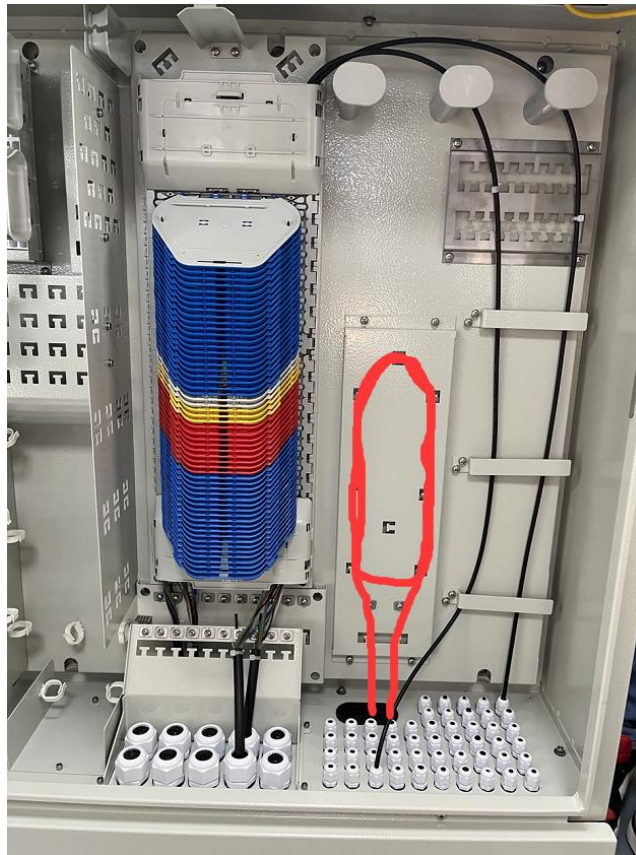
4 Cabling of incoming/outgoing cables

For the wiring of an input/output cable, proceed as follows:

- Remove the additional metal plate (used for cables 11 to 20);

- remove from the bulkhead the cable entry of the desired entrance;

- insert through the entrance the cable you want to attest, for a length of at least 2.5 m;

- insert the cable entry on the cable taking care to drill it only for its diameter;

- remove on the cable a stretch of outer sheath for a length of about 2 m;

- free the tubes containing the fibers from taping and ligations throughout the draw;

- cut the pull element leaving a cut of about 10 cm;

- retract the cable so prepared so that the pull element can be inserted into the prepared clamp;

- Lock the clamp pull element so that the cable sheath can also be attached to the plate. If necessary, cut the excess shooting element;

- with plastic ties fix the cable sheath to the metal plate;

- place the cable entry on the hole of the bulkhead;

- route the tubes containing the fibers to be joined in the appropriate area;

- mark the tubes above the fixing area and unscrew the excess part;

- clean the fibers from the gel;

- fix the tubes to the base and route the fibers to the desired trays according to required regulations.

NOTE: when the first 10 cables are fixed in position (the first two back rows of PG cable glands), the additional metal plate must be put back in position to allow the correct cable management.

TYPE 2 SCP Cabinet: for type 2 SCP (underground), the cabling operation is the same as above. In addition, there is a right-side area to manage the 3mm drop cables. The cables must be routed with the metal cable managers, fixed with a tie wrap on the upper metal plate and then inserted in the splice trays area from the top-right side.
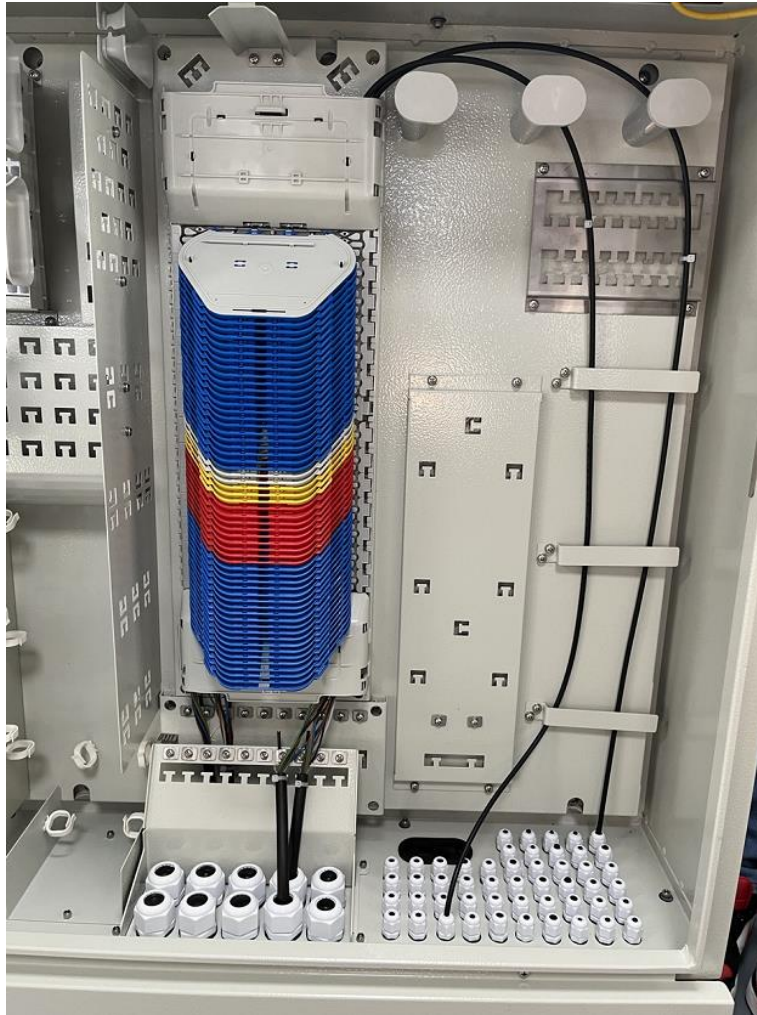
5   Splice Trays configuration

Each Area (group of splicing trays) must have a different color, so that construction, delivery and maintenance activities are facilitated. Starting from the top:

- 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

Out Line

6   Replacement of a semi-connectorized patch cables in the termination area

To replace a semi-connectorized patch cables in the termination area, proceed as follows:

- Gently remove from the tray the fiber richness of the semi-connectorized patch cables to replace;

- remove all existing constraints, up to the connector;

- detach the connector from the adapter and remove the semi-connectorized patch cables from the wiring;

- Attach the connector of the new semi brace to the adapter;

- place the semi-connectorized patch cables in order to follow the path of the other semi-connectorized patch cables, in the final part as from photo enter from the right side of the fasblock, fasten with velcro

- remove the 900 µm sheath and then the 250 µm sheath in the protected area of the fasblock;

- put the exceeding optical fiber into the trays.
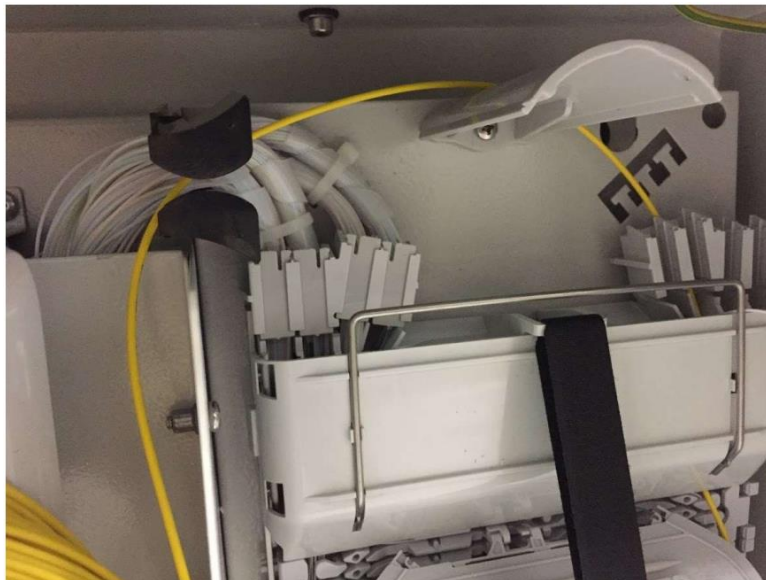
7 Adding/wiring an optical splitter

To add an optical splitter to those already present in the cabinet operate as follows:

- place the splitter in the first available position;

- fasten by pushing the plastic buttons;

- route the input strap of the optical splitter towards the termination area of the primary network following the path prepared and indicated in the photos;

- enter the fasblock;

- remove the 900 μm sheath and then the 250 μm sheath in the protected area of the fasblock;

- put the exceeding optical fiber into the trays.

8   Activation of a real estate unit
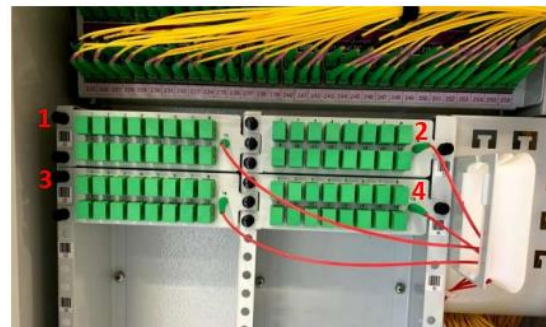
To activate a real estate unit (UI) proceed as follows:

- -identify in the junction area through the following table the fiber to be joined;

#	Color		#	Color		#	Color		#	Color		#	Color		#	Color	
1	BLUE		49	BLUE		97	BLUE		145	BLUE		193	BLUE		241	BLUE	
2	ORANGE		50	ORANGE		98	ORANGE		146	ORANGE		194	ORANGE		242	ORANGE	
3	GREEN		51	GREEN		99	GREEN		147	GREEN		195	GREEN		243	GREEN	
4	BROWN		52	BROWN		100	BROWN		148	BROWN		196	BROWN		244	BROWN	
5	GREY	56	53	GREY	52	101	GREY	48	149	GREY	44	197	GREY	40	245	GREY	36
6	WHITE		54	WHITE		102	WHITE		150	WHITE		198	WHITE		246	WHITE	
7	RED		55	RED		103	RED		151	RED		199	RED		247	RED	
8	BLACK		56	BLACK		104	BLACK		152	BLACK		200	BLACK		248	BLACK	
9	YELLOW		57	YELLOW		105	YELLOW		153	YELLOW		201	YELLOW		249	YELLOW	
10	PURPLE		58	PURPLE		106	PURPLE		154	PURPLE		202	PURPLE		250	PURPLE	
11	PINK		59	PINK		107	PINK		155	PINK		203	PINK		251	PINK	
12	TURQUOISE		60	TURQUOISE		108	TURQUOISE		156	TURQUOISE		204	TURQUOISE		252	TURQUOISE	
13	BLUE		61	BLUE		109	BLUE		157	BLUE		205	BLUE		253	BLUE	
14	ORANGE		62	ORANGE		110	ORANGE		158	ORANGE		206	ORANGE		254	ORANGE	
15	GREEN		63	GREEN		111	GREEN		159	GREEN		207	GREEN		255	GREEN	
16	BROWN		64	BROWN		112	BROWN		160	BROWN		208	BROWN		256	BROWN	
17	GREY	55	65	GREY	51	113	GREY	47	161	GREY	43	209	GREY	39			35
18	WHITE		66	WHITE		114	WHITE		162	WHITE		210	WHITE				
19	RED		67	RED		115	RED		163	RED		211	RED				
20	BLACK		68	BLACK		116	BLACK		164	BLACK		212	BLACK				
21	YELLOW		69	YELLOW		117	YELLOW		165	YELLOW		213	YELLOW				
22	PURPLE		70	PURPLE		118	PURPLE		166	PURPLE		214	PURPLE				
23	PINK		71	PINK		119	PINK		167	PINK		215	PINK				
24	TURQUOISE		72	TURQUOISE		120	TURQUOISE		168	TURQUOISE		216	TURQUOISE				
25	BLUE		73	BLUE		121	BLUE		169	BLUE		217	BLUE				
26	ORANGE		74	ORANGE		122	ORANGE		170	ORANGE		218	ORANGE				
27	GREEN		75	GREEN		123	GREEN		171	GREEN		219	GREEN				
28	BROWN		76	BROWN		124	BROWN		172	BROWN		220	BROWN				
29	GREY	54	77	GREY	50	125	GREY	46	173	GREY	42	221	GREY	38			
30	WHITE		78	WHITE		126	WHITE		174	WHITE		222	WHITE				
31	RED		79	RED		127	RED		175	RED		223	RED				
32	BLACK		80	BLACK		128	BLACK		176	BLACK		224	BLACK				
33	YELLOW		81	YELLOW		129	YELLOW		177	YELLOW		225	YELLOW				
34	PURPLE		82	PURPLE		130	PURPLE		178	PURPLE		226	PURPLE				
35	PINK		83	PINK		131	PINK		179	PINK		227	PINK				
36	TURQUOISE		84	TURQUOISE		132	TURQUOISE		180	TURQUOISE		228	TURQUOISE				
37	BLUE		85	BLUE		133	BLUE		181	BLUE		229	BLUE				
38	ORANGE		86	ORANGE		134	ORANGE		182	ORANGE		230	ORANGE				
39	GREEN		87	GREEN		135	GREEN		183	GREEN		231	GREEN				
40	BROWN		88	BROWN		136	BROWN		184	BROWN		232	BROWN				
41	GREY	53	89	GREY	49	137	GREY	45	185	GREY	41	233	GREY	37			
42	WHITE		90	WHITE		138	WHITE		186	WHITE		234	WHITE				
43	RED		91	RED		139	RED		187	RED		235	RED				
44	BLACK		92	BLACK		140	BLACK		188	BLACK		236	BLACK				
45	YELLOW		93	YELLOW		141	YELLOW		189	YELLOW		237	YELLOW				
46	PURPLE		94	PURPLE		142	PURPLE		190	PURPLE		238	PURPLE				
47	PINK		95	PINK		143	PINK		191	PINK		239	PINK				
48	TURQUOISE		96	TURQUOISE		144	TURQUOISE		192	TURQUOISE		240	TURQUOISE				

- -identify in the parking area the number of straps to be activated and remove the cap;
- -Connect the connector of the strap afferent to the UI to be connected and attest to the optical splitter.

9   Removing the roof for possible expansion

If you need to remove the roof, for example for the installation of a hoist, simply unscrew the 6 screws fixing the roof to the cabinet from the inside.