

Wall boxes plastic Multi Operator Box (MOB 24/48)

Description

The MOB serves the purpose of intelligently interconnect the Telco Operator's infrastructure with the internal network of buildings.

Installing a MOB structure is performed modularly and independently by each operator based on starting with the mounting and refurbishing of one the first unit, defined as Secondary MOB, that will belong to the building and following up with the installation of another unit belonging to the operator which is called Primary MOB.

These units can be coupled together and therefore different operators may be connected to the internal network of the building just by adding an additional Secondary MODB. The aspect remains the same no matter how many units are thus added and the whole system stands out as one single structure.



Features

PRIMARY AND SECONDARY MODULE

Their modularity allows for a connection between Primary and Secondary to be done from the inside of one Distribution Box to the inside of the other so that no patching is visible to the outside. The Secondary module receives the riser cable of the building and the Primary module receives the cable that comes from the Telco Operator.

COMPARTMENTS

The units are made with two compartments. One for fusing fibers organized in cassettes and another compartment for the passage of patch cords connecting the operator and client. The compartments are separated by an adapter bridge. Depending on the version of the MOB this module can have up to 24 or 48 SC/APC adapters.

FLEXIBILITY

The MODB can be defined as multi operator because after the installation of the first Primary module by, let's say, Telco Operator A one can always install other Primary modules in a completely independent way so that Telco Operators B and C and so on can connect themselves to the building cabling.



SAFETY AND SECURITY

The MOB is certified by an accredited institution (ISQ) both at the IP and IK characteristics. By default the units are supplied with ¼ turn locks. However there is an option to choose a metal lock for each compartment with the corresponding keys.

INSTALLATIONS

The adapter bridge is completely removable so that it becomes easier to assemble and manipulate. Both compartments covers can be removed, the organizer cassettes open as a flipbook and may be drawn out at any time for assembling and manipulation.

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Technical data

Construction

Description	MOB 24		MOB 48	
Dimensions (W × L × H)	323 x 72 x 150 mm	12.7 x 2.8 x 5.9 inch	323 x 105 x 150 mm	12.7 x 4.1 x 5.9 inch
Capacity of optical Connectors	24 SC shape	(36 SC shape possible)	48 SC shape	(56 SC shape possible)
Mounting nature of Adapters	Snapped-in		Snapped-in	
Dimensions (Ø) of cable entry to break out	20 mm (M20)	0.79 inch	20 mm (M20)	0.79 inch
Cable entries	4		4	
Cables dimensions	Max. 13.5 mm		Max. 13.5 mm	
Material:	ABS / LSZH		ABS / LSZH	
Color	RAL 1015, Beige		RAL 1015, Beige	
Minimum bending radius	30 mm	1.2 inch	30 mm	1.2 inch

Ordering information

Description	Item number
MOB24-EMPTY	85069036
MOB48-EMPTY	85069037

Related documents

Description	Document number
Installation manual	DOC-0000757126

Scope of delivery

OTSB

- 12 cables ties 100 x 2,5 mm
- 2 clamps 140 x 4 mm
- 4 bushings and screws for Wall mounting
- 2 cable glands M20
- 1 insulating tape
- 24 or 48 sleeves fusion 40mm including the identification label
- 3 sleeves for protection of helical fibers c/ 0.5m each
- 1 laser tag
- 1 warning label
- 2 or 4 cassettes organizers including cover
- Fixture for FO cable Kevlar tensor



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Information

The MOB represents an optimal solution for installations in GPON (gigabit passive optical network) network typologies in FTTH (Fiber-to-the-home) scenarios.

When a Telco Operator performs the first installation of FTTH in a building, they will necessarily need to install both the primary and secondary modules.

Calculating the required size for the Secondary unit must be done according to the number of autonomous fractions (apartments) that constitute the building. Accessing these tenants is common to all Telco Operators.

Choosing which model (the 24 or 48 adapter) to install should take into account the number of subscribers one wants to cable with fiber in so that one should cater for 2 fiber optic strands per apartment/tenant/subscriber.

The Primary module that brings the Operators fibers from the outside may be installed in the most common position which is below the secondary module and this is where, in the Primary module, where the Telco Operator will perform the connection of these fibers to the adapter bridge either by fusing the cable strands to locally installed pigtails or by mounting field installable connectors and where he has a chance to incorporate adequately mounted splitters in the organizing cassettes.

A patch cord will then be connected to the bridge of the Primary MOB in the smaller compartment leading to the Secondary modules smaller compartment where it will connect to the desired adapter of the subscriber. This is done through the aligned openings of the smaller compartments of the stacked MOB-s leaving this patching secured from outside intervention.

In the future when another Telco Operator arrives at the building with their FTTH service offering they will only need to install another MODB below the other Telcos Primary or over the buildings Secondary module and perform a simple patchcord connection or series of connections.

