FIBRAIN ®

DISTRIBUTION
solutions

PATCH PANEL PS 19"

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FIBER OPTIC CABLE FRAME AND SPARE LENGTH CABLE BOXES

Ductline

Manhole
closure
+ frame

Outdoor
cabinet

Primal duct
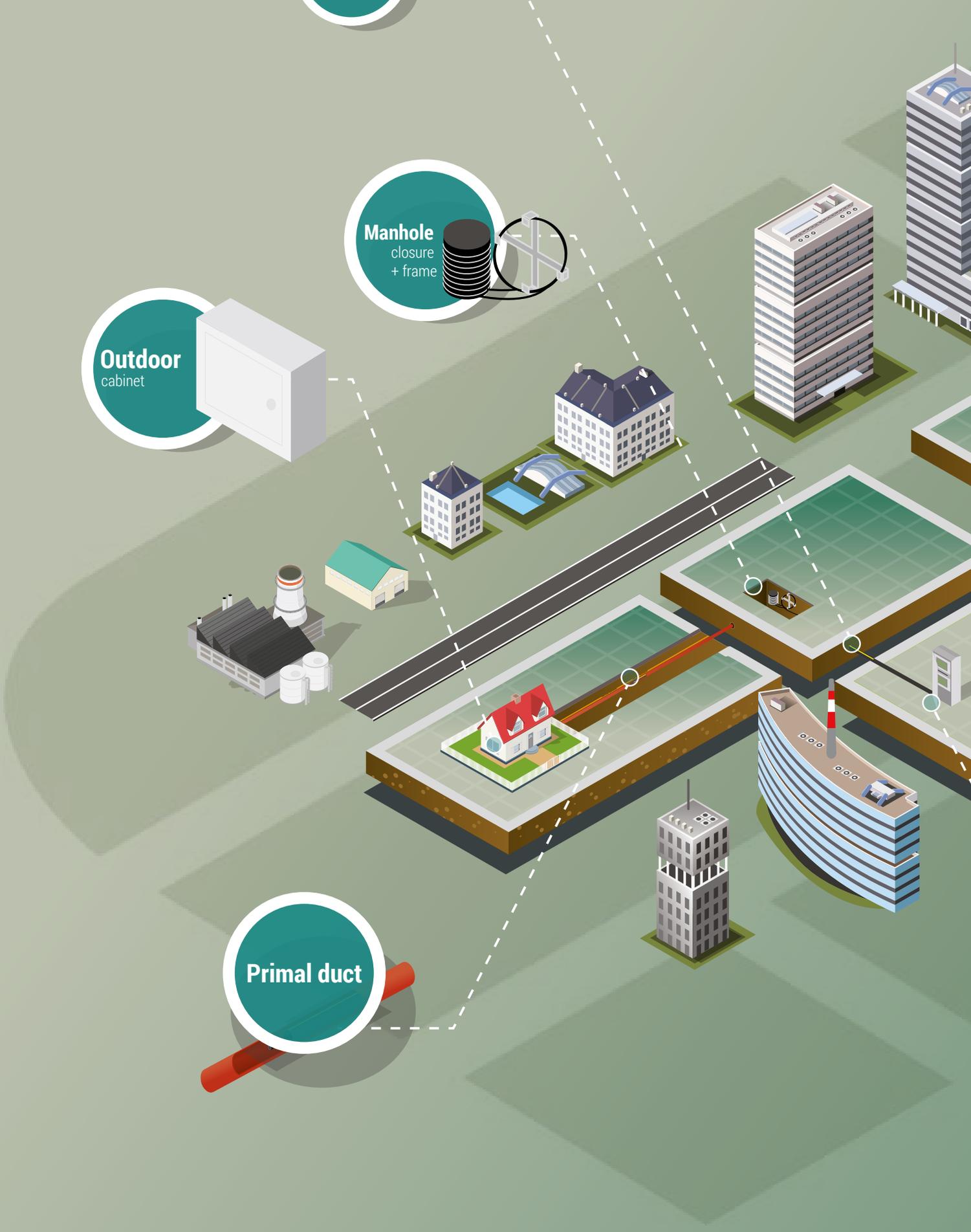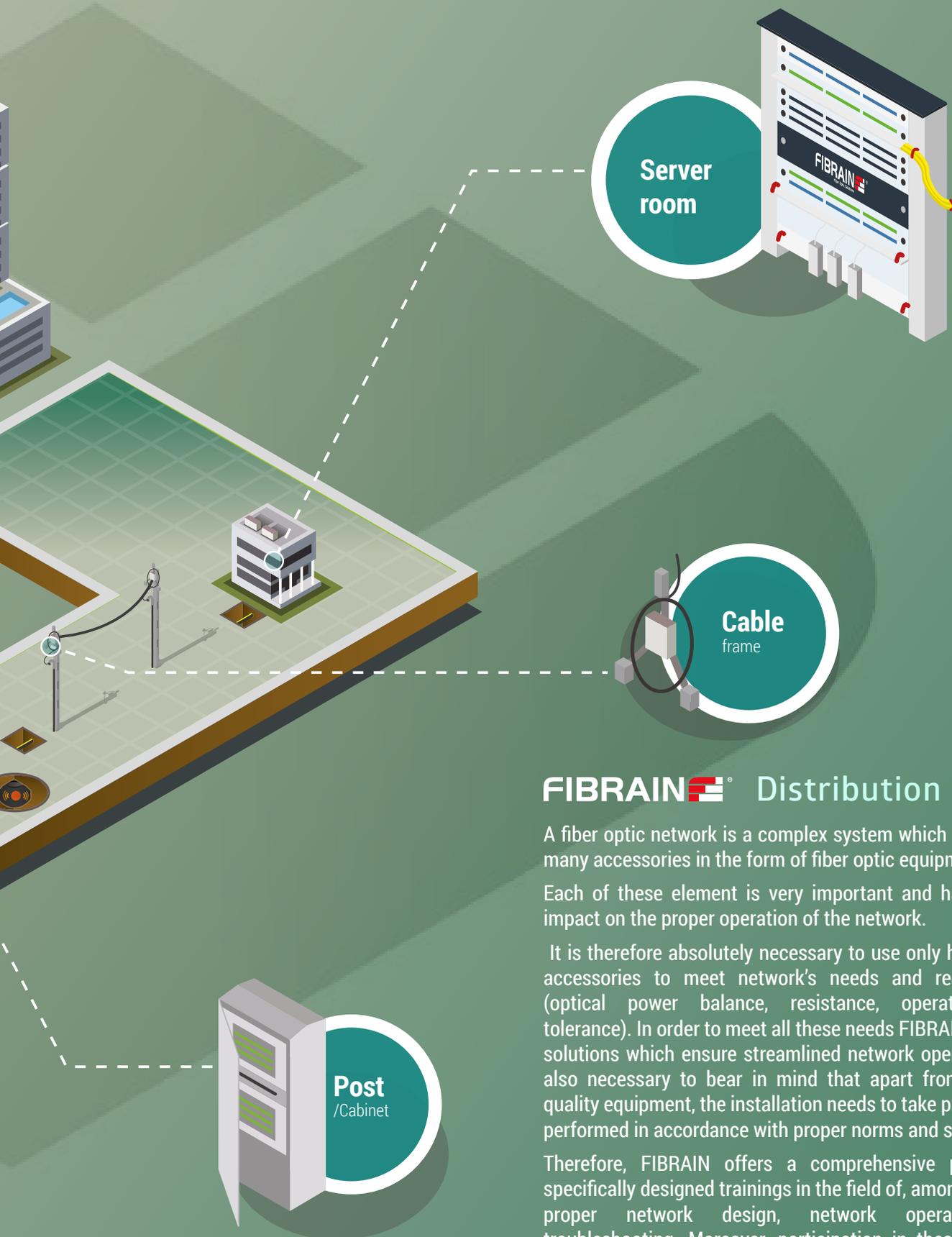
Server room

Cable frame

Post /Cabinet

FIBRAIN ® Distribution

A fiber optic network is a complex system which consists of many accessories in the form of fiber optic equipment.

Each of these element is very important and has a direct impact on the proper operation of the network.

It is therefore absolutely necessary to use only high quality accessories to meet network's needs and requirements (optical power balance, resistance, operation, fault tolerance). In order to meet all these needs FIBRAIN presents solutions which ensure streamlined network operation. It is also necessary to bear in mind that apart from premium quality equipment, the installation needs to take place and be performed in accordance with proper norms and standards.

Therefore, FIBRAIN offers a comprehensive porfolio of specifically designed trainings in the field of, amongst others, proper network design, network operation and troubleshooting. Moreover, participation in these trainings give all attendees a posssibility to obtain a certificate and network warranty.

Patchpanel PS 19"

Equipment presented in this section is a very important part of fiber optic network.

It is also the end or the beginning of each optical path.

Server room
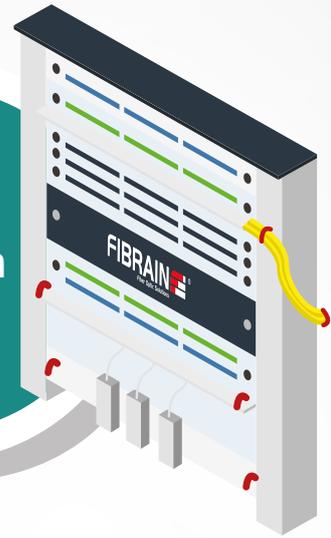
The construction of the equipment is based on telescopic fiber optic, rotating or modular patch panels.

Each of these solution is specifically designed and depends on network topology, number of optical points, as well as quantity and capacity of fiber optic cables.

Cable tray

Post
/Cabinet

These solutions are often linked to optical network, thus our proposal concentrates the most significant elements of xWDM network as it integrates them in common patch panels which are equipped with specialized front panels.
These are usually "tailored made" systems to meet individual customers' specific needs and requirements.

PATCH PANEL PS 19''

FIBRAIN PREMIUM PST-Ax telescopic patch panel
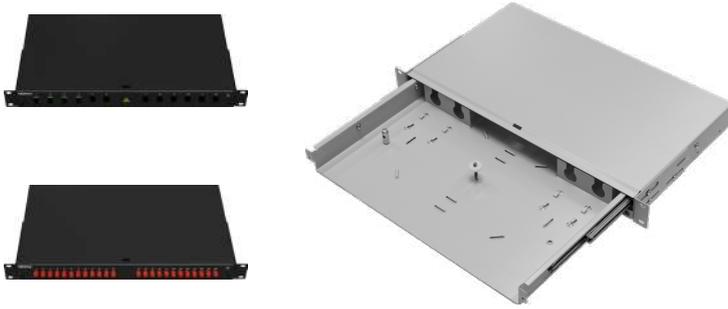
Technical specification

	PST-AX-01	PST-AX-02
Height	1U (44 mm)	2U (88 mm)
Width	19" (482,6 mm)	19" (482,6 mm)
Depth	255 mm	255 mm
Max. cassette capacity	3	6
Casing material	Powder painted steel	

Ordering information

PST-A1-01	Fibrain 1U telescopic fiber optic patch panel, without front plate and accessories, grey (RAL7035)
PST-A1-01B	Fibrain 1U telescopic fiber optic patch panel, without front plate and accessories, black (RAL7005)
PST-A1-02	Fibrain 2U telescopic fiber optic patch panel, without front plate and accessories, grey (RAL7035)
PST-A1-02B	Fibrain 2U telescopic fiber optic patch panel, without front plate and accessories, black (RAL7005)
PST-A2-01	Fibrain 1U telescopic fiber optic patch panel, 45° cable entries, without front plate and accessories, grey (RAL7035)
PST-A2-01B	Fibrain 1U telescopic fiber optic patch panel, 45° cable entries, without front plate and accessories, black (RAL7005)

Additional accessories – examples

PS-ORG-1-PP (extra 1U)

SCM-A-xx

FB2030G.V2P

📄 Description

→ Fibrain telescopic fiber optic patch panel are specifically designed and tailored to meet our customers' needs. Main distribution areas where these panels can be applied are patching shelves and splicing shelves. Removable front panels facilitate installation of all standards of adapters, including hybrid combinations. Patch panels are made of grey RAL7035 powder-coated metal steel and are available in 1U and 2U options. Panels on telescopic rails provide a full opening to mount cables easily. Cable entries are adjusted to mount PG12-PG16 cable glands and cables terminated with FIBRAIN multi-patchcords. The interior design with handles facilitate proper management of fibers. Therefore, adjustable side handles provide the possibility to move the panel inside the cabinets. Our product portfolio offer includes a large variety of front plates, thus almost each standard of adapters can be easily mounted.

❖ Applications

→ Fiber optics interchange points

→ Distribution networks

→ Serwer room

🎚 Features & benefits

→ Available in 1U and 2U

→ Full opening on telescopic rails

→ Cable entries in a rear part of the shelf

→ Internal perforation to manage tubes and fibers

→ Faceplates ready for mounting adapters without screws

→ Optional front shelf to facilitate the management of patchcords; Adjustable side handles

→ Front plates can be optionally locked with a key

→ High capacity; Holder for the strength element of cable

Telescopic fiber optic patch panel
PST-A1-01 – 1U front plates

PST-A1 – configuration of 1U front plates

FB 2030

FB 2030K
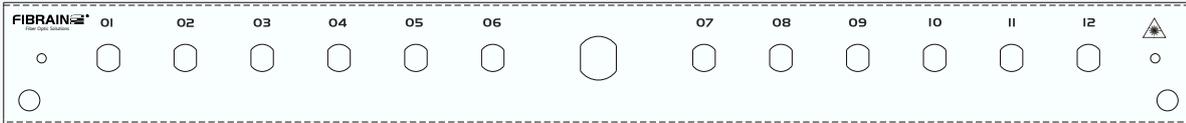
FB 2031

FB 2031B
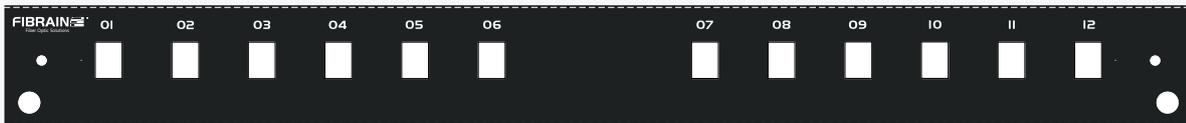
FB 2031KB

FB 2032

FB 2032B

FB 2032K

FIBRAIN

Telescopic fiber optic patch panel
PST-A1-01 – 1U front plates
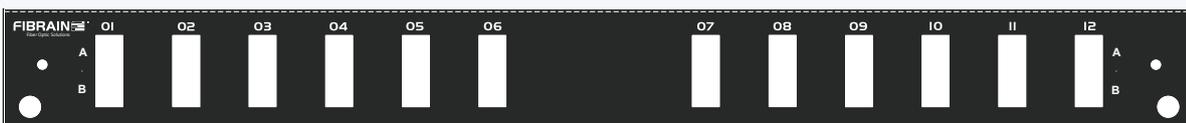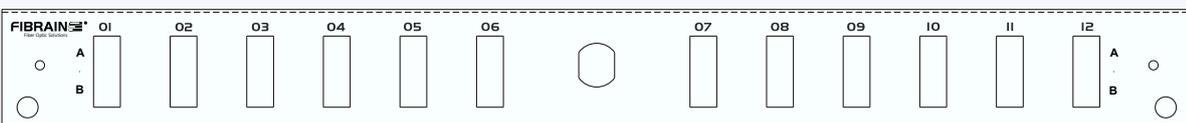
PST-A1 – configuration of 1U front plates
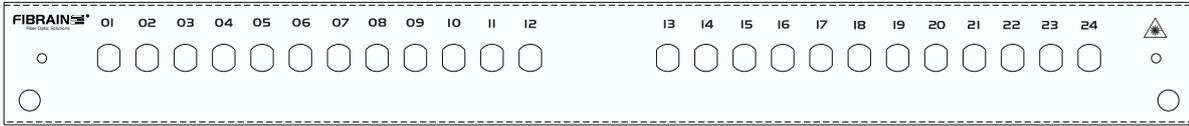
FB 2033

FB 2033K
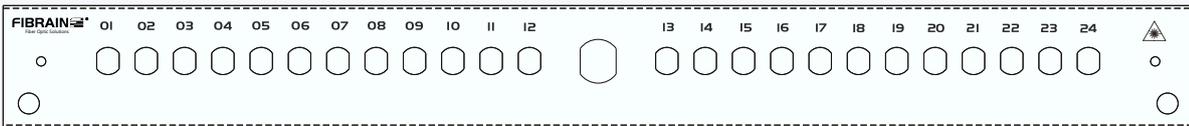
FB 2034
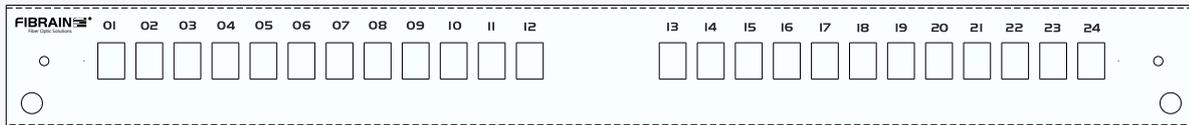
FB 2034B

FB 2034K

FB 2035

FB 2035B

FB 2035K

Telescopic fiber optic patch panel
PST-A1-02 – 2U front plates
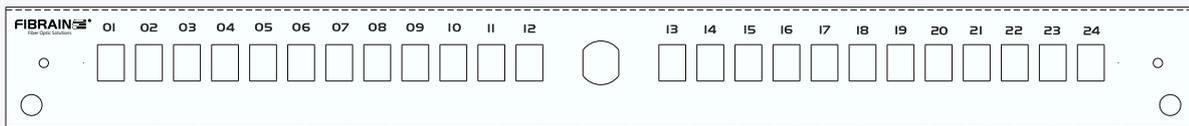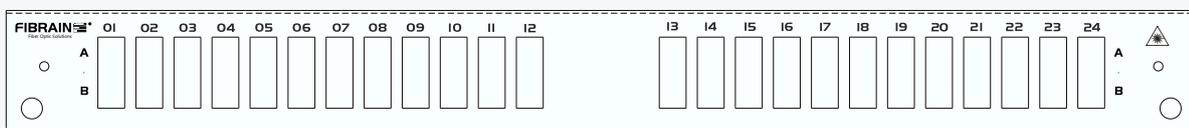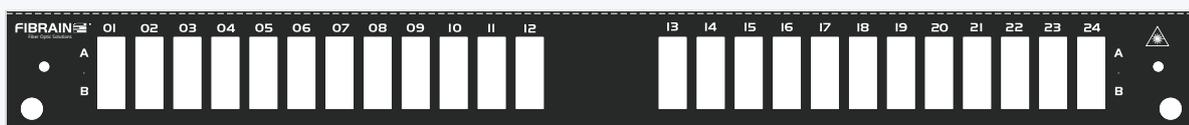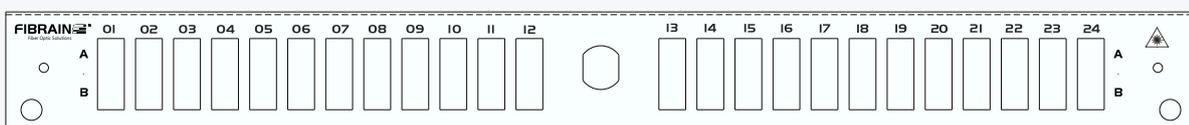
PST-A1 – 2U front plates

FB 2043

FB 2043K

FB 2044

FB 2045

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Telescopic fiber optic patch panel
PST-A1-02 – 2U front plates
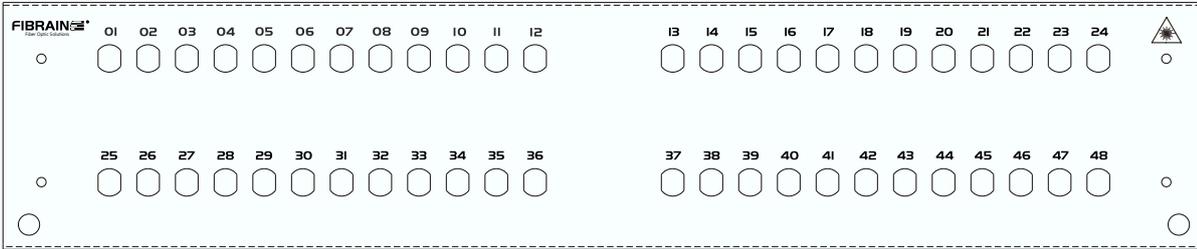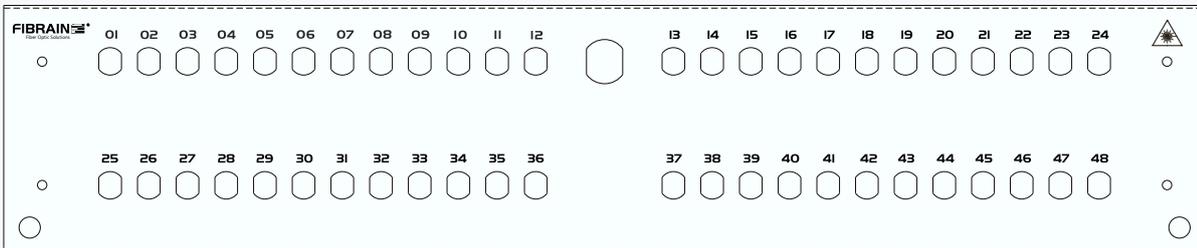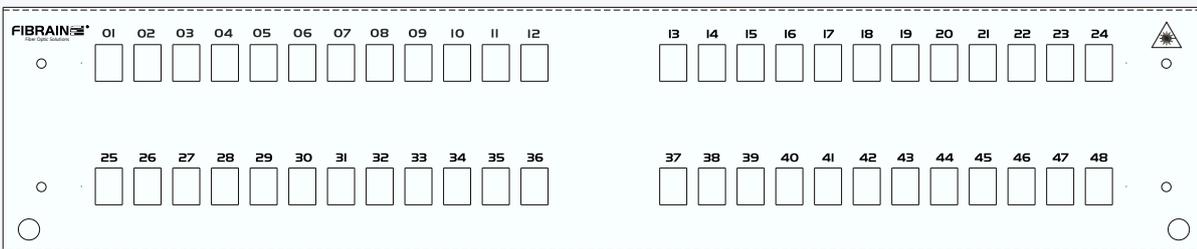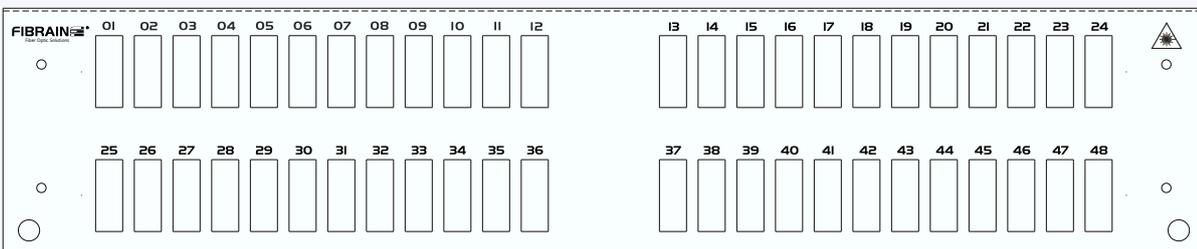
PST-A1 – 2U front plates

FB 2045K

FB 2046

FB 2046B
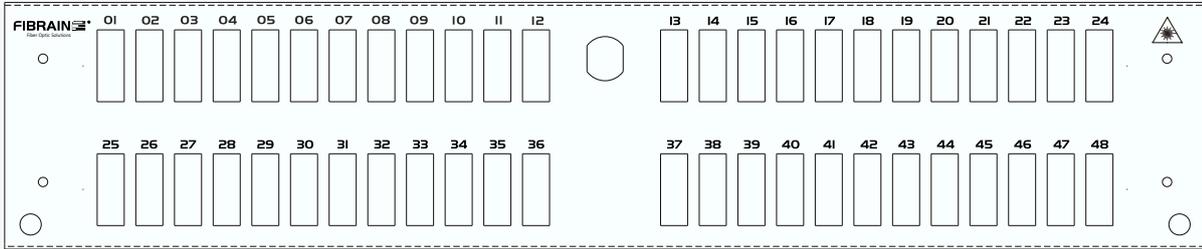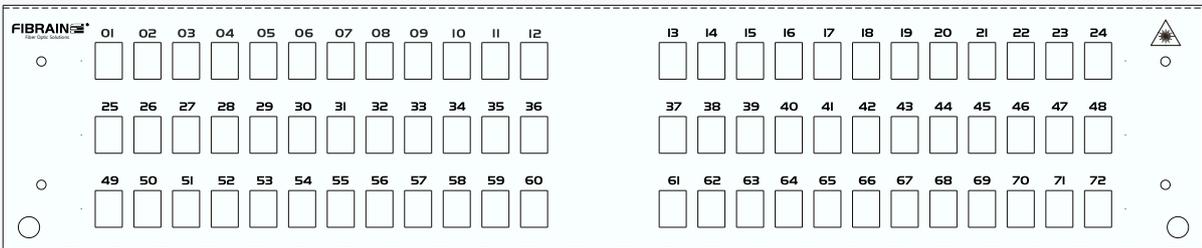
FB 2047

PST-A1 equipped patch panel
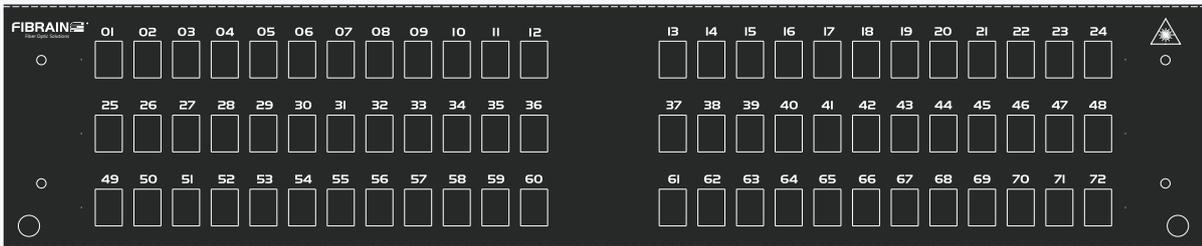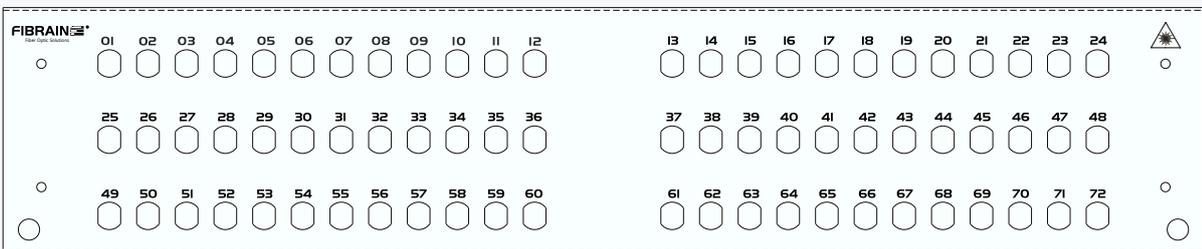
Examples of equipped PST-A1 patch panels

	1. PST-A1-01060-24171-24D05G01-21-0241-11 PST-A1 patch panel, 1U, in grey RAL 7035, equipped with FB2033 front plate (24x FC SX) with mounted standard FC PC fiber optic adapters, 24 GOLD pigtails with FC PC on G.657A1, two splice cassettes SCM-A-12H, 24 splice protector 45 mm and one cable gland PG13.5
	2. PST-A1-01020-04221-04D02G01-11-0041-11 PST-A1 patch panel, 1U, in grey RAL 7035, equipped with FB2031 front plate (12x SC SX, LC DX, E2000 SX) with mounted Premium Super One-Piece SC SPC fiber optic adapters, 4 GOLD pigtails with SC APC on G.657A1, one splice cassette SCM-A-12H, 4 splice protector 45 mm and one cable gland PG13.5

Ordering information

PST-AW-AABBC-DDEFG-HHIJJKLL-MN-OOOP-RS

W – Type of cable entry	1	4 perpendicular cable entries
	2	2 cable entries at an angle of 45° + 2 perpendicular

AA – Height	01	1U (grey RAL7035)	
	02	2U (grey RAL7035)	
	B1	1U (black RAL7005)	
	B2	2U (black RAL7005)	

BB – Front plate type	01	FB2030 (12x ST,FC)	1U
	02	FB2031 (12x SC SX,LC DX, E2000 SX)	
	03	FB2031B (12x SC SX,LC DX, E2000 SX, black)	
	04	FB2032 (12x SC DX, LC 4X)	
	05	FB2032B (12x SC DX, LC 4X, black)	
	06	FB2033 (24x ST,FC)	
	07	FB2034 (24x SC SX,LC DX, E2000 SX)	
	08	FB2034B (24x SC SX,LC DX, E2000 SX, black)	
	09	FB2035 (24x SC DX, LC 4X)	
	10	FB2035B (24x SC DX, LC 4X, black)	
	11	FB2043 (48x ST,FC)	2U
	12	FB2044 (48x SC SX,LC DX, E2000 SX)	
	13	FB2045 (48x SC DX, LC 4X)	
	14	FB2046 (72x SC SX,LC DX, E2000 SX)	
	15	FB2046B (72x SC SX,LC DX, E2000 SX, black)	
	16	FB2047 (72x ST,FC)	

C – Lock	K	plate with lock
	0	plate without lock

K – Cable reserve frame	0	none
	1	yes

L – Cable holders for indoor application	0	none
	1	yes

M – Cylinder lock type	N	notch type
	T	triangle type
	K	square type

B – Quantity of SCM-A splice cassettes:	BK – black

Example   To order a non- standard option, please contact with our Sales Department.

Telescopic fiber optic patch panel PST-C1

Technical specification

	PST-C1
Height [mm]	1U (44 mm)
Width [mm]	19" (483 mm)
Depth [mm]	256 mm
Max. cassette capacity	2
Casing material	Powder painted steel
Front flap	Anodized aluminium

PST-C1 telescopic fiber optic patch panel are available in equipped version.
Components of the equipped PST-C1:

→ **Telescopic patch panel C1** with front plate equipped with fiber optic adapters according to the tables below (quanitity, adapter type and class acc. to customer's need)

→ **Fiber optic splice cassette SCM-A-12H/SCM-A-24H** (depending on the amount of pigtails and adapters)

→ **Fiber optic pigtails in Gold grade on G.652D fiber** for SM transmission and OM2 fiber for mm transmission (technical data – Connectivity'16 catalog)

→ **Front shelf** for patchcord organisation

→ **Two vertical cable organizer**, equipped with easily opened-handle

→ **8 holders** facilitates effective placement of fibers

→ **PG16 cable gland**

→ **Splice protectors** 45 mm

→ **Optional blanking panel** (1x panel with adapters, 1x blanking panel)

PST-C1 with SC fiber optic adapters and pigtails terminated with SC connector
(additional components in equipment described above)

Adapters qty	Adapter type and class	Serial number
6	SC PC SM Standard One-Piece	PST-C1-01-101-06111-06D011-11-061-12
	SC PC SM Super One-Piece	PST-C1-01-101-06211-06D011-11-061-12
	SC APC SM Standard One-Piece	PST-C1-01-101-06121-06D021-11-061-12
	SC APC SM Super One-Piece	PST-C1-01-101-06221-06D021-11-061-12
	SC PC mm Standard One-Piece	PST-C1-01-101-06112-06I012-11-061-12
12	SC PC SM Standard One-Piece	PST-C1-01-101-12111-12D011-11-121-12
	SC PC SM Super One-Piece	PST-C1-01-101-12211-12D011-11-121-12
	SC APC SM Standard One-Piece	PST-C1-01-101-12121-12D021-11-121-12
	SC APC SM Super One-Piece	PST-C1-01-101-12221-12D021-11-121-12
	SC PC mm Standard One-Piece	PST-C1-01-101-12112-12I012-11-121-12
24	SC PC SM Standard One-Piece	PST-C1-01-201-24111-24D011-12-241-12
	SC PC SM Super One-Piece	PST-C1-01-201-24211-24D011-12-241-12
	SC APC SM Standard One-Piece	PST-C1-01-201-24121-24D021-12-241-12
	SC APC SM Super One-Piece	PST-C1-01-201-24221-24D021-12-241-12
	SC PC mm Standard One-Piece	PST-C1-01-201-24112-24I012-12-241-12

Description

→ Fibrain telescopic patch panel offers excellent flexibility during mounting and installation. Mainly used for distribution – patching or splicing shelves. Constructed of high quality material ensuring very easy installation and maintenance.

→ Removable front panels facilitates installation of all kinds of adapters, including the creation of hybrid combinations.

→ Patch panels are made of powder-coated steel as standard in black and available in 1U option. The movable front flap is made of anodized aluminum which protects pigtails against accidental damage. Panels mounted on telescopic rails provide a full extension for easy cable mounting. Cable entry adjusted to mount PG16 cable glands and terminated FIBRAIN multipatchcords solution. The interior design with handles with handles facilitate the proper management of fiber. Therefore, adjustable side handles provide the possibility to move the panel inside the cabinets.

Applications

→ Fiber optics interchanges points

→ Distribution networks

→ Serwer room

Features & benefits

→ 1U

→ Full extension on telescopic rails

→ Cable entry shifted back in a patch panel

→ Handles to manage tubes or fibers

→ Removable faceplates for mounting adapters without screws

→ Front shelf for patchcords management

→ Adjustable side handles

→ High capacity

→ Moveable front flap, which is a patch cord protection from accidental damage

Telescopic fiber optic patch panel PST-C1

PST-C1

PST-C1 with LC fiber optic adapters and pigtails terminated with LC connector
(additional components in equipment described are shown on p.15)

Adapters qty	Adapter type and class	Serial number
6	LC PC SM Standard One-Piece	PST-C1-01-101-06151-12D051-11-121-12
	LC PC SM Super One-Piece	PST-C1-01-101-06251-12D051-11-121-12
	LC APC SM Standard One-Piece	PST-C1-01-101-06161-12D061-11-121-12
	LC APC SM Super One-Piece	PST-C1-01-101-06261-06D061-11-121-12
	LC PC mm Standard One-Piece	PST-C1-01-101-06152-12I052-11-121-12
12	LC PC SM Standard One-Piece	PST-C1-01-101-12151-24D051-12-241-12
	LC PC SM Super One-Piece	PST-C1-01-101-12251-24D051-12-241-12
	LC APC SM Standard One-Piece	PST-C1-01-101-12161-24D061-12-241-12
	LC APC SM Super One-Piece	PST-C1-01-101-12261-24D061-12-241-12
	LC PC mm Standard One-Piece	PST-C1-01-101-12152-24I052-12-241-12
24	LC PC SM Standard One-Piece	PST-C1-01-201-24151-48D051-22-481-12
	LC PC SM Super One-Piece	PST-C1-01-201-24251-48D051-22-481-12
	LC APC SM Standard One-Piece	PST-C1-01-201-24161-48D061-22-481-12
	LC APC SM Super One-Piece	PST-C1-01-201-24261-48D061-22-481-12
	LC PC mm Standard One-Piece	PST-C1-01-201-24152-48I052-22-481-12

PST-C1 with FC fiber optic adapters and pigtails terminated with FC connector
(additional components in equipment described are shown on p.15)

Adapters qty	Adapter type and class	Serial number
6	FC PC SM Standard	PST-C1-01-102-06171-06D071-11-061-12
	FC APC SM Standard	PST-C1-01-102-06181-06D081-11-061-12
	FC PC mm Standard	PST-C1-01-102-06172-06I072-11-061-12
12	FC PC SM Standard	PST-C1-01-102-12171-12D071-11-121-12
	FC APC SM Standard	PST-C1-01-102-12181-12D081-11-121-12
	FC PC mm Standard	PST-C1-01-102-12172-12I072-11-121-12
24	FC PC SM Standard	PST-C1-01-202-24171-24D071-11-241-12
	FC APC SM Standard	PST-C1-01-202-24181-24D081-11-241-12
	FC PC mm Standard	PST-C1-01-202-24172-24I072-11-241-12

🗎 Description

→ Fibrain telescopic patch panel offers excellent flexibility during mounting and installation. Mainly used for distribution – patching or splicing shelves. Constructed of high quality material ensuring very easy installation and maintenance.

→ Removable front panels facilitates installation of all kinds of adapters, including the creation of hybrid combinations.

→ Patch panels are made of powder-coated steel as standard in black and available in 1U option. The movable front flap is made of anodized aluminum which protects pigtails against accidental damage. Panels mounted on telescopic rails provide a full extension for easy cable mounting. Cable entry adjusted to mount PG16 cable glands and terminated FIBRAIN multipatchcords solution. The interior design with handles with handles facilitate the proper management of fiber. Therefore, adjustable side handles provide the possibility to move the panel inside the cabinets.

❖ Applications

→ Fiber optics interchanges points
→ Distribution networks
→ Serwer room

⊞ Features & benefits

→ 1U
→ Full extension on telescopic rails
→ Cable entry shifted back in a patch panel
→ Handles to manage tubes or fibers
→ Removable faceplates for mounting adapters without screws
→ Front shelf for patchcords management
→ Adjustable side handles
→ High capacity
→ Moveable front flap, which is a patch cord protection from accidental damage

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Modular patch panel 1U

PS-19-1-3PS.V0

🗐 Description

→ Fibrain 1U modular patch panels is solution facilitating termination up to 36 / 72 fibers in distribution points as well in server rooms. Smart design allows easy, time-saving way of installation and mounting of fiber optic cables. Main feature is possibility of mounting PS-01 and PS-M1 modules which can be equipped in adapters, splice cassette and pigtails. As a standard modular patch panel is equipped with 3pcs of module cover and 9 pcs of membrane cable entry.

Technical specification

	PS-19-1-3PS.V0
Maximum fibre capacity	3U (133.35 mm)
Maximum module capacity	436 (19")
Number of cable entry	160
Maximum diameter of cable [mm]	436 (19")
Length [mm]	160
Width [mm]	160
Height [mm]	aluminium
Material	ABS

❖ Applications

→ Teleco mmunication server rooms
→ FTTH networks
→ Structural cabling systems
→ Data Center systems

┼┼┼ Features & benefits

→ Modules ready to be mounted
→ High capacity up to 72 fibers in 1U
→ Possibility of install up to 9 cable gland PG16 in entry ports
→ Internal perforation to fix entry cables
→ Clear management of fiber optic

Additional equipment

PG16 cable gland	DL16
Module cover	PS-00
Single patch panel module	PS-01-xx
Single patch panel module for MTP/MPO solutions	PS-M1-xx

View of 1U modular patch panel equipped with 3 modules and 9 cable glands

Ordering information

PS-19-1-3PS.V0	Fibrain 1U modular patch panels for 3 single modules, equipped with module covers and 9 cable entry membranes.

Modular patch panel 3U Telecom
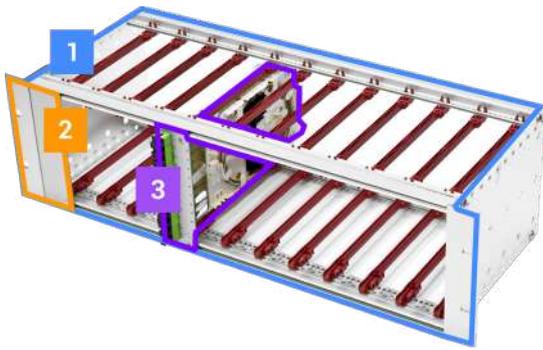
1. Chassis (frame)
2. Plug stopper for unused ports
3. Equipped module for 3U patch panel

Description

→ Fibrain 3U modular patch panels are solution facilitating termination up to 144/288 fibers in signal distribution points as well in server rooms. Smart design allows easy and time-saving way of installation and mounting of fiber optic cables. Main elements of this solution is frame of modular patch panel (chassis) and equipped 3U modular patch panel. Complete solution also offers patchcords management shelf, tubes and patchcords reserve shelf as well as fiber optic cables tubes separators.

→ Additionally 3U modular patch panels can be provide with single modules equipped with MTP®/MPO Direct Split, which is perfect solution for Data Center apllication. Direct split allows to connect MTP multi-fiber connectors with standard, single-fiber optic connectors.

Technical specification

PS-19-3-0.PRO CHASSIS	
Height	3U (133.35 mm)
Width [mm]	436 (19")
Depth [mm]	160
Frame material	aluminium
Sliders material	ABS
PS-01-XX MODULE	
Length [mm]	220
Width [mm]	129
Depth [mm]	35

Applications

→ Telecozbormmunication server rooms
→ FTTH networks
→ Metro networks
→ Structural cabling systems
→ Data Center systems

Features & benefits

→ Capacity up to 144/288 fibers in 3U
→ Lightweight and strong aluminium construction
→ Modules ready to be mounted
→ Facilitated mounting of fiber optic cable's tube
→ Clear management of fiber optic

Ordering information

Product	Serial number
Chassis – patch panel frame	PS-19-3-0.PRO
Equipped module for 3U patch panel	PS-01-xx & PS-M1-xx see page 20-21
Plug stopper for unused ports	PS-00-P
Patchcords reserve shelf	PS-19-1-PAT (grey RAL 7035) PS-19-1-PAT-B (black RAL 9005
Tubes reserve shelf	PS-19-1-TUB
Patchcords management shelf	PS-ORG-1-PP
Fiber optic cables tube separator	RT-01-xx, see page 33

3U modules for modular patch panel

3U module for modular patch panel equipped with fiber optic adapter, pigtails, splice cassette and pigtails reserve cassette in "spliced" version

Description

→ Fibrain 3U modules patch panel is a component used in a 3U modular patch panel and a solution which enables termination of max. 12 or 24 fiber optic cables. It can store pigtails and protect fiber optic connections. Patch panels are equipped with splice cassettes for 12/24 45 mm splice protection sleeves. Therefore, the panel has got the cassette with pigtails, which facilitates mounting and secure pigtails. Delivered modules are ready to be mounted because are equipped with adapters and pigtails. PS-01 Fibrain panels guarantee mounting up to 12 SC PC/APC and E2000 PC/APC adapters as well as 3 or 6 LC 4X fiber optic adapters (LC quad).

→ Fibrain 3U modules allows to install MTP®/MPO Direct Split, which are perfect solution to combine MTP®/MPO multi-fiber connectors with standard, single-fiber optic connectors. Front panel is designed for different type of fiber optic adapter, like: SC SX, E2000 SX and LC 4X (quad). Additionally, module is equipped with MTP®/MPO adapter (one or two according to Direct Split quantity)

PS-M1 modules for mounting MTP®/MPO Direct Split solution with capacity:

→ **1x Direct Split 12F** (3 x LC quad adapter)

→ **2x Direct Split 12F** (6 x LC quad adapter)

→ **1x Direct Split 24F** (6 x LC quad adapter)

❖ Applications

→ Nodal points of fiber optic networks

→ Distribution points of fiber optic networks

→ Server rooms

Technical specification

	PS-01-XX	PS-19-XX
Length [mm]	220	200
Width [mm]	129	129
Height [mm]	35	35

Features & benefits

→ Capacity up to 12/24 splices

→ Modules ready to be mounted

→ Fiber optic splice cassette made of ABS

→ Facilitated identification and work due to 12 colours of pigtails

→ Possibility to install fusion and mechanical splices in a fiber optic cassette

→ Wide range of fiber optic adapters available

→ Adapted to mounting MTP®/MPO Direct Split

Ordering information

PS-01-xx	Single 3U patch panel module, equipment versions – page 20
PS-M1-xx	Single 3U patch panel module for MTP®/MPO solutions, equipment versions – page 21

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Examples of front panels for 3U modules

PS-19-xx – 3U front plate configuration

Single panels for PS-19-01
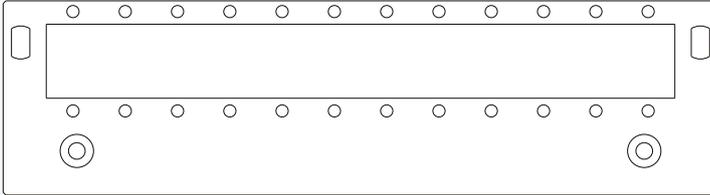
12xSC SX / E2000™ SX

6x LC DX (+6 plug stoppers)
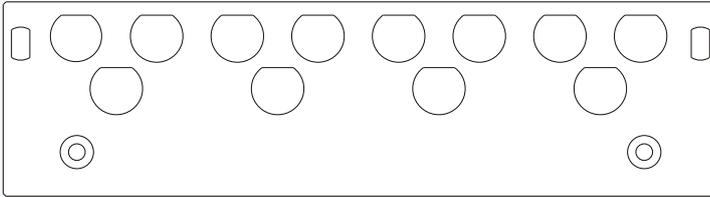
12xFC SX
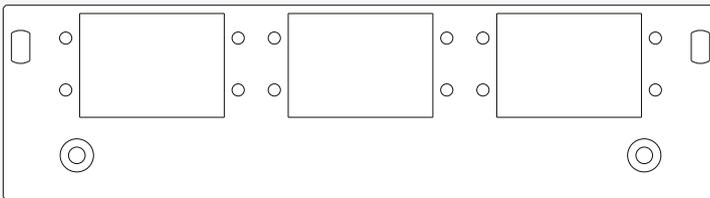
6 x LC 4X (LC quad)
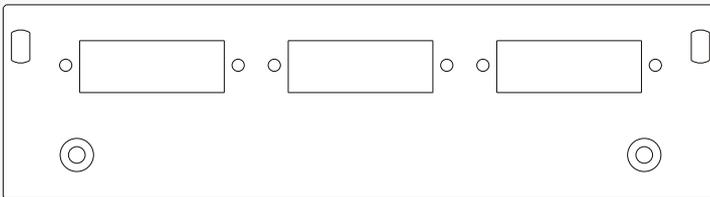
3 x LC 4X (LC quad)

3U modules for modular patch panel PS-01 – ordering syntax

3U modules for modular patch panel PS-01 – ordering syntax

Spliced version of 3U module

PS-XX-A-B-CCDEEF-GGHII-JJK

XX – Width	01	single
A – Fiber type	A	SMF 652D
	B	SMF 655
	D	SMF 657A1
	E	SMF 657A2
	F	SMF 657A3
	G	SMF 657B3
	H	mm OM1
	I	mm OM2
	K	mm OM3
	L	mm OM4
B – Cassette type	1	SCM-A-12H
	2	FB7401PP (in case of use FB7401PP module size: 211x129x35.2 (Length x Width x Depth))
	3	SCM-A-24H
CC – Adapters qty		1-12 (single)
D – Adapter class	1	Standard One-Piece (@E2000, FC, ST)
	1T	Standard One-Piece with transparent cap (only for SC APC)
	2	Premium One-Piece with internal shutter
	3	Premium Super-One Piece with internal shutter
EE – Adapter type	01	SC SX
	02	SCA SX
	03	E2 SX
	04	E2A SX
	05	LC 4X
	06	LCA 4X
	07	FC SX
	08	FCA SX
	09	ST SX

F – Transmission	1	SM
	2	mm (beige @SC/LC, black @E2000)
	3	mm OM3 (aqua @SC/LC)
	4	mm OM4 (violet @SC/LC)
GG – Pigtails qty		00-24
H – Pigtail grade	S	Silver
	G	Gold
	T	Titanium
II – Color identification	01	for pigtails with yellow 0.9 mm buffer
	02	for pigtails with orange 0.9 mm buffer
	03	T TELECOM (acc. to IEC60304)
	04	T1 TELECOM (acc. to 60304/tab. 3 & ZN-11/TPSA-005-02)
	05	T2 TELECOM (acc. to EIA 598A)
	06	D DATACOM (acc. to DIN VDE 0888 & IEC 60304)
	07	D1 DATACOM (acc. to IEC 60304, TIA/EIA 598-A, TIA/EIA 598-C)
JJ – Splice protector qty		00-24
K – Sleeve type	1-45 mm	

Example

PS-01-A-1-121021-12G01-121

Fibrain 3U patch panel module with pigtail reserve cassette, single, equipped with 12 SC APC Standard One-Piece adapters, 12 SC APC Gold Grade pigtails length: 2 m, 1 splice cassette for up to 12 sleeves and 12 splice protectors 45 mm

To order a non- standard option, please contact with our Sales Department.

FIBRAIN

3U modules for modular patch panel PS-M1 – ordering syntax
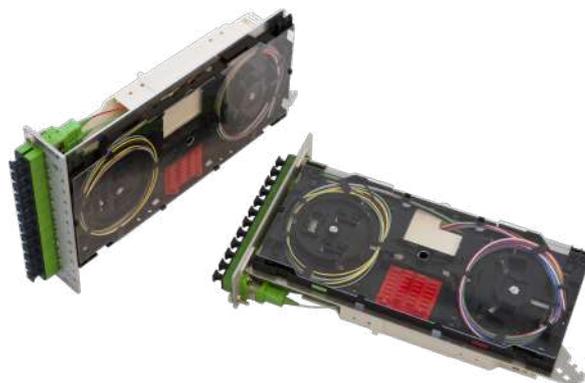
3U patch panel module PS-M1 ordering syntax

3U patch panel module equipped with Direct Split – MTP® solution

PS-M1-A-B-CDEFGG-HHIJJK-LM

A – Fiber type	A	SMF 652D	**GG – Single-fiber connectors type**	01	SC
	B	SMF 655		02	SC APC
	D	SMF 657A1		03	LC
	E	SMF 657A2		04	LC APC
	F	SMF 657A3		05	FC
	G	SMF 657B3		06	FC APC
	H	mm OM1		07	E2000
	I	mm OM2		08	E2000 APC
	K	mm OM3	**HH – Adapters qty (front)**	**1-12**	
	L	mm OM4	**I – Adapter class (front)**	1	Standard One-Piece (@E2000, FC, ST too)
B – Front panel type	1	12x SC SX/12x E2000 SX/6x LC DX (+ 6 port caps between LC DX adapters)		1T	Standard One-Piece with transparent cap (only for SC APC)
	2	12x ST/FC		2	Premium One-Piece with internal shutter
	3	6x LC 4X (6x LC QUAD)		3	Premium Super One-Piece with internal shutter
	4	3x LC 4X (3x LC QUAD)	**JJ – Adapter type (front)**	01	SC SX
C – Direct Split qty	1	1 x DS in the module		02	SCA SX
	2	2 x DS in the module		03	E2 SX
D – Direct Split type	1	1x12		04	E2A SX
	2	1x24		05	LC 4X
E – Connectors Grade	G	Gold MTP®/MPO & Gold for single-fiber connectors		06	LCA 4X
	T	Titanium MTP®/MPO & Titanium for single-fiber connectors		07	FC SX
F – Connector type MTP®/MPO	1	MTP female APC		08	FCA SX
	2	MTP male APC		09	ST SX
	3	MTP female mm	**K – Transmission**	1	SM
	4	MTP male mm		2	mm (beige @SC/LC, black @E2000)
				3	mm OM3 (aqua @SC/LC)
				4	mm OM4 (violet @SC/LC)
			L – MTP®/MPO adapters qty	**1-2**	
			M – MTP®/MPO adapters type	1	Reversed key
				2	Opposed key

Example

PS-M1-A-5-11G104-031051-11

Fibrain 3U patch panel module equipped with Direct Split, terminated with female MTP connector and LC APC connectors on G.652D fiber type, 3 LC APC Standard One-Piece adapters and 1 MTP Reversed Key adapter

To order a non- standard option, please contact with our Sales Department.

PATCH PANEL PS 19''

Rotational patch panel with side access PSR-A0

📄 **Description**

→ Rotational patch panel PSR-A0 type, in 1U or 2U version, is basic mounting block for fiber management system , in patch panel holder. Available in version routing on the left or right side, so it offers well accessibility to trays and patching cords on both sides. It minimizes and protect patch cords cables movement inside patch panels.

→ Patch panel PSR-A0 offers trays patch cords in SC simplex standard for 48 fields in 1U version or 96 fields in 2U, available installation into 2 or 4 splice trays for 24 solders . Tray patch cords allow mount connector for 25 degree angle from the diagonal plane.

Technical specification

	PSR-A0-01	PSR-A0-02
Height	1U	2U
Maximal fiber qty	48	96
Maximal splice qty	48	96
Maximal splice cassette qty	2	4
Maximal line cable diameter [mm]	12	
Depth [mm]	315	
Operating temperature	-20°C – +50°C	
Casing material	Powder painted steel	

❖ **Applications**

→ Fiber optics interchanges points

→ Distribution network

→ Server room

Equipped PSR-A0 rotational patch panel in black version (RAL 9005)
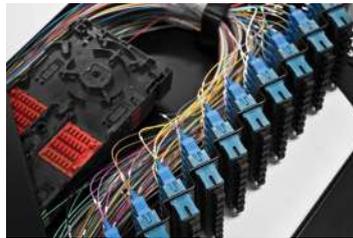
Interior view of PSR-A0 with mounting splice cassette, adapters and pigtails

᚛᚜ **Features & benefits**

→ Metal casing- anticorrosive protected

→ Cable bushing in back parts of line cables

→ Cable bushing in the front parts of patchcords

→ Patch panel installation on a back or front rack profile

→ Capacity up to
  → 48 fibers in 1U
  → 96 fibers in 2U

→ Cable bushing in patch panel are equipped in brush guards

→ Panel available rotating to left or right side of patch panel (depends on version)

→ Offers separated canal for patch cord cables

→ Possibilities termination line and local cables on aside or back of patch panel

→ Hinged flap of patch panel, protects patch cords against damages

Ordering information – non-equipped version

PSR-A0-01-R-00-00000-0000000-000	Fibrain 1U rotational patch panel, right side A0 version, non-equipped; grey (RAL7035)
PSR-A0-02-R-00-00000-0000000-000	Fibrain 2U rotational patch panel, right side A0 version, non-equipped; grey (RAL7035)
PSR-A0-B1-R-00-00000-0000000-000	Fibrain 1U rotational patch panel, right side A0 version, non-equipped; black (RAL 9005)
PSR-A0-B2-R-00-00000-0000000-000	Fibrain 2U rotational patch panel 2U, right side A0 version, non-equipped; black (RAL 9005)

FIBRAIN

Equipped rotational patch panel with side access PSR-A0

Equipped rotational patch panel with side access PSR-A0:

PSR-A0-XX-A-BC-DDEFG-HHIJKLL-

XX – Height variant	01	1U (grey RAL 7035)
	02	2U (grey RAL 7035)
	B1	1U (black RAL 9005)
	B2	2U (black RAL 9005)

A – Shelf opening direction	R	right
	L	left

B – Cassette qty	0-4	

C – Cassette type	1	SCM-A-24H

DD – Adapters qty:	**1-48** (1U)	Unused ports are blinded
	1-96 (2U)	

E – Adapter class:	1	Standard One-Piece
	2	Premium One-Piece with internal shutter
	3	Premium Super One-Piece
	4	Premium Super One-Piece with internal shutter

F – Adapter type:	1	SC
	2	SCA
	3	E2
	4	E2A

G – Transmission	1	SM
	2	mm (beige @SC, black @E2000)
	3	mm OM3 (aqua @SC)
	4	mm OM4 (violet @SC)

HH – Pigtails qty	0-96	

I – Fiber type	A	G.652D
	B	G.655
	C	G.656
	D	G.657A1
	E	G.657A2
	F	G.657B2
	G	G.657B3
	H	mm OM1
	I	mm OM2
	K	mm OM3
	L	mm OM4

J – Connector type	1	SC
	2	SCA
	3	E2
	4	E2A

K – Pigtails grade	S	Silver
	G	Gold
	T	Titanium

LL – Color identification	01	for pigtails with yellow 0.9 mm buffer
	02	for pigtails with orange 0.9 mm buffer
	03	T TELECOM (acc. to IEC60304)
	04	T1 TELECOM (acc. to 60304/tab. 3 & ZN-11/TPSA-005-02)
	05	T2 TELECOM (acc. to EIA 598A)
	06	D DATACOM (acc. to DIN VDE 0888 & IEC 60304)
	07	D1 DATACOM (acc. to IEC 60304, TIA/EIA 598-A, TIA/EIA 598-C

mm – Splice sleeve qty	0-96	

O – Splice sleeve type	1	45 mm

Example

PSR-A0-02-R-41-96311-96A1G01-961

Fibrain rotational patch panel with side access, right, equipped with 4 splice cassettes for 24 splice protectors, 96 Gold grade pitails terminated with SC PC connectors, 2m length on G.652D fiber, 96 Premium Super One-Piece SC PC adapters and 96 splice protectors 45 mm.

To order a non- standard option, please contact with our Sales Department.

Pivot swivel patch panel with side access PSR-B0

PSR-B0

📄 Description

→ Pivot swivel patch panel PSR-B0 type, 1U or 2U height, is basic mounting block for fiber management system in patch panel holder. Available in version routing on the left or right side, so it offers well accessibility to trays and patching cords on both sides. It minimizes and protect patch cords cables movement inside patch panels. Patch panel PSR-B0 is equipped with holder for pivot swivel splice trays SCM-B with maximum capacity of 4 splice trays in the 1U height and 8 splice trays in the 2U height.

❖ Applications

→ Fiber optics interchanges points

→ Distribution network

→ Server room

Technical specification

	PSR-B0-01 / PSR-B0-B1	PSR-B0-02 / PSR-B0-B2
Height	1U	2U
Width	19″	19″
Depth [mm]	315	315
Max. number of fibers	48	96
Max. number of splices	48	96
Max. number of splice trays	4	8
Max. line cable diameter [mm]	12	12
Operating temperature	-20°C – +50°C	
Casing material	Powder painted steel	

⫘ Features & benefits

→ Metal casing with anticorrosive protection

→ Cable bushings in back part of line cables

→ Cable bushing in front part of patchcords

→ Capacity up to:

　→ 48 fibers in 1U

　→ 96 fibers in 2U

→ Patch panel installation on back or front rack profile

→ Panel available in rotating left or right side of patch panel (depends on version)

→ Possibilities of termination cables on side or back of patch panel

→ Hinged flap of patch panel protects patchcords from damages

View of 1U patch panel

View of 2U patch panel

2U Patch panel with embeddable RT-01 tube separator

1U and 2U Patch panel with embeddable PS-TH-12-05 tube separator

FIBRAIN

Equipped pivot swivel patch panel with side access PSR-B0

Equipped rotational patch panel with side access PSR-A0:

PSR-B0-XX-A-BC-DDEFG-HHIJKL-mmO-P

XX – Height variant	01	1U (grey RAL7035)
	02	2U (grey RAL7035)
	B1	1U (black RAL9005)
	B2	2U (black RAL9005)

A – Shelf opening direction	R	right
	L	left

B – Cassette qty	0-4	

C – Cassette type	1	SCM-B-12H

DD – Adapters qty:	**1-48** (1U)	Unused ports are blinded
	1-96 (2U)	

E – Adapter class:	1	Standard One-Piece
	2	Premium One-Piece with internal shutter

F – Adapter type:	1	SC
	2	SCA
	3	E2000
	4	E2000 APC

G – Transmission	1	SM
	2	mm (beige @SC, black @E2000)
	3	mm OM3 (aqua @SC)
	4	mm OM4 (violet @SC)

HH – Pigtails qty	0-96	

I – Fiber type	A	G.652D
	B	G.655
	C	G.656
	D	G.657A1
	E	G.657A2
	F	G.657B2
	G	G.657B3
	H	mm OM1
	I	mm OM2
	K	mm OM3
	L	mm OM4

J – Connector type	1	SC
	2	SCA
	3	E2
	4	E2A

K – Pigtails grade	G	Gold
	T	Titanium

LL – Color identification	01	for pigtails with yellow 0.9 mm buffer
	02	for pigtails with orange 0.9 mm buffer
	03	T TELECOM (acc. to IEC60304)
	04	T1 TELECOM (acc. to 60304/tab. 3 & ZN-11/TPSA-005-02)
	05	T2 TELECOM (acc. to EIA 598A)
	06	D DATACOM (acc. to DIN VDE 0888 & IEC 60304)
	07	D1 DATACOM (acc. to IEC 60304, TIA/EIA 598-A, TIA/EIA 598-C)
	08	for pigtails with aqua 0.9 mm buffer

mm – Splice sleeve qty	48, 96	

O – Splice sleeve type	1	45 mm

P – Cable tube divider	0	without
	1	with PS-TH-12-05 mounted

To order a non- standard option, please contact with our Sales Department.

Integrated patch panels for splitter FIBRAIN PZSP

PZSP

Technical specification

	PZSP
Height [mm]	1U (44 mm)
Width [mm]	19" (483 mm)
Depth [mm]	201/258*
Casing material	Powder painted steel

*In case of using PST-A1 telescopic patch panel with dedicated front plates

Ordering information

PZSP-G0-2-1-04132-P-F-EVEN-EMPTY	FIBRAIN 19" integrated patch panel, 1U, 4x 1x32, non-equipped
PZSP-G0-2-1-05116-P-F-EVEN-EMPTY	FIBRAIN 19" integrated patch panel, 1U, 5x 1x16, non-equipped
PZSP-G0-2-1-08108-P-F-EVEN-EMPTY	FIBRAIN 19" integrated patch panel, 1U, 8x 1x8, non-equipped
PZSP-G0-2-1-10104-P-F-EVEN-EMPTY	FIBRAIN 19" integrated patch panel, 1U, 10x 1x4, non-equipped
PZSP-G0-2-1-10102-P-F-EVEN-EMPTY	FIBRAIN 19" integrated patch panel, 1U, 10x 1x2, non-equipped
PZSP-G0-2-1-04132-P-F-EVEN-PSCA-PSCA	FIBRAIN 19" integrated patch panel, 1U, equipped with 4x 1x32 SC APC, 1.8 mm tube
PZSP-G0-2-1-05116-P-F-EVEN-PSCA-PSCA	FIBRAIN 19" integrated patch panel, 1U, equipped with 5x 1x16 SC APC, 1.8 mm tube
PZSP-G0-2-1-08108-P-F-EVEN-PSCA-PSCA	FIBRAIN 19" integrated patch panel, 1U, equipped with 8x 1x8 SC APC, 1.8 mm tube
PZSP-G0-2-1-10104-P-F-EVEN-PSCA-PSCA	FIBRAIN 19" integrated patch panel, 1U, equipped with 10x 1x4 SC APC, 1.8 mm tube
PZSP-G0-2-1-10102-P-F-EVEN-PSCA-PSCA	FIBRAIN 19" integrated patch panel, 1U, equipped with 10x 1x2 SC APC, 1.8 mm tube

Other equipment options and ordering codes are available in PON Catalogue

Examples of equipped patch panels

	1. PZSP-G0-2-1-0214-P-F-EVEN-SCA-SCA Fibrain integrated patch panel EVEN 19" 1U equipped with 2 splitters 1/4 SC APC and 10 Premium Super One-Piece SC APC SX adapters
	2. PZSP-G0-2-1-01132-P-F-EVEN-SCA-SCA Fibrain integrated patch panel EVEN 19" 1U equipped with 2 splitters 1/4 SC APC and 10 Premium Super One-Piece SC APC SX adapters

📄 Description

→ Integrated patch panels Fibrain PON facilitate easy management of passive elements installed in teleco mmunication and providers networks. Variety of products available and tailored solutions additional effects flexibility of PON systems and provides future extension of systems. Available casing of standard 19" dedicated for:

→ integrated splitters shelves for CATV operator

→ integrated splitters shelves FTTH

→ hybrid solutions

❖ Applications

→ WDM systems

→ Teleco mmunication networks

→ CATV networks

→ Optic amplifiers

→ Measuring equipment

🎚 Features & benefits

→ Easy management of PON elements

→ Clear description of PON elements installed

→ Possible installation of 1U and 2U in 19"

→ Dedicated and hybrid solution

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Integrated patch panels for splitter
FIBRAIN PZSP

PZSP – configuration of 1U integrated patch panel

1x32
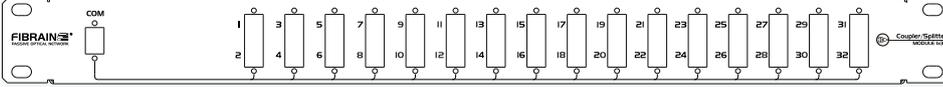
2x(1x8)

4x(1x2)

4x(1x4)

4x(1x8)

8x(1x2)

16x(1x2)

1x8

Integrated patch panels for splitter
FIBRAIN PZSP – 1U front plates
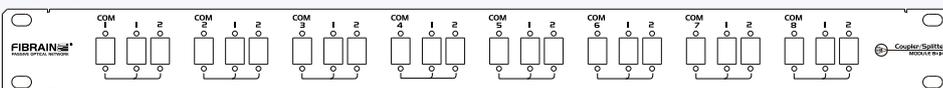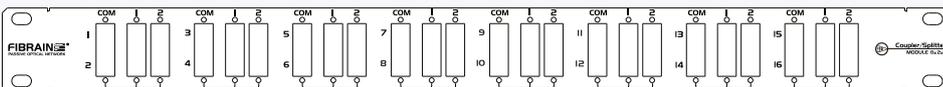
PZSP – configuration of 1U dedicated front plates for PST-A1

FB 2250

FB 2251

FB 2252
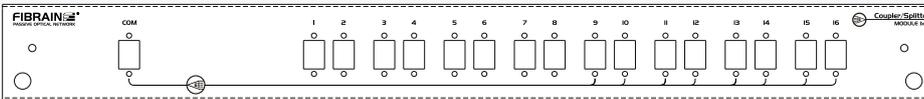
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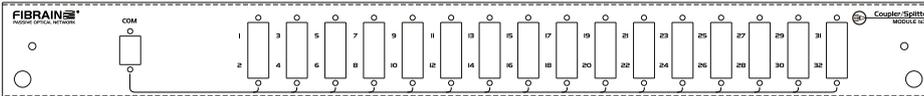
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FB 2261

FB 2270
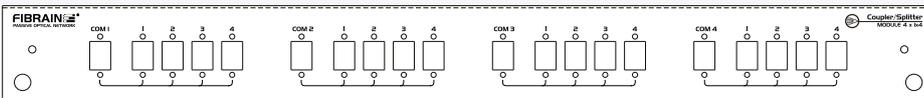
FB 2271

FB 2280

FB 2281

PATCH PANEL PS 19''
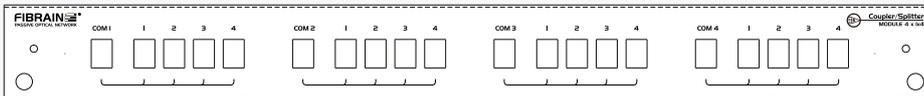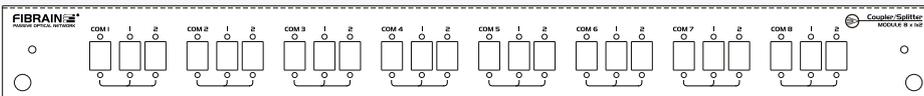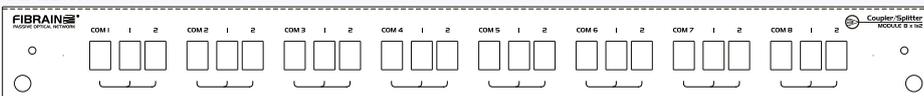
LGX solution for optical splitters

📄 Description

→ Fibrain LGX solutions facilitate easy manage-ment of optical passive elements installed in teleco mmunication and providers networks. Additional chief asset is very easy extension as well as flexibility of demanded configuration adjustment. LGX products offer possibility of mounting within one frame integrated FBT and PLC splitters, combiners.

❖ Applications

→ WDM systems
→ Teleco mmunication networks
→ CATV networks
→ Optic amplifiers
→ Measuring equipment
→ Metropolitan networks

Technical specification

	LGX1	LGX2
Height [mm]	100	
Width [mm]	156	
Depth [mm]	29	58
Mounting	19''	
Colour	grey RAL7035*	

*Other colors available on request

☷ Features & benefits

→ Easy management of PON elements
→ Clear description of PON elements installed
→ Easy extension & development
→ Dedicated and hybrid solution

Ordering information – examples

LGX1-G0-1-012-D-35-50-FC-FC	FIBRAIN coupler 1/2 50/50% 1310/1550 nm FC connectors LGX1
LGX1-G0-1-012-D-35-50-SCA-SCA	FIBRAIN coupler 1/2 50/50% 1310/1550 nm SC/APC connectors LGX1
LGX1-G0-1-012-D-35-70-SCA-SCA	FIBRAIN coupler 1/2 70/30% 1310/1550 nm SC/APC connectors LGX1
LGX1-G0-2-014-P-345-2525-E2A-E2A	FIBRAIN splitter PLC 1x4, fullband, G.657A, E2000APC connectors, LGX1
LGX1-G0-2-014-P-345-2525-SCA-SCA	FIBRAIN splitter PLC 1x4, fullband, G.657A, SC/APC connectors, LGX1

Other equipment options and ordering codes are available in PON Catalogue

LGX1 solutions examples
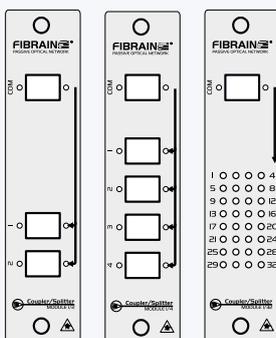
LGX2 solutions examples
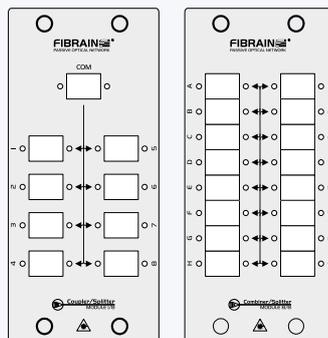
Other solutions available on request

LGX frame

Frame for LGX casing

SERIAL NUMBER	DESCRIPTION	
LGX-3U-14-P	FIBRAIN LGX Frame 3U 19" 14*LGX1	
LGX-3U-14-R	FIBRAIN LGX Frame 3U 19" 14*LGX1 recessed	
LGX-2U-6-P	FIBRAIN LGX frame 2U 19" 6*LGX1	
LGX-2U-6-R	FIBRAIN LGX frame 2U 19" 6*LGX1 recessed	
LGX-1U-3-P	FIBRAIN LGX frame 1U 19" 3*LGX1	
LGX-1U-3-R	FIBRAIN LGX frame 1U 19" 3*LGX1 recessed	

Frame dimensions available in DSH

FIBRAIN

Din Module FDM-xx

Technical specification

	FDM S11, S12, S15, S16	FDM S13, S14, S17, S18
Dimensions (w)x(h)x(d) [mm]	35x200x130	66x200x130
Max. number of splices	12	24
Max. number of SC SX adapter	12	24
Max. number of MTP adapter	1	2
Max. cable diameter [mm]	12	12
Cable gland qty/type	2/PG13.5	4/PG13.5

*Other colors available on request

View of internal part of the FDM Module

View of FDM Module with 24x SCA SX and 2x MTP adapters

Description

→ Fibrain Din Module FDM-xx is a compact, small cabinet providing the installation on the small area inside the wall box or in a street cabinet. FDM-xx can be mounted on a standard 35 mm DIN-Rail. The FDM-xx capacity is up to 24 splices. FDM Module can be equipped with adapter plate up to 24 SC/FC/ST SX adapters and 2 MTP adapters. Internal part of the module contains holders for flexible organization of the fibers inside a cabinet. FDM Module is adapted to mounting MTP Direct Split.

Applications

→ Nodal points of fiber optic networks
→ Distribution points of fiber optic networks

Features & benefits

→ Capacity up to 24 splices
→ Can be easily snapped on a DIN-Rail 35 mm
→ Cable entries from the top and bottom
→ Possibility to mount 24x SC SX and 2x MTP fiber optic adapter
→ Available in splice version or equipped with MTP Direct Split
→ Compact design

Din Module FDM-xx

FDM-S1X-AABCCD-EEFGHH-IIJ-MN

X – Panel type		
	1	12x SC SX + MTP
	2	12x FC/ST + MTP
	3	24x SC SX + 2x MTP
	4	24x FC/ST + 2x MTP
	5	12x SC SX
	6	12x FC/ST
	7	24x SC SX
	8	24x FC/ST

AA – Adapter qty		0-12
B – Adapter class	1	Standard One-Piece
	2	Premium One-Piece with internal shutter
	3	Premium Super One-Piece (SCA only)
CC – Adapter type	01	SC
	02	SCA
	03	E2
	04	E2A
	05	FC
	06	FCA
	07	ST
D – Transmission	1	SM
	2	mm (beige @SC/LC, black @E2000)
	3	mm OM3 (aqua @SC/LC)
	4	mm OM4 (violet @SC/LC)

EE – Pigtal qty		0-12
F – Fiber type	0	12
	A	SMF 652D
	B	SMF 655
	D	SMF 657A1
	E	SMF 657A2
	F	SMF 657B3
	G	SMF 657B3+
	H	mm OM1
	I	mm OM2
	K	mm OM3
	L	mm OM4
G – Pigtail grade	G	Gold
	T	Titanium
HH – Colour identification	01	for pigtail with yellow 0.9 mm buffer
	02	for pigtail with orange 0.9 mm buffer
	03	T TELECOM (acc. to IEC60304)
	04	T1 TELECOM (acc. to 60304/tab. 3 & ZN-11/TPSA-005-02)
	05	T2 TELECOM (acc. to EIA 598A)
	06	D DATACOM (acc. to DIN VDE 0888 & IEC 60304)
	07	D1 DATACOM (acc. to IEC 60304, TIA/EIA 598-A, TIA/EIA 598-C)
	08	for pigtail with aqua 0.9 mm buffer

II – Splice protector qty	0-24
J – Splice protector type	1 – 45 mm

M – Cable gland on the top	1 – DL13.5
N – Cable gland on the bottom	1 – DL13.5

To order a non- standard option, please contact with our Sales Department.

Identification icons ID-ICON-SET12

ID-ICON-SET12

📰 Description

→ Fibrain identification icons allow to transparent marking of splice cassettes and optical fibers/ tubes inserted into them. The set consists of 144 icons in 12 colours: red, green, blue, white, purple, orange, gray, yellow, brown, pink, black, turquoise (12 icons per color).

❖ Applications

→ SCM-A splice cassette
→ SCM-B splice tray

⊞ Features & benefits

→ 12 colors
→ Easy identification of cassettes and optical fibers / tubes
→ Fast assembly requiring no tools

Technical specification

Length	9.9 mm
Width	3.4 mm
Height	1.2 mm
Material	PP

Example of application of identification icons on FOBP closure

Ordering information

ID-ICON-SET12	Fibrain identification icons, 12 colours – 144pcs set

Tubes reserve shelf

PS-19-1-TUB

Technical specification

	PS-19-1-TUB
Height [mm]	44 mm (1U)
Width [mm]	483 (19")
Depth [mm]	258
Casing material	Powder painted steel

Ordering information

PS-19-1-TUB	Fibrain tubes reserve shelf

🗐 Description
→ Fibrain tubes reserve shelf offers simple and useful way of gathering and storage of fiber optic cable's tube. The shelf is equipped with telescopic rails, which provide a full opening to mount cables easily. Shelf's interior is equipped with a series of ribbing and perforation to provide easier management of fiber optic cable's tube.

❖ Applications
→ FTTH systems
→ Last mile distribution points
→ Last mile connection points

Features & benefits
→ Full opening on telescopic rails
→ Easy access to fiber optic cable's tube gathered
→ Faster installation at construction side
→ Shelf's interior facilitating installation and management

Patchcords reserve shelf

PS-19-1-PAT

Technical specification

	PS-19-1-PAT
Height [mm]	44 mm (1U)
Width [mm]	483 (19")
Depth [mm]	258
Casing material	Powder painted steel

Ordering information

PS-19-1-PAT	Fibrain patchcords reserve shelf

🗐 Description
→ Fibrain patchcords reserve shelf offers simple and useful way of gathering and storage patchcords overlength. The shelf is equipped with telescopic rails, which provide a full opening. Front plate with possibility to mount patchcors using velcro tape. Shelf's interior is equipped with a series of ribbing and perforation to provide easier management and patchcord cables installation.

❖ Applications
→ FTTH systems
→ Last mile distribution points
→ Last mile connection points

Features & benefits
→ Full opening on telescopic rails
→ Easy access to patchcords gathered
→ Faster installation at construction side
→ Front plate facilitating installation and management

FIBRAIN®

Horizontal fiber cable organizer

PS-ORG-1-PP

📄 Description

→ Fibrain horizontal fiber optic cable organizer is a key elements which facilitate patchcords' management, which are placed between fiber optic equipment in distribution cabinets. This organizer ensures clean and transparent room. Therefore, the organizer is made from anodized aluminium and easily detachable handles made from ABS.
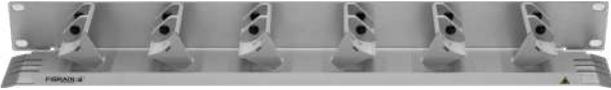
Technical specification

	PS-ORG-1-PP
Height [mm]	44 mm (1U)
Width [mm]	483 (19")
Depth [mm]	65
Casing material	Anodized aluminium + ABS

❖ Applications

→ Key points in fiber optic networks
→ Distribution points of fiber optic networks
→ Server rooms

Ordering information

PS-ORG-1-PP	Fibrain horizontal fiber optic cable organizer

Features & benefits

→ Height 1U
→ Width 19"
→ Light and made of anodized aluminium housing
→ Easy patchcord's organization
→ Detachable handles facilitating cables placement

Fibrain patchcord management for PST-A1 telescopic patch panel

FB2030G.V2P

📄 Description

→ Fibrain patchcord management for PST-A1 telescopic patch panel offers simple and useful way of gathering and storage patchcords overlength. FB2030G.V2P is mounted on front plates of PST-A1 patch panel (there is no need to add extra 1U height). Front plate with possibility to mount patchcors using velcro tape.

Technical specification

	FB2030G.V2P
Height [mm]	35
Width [mm]	423 (19")
Depth [mm]	77
Casing material	Powder coated steel

❖ Applications

→ FTTH systems
→ Last mile distribution points
→ Last mile connection points

Ordering information

FB2030G.V2P	Fibrain patchcord management for PST-A1 telescopic patch panel

Features & benefits

→ Possibility of mounting on front plates of PST patch panel
→ Easy access to patchcords gathered
→ Faster installation at construction side
→ Front plate facilitating installation and management

Patchcords/cable's tube organizer

ORG-XX

19'' Horizontal cable organizer
with easily-opened plastic handles

ORG-VP-1U-B-V2

Clip

4-6 holders

Horizontal organizer

Features
→ 19'' mounitng
→ Powder painted steel
→ Equipped with 4 easily opened-handles
→ Possibility of installing 2 extra handles
→ Clear manufacturer marking
→ Possibility of using together with vertical organizers
→ Guarantee optimum cable arrangement

19'' Vertical cable organizer
with easily-opened plastic handles

ORG-HP-1U-B-V2

Clip

4 holder positions

Vertical organizer

Features
→ 1U mounitng
→ Powder painted steel
→ Equipped with 1 easily opened-handle
→ Possibility of using holder in 4 positions
→ Clear manufacturer marking
→ Guarantee optimum cable arrangement

Velcro tape
16x200 10 pcs

Fibrain velcro tapes	
ORG-CT-16200-BK black	**ORG-CT-16200-W** white

Features
→ Material: velour
→ Guarantee optimum cable arrangement
→ Pack of 10 pcs
→ Width: 16 mm - protected against excessive tightening
→ Resistant to multiple opening and closing
→ Colours facilitate cable identification

FIBRAIN

Cable tube divider RT-01-xx

Technical specification

	RT-01-0310	RT-01-1205	RT-01-2405
Max. number of protective pipes	3	12	24
Max. diameter of protective pipe [mm]	10	5	5
Max. diameter of fiber optic cable [mm]	14	14	18
Max. number of cable tube divider installed on Distribution Frame	8	8	4
Dimensions of a cable tube divider (w)x(h)x(l) [mm]	68 (with mounting) x 46 x 123 (no cable gland)	68 (with mounting) x 46 x 123 (no cable gland)	122 (with mounting) x 53 x 162.5 (no cable gland)
Operating temperature	-20°C – +50°C	-20°C – +50°C	-20°C – +50°C
Type of housing material	Powder painted steel	Powder painted steel	Powder painted steel

Ordering information

RT-01-0310	Fibrain cable tube divider equipped for mounting 3 protective pipes 10 mm
RT-01-1205	Fibrain cable tube divider equipped for mounting 12 protective pipes 5 mm
RT-01-2405	Fibrain cable tube divider equipped for mounting 24 protective pipes 5 mm
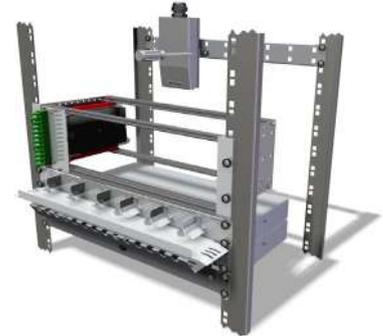
Additional accessories

DISTRIBUTION FRAME		
Distribution Frame for mounting cable tube divider	RT-L8-01-19	

PROTECTIVITE PIPES	
Protectivite pipe 10 mm	OR3F-MYDSN-10-10
Protectivite pipe 5 mm	OFPT-5.0-3.1-PP-WHT

RT-01-xx

📄 Description

→ Fibrain cable tube divider is specifically designed to provide branchings of fiber optic cables and guarantee cables' tube protection, which run from RT-01-xx cable tube divider mounted on a Distribution Frame or a Tube Overlength Drawer in signal distribution points, as well in server rooms.

→ Therefore, well-thought-out design provides easy and cost-effective method of mounting and cable installation.

❖ Applications

→ Nodal points of fiber optic networks

→ Distribution points of fiber optic networks

→ Server rooms and cable manufacturing centers

⬍ Features & benefits

→ Metal housing, protected against corrosion

→ Capacity up to 288 fibers

→ Prepared for installation

→ Simple and clear management of fiber optic tubes

A view of cable tube divider installed on distribution frame

FIBRAIN SCM-A-XX splice cassette

SCM-A-xx

Technical specification

	SCM-A-XX
Length	195 mm
Width	94 mm
Depth	9 mm
Capacity	up to 24 splices
Material	PC + ABS

Ordering information

SCM-A-00	Fibrain splice cassette with a possibility to mount Alubox splitters
SCM-A-12H	Fibrain splice cassette with a handle for 12 heat shrink splice protection sleeves
SCM-A-24H	Fibrain splice cassette with handles for 24 heat shrink protection sleeves

Cassette with an option to mount splitters

Cassette with an option for 12 fusion splices

Cassette with an option for 24 fusion splices
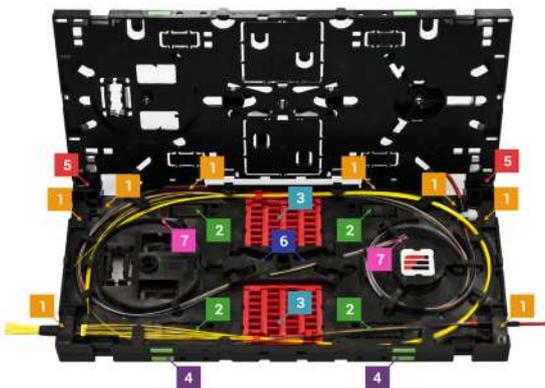
1	Various arrangements of side entry ports
2	Various arrangements of lower entry ports
3	Exchangeable handles for splices
4	Identification icons
5	Hinges ensuring multi-storage of cassettes
6	A change of direction in placing a fiber
7	Possibility of storage extra length of fiber

Description
→ Fibrain SCM-A-XX fiber optic splice cassette is an element used in fiber optic equipment such as cabinets, fiber optic modules to guarantee storage of extra length of fiber and protect splices in specifically designed handles. Optimized shape of cassette facilitates effective placement of fibers. Therefore, thanks to exchangeable handles for splice protection sleeves, the cassette is suitable for various techniques of splicing fibers. Furthermore, the tubes' handles and in-built hinges facilitate mounting the cassettes and their multi-storage placement.

Applications
→ Nodal points of fiber optic networks
→ Distribution points of fiber optic networks

Features & benefits
→ Capacity up to max. 24 splices
→ Simple access to fibers' organizer
→ Exchangeable handles for splices
→ Combining cassettes with the use of in-built hinges
→ Possibility of changing a fiber placement
→ Facilitated mounting of fiber optic cable's tube
→ Possibility of placing a fiber from a lower side of the cassette
→ Easy identification of a cassette with the use of colorful icons
→ Possibility of mounting splitters in Alubox housing

Additional accessories

Serial no.	Description
FB7422	Splice protector 45 mm

FB7422

FIBRAIN

FIBRAIN SCM-B-12H splice cassette

Technical specification

	SCM-B-12H
Length [mm]	148
Width [mm]	109
Depth [mm]	5.5
Capacity [mm]	max. 12 splices

1	Side input/output ports
2	Built-in handles for splicers
3	Identification icons
4	Labeling field
5	Possibility of mount. optical splitter in Alubox casing
6	A change of direction in placing a fiber
7	Possibility of storage extra length of fiber
8	Mounting place for tube of the fiber optic cable
9	Mounting place for fiber holder
10	Side handles
11	Locking latches
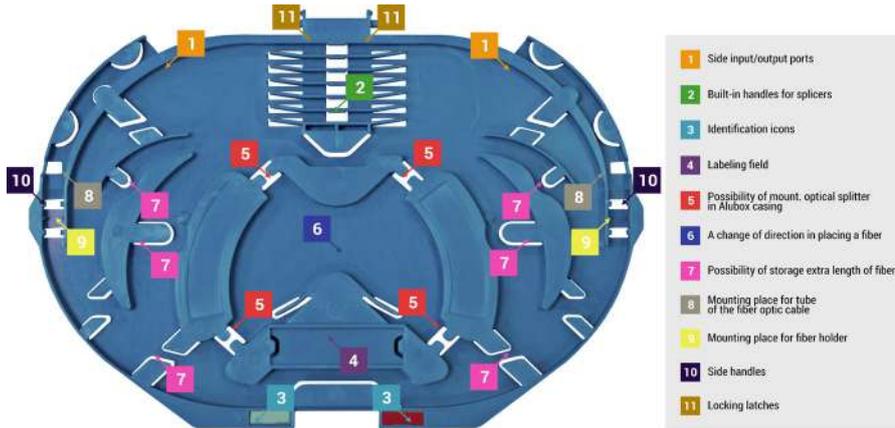
Ordering information

SCM-B-12H	Fibrain oval splice cassette with build-in handle for 12 heat shrink protection sleeves and possibility to mount Alubox optical splitter

SCM-B-12H cassette

Splice cassette SCM-B-12H with 1x8 optical splitter in Alubox housing

Description

→ Fibrain SCM-B-12H fiber optic splice cassette is an element used in fiber optic equipment such as cabinets, fiber optic modules to guarantee storage of extra length of fiber and protect splices in specifically designed handles. Optimized thickness and oval shape of cassette facilitates effective placement of fibers. Splice cassette SCM-B-12H has possibility to mount Alubox optical splitter.

Applications

→ Nodal points of fiber optic networks
→ Distribution points of fiber optic networks

Features & benefits

→ Capacity up to max. 12 splices
→ Simple access to fibers' organizer
→ Possibility of changing a fiber placement
→ Labeling field
→ Facilitated mounting of fiber optic cable's tube
→ Easy identification of a cassette with the use of colorful icons
→ Possibility of mounting splitters in Alubox housing

Additional accessories

Serial no.	Description
FB7442	Splice protector 45 mm

FB7442

Description
SCM-B-12H splice cassette holder

COMING SOON

Heat-shrink splice protection sleeves

SPLICE PROTECTION

Technical specification

	FB7441	FB7442
Length of splice protector after shrink L [mm]	60	45
Length of wire reinforcement L_d [mm]	57	41
Diameter of splice protector after shrink D [mm]	2	2
Diameter of wire reinforcement D_d [mm]	0.75	0.75
Diameter of the through hole before shrink d [mm]	1.2	1.2

Ordering information

FB7441	Heat-shrink splice protection sleeves 60 mm
FB7442	Heat-shrink splice protection sleeves 45 mm

Also available

FB7445 ANT crimp splice prtector

Description

→ Fibrain FB7442 heat-shrink splice protection sleeves provide high protection during splicing process. They can be characterized by small inner diameter (diameter after shrink D=2.0 mm), optimal length and fast installation. Therefore, the heat-shrink sleeve is strengthened with a steel pin of 0.75 mm diameter and the same coefficient of heat expansion as optical fiber. It prevents from longitudinal stresses, which cause an increase of insertion and reflection loss. Fibrain heat-shrink sleeves do not cause any loss of optical power as they protect against mechanical damages, pollution and weather conditions. Therefore, the outer material guarantees sustainability and resistance to stretching and puncture.

Applications

→ Teleco mmunications systems
→ FTTH networks
→ Access and structured cable networks
→ FTTx networks
→ PON networks
→ CATV networks

Features & benefits

→ Small outer diameter
→ Strengthened by a pin of Dd = 0.75 mm diameter
→ In accordance with UL224, MIL-I-23053, GR-1380-CORE, ZN-96 TPSA-006 norms
→ Transparent sleeve
→ Max. shrink time: 40 s
→ In accordance with RoHS Directive

FIBRAIN

Wall mounted distribution indoor

Topology of fiber network also provides the installation of fiber optic cable ends in wall cabinets that are solutions specifically designed for mounting directly indoor.

Indoor
cabinet

Quite often, these are low- fiber capacity solutions and used anywhere where there is no possibility or purpose of mounting rack cabinet. Therefore, this type of solutions are frequently used in FTTx networks.

Primal duct

VFTO-E1 Customer Outlet

Description

→ VFTO-E1 customer outlet is specifically designed for FTTH networks as a termination point of an optical duct for max. 4 optical fibers in various home and business networks. The outlet facilitates placing and connecting cables with 2 x SC or 4 x LC pigtails with the use of splices in a cassette. Connectors can be of PC and APC standard with inner and outer shutters. In case of mounting adapters, flangeless adapters should be used.

Applications

→ Distribution network
→ FTTH networks with EAC cables
→ Last mile connections
→ Termination of FTTH networks

Features

→ Compact and innovative design
→ Indoor applications
→ Wide range of fiber optic adapters
→ Description field for adapters on a top part of an outlet with a transparent flip cover
→ Available in a customer option (*lower labour costs)
→ Possibility to personalize the outlet(logo)
→ Possibility to mount on a DIN rail
→ Adapter facilitates the mounting on a wall

TECHNICAL SPECIFICATIONS	
Material:	ABS UL94-V0
Dimensions (w)x(h)x(d) [mm]:	85x85x28
Temperature:	-20ºC – +50ºC
Protection level:	indoor applications IP40/IK05
Mounting:	indoor, wall, rail (DIN standard)
Cassette capacity:	4 fusion, 2 mechanical or 4 ANT splices
Fiber type:	15 mm bending radius, compatible with A1, A2, A3, B2, B3 standards
Length of extra fiber:	900 µm – 100 cm fiber in an outlet 250 µm – 200 cm fiber in an outlet
Entry ports:	1 entry port in each part of the outlet (1 port on a side) entries from outer part of an outlet (mounting on a flush mount box) all entry ports are defined by removing a blind adapter max. diameter of cables: 4 mm

Ordering information

Code	Description
VFTO-E1-BL-0	FIBRAIN customer outlet in VFTO-E1 option, no logo, not equipped, no mounting adapter on a DIN rail

LOGO	
Code	Description
BL	no logo
FB	FIBRAIN logo
XX	Operator's logo (details concerning printing and number of colours need to be determined individually)

SUPPORT FOR VFTO-E1 OUTLET	
Code	Description
0	none
1	VFTO-E1-SUP-1
2	VFTO-E1-DIN-1

FIBRAIN

Ordering information

VFTO-E1-AA-B-CDE-FGH

AA – Cover logo	BL	without logo
	FB	with Fibrain logo

C– Type of hinged management plate	0	none
	1	VFTO-E1-SUP-1
	2	VFTO-E1-DIN-1

C – Number of FO adapters	0 – 2	

D – Adapter class	1	Standard One-Piece,
	2	Premium Super One-Piece
	3	Premium One-Piece with internal shutter
	4	Premium One-Piece with outer shutter
	5	Premium (applies for E2000)

E – Type of FO adapter (only flangeless)	0	none
	1	SC/PC
	2	SC/APC
	3	E2000/PC (standard type)
	4	E2000/APC (standard type)
	5	LC DX
	6	LCA DX

F – Pigtail number	0 – 4	

G – Fiber type	D	G.657A1
	E	G.657A2
	F	G.657B2
	G	G.657B3

G – Fiber type	G	Gold
	T	Titanium

Example

VFTO-E1-BL-1-122-1DG Fibrain VFTO-E1 customer outlet with one premium adapter with inner shutter SC/APC SX with pre-installed SM G.657A1 pigtail and adapter for DIN rail.

To order a non-standard option, please contact with our Sales Department.

BU-XN Fibrain wall-mounted fiber optic box

✓ PATENT PENDING

🗐 Description

→ Fibrain BU-XN is a compact wall-mounted fiber optic box designed for flexibility during installation as well as customization options due to its modular design. Single box can acco mmodate up to 12 splices or be equipped in 5 adapters. A characteristic feature of BU-XN is the possibility of aggregating in segments and extension also on customer's premises. BU-XN as a distribution point enables uncut cable installation and branching of the optical fiber in three direc ions. The construction of the housing inside provides wide range of fiber organization as well as the assembly of the Alubox splitter type. As a standard, it is equipped with cable glands with zip ties and mounting dowels.

❖ Applications

→ Indoor distribution box for FTTH network

→ Inspection window

⸬ Features & benefits

→ Housing material PC+ABS – ensures high mechanical resistance

→ Light and compact design

→ Optional splice holders for 6 splices

→ Optional panel for 5 adapters

→ Possibility of mounting Alubox PLC splitters in splice holder

→ Dedicated mounting points for inline and drop cable

→ Possibility of installation up to 8 drop cables

→ Maximum 2 splice holders per box

Technical specification

	IFDB-E0
Maximum splices number	12
Maximum adapters number	5
FO adapter type (flangeless only)	SC, LC
Max. cable diameter	
inline cable port	Ø 15 mm
drop cable port	Ø 5 mm
Dimensions (W)x(H)x(D) [mm]	72x160x29
Temperature range	20°C do +50°C
Housing material	PC + ABS
Splice holder material	PP
Adapter panel material	PC + ABS
Ingress protection	IP44

Additional equipment

	Adapters (flangless type)	AXXX-XX
	Adapter panel (for 5 adapters)	BU-XN-AP
	Splice protection sleeves	FB7442
	Splice holder (for 6 splices)	BU-XN-SH

BU-XN Fibrain wall-mounted fiber optic box

✔ **PATENT PENDING**

View of housing equipped in adapter panel and SCA adapters
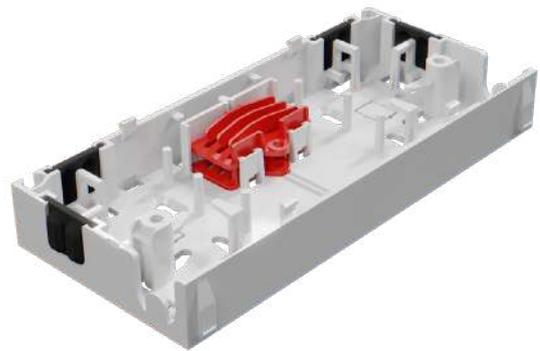
View of housing equipped in two splice holders

Ordering information

BU-XN-ABCD-EFF-GG

AA – Adapter qty	0	none
	1	equipped
B – Number of FO adapter	0-5	
C – Adapter type	1	Standard One-Piece
	2	Premium One-Piece with internal shutter
D – Type of FO adapter (flangeless):	0	none
	1	SC/PC
	2	SC/APC
	3	LC/PC
	4	LC/APC

E – Number of splice holder:	0 – 2	
FF – Number of protection sleeve:	0 – 12	
GG – Pigtail grade	G	Gold
	T	Titanium
GG – Housing colour	WH - white	

Note: box can not be equipped in adapter panel and splice holder simultaneously.

Example

BU-XN-1512-000-WH   FIBRAIN BU-XN wall mounted fiber optic box equipped in adapter panel, 5x SCA Standard adapter, white housing.

To order a non-standard option, please contact with our Sales Department.

WALL MOUNTED DISTRIBUTION INDOOR

FTTH IFDB-D0-x cabinet

Description

→ IFDB-D0-x cabinet is a multi-storey distribution point for optical fibers installed with the use of FTTH fiber optic system. Two-piece cabinet design provides flexible organization of the fibers and DROP cable inside a cabinet. It is equipped with a demountable organizer with a new splice cassette. The cabinet is equipped with the rack for 12 adapters of SC simplex opening, which provides the possibility of installing patchcords terminated with connectors and the rack for cable stock. Thanks to numerous stampings we can arrange fibers which are taken from splitter/ splitters and drop cables. Lead-in cables provide placing the bundle of drop cables and internal cable in a flexible way. There is also a possibility of placing a cable/cables by using openings in the side walls of the cabinet. The cabinet capacity is up to 12 splices.

Applications

→ Distribution point of the FTTH network inside the building

Features & benefits

→ Compact, a wall cabinet providing the installation on the small area inside the apartment-buildings or offices

→ Available in a version for 48 subscribers

→ Prepared to install the splitters

→ Prepared to place cables and micropipes

→ Possible welds: cable lines – splitter, cable line – cable line, splitter – drop cable, EAC cable – splitter

→ Optional stock cable in frame

→ Cabinet mounting with the use of wall plugs

Technical specification

	IFDB-D0-X
Max. number of fibers	12
Max. number of splices	12
Max. number of users	12
Max. number of adapters	12
Max. cable diameter [mm]	15
Max. number of entry cables	6
Cabinet dimensions (width)x(height)x(depth) [mm]	305x205x40
Type of easy access cables	Distribution cables, Drop Cables, Easy Access Cables, Breakout Cables, Mini Breakout Cables
Working temperature	-20°C - +50°C

Additional equipment

Adapters:	according to CONNECTIVITY'16 catalogue
Splitters:	FPLC-xx in AluBox housings
Pigtails:	according to CONNECTIVITY'16 catalogue

Ordering information

IFDB-D0	Fibrain IFDB cabinet in the D0 version with lead-in cables and a 12-splice cassette
IFDB-D0-12-12-2-13	Fibrain IFDB cin the D0 version equipped with 12 adapters and SCA pigtails, one PLC 1x8 splitter in the AluBox housing

Number of installed adapters:	1-12
Number of installed pigtails:	1-12
Type of an adapter:	1 – SC 2 – SCA 3 – E2 4 – E2A
Splitters qty: first digit	1 – one, 2 – two, etc;
Second digit (splitter division):	1 – 1:2, 2 – 1:4, 3 – 1:8, 4 – 1:16;

FIBRAIN

WALL MOUNTED DISTRIBUTION INDOOR

IFDB-E0 FTTH cabinet

Description

→ IFDB-E0-x cabinet is a multi-storey distribution point for optical fibers installed with the use of FTTH fiber optic system. Cabinet design provides flexible organization of the fibers and DROP cable inside a cabinet. It is equipped with a demountable organizer with a new splice cassette. The cabinet is equipped with a demountable plate 12 adapters of SC simplex footprint adapters, which provides the possibility of installing patchcords terminated with connectors. IFDB-E0 cabinet is equipped with 4 handles for making cables stock. Thanks to special handles we can arrange fibers which are taken from splitter/ splitters and drop cables. Lead-in cables provide placing the bundle of drop cables and internal cable in a flexible way. There is also a possibility of placing a cable/cables by using openings in the side walls of the cabinet. The cabinet capacity is up to 24 splices.

Technical specification

	IFDB-E0
Max. number of fibers	24
Max. number of splices	24
Max. number of adapters	12 @SC SX footprint
Max. cable diameter [mm]	11
Max. number of entry cables	6
Cabinet dimensions (width)x(height)x(depth) [mm]	253x250x72
Type of easy access cables	Distribution cables, Drop Cables, Easy Access Cables, Breakout Cables, Mini Breakout Cables
Working temperature	-20°C - +50°C
Type of housing material	Powder painted steel

Applications

→ Distribution point of the FTTH network inside the building

Features & benefits

→ Compact, a wall cabinet providing the installation on the small area inside the apartment-buildings or offices

→ Available in a version for 48 subscribers

→ Prepared to install the splitters

→ Prepared to place cables and micropipes

→ Possible welds: cable lines – splitter, cable line – cable line, splitter – drop cable, EAC cable – splitter

→ Optional stock cable in frame

→ Cabinet mounting with the use of wall plugs

Additional equipment

Adapters:	according to CONNECTIVITY'16 catalogue
Splitters:	FPLC-xx in AluBox housings
Pigtails:	according to CONNECTIVITY'16 catalog
Splice cassette	SCM-A-24H

Ordering information

IFDB-E0	Fibrain IFDB cabinet in the E0 version

Equipped version of IFDB-E0 cabinet according to DSH – please contact with our Sales Department.

FTTH IFDB-F0 cabinet

IFDB-D0-x

Description

→ Fibrain IFDB-F0-x cabinet is a multi-storey distribution point for optical fibers installed with the use of FTTH fiber optic system. Cabinet design provides flexible organization of the fibers and DROP cable inside a cabinet. It is equipped with a demountable fiber organizer and splicing cassette. Thanks to special handles we can arrange fibers which are taken from splitter/ splitters and drop cables. Lead-in cables provide placing the bundle of drop cables and internal cable in a flexible way. There is also a possibility of placing a cable/pipe up to 30 mm by using 6 openings in the side walls of the cabinet.

Technical specification

	IFDB-D0-X
Height [mm]	370
Width [mm]	400
Depth [mm]	110
IP protection	IP50
Impact protection	IK10
Cabinet material	Powder painted steel

Applications

→ Distribution point of the FTTH network inside the building

Features & benefits

→ Capacity up to 48 splices

→ Possibility of installation of Alubox splitters (4pcs of 1:4,1:8 inside the splice trays and 1pcs of 1:32 on special hanger)

→ Limited access due to a system lock

→ Internal perforation for cable management

→ Prepared to place drop cables and inline cable

→ Removable front door with possibility to mount as left/right

→ Plate for 38 SC SX adapters

→ Cable strain relief

FIBRAIN

FTTH IFDT-B0-x cabinet

Description

→ IFDT-B0-x cabinet is specifically designed to serve as a distribution point for optical fibers installed with the use of FTTH networks, it provides optimized placement of fibers inside the cabinet. Therefore, it is divided into two parts: a user and cable line, which are separated by the locks. The user part is equipped with an area to place spare optic fibers connectors which are disconnected. Thanks to numerous curves, we are able to provide optimized placement of the fibers, which come from a splitter/ splitters and the tubes from the cable line. Moreover, the splitters can be mounted easily and quickly inside the cabinet, regardless of their size. Additionally, entry ports provide the possibility to place installation pipes, which are used in in-house installations. The cabinet's capacity is varied from the switching field which is a demountable element and can have from 12 up to 48 fibers. The internal part of the cabinet has an organizer for documents. An additional cable hanger for fiber optic and Drop cable is an optional element of the IFDT cabinet which is mounted on the back side of the cabinet.

Technical specification

	IFDT-B0-24-X	IFDT-B0-48-X
Max. number of fibers	48	48
Max. number of splices	48	48
Max. number of users	24	48
Max. cable diameter [mm]	18.6	18.6
Cabinet dimensions (width)x(height)x(depth) [mm]	390x315x110(175)*	390x315x110(175)*
Type of cable	DropCables, DropTube, Easy Access Cable	DropCables, DropTube, Easy Access Cable
Working temperature	-20°C - +50°C	-20°C - +50°C
Type of housing material	Powder painted steel	Powder painted steel

*the cabinet's depth with the cable stock frame

Applications

→ Distribution point of the FTTH network

Features & benefits

→ Thanks to optimized size of cabinet, it can be mounted inside offices and houses

→ Available in 2 versions for 24, 48 users

→ Two-part design- line and users

→ Prepared to install splitters

→ Prepared to place brand new cables and micropipes

→ Locks protect the cabinet's parts;

→ Possibility of performing the splices: cable lines- splitter, cable lines - cable lines, splitter – Drop cables, EAC cable – splitter

→ An optional cable/cables hanger placed inside the cabinet

→ Mounting the cabinet with a use of nail expansion anchors

Additional equipment

Adapters	according to CONNECTIVITY'16 catalogue
Cassettes:	FB7401PP, FB7401.2PP + clips to connect the cassettes FB7401.5 (4pcs in case of connecting two cassettes)
Splitters:	FPLC-xx in BlackBox and AluBox housing
Cable glands:	DŁxx depending on the diameter of the inserted cables
Cable hanger:	SZB-A-IFDT-B0

FIBRAIN

FTTH IFDT-B0-x cabinet ordering information

Ordering information

IFDT-B00-48	Fibrain IFDT cabinet of B0 version with a panel for 48 SC simplex adapters, 2 cassettes 24 splices, not equipped, without a cable hanger
IFDT-B0Z-48	Fibrain IFDT cabinet of B0 version with panel for 48 SC simplex adapters, 2 cassettes 24 splices, not equipped, without a cable hanger
SZB-A-IFDT-B0	Fibrain cable hanger for IFDT-B00 cabinet
IFDT-B0Z-24-48-2-32-1125-0DT-B0Z-24-48-2-32-1125-0	Fibrain IFDT cabinet of B0 version with a 48-port panel, equipped with 48 SCA adapters, 3 cassettes of 24 splices, 1x32 splitter in a Blackbox housing terminated with connectors and a cable hanger

Number of ports in a panel:	24 ports
	48 ports
Number of installed adapters:	1-48 (depending on number of ports)
Adapter type:	1 – SC, 2 – SCA, 3 – E2, 4 – E2A, 5 – LC DX, 6 – LCA DX
Cassettes	
first digit (number):	1 – one, 2 –two, 3 – three;
second digit (cassette type):	1 – 12 splices, 2 – 24 splices
Spliters:	
first digit (number):	1 – one, 2 – two, 3 – three, etc;
second digit (splitters terminated with connectors):	0 – not terminated, 1 – terminated with connectors in accordance with adapter standard;
third digit (splitter housing):	1 – AluBox housing, 2 – BlackBox housing;
fourth digit (spliter divison):	1 – 1:2, 2 – 1:4, 3 – 1:8, 4 – 1:16, 5 – 1:32, 6 – 1:64;
Number of cable glands:	1-8

Description

→ IFDT-B0-x cabinet is specifically designed to serve as a distribution point for optical fibers installed with the use of FTTH networks, It provides optimized placement of fibers inside the cabinet. Therefore, it is divided into two parts: a user and cable line, which are separated by the locks. The user part is equipped with an area to place spare optic fibers connectors which are disconnected. Thanks to numerous curves, we are able to provide optimized placement of the fibers, which come from a splitter/ splitters and the tubes from the cable line. Moreover, the splitters can be mounted easily and quickly inside the cabinet, regardless of their size. Additionally, entry ports provide the possibility to place installation pipes, which are used in in-house installations. The cabinet's capacity is varied from the switching field which is a demountable element and can have from 12 up to 48 fibers. The internal part of the cabinet has an organizer for documents. An additional cable hanger for fiber optic and Drop cable is an optional element of the IFDT cabinet which is mounted on the back side of the cabinet.

Applications

→ Distribution point of the FTTH network

Features & benefits

→ Thanks to optimized size of cabinet, it can be mounted inside
→ offices and houses;
→ Available in 2 versions for 24, 48 users;
→ Two-part design- line and users;
→ Prepared to install splitters;
→ Prepared to place brand new cables and micropipes;
→ Locks protect the cabinet's parts;
→ Possibility of performing the splices: cable lines- splitter, cable lines - cable lines, splitter – Drop cables, EAC cable – splitter;
→ An optional cable/cables hanger placed inside the cabinet;
→ Mounting the cabinet with a use of nail expansion anchors

FTTH IFDT-C0-x cabinet
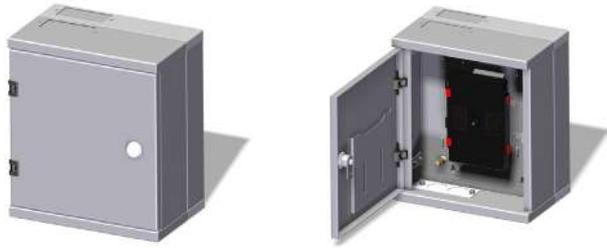
Description

→ The IFDT-C0-x cabinet is dedicated as a distribution point for the optical fibers installed with the use of FTTH optical fibers systems.

→ It provides the organisation of the fibers inside the cabinet in a economic and a flexible way. Splitters can be assembled quickly in the cabinet, regardless of their mountings. Entrance ports provide the possibility to organise installation pipes used in the indoors installations. Inside the cabinet 48 fibers can be placed. The internal part of the cabinet is equipped with a document pocket. An optional element is an extra frame with the place for the line and drop cable stock, mounted at the back of the cabinet.

Applications

→ Distribution point of the FTTH network inside the building

Technical specification

	IFDT-C0-X
Max. number of fibers	48
Max. number of splices qty	48
Max. number of users	48
Max. cable diameter [mm]	18,6
Cabinet dimensions (width)x(height)x(depth) [mm]	270x315x110(175)*
Type of easy access cables	DropCables, DropTube, Easy Access Cable
Working temperature	-20°C - +50°C
IP protection	IP54
Housing type	Powder coating steel

*the cabinet's depth with the cable stock frame

Features & benefits

→ Compact, a wall cabinet providing the installation on the small area inside the apartment-buildings or offices

→ Available in a version for 48 subscribers

→ Prepared to install the splitters

→ Prepared to place cables and micropipes

→ Possible welds: cable lines – splitter, cable line – cable line, splitter – drop cable, EAC cable – splitter

→ Optional stock cable in frame

→ Cabinet mounting with the use of wall plugs

Additional equipment

Cassettes:	FB7401PP, FB7401.2PP + clips connecting the cassettes FB7401.5 (4 pieces for connecting two cassettes)
Splitters:	FPLC-xx in BlackBox and AluBox housings
Cable gland:	DŁxx depending on the cable diameter
Cable stock frame	SZB-A-IFDT-C0

Ordering information

IFDT-C00	Fibrain IFDT cabinet C0 version, not-equipped, without the cable stock frame
IFDT-C0Z	Fibrain IFDT cabinet C0 version, not equipped, with a cable stock frame
SZB-A-IFDT-C0	Fibrain Stock frame for the IFDT-C0 cabinet
IFDT-C0Z-12-124-0	Fibrain IFDT cabinet C0 version, equipped with a cassette of 24 welds, splitter 1x16 a BlackBox housing with not-terminated plugs and a cable stock frame

Cassettes	
first digit (number):	1 – one, 2 – two, 3 – three
second digit (cassette's type):	1 – 12 splices, 2 – 24 splices
Splitters:	
first digit (number):	1 – one, 2 – two, 3 – three, etc;
second digit (splitter's houisng):	1 – AluBox housing type, 2 – BlackBox housing type;
third digit (splitter's division):	1 – 1:2, 2 – 1:4, 3 – 1:8, 4 – 1:16, 5 – 1:32, 6 – 1:64;
Cable glands	
Number of cable glands	1-8 cable glands

FIBRAIN

Wall and aerial mounted distribution outdoor

The topology of fiber optic network sometimes defines fiber concentration points in outdoor cabinets installed on outside walls or (in case of aerial network) - on poles

Outdoor solutions can be also used to FTTx network construction, like indoor cabinets

Outdoor cabinet
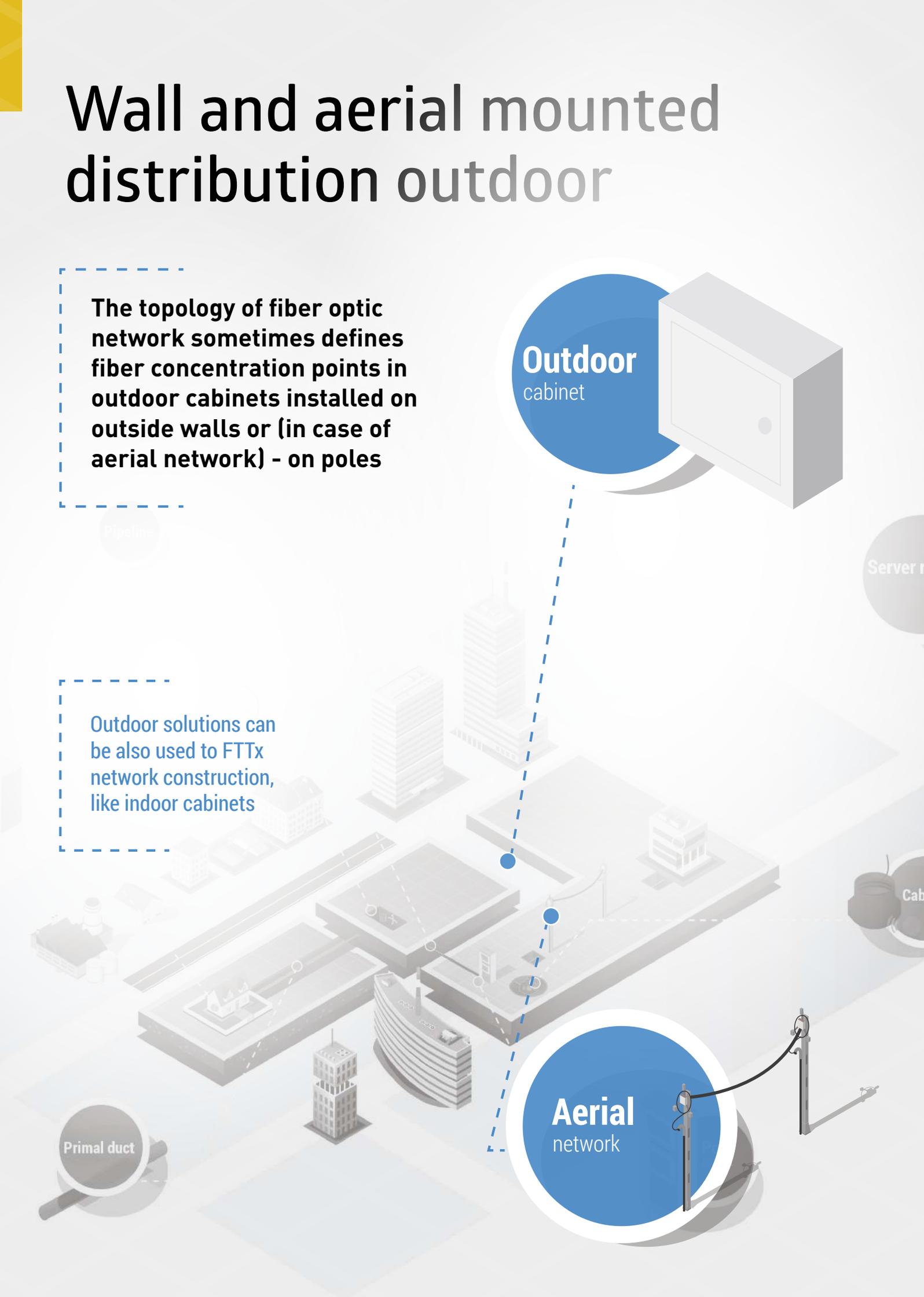
Aerial network

Pole Mounting Distributor OBP-S8

📄 Description

→ Fibrain Distributor Box OBP-S8 is dedicated for FTTH networks deployed in open aerial areas. The housing as a distribution point is designed to terminate up to 36 fibers. As a standard box is equipped with 1 splice tray (2 others can be ordered separately). The facility for fiber/tube management gives an opportunity for installation of splitters and passive optical converters. Pivot swivel box cover enables wide access to interior (it opens up to 140°) and additionally cover block mechanism guarantee comfortable installations and maintenance work for installers. Housing as a standard is equipped with cylinder lock.

❖ Applications

→ Distribution point for FTTH network
→ Municipal networks
→ Last mile

Technical specification

	OBP-S8
Max fiber number	36
Max adapters number in patch field holder	12
FO adapters type	SC/E2000
Max describer number	8
Max ø of entry cables:	2 x Ø12 mm
Configuration 1	8 x Ø4-10 mm
Configuration 2	16 x Ø6 mm
Dimensions (W)x(H)x(D) [mm]	225x255x86
Ambient temperature	-40°C ÷ +50°C
Closure material	PC + ASA
Splice tray material	ABS V0
Splice tray holder material	ABS V0
Ingress protection	IP54

⚙ Features & benefits

→ Great mechanical resistance due to robust closure material (PC + ASA)
→ Holder for pivot swivel splice trays
→ Optional patch field for up to 9 FO adapters (SC/E2000)
→ Possibility for fixation of AluBox closure PLC splitter (max 1:8) directly in splice trays or in splice tray holder
→ Cable plugs and/or central strength member clamp for installation cables
→ Up to 3 splice trays
→ Splice trays for up to 12 fibers
→ Optional dedicated cable reserve frame
→ Optional mounting kit for older Fibrain Cable reserve frames

Equipment and additional accessories of OBP-S8

Holder for SCM-B-12H cassette (max. 3 pcs) and adapter field

Cable mounting in/out for OBP-S8 indoor application

Handles for cables tube organization

Cable holder

Cable glands
1. 8-port for drop cables
2. Single port for line cable (max. 2 pcs)
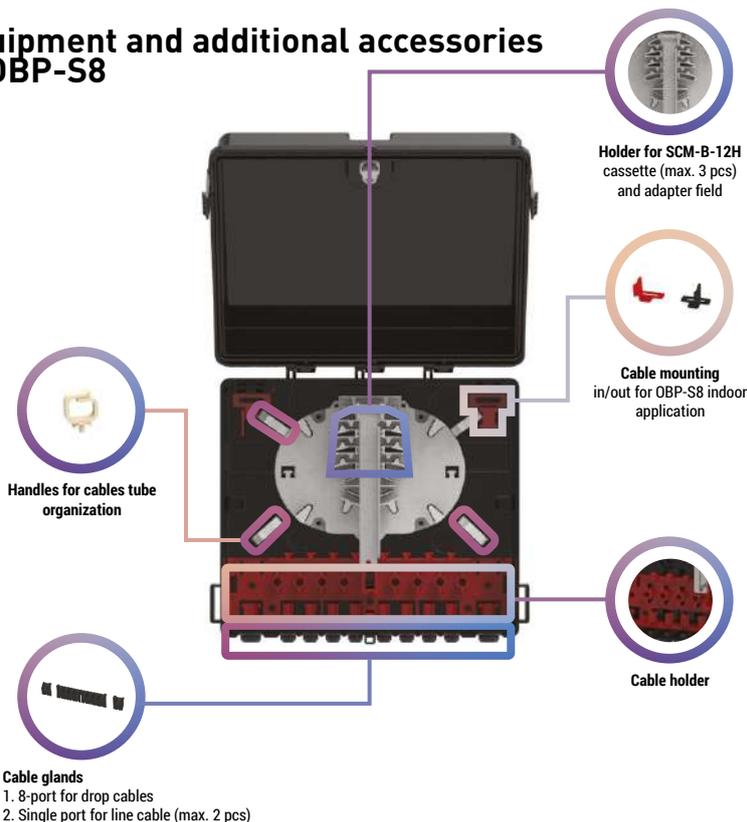
Ordering information

OBP-S8-ABC-DDEF-GHIJK-L-M-N-O-PP

A – Colour of first splice tray	1 – white with cover, 2 – blue with cover	
B – Occurrence and colour of second splice tray	0 – none, 1 – white, 2 – blue, 3 – white with cover, 4 – blue with cover	
C – Occurence and colour of third splice tray	0 – none, 1 – white, 2 – blue, 3 – white with cover, 4 – blue with cover	
DD – Number of FO adapters	0 – 12	
E – Adapter class	1	Standard One-Piece,
	2	Premium Super One-Piece
	3	Premium One-Piece with internal shutter
F – Type of FO adapter (only flange)	0	none
	1	SC/PC
	2	SC/APC
	3	E2000/PC (standard type)
	4	E2000/APC (standard type)
G – Splitters number	0 – none, 1 – one, 2 – two, 3 – three, 4 – four	
H – Split of 1st splitter	0 – none, 1 – 1:2, 2 – 1:4, 3 – 1:8	
I – Split of 2nd splitter	0 – none, 1 – 1:2, 2 – 1:4, 3 – 1:8	
J - Split of 3rd splitter	0 – none, 1 – 1:2, 2 – 1:4, 3 – 1:8	
K – Split of 4th splitter	0 – none, 1 – 1:2, 2 – 1:4, 3 – 1:8	

L – Cable reserve frame	0	none
	1	yes
M – Adapter panel	0	none
	1	9xSC SX
	2	12xSC SX
N – Cable holders (for OBP-S8 indoor application)	0	none
	1	yes
O – Cylinder lock type	N	notch type
	T	triangle type
	K	square type
PP – Quantity of SCM-A splice cassettes:	BK – black	

* Please consider maximum adapter capacity of hinged management plate

** For W1 management plate splitter installation is possible only using splice cassette with holder for 12 protection sleeves (1 cassette SCM-A-12H = 12 splices and 1 splitter).

OBP-S8-211-0912-22200-1-1-0-N-BK Fibrain distribution box OBP S8 equipped with 3 trays for 12 splices each (1x blue, 2x white), 9xSC/APC standard adapters, 2xAluBox splitters (1x4 each), cable reserve frame, panel for 9 adapters, notch type cylinder lock, black housing

To order a non-standard option, please contact with our Sales Department.

Example

OBP-S8W Distribution Box

OBP-S8

Technical specification

	OBP-S8W
Max splice number	72
Max adapter number	18
FO adapters type	SC/E2000
Max cable diameter	2 xØ16 mm
Configuration 1	8 x Ø4-10 mm
Configuration 2	16 x Ø6 mm
Dimensions (W)x(H)x(D) [mm]	225x255x86
Temperature range	-40°C do +50°C
Closure material	PC + ASA
Splice tray material	ABS V0
Splice tray holder material	ABS V0
Ingress protection	IP54
Ingress protection	IP55

Optional equipment

	OBP-S8W
FO Adapters	Axxx-xx
Splitters	FPLC-xx in AluBox closure
Pigtails	G-xx, T-xx
Cable reserve frame	
Galvanized	SZ-D-S8-ZN
Galvanized and painted	SZ-D-S8-ZN-P
Mounting kit for old Cable reserve frames	225x255x86
Splice tray	SCM-A-x
Patch field holder	
Key – for triangle type cylinder lock	FB-KL-K-7
Key – for square type cylinder lock	FB-KL-K-7

Triangle type **Square type** **Notch type**

🔖 Description

→ Fibrain Distribution box OBP-S8W is dedicated for FTTH networks deployed in open aerial areas. It is equipped with hinged fiber/tube management plate with possibility of installation up to 18 SC SX adapters and SCM-A splice cassette. The housing as a distribution point is designed to terminate up to 72 fibers. The facility for fiber/tube management gives an opportunity for installation of splitters and passive optical converters. Pivot swivel box cover enables wide access to interior (it opens up to 140°) additionally cover block mechanism guarantee comfortable installations and maintenance work for installers. Housing as a standard is equipped with cylinder lock.

❖ Applications

→ Distribution point for FTTH network
→ Municipal networks
→ Last mile

Features & benefits

→ Great mechanical resistance due to robust closure material (PC + ASA)
→ 3 types of hinged management plates with up to 18 adapters (SC, E2000)
→ Up to 3 SCM-A splice cassettes (24 splices per tray)
→ Possibility of installation Alubox splitters (special holder for up to 4 splitters in W2 and W3 plates)
→ Cable plugs and/or central strength member clamp for installation cables
→ Optional dedicated cable reserve frame

View of OBP-S8W Distribution Box with hinged W1 management plate for 12 adapters.

View of OBP-S8W Distribution Box with hinged W2/W3 management plate for 18/16 adapters.

Ordering information

OBP-S8W-A-BC-DDEF-GHIJ-K-L-M-NN

A – Type of hinged management plate	1	management plate W1 for max 12 adapters
	2	management plate W2 for max 18 adapters
	3	management plate W3 for max 16 adapters

B – Quantity of SCM-A splice cassettes:	0 – 3

C– Type of hinged management plate	1	SCM-A-12H splice cassette with holder for 12 protection sleeves
	2	SCM-A-24H splice cassette with holder for 24 protection sleeves

DD – Quantity of SCM-A splice cassettes	0 – 18

E – Adapter class	1	Standard One-Piece
	2	Premium Super One-Piece
	3	Premium One-Piece with internal shutter

F – Adapter class	0	none
	1	SC/PC
	2	SC/APC
	3	E2000/PC (standard class only)
	4	E2000/APC (standard class only)

G – Splitters quantity**	0 – 4

H – Split of splitter #1	0 – none, 1 – 1:2, 2 – 1:4, 3 – 1:8; 4 – 1:16

I – Split of splitter #2	0 – none, 1 – 1:2, 2 – 1:4, 3 – 1:8; 4 – 1:16

J – Split of splitter #3:	0 – none, 1 – 1:2, 2 – 1:4, 3 – 1:8; 4 – 1:16

K – Cable reserve frame	0	none
	1	yes

L – Cable holders for indoor application	0	none
	1	yes

M – Cylinder lock type	N	notch type
	T	triangle type
	K	square type

B – Quantity of SCM-A splice cassettes:	BK – black

* Please consider maximum adapter capacity of hinged management plate

** For W1 management plate splitter installation is possible only using splice cassette with holder for 12 protection sleeves (1 cassette SCM-A-12H = 12 splices and 1 splitter).

Example

OBP-S8W-2-31-1812-3222-1-0-T-BK

Fibrain distribution box OBP-S8W equipped in W2 management plate for 18 adapters, 3 splice trays for 12 splices, 18 standard SCA adapters, 3 Alubox splitters with split 1:4, 1:4 ,1:4, cable reserve frame, triangle type cylinder lock, black housing.

To order a non-standard option, please contact with our Sales Department.

Distribution cabinets outdoor

The structure of fiber-optic networks provides the use of external distribution points in the form of external cabinets. Depending on the topology, cabinets can have different capacity and inside organization of fibers.
They can be equipped with the standard solutions that can be found in Part 4.

Post
/cabinet
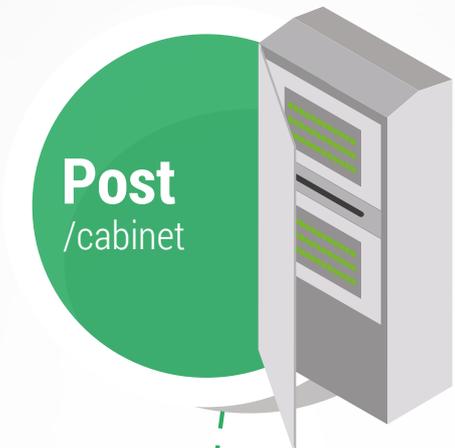
They can be made of composite or metal. Sometimes there can be solutions in which mounting active devices is necessary.
In this case, we use SCAB cabinets, whose design is based on a rack system that provides mounting standard accessories in the form of patch panels.

Post

DISTRIBUTION CABINETS OUTDOOR

FDH-Cx-x Outdoor cabinets

Technical specification

	FDH-C0-X	FDH-C1-X
Max. number of fibers	48	48
Max. number of splices	48	48
Max. number of subscribers	24	24
Max. number of adapters in organizer	27	27
Max. diameter of the fiber optic cable [mm]	9	10
Cabinet dimensions (w)x(h)x(d) [mm]	264x420x245	264x420x245
Cabinet's dimensions (w)x(h)x(d) [mm]	264x1308x245	264x1308x245
Type of connection set type	24x3/2.1	2x(12x5/3.5)
Length of connection set [m]	2.75	2.75
Type of entry cables	Microcables up to MK-LX8 Microbundles up to MK-AX2	Microcables up to MK-LX8 Microbundles up to MK-DX2
Type of foundation's filling	Expanded clay agregate	Expanded clay aggregate
Amount of filling per cabinet	18dm³ *	18dm³ *
Working temperature	-50°C to +40°C	-50°C to +40°C
Fla mmability category	FH2 – 7 mm	FH2 – 7 mm
Level of protection	IP44/IP54	IP44/IP54
Housing colour	RAL 7035	RAL 7035
Housing material	Polyester + fiberglass	Polyester + fiberglass

* The cabinet is delivered with appropriate amount of the filling

Additional equipment

Adapters	according to CONNECTIVITY'16 catalogue
Cassettes:	FB7401.2PP + a clip connecting the FB7401.5 cassettes (4pcs. when connecting 2 cassettes)
Splitters:	FPLC-xx in BlackBox and AluBox housings
Reduction connectors:	MT-ZR-0703 (FDH-C0-x), MT-ZR-0705 (FDH-C1-x)
Connection set:	MT-CS2403-xx (FDH-C0-x), MT-CS1205-xx (FDH-C1-x)
Pigtails:	according to CONNECTIVITY'16 catalogue

Description

→ Fibrain FDH-Cx-x outdoor cabinets are specifically designed for optical fibers distribution, which are placed in a duct or microduct system, and then distributed to end-users. Therefore, the optical fibers are constructed from flame retardant materials (polyester + fiberglass) which are resistant to weather conditions (UV). Moreover, the ventilation system minimizes the moisture accumulation. Thanks to simple construction and small size of the cabinets, they are perfect solutions for end points placed on the ground. The cabinets provide the possibility to perform connections between cables/microcables and drop cables or bundle of microfibers due to an organizer, which can contain up to 27 adapters with SC SX openings. Also, extra cables/microcables for the use in the future, can be placed inside the cabinet. Despite small size of the cabinet, a lot of cables can be installed inside, and therefore a demountable construction such as a top/back part or a base of the cabinet provides easy access to the inside equipment.

Applications

→ Outdoor redistribution point of the FTTH network
→ Local networks
→ Last mile networks
→ Optical fiber microduct system

Features & benefits

→ Constructed from material which guarantees high mechanical durability
→ Available in a version for 24 subscribers
→ Moveable two-section organizer
→ Place for 27 adapters and PLC splitters in BlackBox or AluBox housings
→ Place for 2 cassettes- 24 fibers and a hanger for a cable/microcable or a connection set bundle
→ Cabinet protected by locks
→ Possibility of performing the splices: cable lines- cable lines
→ Performed to place cables and microcables

Ordering syntax for equipped FDH-Cx outdoor cabinets

FDH-XX-AABC-DE-FGHI-JJ-K

XX – Version of FHD-Cx cabinet	C0	FDH outdoor cabinet in C0 version
	C1	FDH outdoor cabinet in C1 version
AA – Adapters qty	**0-27**	
B – Adapter class	1 –	Standard One-Piece (applies to E2000/E2000 APC adapters too)
	2 –	Premium One-Piece with internal shutter
	3 –	Premium Super One-Piece
	4 –	Premium Super One-Piece with internal shutter
	0 –	Standard One-Piece (applies to E2000/E2000 APC adapters too)
	2 –	Premium One-Piece with internal shutter
	3 –	Premium Super One-Piece
	3 –	Premium Super One-Piece
	4 –	Premium Super One-Piece with internal shutter

D – Splice cassette qty	**0-2**	
E – Cassette type	0 –	none
	1 –	SCM-A-12H
	2 –	SCM-A-24H
	3 –	FB7401.2PP
F - Splitters qty	**1-4**	
G – Splitter type	0 –	not ended
	1 –	end with connectors in accordance with adapters' standards
H – Splitter housing	1 –	AluBox housing
	2 –	BlackBox housing
I – Splitter division	1 –	1:2
	2 –	1:4
	3 –	1:8
	4 –	1:16
	5 –	1:32
JJ – Reduction connectors qty	**0 – 24**	
K – Connection set	0 –	none
	1 –	one
	2 –	two

Example

FDH-C0-2712-22-3123-24-1   Fibrain FDH C0 cabinet equipped with 27 SC APC Standard One-Piece adapters, two cassettes of 24 splices, 3 splitters 1x8 in a BlackBox housing with connectors, 24 reduction connectors 7/3 and 1 connection set 24x3/2.1

To order a non- standard option, please contact with our Sales Department.

FDH-Dx-x Outdoor cabinets

📄 Description

→ Fibrain FDH-Dx-x outdoor cabinets are specifically designed for optical fibers distribution, which are placed in a duct or microduct system, and then distributed to end-users. Therefore, the optical fibers are constructed from flame retadant materials (polyester + fiberglass) which are resistant to weather conditions (UV). Moreover, the ventilation system minimizes the moisture accumulation. Thanks to simple construction and small size of the cabinets, they are perfect solutions for end points placed on the ground. The cabinets provide the possibility to perform connections between cables/microcables and drop cables or bundle of microfibers. Also, extra cables/microcables for the use in the future, can be placed inside the cabinet. Despite small size of the cabinet, a lot of cables can be installed inside, and therefore a demountable construction such as a top/back part or a base of the cabinet provides easy access to the inside equipment.

Technical specification

	FDH-D0-X	FDH-D1-X
Max. number of fibers	48	48
Max. number of splices	48	48
Max. number of subscribers	24	24
Max. diameter of the fiber optic cable [mm]	9	10
Cabinet dimensions (w)x(h)x(d) [mm]	264x420x245	264x420x245
Cabinet dimensions with basis (w)x(h)x(d) [mm]	264x1308x245	264x1308x245
Type of connection set type	24x3/2.1	2x(12x5/3.5)
Length of connection set [m]	2.75	2.75
Type of entry cables	Microcables up to MK-LX8 Microbundles up to MK-AX2	Microcables up to MK-LX8 Microbundles up to MK-DX2
Type of foundation's filling	Expanded clay agregate	Expanded clay aggregate
Amount of filling per cabinet	18dm³ *	18dm³ *
Working temperature	-50°C to +40°C	-50°C to +40°C
Fla mmability category	FH2 – 7 mm	FH2 – 7 mm
Level of protection	IP44/IP54/IK10	IP44/IP54/IK10
Housing colour	RAL 7035	RAL 7035
Housing material	Polyester + fiberglass	Polyester + fiberglass

* The cabinet is delivered with appropriate amount of the filling

❖ Applications

→ Outdoor redistribution point of the FTTH network

→ Local networks

→ Last mile networks

→ Optical fiber microduct system

ᚋ Features & benefits

→ Constructed from material which guarantees high mechanical durability

→ Available in a version for 24 subscribers

→ Moveable two-section organizer

→ Place for 2 cassettes- 24 fibers and a hanger for a cable/microcable or a connection set bundle

→ Cabinet protected by locks

→ Possibility of performing the splices: cable lines- splitter, cable lines- cable lines

→ Performed to place cables and microcables

→ Protection against moisture accumulation

Additional equipment

Adapters	according to CONNECTIVITY'16 catalogue
Cassettes:	FB7401.2PP + a clip connecting the FB7401.5 cassettes (4pcs. when connecting 2 cassettes)
Splitters:	FPLC-xx in BlackBox and AluBox housings
Reduction connectors:	MT-ZR-0703 (FDH-C0-x), MT-ZR-0705 (FDH-C1-x)
Connection set:	MT-CS2403-xx (FDH-C0-x), MT-CS1205-xx (FDH-C1-x)
Pigtails:	according to CONNECTIVITY'16 catalogue

Ordering syntax for equipped FDH–Dx outdoor cabinets

FDH-XX-A-BB-C

XX – Version of FHD-Dx cabinet	FDH outdoor cabinet in D0 version
	FDH outdoor cabinet in D1 version

A – Adapters qty	1-2

BB – Number of reduction connectors	0-24

C – ConnectionSet	**0 –** none
	1 – one
	2 – two

Example

FDH-D0-2-24-1   Fibrain FDH D0 cabinet equipped with two cassettes of 24 splices, 24 reduction connectors 7/5 and 2 connection sets 12x5/3.5

To order a non- standard option, please contact with our Sales Department.

DISTRIBUTION CABINETS OUTDOOR

FDH-Sx Outdoor cabinets

Technical specification

	FDH-S2	FDH-S3
Max. number of splices	96	144
Max. number of adapters in organizer	85	153
Max. number of splice trays	4	6
Max. number of splitters in BlackBox housing	6	9
Cabinet dimensions (w)x(h)x(d) [mm]	396x428x244	396x626x244
Cabinet dimensions with basis (w)x(h)x(d) [mm]	396x1304x244	396x1504x244
Type of foundation's filling	Expanded clay aggregate	Expanded clay aggregate
Length of connection set [m]	2.75	2.75
Type of entry cables	Microcables up to MK-LX8 Microbundles up to MK-AX2	Microcables up to MK-LX8 Microbundles up to MK-DX2
Type of foundation's filling	Expanded clay agregate	Expanded clay aggregate
Expanded clay aggregate	24 dm³ *	24 dm³ *
Working temperature	-50°C to +40°C	-50°C to +40°C
Fla mmability category	V0	V0
Level of protection	IP54	IP54
Housing colour	RAL 7035	RAL 7035
Housing material	Polyester + fiberglass	Polyester + fiberglass

* The cabinet is delivered with appropriate amount of the filling

Additional equipment

Adapters	according to CONNECTIVITY'16 catalogue
Cassettes:	FB7401.2PP + a clip connecting the FB7401.5 cassettes (4pcs. when connecting 2 cassettes)
Splitters:	FPLC-xx in BlackBox and AluBox housings
Reduction connectors:	MT-ZR-0703 (FDH-C0-x), MT-ZR-0705 (FDH-C1-x)
Connection set:	MT-CS2403-xx (FDH-C0-x), MT-CS1205-xx (FDH-C1-x)
Pigtails:	according to CONNECTIVITY'16 catalogue

Description

→ Fibrain FDH-Sx outdoor cabinets are specifically designed for optical fibers distribution, which are placed in a duct or microduct system, and then distributed to end-users. Therefore, the optical fibers are constructed from flame retardant materials (polyester + fiberglass) which are resistant to weather conditions (UV). Moreover, the ventilation system minimizes the moisture accumulation. Thanks to simple construction and small size of the cabinets, they are perfect solutions for end points placed on the ground. The cabinets provide the possibility to perform connections between cables/microcables and drop cables or bundle of microfibers due to an organizer, which can contain up to 153 SC SX adatpers. Also, extra cables/microcables coils for the use in the future, can be placed inside the cabinet. Despite small size of the cabinet, a lot of cables can be installed inside, and therefore a demountable construction such as a top/back part or a base of the cabinet provides easy access to the inside equipment.

Applications

→ Outdoor redistribution point of the FTTH network
→ Local networks
→ Last mile networks
→ Optical fiber microduct system

Features & benefits

→ Constructed from material which guarantees high mechanical
→ durability;
→ Moveable two-section organizer
→ Capacity:
  → 85 SC SX adapters and 96 splices in FDH-S2 cabinet
  → 153 SC SX adapters and 144 splices in FDH-S3 cabinet
→ Protection against moisture accumulation
→ Cabinet protected with lock
→ Cable and microduct organization holder
→ Possibility of performing splices between line cables

Equipped rotational patch panel with side access PSR-A0:

FDH-SX-AAABCD-EEEFGGHII-JK-LLLM-N

X – Height variant	2	FDH outdoor cabinet in S2 version
	3	FDH outdoor cabinet in S3 version

AAA – Adapters quantity	0 - 153	

	0	none
B – Adapters class	1	Standard One-Piece (or Standard for E2000, FC, ST)
	2	Premium Super One-Piece
	3	Premium One-Piece w internal shutter

	0	none
C – Adapters type	1	SC
	3	SCA

	1	SM
D – Transmission	2	mm (beige @SC/LC)
	3	mm OM3 (aqua @SC/LC)
	4	mm OM4 (violet @SC/LC)

EEE – Pigtails quantity	0 – 153	

	A	G.652D
	B	G.655
	C	G.656
	D	G.657A1
	E	G.657A2
F – Fiber type	F	G.657B2
	G	G.657B3
	H	mm OM1
	I	mm OM2
	K	mm OM3
	L	mm OM4

GG – Connector type	01	SC
	02	SCA

H – Pigtail type	G	Gold
	T	Titanium

II – Color identification	01 – for pigtails with yellow 0.9 mm buffer	

J – Splice cassette quantity	1–9	

K – Splice cassette type	1	SCM-A-12H
	2	SCM-A-24H
	3	FB7401.2PP

LLL – Protection sleeves quantity	0 – 144	

M – Protection sleeves type	1 – 45 mm	

N – Hanger type for microducts	1	5/3,5 mm + 1x 12/9
	2	7/5,5 mm + 1x 12/9
	3	10/8 mm + 1x 12/9

To order a non- standard option, please contact with our Sales Department.

Outdoor closure

Fibers optic closures are an alternative to distribution points in the form of outdoor cabinets that can be mounted on both poles of the AirTrack system but also in telecommunications wells or directly buried in the ground.

Closure
+ frame
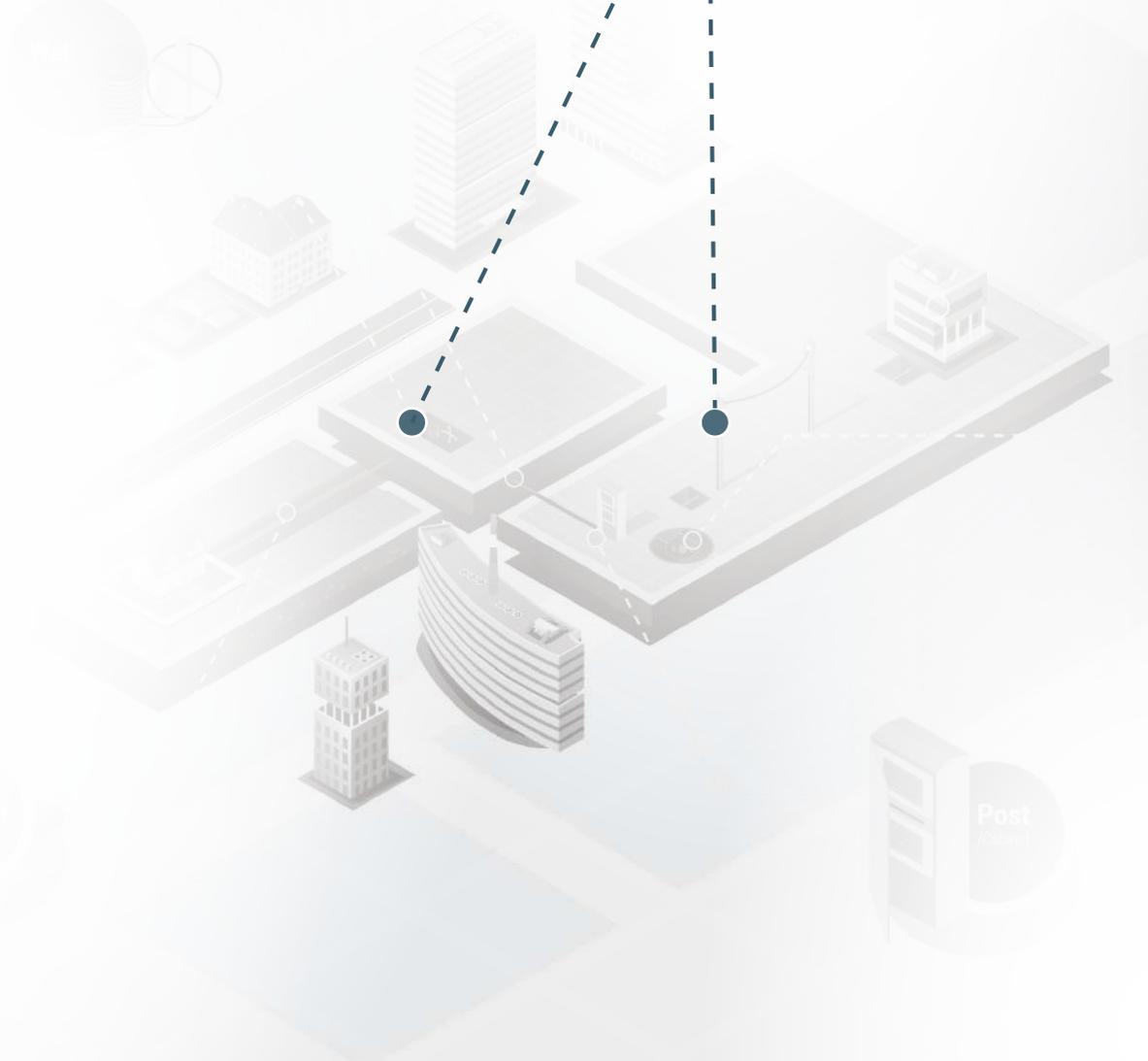
FIBRAIN FOBP-T fiber optic closure

✔ **PATENT PENDING**

Technical specification

	FOBP-144	FOBP-288
Max. number of fibers	144	288
Max. number of splices	144	288
Max. number of splice trays	12	24
Max. splice tray capacity	12	
Range of cable diameter for 8 round ports [mm]	3-10	
Range of cable diameter for 4 round ports [mm]	6-20	
Range of cable diameter for oval port [mm]	8-25	
Max. number of cable entrances	13	
Dimensions [mm]	293x438x162	293x568x162
Leakproofness of ports	thermic	
Type of entrance cables	Duct cables, aerial cables	
Working temperature	-40°C - +70°C	
IP protection	IP68	
Pull box compatibility:		
minimum chamber diameter [mm]	240	
minimum chamber depth [mm]	350	

Additional equipment

	Splice tray	SCM-B-12H-WH
	Splice trays holder (capacity up to 4x SCM-B-12H-WH)	SCM-B-H-WH
	Adapters – SC SX/E2000 SX	A101-xx, ADR-xx
	Splitters	FPLC-xx in AluBox housing
	Pigtails	G-xx
	Cable reserve frame	SZ-D-FOBP-ZN-P
	Bottom mounting holder for cable reserve frame	UMD-SZ-D-FOBP-ZN-P
	Accessories set (clip with glue, sand paper, aluminium tape, insulating tape, cable ties)	FOBP.AS
	Adapter panel 9x SC SX for 144F closure	FOBP.AP.09
	Adapter panel 18x SC SX for 288F closure	FOBP.AP.18
	Seal kit for thermic ports, heatshrinks for oval ports and 4 pcs for round ports for 20 mm cable diameter	FOBP.U1
	Seal kit for thermic ports, heatshrinks for 8 pcs for round ports for 10 mm cable diameter	FOBP.U2

📄 Description

→ The fiber optic closure FOBP is the element which is used to connect and protect the fiber optic connections in different applications. The fiber optic closure are specifically designed for connecting optic fiber routes as well for branch-ings. Fibrain FOBP closure can be placed in aerial application or wall-mounted in the man-holes. FOBP thermic type closure is equipped with 4 round ports for single cable with max. di-ameter Ø20 mm, 8 round ports for single cable up to Ø10 mm and one oval entrance for uncut cable. Depending on the size the fiber optic clo-sure capacity is up to 144 or 288 fibers. FOBP closure can be equipped with adapters panel (9x SC SX for 144F, 18x SC SX for 288F closure). The closure can be widely used in all types of FTTx teleco mmunications system architecture.

❖ Applications

→ Nodal points of fiber optic networks

→ Distribution points of fiber optic networks

→ FTTx networks

Features & benefits

→ Max. capacity up to 288 splices

→ Thermic type of port seals

→ Possibility of placing single cable:
  → 4x Ø20 mm
  → 8x Ø10 mm

→ Possibility of placing uncut cables

→ Aerial or inside a manhole mounting

→ Built-in organizer for fiber optic tubes

→ Possibility of mounting Alubox splitters

→ (1:4, 1:8 – mounted in splice tray or dedicated handle (1pc)

Ordering information

FOBP-TA-BBCDE-XFFGHI-JJKLM-NOP-RST-U

A – Closure size	1	144 splices
	2	288 splices

BB – Splice trays qty	1 -12(@144F closure), 1- 24 (@288F closure)	

C – splice tray cover	1	cover on first (top) splice tray
	2	cover on all splice trays

D – Splice trays holder qty	1-3 (@144F closure), 1-6 (@288F closure)	

E – Splice protectors	0	without
	1	in equipment (qty according to splice trays numbers)

X – Adapters panel	1	9x SC SX (@144F closure)
	2	18x SC SX (@288F closure)

FF – Adapters qty	1-9 (@144F closure), 1-18 (@288F closure)	

G – Adapter class	1	Standard One-Piece
	2	Premium One-Piece with internal shutter

H – Adapter type	1	SC/PC
	2	SC/APC
	3	E2000/PC
	4	E2000/APC

I – Transmission	1	SM
	2	mm

JJ – Pigtails qty	1-18	

K – Connector type	1	SC/PC
	2	SC/APC
	3	E2000/PC
	4	E2000/APC

L – Pigtails grade	G	Gold

M – Fiber type	A	G.652D
	B	G.655
	C	G.656
	D	G.657A1
	E	G.657A2
	F	G.657B2
	G	G.657B3
	H	mm OM1
	I	mm OM2
	K	mm OM3
	L	mm OM4

N – Pneumatic valve	0	without
	1	in equipment, non-mounted
	2	in equipment , mounted

O – Grounding line	0	without
	1	in equipment

P – Cable reserve frame	0	without
	1	in equipment

R – Splitters qty 1:4 type	0 ÷ 24	

S – Splitters qty 1:8 type	0 ÷ 24	

T – Splitters qty 1:16 type	0-1	

O – Cable reserve frame	0	without
	1	in equipment, mounted

To order a non-standard option, please contact with our Sales Department.

FIBRAIN FOBP-M fiber optic closure

✓ **PATENT PENDING**

Technical specification

	FOBP-144	FOBP-288
Max. number of fibers	144	288
Max. number of splices	144	288
Max. number of splice trays	12	24
Max. splice tray capacity	12	
Range of cable diameter for 2 mechanical ports	3-6 mm, 4,5-6,5 mm, 6-8 mm, 8-10 mm, flat 8.3x4.6 mm, 2-20 mm	
Max. quantity of cable per one mechanic port	4 (insert: 3-6 mm, 6-8 mm, 8-10 mm, flat 8.3x4.6 mm), 6 (insert 4,5-6,5 mm), X* (membrane type insert 2-20 mm)	
Range of cable diameter for 4 round thermic ports [mm]	6 - 20	
Range of cable diameter for a thermic oval port [mm]	8 - 25	
Max. quantity of cable installed	17*	
Dimensions [mm]	293x438x162	293x568x162
Leakproofness of ports	Mechanic and thermic	
Type of entrance cables	Duct cables, aerial cables	
Working temperature	-40°C - +70°C	
IP protection	IP68	
Pull box compatibility:		
minimum chamber diameter [mm]	240	
minimum chamber depth [mm]	350	

Additional equipment

	Splice tray	SCM-B-12H-WH
	Splice trays holder (capacity up to 4x SCM-B-12H-WH)	SCM-B-H-WH
	Adapters – SC SX/E2000 SX	A101-xx, ADR-xx
	Splitters	FPLC-xx in AluBox housing
	Pigtails	G-xx
	Cable reserve frame	SZ-D-FOBP-ZN-P
	Bottom mounting holder for cable reserve frame	UMD-SZ-D-FOBP-ZN-P
	Accessories set (clip with glue, sand paper, aluminium tape, insulating tape, cable ties)	FOBP.AS
	Adapter panel 9x SC SX for 144F closure	FOBP.AP.09
	Adapter panel 18x SC SX for 288F closure	FOBP.AP.18
	Seal kit for thermic ports, heatshrinks for oval ports and 4 pcs for round ports for 20 mm cable diameter	FOBP.U1
	Multiplication insert for mechanical port 4x **3-6/6-8/8-10/8.3-4.6/4.5-6.5** mm	FOBP.MPI.**3-6/6-8/8-10/8.3-4.6/4.5-6.5**.BL

Description

→ Fibrain FOBP fiber optic closure is the element which is used to connect and protect the fiber optic connections in different applications. FOBP-Mx series of the closure is characterized by the hybrid construction of the base – base is equipped with thermally sealed cable entry ports and ports with mechanical seals. The fiber optic closures are specifically designed for connecting optic routes as well for branchings. Fibrain FOBP closure can be places in aerial application or wall-mounted in the manholes. FOBP thermo-mechanical closure is equipped with 2 round mechanical ports which can be equipped with inserts that multiply the number of entered cables, 4 round ports for single cable with max. diameter Ø20 mm and one oval entrance for uncut cable. Seal variants (inserts) for mechanical ports are available in several variants – with a strictly defined diameter and number of cable entries and also membrane type insert for aerial application, which allows entered cables with different diameters (max. diameter for single entered cable Ø24 mm). Depending on the size the fiber optic closure capacity is up to 144 or 288 fibers. FOBP closure can be equipped with adapters panel (9x SC SX for 144F, 18x SC SX for 288F closure). The closure can be widely used in all types of FTTx teleco mmunications system architecture.

Applications

→ Nodal points of fiber optic networks
→ Distribution points of fiber optic networks
→ FTTx networks

Features & benefits

→ Capacity up to 288 fibers
→ Leakproofness of mechanic and thermic ports
→ Possibility of placing single line cables
→ Possibility of placing uncut cables
→ Aerial or inside a manhole mounting
→ Inserts for mechanical ports available in several variants
→ Built-in organizer for fiber optic tubes
→ Possibility of mounting Alubox splitters (1:4, 1:8 – mounted in splice tray or dedicated handle (1pc), 1:16 – mounted in dedicated handle)

FIBRAIN FOBP-M fiber optic closure

Ordering information

FOBP-M A-XY-BBCDE-ZFFGHI-JJKLM-NOP-RST-U

A – Closure size	1	144 splices
	2	288 splices

X – Insert type in 1st mechanical port	1	membrane insert for aerial application
	2	3-6 mm
	3	6-8 mm
	4	8-10 mm
	5	8.3x4.6 mm (flat cable Aero DF)
	6	4.5-6.5 mm

Y – Insert type in 2nd mechanical port	1	membrane insert for aerial application
	2	3-6 mm
	3	6-8 mm
	4	8-10 mm
	5	8.3 x 4.6 mm (flat cable Aero DF)
	6	4.5-6.5 mm

BB – Splice trays qty	1 -12(@144F closure), 1- 24 (@288F closure)	

C – splice tray cover	1	cover on first (top) splice tray
	2	cover on all splice trays

D – Splice trays holder qty	1-3 (@144F closure), 1-6 (@288F closure)	

E – Splice protectors	0	without
	1	in equipment (qty according to splice trays numbers)

Z – Adapter panel	1	9x SC SX (@144F closure)
	2	18x SC SX (@288F closure)

FF – Adapters qty	1-9 (@144F closure), 1-18 (@288F closure)	

G – Adapter class	1	Standard One-Piece
	2	Premium One-Piece with internal shutter

H – Adapter type	1	SC/PC
	2	SC/APC
	3	E2000/PC
	4	E2000/APC

I – Transmission	1	SM
	2	mm

JJ – Pigtails qty	1-18	

K – Connector type	1	SC/PC
	2	SC/APC
	3	E2000/PC
	4	E2000/APC

L – Pigtails grade	G	Gold

M – Fiber type	A	G.652D
	B	G.655
	C	G.656
	D	G.657A1
	E	G.657A2
	F	G.657B2
	G	G.657B3
	H	mm OM1
	I	mm OM2
	K	mm OM3
	L	mm OM4

N – Pneumatic valve	0	without
	1	in equipment, non-mounted
	2	in equipment , mounted

O – Grounding line	0	without
	1	in equipment

P – Cable reserve frame	0	without
	1	in equipment

R – Splitters qty 1:4 type	0 ÷ 24	

S – Splitters qty 1:8 type	0 ÷ 24	

T – Splitters qty 1:16 type	0-1	

U – Cable reserve frame	0	without
	1	in equipment, mounted

To order a non-standard option, please contact with our Sales Department.

FB8000.41 fiber optic closure

Description

→ The fiber optic closure FB8000.41 is the element which is used to connect and protect the fiber optic connections in different applications. The fiber optic closures are specifically designed for connecting optic fiber routes as well as for branchings. The fiber optic closure can be placed in aerial, wall-mounting or underground areas. It is equipped with 4 round ports for single cables (cut) and one oval entrance for uncut cables. The fiber optic closure is suitable for the applications up to 144 fibers, which can be used in various applications in the long-distance optic fiber transmission as well as in the local networks such as Fiber To The Home/ Fiber To The Curb (FTTH/FTTC). Therefore, in order to protect the fiber against the moisture, specifically designed FB8000.ABS absorbers can be mounted on a fiber optic closure's organiser.

Technical specification

	FB8000.41
Max. number of fibers	144
Max. number of welds	144
Max. number of cassettes	6
Max. capacity of cassettes	24
Range of cable diameter for 4 round ports [mm]	6-17
Range of cable diameter for a round port [mm]	6- 25
Max. number of cable entrances	5
Fiber optic closure dimensions (Ø)x(w) [mm]	230x450
Leakproofness of ports	thermic
Type of entrance cables	Canal cables Aerial cables
Working temperature	-40°C – +65°C
IP protection	IP68
Housing type	MPP

Applications

→ Cardinal points of fiber optic networks
→ Distribution points of fiber optic networks
→ FTTx networks

Features & benefits

→ Max. capacity 144 welds
→ Leakproofness of thermic ports
→ Possibility of placing single line cables
→ Possibility of placing uncut cables
→ Aerial or inside a well mounting
→ Built-in organiser for fiber optic tubes

Ordering information

FB8000.41	Fibrain fiber optic closure, 4 round ports and one oval, equipped with one cassette for welds, a mounting handle into a well or a pole.

Equipped version of FB8000.41 closure according to DSH - please contact with our Sales Department

Internal look of fiber optic closure

Fiber optic closure with mounted handle

FB8000.61 fiber optic closure

Technical specification

	FB8000.61
Max. number of fibers	240
Max. number of welds	240
Max. number of cassettes	10
Max. capacity of cassettes	24
Range of cable diameter for 4 round ports [mm]	6-17
Range of cable diameter for a round port [mm]	6- 25
Max. number of cable entrances	7
Fiber optic closure dimensions (Ø)x(w) [mm]	260x465
Leakproofness of ports	thermic
Type of entrance cables	Canal cables Aerial cables
Working temperature	-40°C – +65°C
IP protection	IP68
Housing type	MPP

Ordering information

FB8000.61	Fibrain fiber optic closure, 6 round ports and one oval, equipped with one cassette for welds, a mounting handle into a well or a pole.

Equipped version of FB8000.61 closure according to DSH - please contact with our Sales Department

Internal look of fiber optic closure

Fiber optic closure with mounted handle

🗐 Description

→ The fiber optic closure FB8000.61 is the element which is used to connect and protect the fiber optic connections in different applications. The fiber optic closures are specifically designed for connecting optic fiber routes as well as for branchings. The fiber optic closure can be placed in aerial, wall-mounting or underground areas. It is equipped with 6 round ports for single cables (cut) and one oval entrance for uncut cables. The fiber optic closure is suitable for the applications up to 240 fibers, which can be used in various applications in the long-distance optic fiber transmission as well as in the local networks such as Fiber To The Home/ Fiber To The Curb (FTTH/FTTC). Therefore, in order to protect the fiber against the moisture, specifically designed FB8000.ABS absorbers can be mounted on a fiber optic closure's organiser.

❖ Applications

→ Cardinal points of fiber optic networks
→ Distribution points of fiber optic networks
→ FTTx networks

⊞ Features & benefits

→ Max. capacity 240 welds
→ Leakproofness of thermic ports
→ Possibility of placing single line cables
→ Possibility of placing uncut cables
→ Aerial or inside a well mounting
→ Built-in organiser for fiber optic tubes

FIBRAIN

FIBER OPTIC CLOSURES

A panel with adapters for the FB800 group of fiber optic closures

Technical specification

	FB8000.61	FB8000.61
Max. number of fibers in a fiber optic closure with a panel	72	120
Max. number of splices in a fiber optic closure with a panel	72	120
Max. number of cassettes in a fiber optic closure with a panel	3	5
Panel's dimensions (width) x (length) x (depth) [mm]	12 SC DX	
Operating temperature	110x220x50	
Housing material	-40°C - +65°C	
Colour of housing material	Powder painted steel	
Housing type	RAL 7035	

Additional accessories

Adapters	according to the CONNECTIVITY'16 catalogue
Splitters:	FPLC-xx in AluBox mountings – according to the PON catalog

Ordering information

| FB8000.AP	Fibrain panel with 12 SC DX adapters for the FB800 group of fiber optic closures

FB8000.AP

🗐 Description
→ The Fibrain panel is specifically designed for the FB800 group of fiber optic closures. A panel with adapters with max. capacity up to 12 SC DX adapters facilitates the switching between the optical fibers terminated with pigtails which are installed in a fiber optic closures. Therefore, there is a possibility of mounting fiber optic splitters inside Alubox mountings, thus such fiber optic closure can be used in the FTTx networks.

❖ Applications
→ Nodal points of fiber optic networks
→ Distribution points of fiber optic networks
→ FTTx networks

Features & benefits
→ Max. capacity – 12 SC DX adapters
→ A panel can be quickly and easily mounted to the fiber optic closure
→ A possibility of mounting splitters in the Alubox mounting
→ Opening the panel provides quick access to the cassettes
→ Protected from damaging fibers during opening a panel
→ Compatible with FB8000.41 and FB8000.61 fiber optic closures

FB8000.AP

A method of mounting a panel inside the FB8000.41 closure

A method of mounting a panel inside the FB8000.61 closure

A panel equipped with pigtails installed in the FB8000.61 closure

The grip of a panel in the FB8000.61 closure

FDHB-A0 Drop Hub closure

FDHB-A0

Description

→ FDHB-A0 closure is an innovative and specifically designed solution for FTTx networks. The closure has 3 single ports for single cables, a one port is dedicated for uncut cables and a one Drop port for a single cable Ø 6 mm and four cable of drop Ø 2.0 mm. Due to additional handles, a closure can be mounted in a well and on a post with the use of available handles.

Applications

→ Nodal points of fiber optic networks
→ Distribution points of fiber optic networks
→ FTTx networks

Features & benefits

→ Max. capacity 60 welds
→ Tightening ports of a mechanic type
→ Possiblity of placing line cables and drops
→ Possibility of palcing uncut cables
→ Possibility of mounting the closure on the air track and inside underground in the wells
→ Pneumatic valve for testing the tightness
→ A grounding screw

Technical specification

	FDHB-A0
Max. numer of fibers	60
Max. numer of welds	60
Max. numer of cassettes	5
Range of cables diameters[mm]	8 - 15
Max. numer of cable entries	5
Closure dimenions (s)x(w)x(g) [mm]	220x300x100
Ports tightness	mechanic
Type of entry cables	Canal cables
Work temperature	Air Track cables
IP protection	DropCables

Additional equipment

Cassettes:	FDHB-A0-TRAY

Ordering information

FDHB-A0	Fibrain DROP HUB closure, 5 round ports equipped with two cassettes, a handle to mount on a well's wall, a tightness adjustment valve, a grounding screw


FDHB-A0-TRAY

A look inside a closure

A closure with a mounting handle

FIBRAIN

# Fiber optic cable frame and spare length cable boxes

Fiber optic cable frame and spare length cable boxes are fundamental elements of fiber optic networks. They are often used in telecommunications wells and in server rooms where spare lengths of fiber optic cable are often designed.
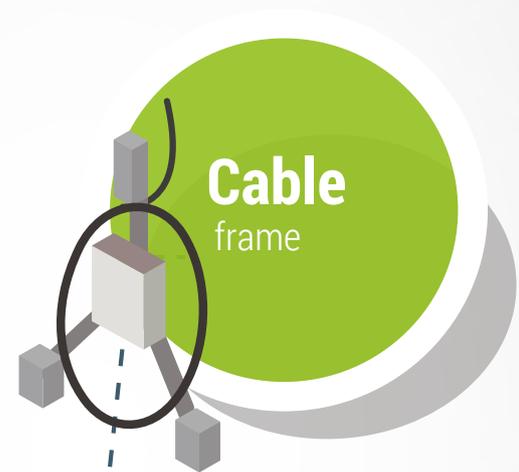
They guarantee esthetic placement of a cable and in case of cable spare length box prevent unauthorised access.

Cable frame

SZ-A-xx cable reserve frame

Technical specification

	SZ-A-40	SZ-A-60
Height [mm]	400	600
Depth [mm]	95	95
Width [mm]	400	600
Capacity [mm]	Up to 50 m of 10 mm cable	Up to 80 m of 10 mm cable

Ordering information

SZ-A-40	Fibrain cable reserve frame 400 mm
SZ-A-60	Fibrain cable reserve frame 600 mm
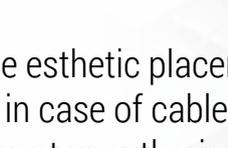
🗐 Description
→ Fibrain reserve frame provides more appropriate and effective use of space in distribution points. Longer sections of cable reserve are used in the installation process. Optimized shape of the cable reserve frame provides the opportunity to adjust the length of a cable during coiling, and therefore guarantees esthetic placement of a cable.

❖ Applications
→ Nodal points of optic fiber networks;
→ Distribution points of fiber optic networks
→ Server rooms and factories manufacturing cables

╫ Features & benefits
→ Capacity up to 80 m of the fiber optic cable with 10 mm diameter
→ Easy access to cable reserve
→ Made of galvanized sheet metal
→ Mounting on nail expansion anchors

SZB-A-IFDT-B0/C0 cable reserve frame for IFDT-B0/C0 cabinet

Description

→ Fibrain cable reserve frame provides more appropriate and effective use of space in distribution points where IFDT cabinets are mounted. Longer sections of cable reserve are used in the installation process. An optimized shape of the cable reserve frame provides the opportunity to adjust the length of a cable during coiling, and therefore guarantees esthetic placement of a cable. The cable reserve frame is mounted at the back side of a IFDT cabinet with the use of two hinges. Due to two screw caps in the IFDT-B0 cabinet, the cable reserve frame is not accessible.

Applications

→ Distribution points of FTTH networks

Features & benefits

→ Capacity up to 5 (C0) or 10 (B0) m of fiber optic cable with 10 mm diameter

→ Easy access to cable reserve

→ Casing made of galvanized steel sheet RAL7035

→ Mounted with the use of nail expansion anchors

→ Equipped with hinges to be mounted on IFDT cabinet

Technical specification

	SZB-A-IFDT-B0	SZB-A-IFDT-C0
Height [mm]	315	315
Depth [mm]	65	65
Width [mm]	390	270
Capacity [mm]	Up to 10 m of 10 mm cable	Up to 5 m of 10 mm cable

Ordering information

SZB-A-IFDT-B0	Fibrain cable reserve frame with casing for IFDT-B0 cabinet
SZB-A-IFDT-C0	Fibrain cable reserve frame for IFDT-C0 cabinet

FIBRAIN

SZ-D-S12 Fiber optic and drop cable reserve frame

Description

→ Fibrain fiber optic and Drop cable reserve frame provides more appropriate and effective use of space in distribution points where IFDT cabinets are mounted. Longer sections of cable reserve are used in the installation process. An optimized shape of the cable reserve frame provides the opportunity to adjust the length of a cable during coiling, and therefore guarantees esthetic placement of a cable. The cable reserve frame is to be mounted on a well.

Applications

→ Distribution points of fiber optic networks
→ Nodal points of fiber optic networks
→ FTTx systems

Technical specification

	SZ-D-S12
Height [mm]	550
Depth [mm]	108
Width [mm]	607
Weight [kg]	3
Capacity [mm]	Up to 65 m of 10 mm cable

Features & benefits

→ Capacity up to 60 m cable with 6 mm diameter
→ An easy access to cable reserve
→ Made of galvanized steel sheet
→ Mounted with the use of nail expansion anchors
→ A cable reserve frame is composed of two parts providing the possibility to mount BPEO-S2 distribution fiber splice closure

Ordering information

SZ-D-S12	Fibrain cable reserve frame with pole bracket for OBP-S2

SZ-D-S8-M-xx Cable reserve frame with pole bracket

SZ-D-S8-M

📄 Description
→ Fibrain Cable Reserve Frame with pole bracket enables montage of OBP-S8 Pole Mounting Distributor. It enables, for the installer, to perform quick and efficient cable reserve deposit on the pole. During the installation they use much longer sections of teleco mmunication cables which has to be organized nearby distributor points. Optimized shape of frame enables adjustment of cable length while winding the cable.

❖ Applications
→ Distribution nodes of FO networks
→ FTTx networks

Features & benefits
→ Easy access to cable reservation reservoir
→ Made of galvanized steel sheet or galvanized steel powder coated

Technical specification

	SZ-D-S8-M
Height [mm]	471
Depth [mm]	116
Width [mm]	516
Width [mm]	516
Capacity [mm]	Up to 30 m of 10 mm cable

Ordering information

SZ-D-S8-M-ZN	Fibrain cable Reserve Frame with pole bracket SZ-D-S8-M, galvanized steel
SZ-D-S8-M-ZN-P	Fibrain cable Reserve Frame with pole bracket SZ-D-S8-M, galvanized steel powder coated, mounting with wing screw

FIBRAIN

SZ-D-FOBP-ZN-P Cable reserve frame with pole holder

Description

→ Fibrain cable reserve frame with pole holder for FOBP closure. It enables to perform quick and efficient cable reserve deposit on the pole. During the installation longer sections of telecommunication cables are used which has to be organized in nearby distribution points. Optimized shape of frame enables adjustment of cable length while winding the cable.

Applications

→ Distribution points of fiber optics networks
→ Nodal points of fiber optics networks
→ FTTx networks

Features & benefits

→ Easy access to cable reserve deposit
→ Made of powder coated galvanized steel
→ Pole fixation by band-iron tape
→ Holder designed to work with FOBP closure

Technical specification

		SZ-D-FOBP-ZN-P
Height [mm]		719
Depth [mm]		136
Width [mm]		772
Cable capacity	Ø6 mm	350 m
	Ø8 mm	200 m
	Ø10 mm	140 m
	Ø12 mm	100 m
	Ø14 mm	70 m
	Ø16 mm	50 m

Ordering information

SZ-D-FOBP-ZN-P	Fibrain cable reserve frame with pole holder for FOBP closure, powder coated galvanized steel.

**View of installed FOBP closure
on frame**

FIBRAIN

CABLE RESERVE FRAMES

SZ-D-DN Distance Holder

Description
→ Fibrain SZ-D-DN distance holder is intended for pole-mount brackets with the subscriber and line cable reserve frames of the SZ-D family. The distance holder is available in two sizes and enables the mounting of the cable reserve frame within 150 mm or 250 mm from the edge of the pole.

Applications
→ Distribution points of fiber optic networks
→ Nodal points of fiber optic networks
→ FTTx systems

Features & benefits
→ Made of galvanized steel
→ Installation to the pole using steel tape

Technical specification

	SZ-D-DN150	SZ-D-DN250
Length [mm]	164	264
Width [mm]	98	98
Height [mm]	200	200

Ordering information

SZ-D-DN150	Fibrain distance holder for cable reserve frame 150 mm
SZ-D-DN250	Fibrain distance holder for cable reserve frame 250 mm

SZB-A-xx cable reserve case

Technical specification

	SZB-A-40	SZB-A-60
Height [mm]	400	600
Depth [mm]	120	100
Width [mm]	400	600
Capacity [mm]	Up to 50 m of 10 mm cable	Up to 80 m of 10 mm cable

Ordering information

SZB-A-40	Fibrain lockable cable reserve case 400 mm
SZB-A-60	Fibrain lockable cable reserve case 600 mm

Description

→ Fibrain fiber optic and Drop cable reserve frame provides more appropriate and effective use of space in distribution points where IFDT cabinets are mounted. Longer sections of cable reserve are used in the installation process. An optimized shape of the cable reserve frame provides the opportunity to adjust the length of a cable during coiling, and therefore guarantees esthetic placement of a cable. The cable reserve frame is to be mounted on a well.

Applications

→ Nodal points of fiber optic networks
→ Distribution points of fiber optic networks

Features & benefits

→ Capacity up to 80 m of fiber optic cable of 10 mm diameter
→ Easy access to cable reserve
→ Casing made of steel sheet RAL 7035
→ Case protects the edges against damaging the sheath of a cable
→ Mounting on nail expansion anchors
→ Lockable casing protecting cable reserve

FIBRAIN