

MDB-M24 - Modular Distribution Box - 24fo Module

Prysmian Part Numbers: See table next page



Example : MDB-M24 configured as «splitting module » and an assembly of MDB-M24 et MDB-M48 mounted on a wall support.

The MDB-M24 is an indoor wall box, particularly adapted for FTTH Building (MDU) cabling. The MDB-M24 allows the connection, through patch panels or directly by splices, between the optical fibres feeding the MDU, and the optical fibres from the cables coming from the building network. According to the MDU configuration several modules can be assembled to form a MDB24, MDB48 or a MDB96.

Features and benefits

- The MDB-M24 is a wall box or module that allows splicing, patching, splitting or storage of optical fibres.
- A MDB-M48 version is also available (see datasheet WM064-01 Modular Distribution Box MDB-M48) with twice the capacity, it can be stacked with the MDB-M24 to create a modular system.
- The MDB-M24 module has a central area to organize the fibres, this area is protected with a front door.
- The right hand side cover allows access to a common patch panel for up to 24 SC positions. In the area, the top and bottom walls are removable to provide patching between the modules.
- The two covers are secured with a 8mm male triangular key, DIN3223.
- Two cable entry ports are available on the MDB-M24.
- The MDB-M24 module can be configured as :
 - **A Patch Module:** Suitable to receive up to two SC pre-terminated cables.
 - **A Splice Module :** Suitable to splice up to 24 fibres from one or two cables to pigtailed connected to the patch panel.
 - **A splitting Module:** Suitable to mount six pre-terminated SC/APC 1x4 PLC splitters or three pre-terminated SC/APC 1x8 PLC splitters connected to the patch panel. The splitter input fibres can be spliced to the fibres of one or two incoming cables.
 - **An Extra Length Patchcord Storage Module:** Suitable to store the patchcord's extra length used between the modules.
 - **A Storage Module:** Suitable to store unused cable elements.
- The MDB-M24 is rated IP41 with a light grey color RAL 7035.
- A metallic wall support is available to align the modules on a wall.

Kits Contents

See next page

Additional Items

- MDB wall support
- MDB-M48 module
- 1x4 PLC splitters with outputs pre-terminated 900 microns SC/APC.
- 1x8 PLC splitters with outputs pre-terminated 900 microns SC/APC.
- SC/APC Adapters
- SC/APC Pigtailed
- Splice Protectors

Prysmian Part Numbers

<i>Prysmian Part Number</i>	<i>Designation and Kit Contents</i>
<i>XCPSC02122</i>	<p>MDB-M24 Splice/patch with 24 SC/APC-SC/APC adaptors</p> <p>The MDB-M24 is supplied with two fixing kits (wall and wall support), a triangular key, 24 SC/APC-SC/APC adaptors protected with semi-transparent caps mounted on the patch panel, two cable entry kits, and all accessories required for the following configurations:</p> <ol style="list-style-type: none"> <u>Patch Module</u>: no accessories have to be mounted for this option. <u>Splice Module</u>([*]): by mounting the splitter main plate in the module and the splice main plate inside the central cover. <u>Splitting Module</u>(^{**}) : by mounting the splitter main plate in the module and the splice main plate inside the central cover.
<i>XCPSC02121</i>	<p>MDB-M24 Storage</p> <p>The MDB-M24 is supplied with two fixing kits (wall and wall support), a triangular key, and all accessories required for the following configurations:</p> <ol style="list-style-type: none"> <u>Storage Module</u>: By using the cable element locking combs. <u>Extra Length Patchcord Storage Module</u>: By mounting the patch cord storage main plate in the module.

(^{*}) : The 24 pigtails 900 microns SC/APC are not supplied within the kit. See Part Number on next page.

(^{**}) : The splitters are not supplied within the kit. See Part Numbers on next page.

Technical Data

- Number of cable entry: 2
- Maximum cable diameter(mm) : 15
- Number of splice tray: 1
- Maximum splice capacity: 24
- Maximum capacity on the patch panel: 24 positions for SC type adaptors
- Maximum splitter holder capacity: 12 PLC splitters with 60mm maximum length and 4mm wide
- Required space envelope (mm): 450 (w) x 150 (d) x 100 (h)
- Operating temperature: -25°C to + 70°C (5 to 95% RH)
- Material: ABS-FR, color light grey RAL 7035
- Testing: Fully compliant with FT/RD/RESA/12/02/78 Orange's specification

Logistics

- Packing dimensions (mm): 460x180x120
- Packed weight (Kg): 2.0
- Net weight (Kg): 1.4

The packaging used for these products is environmental friendly and 100% recyclable.

Additional Items

MDB wall support

The MDB wall support is a metallic frame used to fix the MDB modules on a wall. It allows to obtain a plane surface and guaranties a good alignment for the modules MDB-24 or MDB-M48. The support is formed by two vertical rails with cross members and uses diamond shaped nuts supplied within each MDB module to fix the modules. The MDB wall support is supplied with a fixing kit (four 5 x 60mm wood screws and four 8 x 50mm wall plugs) and a spirit level.

Wall support dimensions (mm) : 800 x 330 x 21 - Net weight: 2.8Kg

Prysmian Part Number - XCPSC02126



MDB-M48

The MDB-M48 module is compatible with the MDB-M24. It is equipped with a 48 SC patch panel. The MDB-M48 allows splicing, patching, splitting or storage of optical fibres. As for the MDB-M24 module, different part numbers are available according to the required configuration. For more details please contact your local Prysmian Group sales office and ask for the data sheet WM064 - Modular Distribution Box MDB-M48.

MDB-M48 Dimensions (mm) : 450 (w) x 150 (d) x 180 (h)

Prysmian Part Numbers – Please see data sheet WM064



FTTH PLC splitter 1x4 Pre-terminated SC/APC

The 1/4 PLC splitter has 0.70 meters legs over-sleeved with a 900 micron buffer and pre-terminated with SC/APC connectors. The input fibre is 1.5 meter over-sleeved with a 900 microns buffer and is not pre-terminated.

For more details please contact your local Prysmian Group sales office and ask for the data sheet AC029 – Compact PLC Splitter

Prysmian Part Number - XSPSC00359



FTTH PLC Splitter 1x8 Pre-terminated SC/APC

The 1/8 PLC splitter has 0.70 meters legs over-sleeved with a 900 micron buffer and pre-terminated with SC/APC connectors. The input fibre is 1.5 meter over-sleeved with a 900 microns buffer and is not pre-terminated.

For more details please contact your local Prysmian Group sales office and ask for the data sheet AC029 – Compact PLC Splitter

Prysmian Part Number- XSPSC00360



Additional Items continued

SCAPC Adapters

The simplex SC/APC adapter is green, with flanges, a Zirconia sleeve and metallic fixing clips. It is equipped with transparent protection caps to enable to control the optical continuity without removing the caps.

Prysmian Part Number - XPPSC02037



SC/APC Pigtails 900µm – Set of 12

The 900 micron pigtail has a 2.5 meter length with LSZH buffer and is pre-terminated with SC/APC connectors. The fibre used is G657A2.

Prysmian Part Number - XPPSC02033 (set of 12 colours)



Heat Shrink Splice Protectors

Heat shrink splice protectors are used to protect a splice between two fibres. They are 2.2mm in diameter and 45mm length.

Prysmian Part Number - XPESC00053 (pack of 50)
- XKTSC00050 (pack of 12)



Please contact your local sales office listed on www.prysmiangroup.com

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