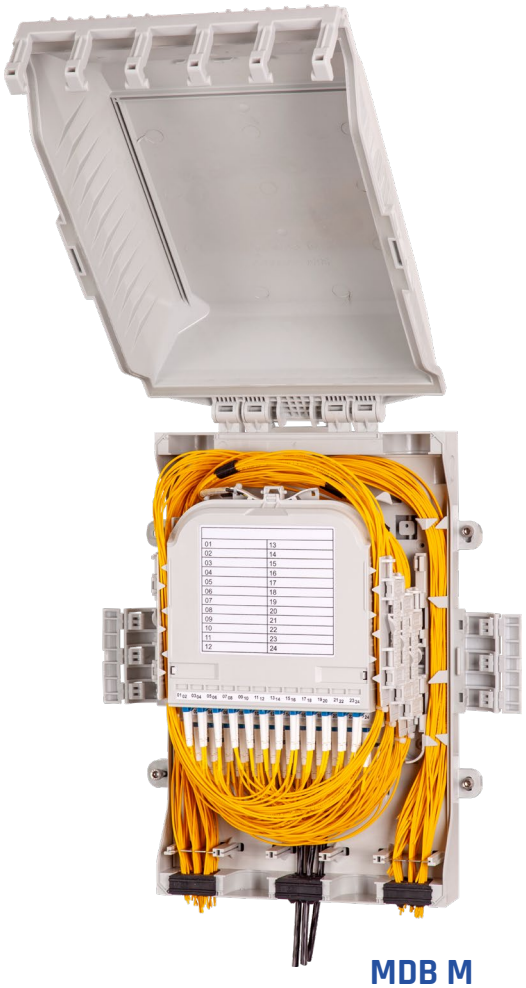
MDB M

FIBER OPTIC BOXES

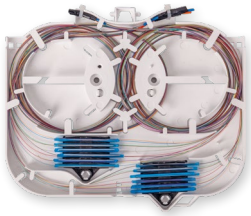
NEW | GPON READY | 5G READY | FibeRoad

The Fiber Optic Box MDB M is a durable fiber optic box, designed with the highly flexible FibeRoad™ System inside. The box can be configured to address a wide range of fiber optic splice and/or connectivity applications for PON, GPON and 5G networks. The engineered design provides IP65 protection from water / dust ingress and IK10 impact resistance to keep your critical network connections safe inside. The MDB M provides the ideal splicing solution for multi dwelling unit fiber distribution points or outdoor pole mounted splice applications.

- Capacity of up to 144 splices
- Capacity of up to 48× SC / 96× LC connector
- Multiple cable or tube entry ports on all sides of the box to increase installation flexibility
- Top outputs – PG grommets for using outdoors, Grommets System for using indoors
- Ability to mix & match the Fiber Optic Trays KM 4, KM 5, KM 6, KM 7, KM 9
- KM 4 and KM 6 for up to 24 splices (6 pcs max.)
- KM 5 for up to 12× SC / 24× LC connector (4 pcs max.)
- KM 7 for up to 8× SC / 16× LC connector (for GPON, 4 pcs max.)
- KM 9 for up to 12 splices (12 pcs max.)
- Scalable through gradual adding of trays
- Optional placing of PLC Splitters in the management (outside a tray)
- Up to 2 PLC Splitters ABS together with 4× KM 7 (length 0.8 m)
- Hingeable (or detachable) splicing (or patching) section
- FibeRoad™ System compatible
- Removable internal fiber management chassis to enable maximum access
- Support for ribbon fibers
- Support for midspan (loop-through) cable deployments (via an express port)
- Grommets system for cables with diameters 1.8–13 mm
- Increased durability, impact protection and water / dust ingress resistance (IP65, IK10)
- Significant space for patch cords and cables reserves
- Optional pole bracket
- Suitable for all types of networks

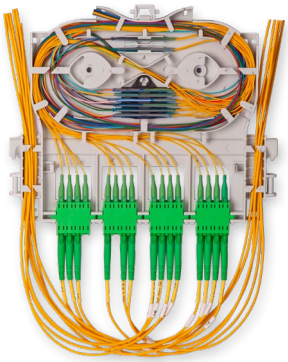


MDB M



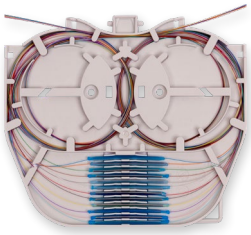
KM 4

- For splicing
- Up to 24 splices
- More information on the web



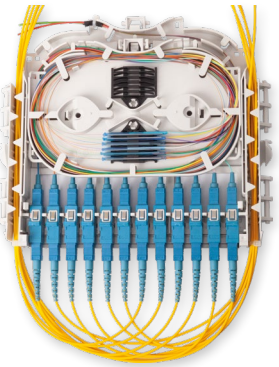
KM 7

- For adapters
- Up to 8× SC / 16× LC connector
- Up to 16 splices
- More information on the web



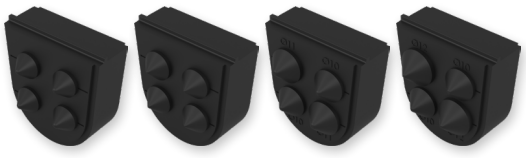
KM 9

- For splicing
- Up to 12 splices
- More information on the web



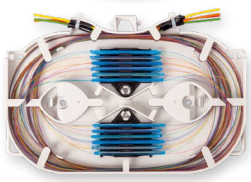
KM 5

- For adapters
- Up to 12× SC / 24× LC connector
- Up to 24 splices
- More information on the web



GROMMETS SYSTEM

- For cables with diameters 1.8–13 mm
- 2× top position (only for using indoors)
- 5× bottom position



KM 6

- For splicing
- Up to 24 splices
- More information on the web

MDB M Configurator

Section 0	Section 1	Section 2	Section 3
Box	**Grommets Selection**	**Organizer Selection**	**Tray Type Selection**

MDB M — **XXXXX XX** — **X**

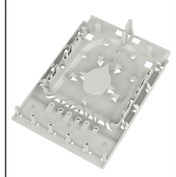
- bottom
- top
- A–K – Only for using indoors
- P – For using outdoors

- A → **XXXX XXXX**
- B → **XXXX**
- C → **XXXX XX**
- D → **XXXXXX XXXXXX**

Select 7 options as below:

A		24× 1.8–2.2 mm (already cut) **85C3.60/000X**
B		24× 2.2–3.0 mm (already cut) **85C3.61/000X**
C		12× 3.6–4.6 mm (can be cut) **85C3.71/000X**
D		12× 4.6–5.6 mm (can be cut) **85C3.62/000X**
E		8× 5.6–6.6 mm (can be cut) **85C3.69/000X**
F		8× 6.6–7.6 mm (can be cut) **85C3.63/000X**
G		4× 7.6–8.6 mm (can be cut) **85C3.68/000X**
H		4× 8.6–9.6 mm (can be cut) **85C3.64/000X**
J		2× 9.6–10.6 mm 2× 11.6–13.0 mm (can be cut) **85C3.65/000X**
K		2× 9.6–10.6 mm 2× 10.6–11.6 mm (can be cut) **85C3.66/000X**
P		PG 16 Grommet – only top inputs for using outdoors On request
N	NONE	The position remains empty

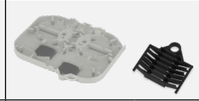
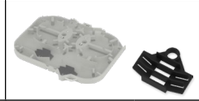
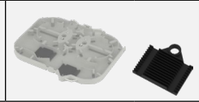
Select 1 option as below:

A	Patching 	Use with adapters For KM 5 Capacity of up to 96 splices Capacity of up to 48× SC / 96× LC connector **85C3.91/000X**
B	Patching and splicing	Use with adapters Ability to mix & match KM 4, KM 5, KM 6, KM 7 Capacity of up to 96 splices Capacity of up to 32× SC / 64× LC connector Optional PLC Splitters ABS **85C3.92/000X**
C	Only splicing	Only splicing For KM 4 and KM 6 Capacity of up to 144 splices **85C3.93/000X**
D	Only splicing	Only splicing For KM 9 Capacity of up to 144 splices **85C3.94/000X**

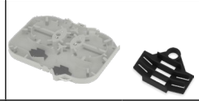
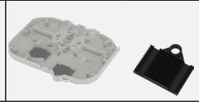
Select up to 8 options as below (only for management „A”):

KA		KM 5 for heatshrink SC / LC connectors **85C3.76/000X**
KB		KM 5 for ribbon SC / LC connectors **85C3.77/000X**
KC		KM 5 for crimp SC / LC connectors **85C3.78/000X**
N	NONE	The position remains empty

Select up to 4 options as below (only for management „B”):

A		KM 4 for heatshrink **85C3.79/000X**
B		KM 4 for ribbon **85C3.81/000X**
C		KM 4 for crimp **85C3.82/000X**
D		KM 6 for heatshrink **85C3.83/000X**
E		KM 6 for ribbon **85C3.84/000X**
F		KM 6 for crimp **85C3.85/000X**
G		KM 7 for heatshrink SC / LC connectors **85C3.86/000X**
H		KM 7 for ribbon SC / LC connectors **85C3.87/000X**
J		KM 7 for crimp SC / LC connectors **85C3.88/000X**
KA		KM 5 for heatshrink SC / LC connectors **85C3.76/000X**
KB		KM 5 for ribbon SC / LC connectors **85C3.77/000X**
KC		KM 5 for crimp SC / LC connectors **85C3.78/000X**
N	NONE	The position remains empty

Select 6 options as below (only for management „C”):

A		KM 4 for heatshrink **85C3.79/000X**
B		KM 4 for ribbon **85C3.81/000X**
C		KM 4 for crimp **85C3.82/000X**
D		KM 6 for heatshrink **85C3.83/000X**
E		KM 6 for ribbon **85C3.84/000X**
F		KM 6 for crimp **85C3.85/000X**
N	NONE	The position remains empty

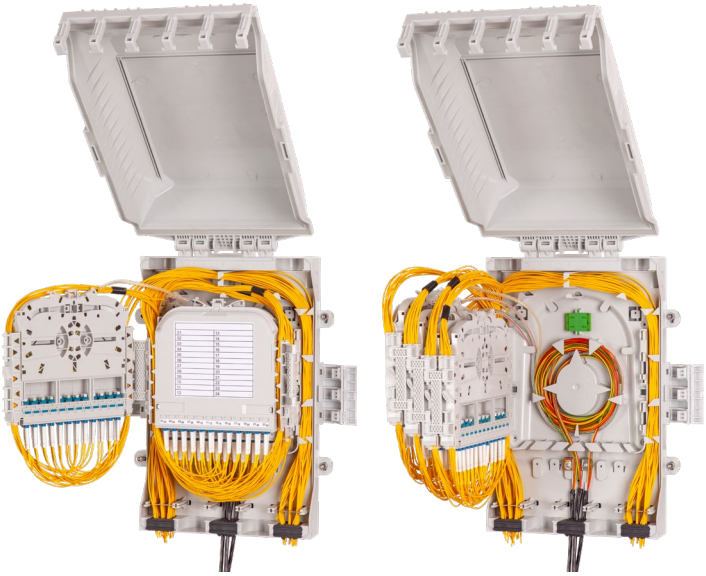
Select 12 options as below (only for management „D”):

L		KM 9 for heatshrink and crimp **85AV.52/000X**
N	NONE	The position remains empty

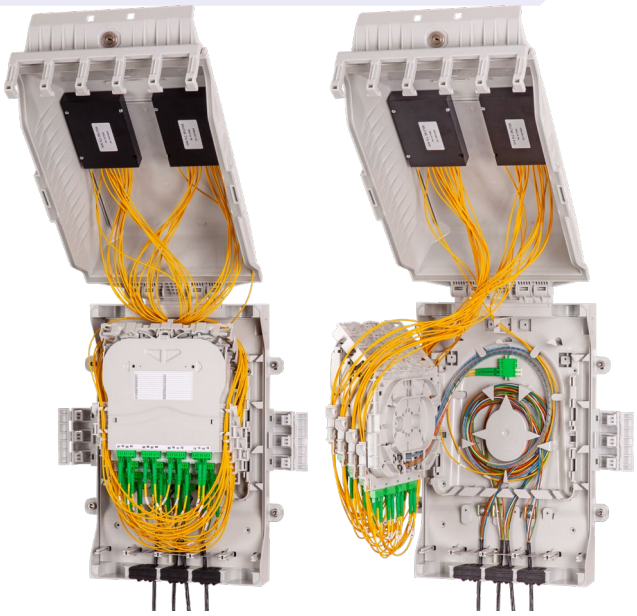
Examples of creating a name:

MDB M-AJJNN NN-A-KAKA KAKA
MDB M-BBKKK NN-B-AAGG
MDB M-BBGGG NN-C-AAAA AA
MDB M-BBKKK NN-D-LLLLLL LLNNNN

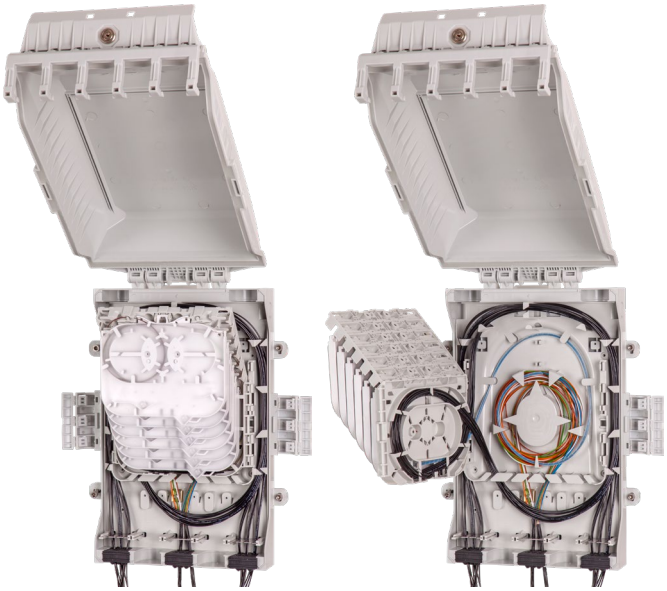
Section 0 — Section 1 — Section 2 — Section 3



MDB M-LLHNN NN-A-KAKAKAKA
PATCHING: 96× LC CONNECTOR



MDB M-HHHNN NN-B-GGGG
PATCHING: 64× LC CONNECTOR + PLC SPLITTERS ABS



MDB M-LLHNN NN-C-AAAAAA
SPLICING: 144 SPLICES

Microduct Termination in the Box

Slack Cable Storage for MDB M

Pole Bracket

TECHNICAL SPECIFICATIONS

Inputs / Outputs (quantity × range)	For using outdoors: 5× 1.8–13 mm 2× 10–14 mm or optional insert For using indoors: 7× 1.8–13 mm (follow the Configurator – Section 1 – Grommets Selection)
Grommets (type and number of used grommets)	For using outdoors: Grommets System – 5 pcs PG 16 – 2 pcs For using indoors: Grommets System – 7 pcs
Ingress Protection	IP65
Impact Protection	IK10
Flammability Degree	V0
Material	PC / ASA
Color	Light gray RAL 7035
Dimensions (H × W × D)	427 × 290 × 132 mm
Weight	2 kg

ORDERING CODES

On request	Custom Configuration
Follow the Configurator (Section 1)	Grommets Kit Separately
Follow the Configurator (Section 2)	Box with Organizer Separately
Follow the Configurator (Section 3)	Tray Kit Separately
85E0.97/0000F	Pole Bracket
85C3.C3/000XF	Slack Cable Storage for MDB M

More information: https://www.micostelcom.com/en/fiber-optic-boxes/fiber-optic-box-mdb-m

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