

FIBOX

Enclosing innovations



Fibox FTTH Solutions



Solutions for your FTTH/FTTX enclosing needs

Fibox is the leading innovator in developing enclosure solutions to protect your electrical and optical components and systems in hostile environments. The Fibox enclosure range features over 1000 different standard enclosures made of polycarbonate, ABS, fiberglass and aluminum. Fibox is the industry leader in developing both new products and new technologies for molding thermoplastic enclosures.

But even more important than technical leadership, is the Fibox commitment to understand the needs of its customers. All our solutions are combinations of our 40 years experience in enclosures and our deep understanding of the target segments. All this also applies to one of our key segments – Broadband and Fiber.

There is not only one way of building these networks and we want to offer you solutions that allow you to do it your way. Enclosure solutions must meet the needs of the network, so that the network doesn't have to meet the limitations of the enclosures. This is why all our customized solutions are designed in close cooperation with our customers.

With this brochure we would like to introduce you to our FTTH/FTTX solution family and to our range of street cabinets. In addition to this we would like to give you an idea about the variety of different standard enclosures and about the possibilities of our customized solutions.

If this brochure doesn't answer all your questions, please don't hesitate to contact your local Fibox representant.

Fibox Key Benefits

- Leading supplier of thermoplastic enclosures for harsh and demanding environments.
- Over 40 years of experience in the enclosure business.
- A wide range of products - over 1000 standard, off the shelf enclosures.
- Customer-specific enclosures - optimum solution for your needs.
- Global service network: guarantees precise and on-time deliveries world wide.

Fibox Global Service Network

Our global service network covers the entire world. Fibox has manufacturing facilities in 5 countries, sales offices in 13 countries and distributors in 30 countries.



Contact Us:

Fibox Oy Ab

Keilaranta 19, 02150 Espoo, FINLAND

tel: +358-207-785700,

fax: +358-207-785702

email: info@fibox.fi

FIBOX Sales Offices:

Benelux tel: + 31 (0) 541 539039

Denmark tel: + 45 4371 8055

France tel: + 33 1 60 21 17 17

Germany tel: + 49 (0) 5731 86946 0

Poland tel: + 48 22 872 9498

Russia tel: + 7 812 334 76 50

Sweden tel: + 46 8 792 2670

Switzerland tel: + 41 (0) 55 617 20 80

UK tel: + 44 1642 604 400

USA tel: + 1 410 760 9696

Korea tel: + 82 32 814 6742 (Incheon)

China tel: + 86 216 495 9922 (Shanghai)

Fibox FTTH Solutions Family

The Fibox FTTH solutions family is an off the shelf and ready to use FTTH product range for outside plant and customer premises.

The Fibox FTTH enclosure and cabinet range includes solutions ranging from terminal boxes to large fiber distribution cabinets and all the way to street cabinets. Fibox wall mounting enclosures can be installed both indoors and outdoors.

Fibox cabinets and enclosures are designed to meet the fiber management, fiber storing and fiber splicing needs of FTTH networks.

Applications for the Fibox FTTH Solutions Family



Street cabinets for all FTTH enclosures



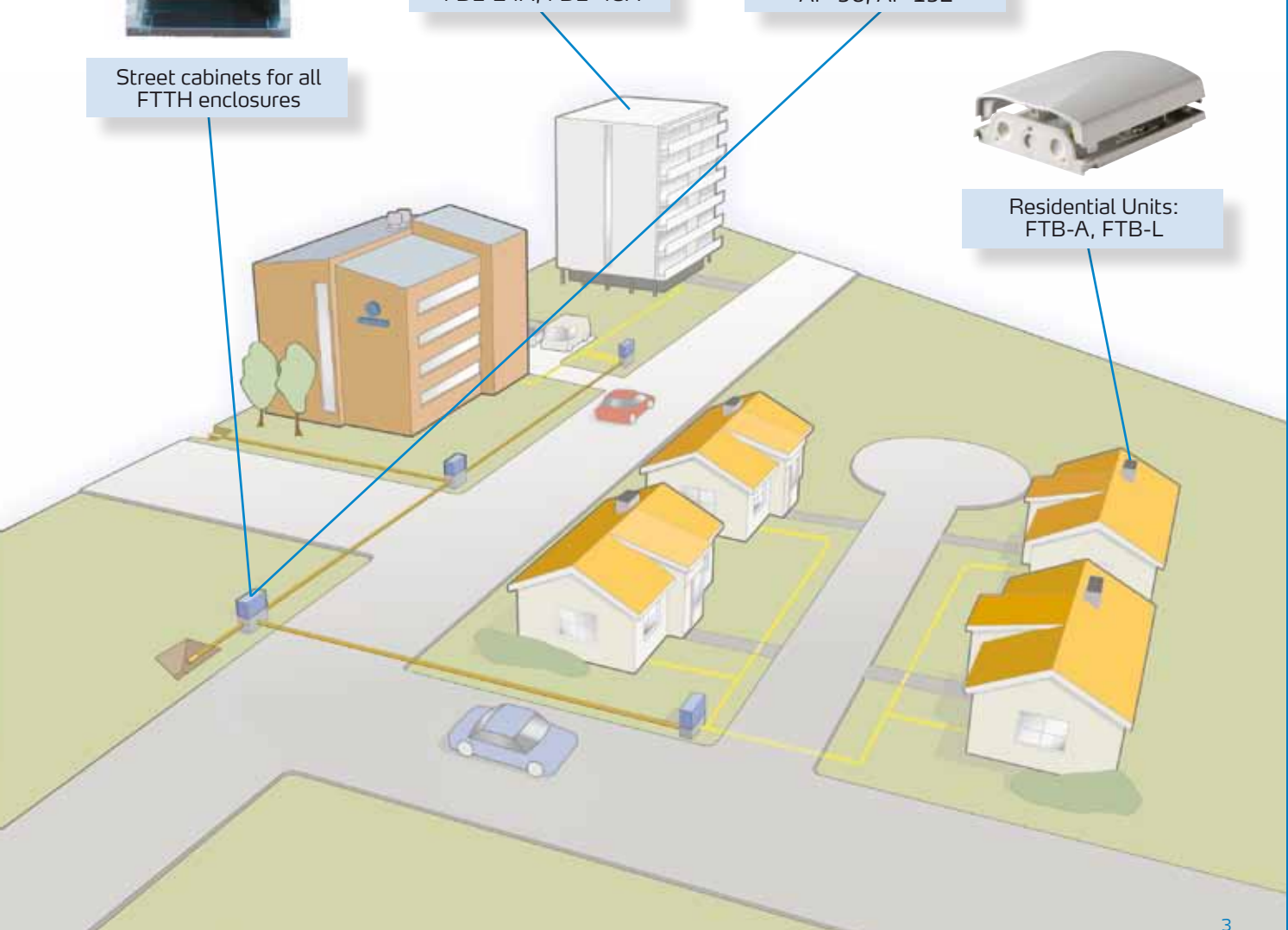
Multi Dwelling Units:
FDE-24A, FDE-48A



Access points:
AP-96, AP-192



Residential Units:
FTB-A, FTB-L

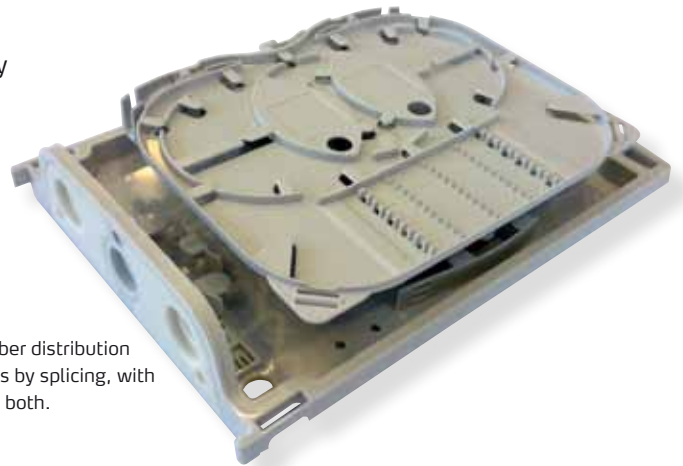


1. Residential Units - Fibox FTB (Fiber Termination Box)

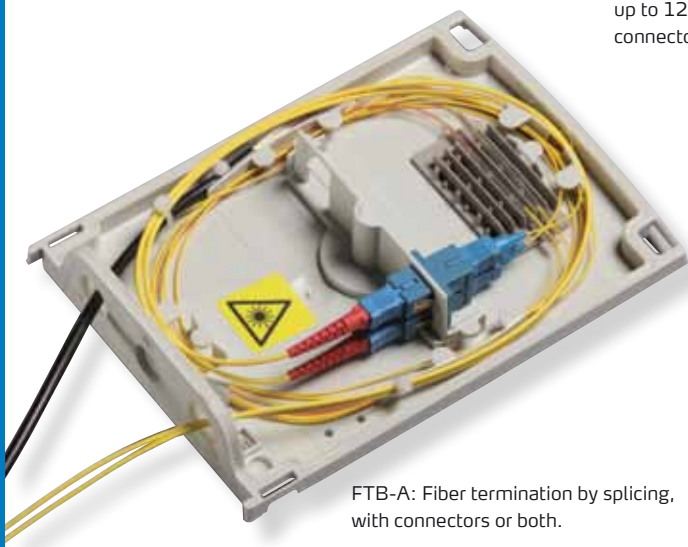
The Fibox FTB Box is an easy and fast way to enclose your network termination points in FTTH networks. The build-in cable guidance and snap-lock cover ensure comfortable use and maintenance. The stylish enclosure can be installed both indoors and outdoors.

Key Benefits:

- Designed enclosure for **residential** FTTH installations
- **Plug-and-play:** Quick installation saves time and money
- Supports both **mechanical and fusion splicing**
- Material is **corrosion free** and durable polycarbonate
- **Stylish design** for visible installations
- **Quick and easy** snap-in cover design



FTB-M12: Fiber distribution up to 12 fibers by splicing, with connectors or both.



FTB-A: Fiber termination by splicing, with connectors or both.



FTB Product Range (Products are individually packed in a carton box with an accessory bag)

Product Name	Product Code
FTB-A	6916004
FTB-L*	6916006
FTB-L with keylock	6916008

*enables custom-made lock installation: key lock not included

Customising options available:

Logo printing, machining, private labelling, high IP-solutions etc.

Please contact Fibox Sales Office for details

Dimensions:	130 x 190 x 45 mm (L x W x H)	UV resistance UL 508
Material:	Polycarbonate/TPE	Flammability
Operating temperature:	-40°...80°C	Rating: (UL 746 C5): UL 94 VO
2 main entry points:	Max. Ø 16 mm cable	Ingress
2 additional entry points:	Max. Ø 5 mm cable	Protection: (EN 60529): IP 54
		Impact
		Resistance: (EN 62262): IK 08

2. Multi Dwelling Units (MDU) - Fibox FDE (Fiber Distribution Enclosure)



Removable base plate ensures quick and easy fiber splicing.

Key Benefits:

- **Plug-and-play:** Minimizes the installation time and saves installation costs
- Material is **corrosion free** and durable polycarbonate
- **Removable base plate:** Fiber splicing can easily be done outside of the enclosure
- Enclosure design allows **cable lay-down feature** (mid-span access) for uncut fibers

FDE splice enclosures are designed for MDU and enterprise purposes. The FDE range has two enclosure sizes, the smaller supports up to 24 fiber connections, and the bigger up to 48 fiber connections. The state-of-art splice tray and the fiber management design make installation quick and easy. FDE wall-mounting enclosures can be used both indoors and outdoors.

The FDE range is designed to meet both installation and end user needs. The plug-and-play feature reduces the installation time and eliminates the need for extra tools. Stylish design for visible locations.



Fibox FDE offers best in class fiber management for FTTH solutions.

FDE Product Range (Products are individually packed in a carton box with accessories and provided with a quarter-turn closing system: key lock optional)

Product Name	Product Code	Distribution capacity
FTB-M12	6916009	1 - 12
FDE-24A	6917024	12 - 36
FDE-48A	6917048	36 - 60

* Includes base, cover, base plate and product specific accessories

Customising options available:

Logo printing, machining, private labelling, high IP-solutions etc.

Please contact Fibox Sales Office for details



Fibox FTB and FDE splice enclosures for residential, MDU and business environments.

Dimensions:	FTB-M12 Technical details on page 4. FDE-24A: 253x180x65 mm (LxWxH) FDE-48A: 333x246x95 mm (LxWxH)	UV resistance UL 508
Material:	Polycarbonate/EPDM	Flammability
Operating temperature:	-40°...80°C	Rating: (UL 746 C5): UL 94 VO
Accessories:	Splice tray 10 mm Splice holder for 10 heat shrinks and 1 splitter (4x4 mm.) Splice holder for 12 heat shrinks 45/60 mm. Key lock EPDM Cable gland M20 (for FDE-24A) EPDM Cable gland M25 (for FDE-48A)	Ingress Protection: (EN 60529): IP 54
		Impact Resistance: (EN 62262): IK 08

3. Access Points - AP Enclosures

The Access Point (AP) enclosure serves as a fiber splice point in FTTH networks. The fibers from the AP are typically connected to the FTB or FDE on customer premises.

AP-96 and AP-192 enclosures are provided with a fiber organizer and the required number of splice trays. The AP range can be tailored to meet specific customer needs.

Key Benefits:

- Splicing of the cable can be done outside of the street cabinets and the AP can be mounted onto the street cabinet after splicing: **faster and more convenient installation**
- Flexibility: the **AP can be customized** to meet customer AP applications in size and capacity
- The AP enclosures can be installed in metal or plastic street cabinets



AP Enclosure Product Range (Products are individually packed in a carton box with accessories)

Product Name	Product Code
AP-96	6918020
AP-192	6918040

Customising options available:

Logo printing, machining, private labelling, high IP-solutions etc.

Please contact Fibox Sales Office for details

	AP-96	AP-192
Splicing	Up to 96 splices	Up to 192 splices
Enclosure size	600 x 300x170 (HxWxD)	600x400x210 (HxWxD)
Material	ABS	ABS
Number of entry ports	7 - M12 for incoming cable - 6 x M25 for 4 x 5 mm tube/cable	14 - 2 x M12 for incoming cable - 12 x M25 for 4 x 5 mm tube/cable
Enclosure includes	Base and cover Mounting plate Cable glands for entry ports	Base and cover Mounting plate Cable glands for entry ports



4. Fibox Street Cabinets



The street cabinet range is manufactured using polyester, a maintenance-free and halogen-free material that fits into any environment. The cases in this series can be used as general backup, cable distribution, traffic control cabinets and control cabinets for sewage pump controllers as well as for telephone and broadband installations. The ST range is designed to save time during assembly and installation. Opt for something new - using Fibox street cabinets!

Key Benefits:

- Easy to install features
- Multiple choice, with or without pedestal
- Currugated surface, which has reinforcing and is graffiti repellent
- Good ventilation and 180 degree door opening angle
- Internal fixing and security options are available as standard
- Possibility to seal and use different locking systems

Street Cabinets Product Range

STCP - Street Cabinet with pedestal

STC – Street Cabinet without pedestal

STP - Street cabinet pedestal

A great number of versions available. Please contact Fibox Sales office for details.

Technical information

- Standard colour RAL 7035
- Halogen-free components
- Constructed in accordance with EN 60439
- Ingress Protection IP 44
- Impact resistance tested to IK 10 according to EN 62262
- Specific UV resistance tested according to UL746C
- Isolation voltage 500 V
- Nominal current 630 amperes
- Double insulated
- Flammability FH2-25
- Filament tested to 960 degrees according to IEC 695-2-1



STCP 4088/32 with AP-96



STCP 5388/32

Fibox Enclosures

Fibox, a privately owned Finnish company, is one of the largest manufacturers of housings made from thermoplastic material. Fibox is a leading manufacturer of enclosures designed to protect electrical and electronic components in hostile environments. Fibox enclosures are produced in modern factories located in Finland, China and Korea.

Fibox Oy Ab
Keilaranta 19
FI-02150 Espoo
Finland

Tel. +358 (0)207 785 700
Fax. +358 (0)207 785 702

info@fibox.fi

www.fibox.com