Insight into

![FIBRAIN logo]
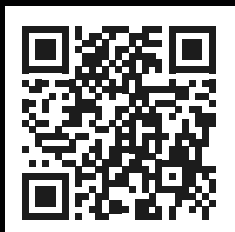
A comprehensive product portfolio → www.fibrain.com

FIBRAIN is where the journey of light begins

Highly-qualified experts in the fiber optics sector.

27 patents developing technical know-how.

FIBRAIN is one of only 10 companies worldwide to produce in-house optical fiber.

FROM A 150MM DIAMETER OF GLASS PREFORM, WE GET 0.125MM FIBER.

Polish producer in fiber optic and photonics sector

+80 countries
4 manufacturing centres
+700 employes

HEADQUARTERS GŁOGÓW MAŁOPOLSKI

FIBER OPTIC TECHNOLOGIES & PHOTONICS MANUFACTURING LABORATORY CENTER IN ZACZERNIE (I)

FIBER OPTIC CABLE MANUFACTURING AND LABORATORY CENTER IN JASIONKA

FIBRAIN FIBER OPTIC R&D AND MANUFACTURING CENTRE IN ZACZERNIE (II)

FIBRAIN MÉXICO

DEVELOPED IN EUROPE

A winning formula: top quality meets cutting-edge technology

SGS
ISO 9001:2015
Quality Management Certificate

SGS
ISO 14001:2015
Environmental Management Systems

SGS
ISO 45001:2018
Health and Safety Management

NATO Commercial and Government Entity Code

3P PARTY TESTING THIRD

OBAC

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

DELTA

orange Orange Labs

CNBOP-PIB

VDE

UL Solutions

Eco-conscious leadership

BRONZE | Top 35%
ecovadis
Sustainability Rating
DEC 2024

FIBRAIN protects ecosystems and natural resources, by taking wide range of actions and intensive efforts, such as:

- minimizing pollution

- minimizing the production waste

- using materials and components that are not harmful to the environment

- recycling

- obeying implemented environmental anagement system ISO 14001: 2015

FOC

Producing even the most specialized cables is possible as FIBRAIN offers complete product portfolio and has extensive manufacturing capabilities. **All products are meticulously tested and undergone series of tests including optical, climatic and mechanical in our Laboratories.**

R&D

R&D Department and Laboratory give FIBRAIN specialists the ability to perform accurate tests and create series of solutions specifically designed for the telecommunications markets which are based on FBT, CWDM, PLC and DWDM technologies.

Fiber Optic Cables

FIBRAIN has one of the most modern and technologically advanced Optical Fiber and Fiber Optic Cable Manufacturing Centers in Europe.

Possibility of
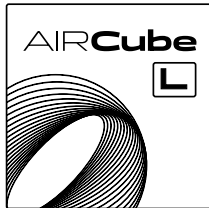
packaging system

+100 000 km
cables per year

All cables in accordance with CPR Construction Product Regulation

DATACOM

EXO-D0 up to 24F in 5.5mm
Dca s2, d0, a1 class in accordance with CPR
Datacenter / Compact design / LS0H 🔥 / Basic Rodent Protection 🐀

EXO-FD75 up to 24F in 7.2 mm
B2ca/Cca s2, d0, a1 class in accordance with CPR
Datacenter / Compact design / LS0H 🔥 / Basic Rodent Protection 🐀

DC-PRIM 12F in 3 mm
Last mile indoor connection / LS0H 🔥 / Bendsafe / Easy to terminate / Datacenter / FTTH

MICRODUCT

MK-AX 1-12F 1.1-1.6 mm
Microduct / FTTH / Last mile outdoor connection / Blowing installation / Low friction / High thermal stability / Compact design / Bendsafe
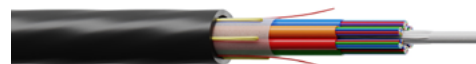
Air Reel

MK-DXS16 2F 1.6 mm
MK-DXS25 2-24F in 2.5 mm
Microduct / FTTH / Last mile outdoor connection / Blowing installation / Flexible / Compact design / Bendsafe

MK-FM6 up to 72F in 6 mm, ESM®
MK-FM7 up to 96F in 6.3 mm, ESM®
MK-FM8 up to 144F in 7.9 mm, ESM®
Microduct / Optimal diameter / Low friction / Telecom / Blowing installation / Easy Section Module®

MK-LXS6 up to 72F in 5.3 mm
MK-LXS7 up to 96F in 6.2 mm
MK-LXS8 up to 144F in 7.8 mm
Microduct / Optimal diameter / Low friction / Telecom / Blowing installation
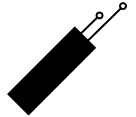

MK-UX5 up to 144F in 5.9 mm
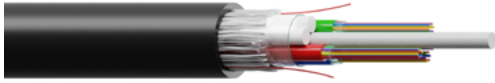**MK-UX6 up to 192F in 6.6 mm**
MK-UX8 up to 288F in 7.9 mm
Microduct / Optimal diameter / Low friction / Telecom / Blowing installation / 200 µm fibers

FIBRAIN ®

Fiber Optic Cables

TELECOM DUCT

BDC-CI up to 432F, loose tubes
Telecom / Basic Rodent Protection ✏ / Duct

MDC-FM up to 288F, ESM®
Telecom / Basic Rodent Protection ✏ / Duct / Easy Section Module®

BDC-DX up to 864F in 21 mm
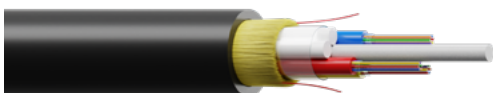Telecom / Basic Rodent Protection ✏ / Duct

TELECOM AERIAL

AERO-DR03 1F, 3 mm, up to 55 m spans
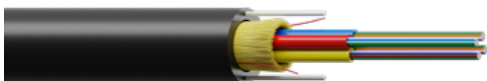FTTH / Last mile outdoor connection / Aerial / Telecom

AIRCube

AERO-DF03 2F-24F, up to 140 m spans
FTTH / Last mile outdoor connection / ADSS / Telecom

AERO-AS 2kN-12kN, 80 m-700 m spans
Telecom / Aerial / FTTH

MAR-FM 12F-288F, spans up to 80m, ESM®
Telecom / ADSS / FTTH / Easy Section Module®

FTTH

VC-D21, 30, 40, up to 4F, ESM®
Dca/Cca/B2ca in accordance with CPR Last mile indoor connection / LS0H
🔥 / Bendsafe / Flexible / Easy to terminate / FTTH / Easy Section Module®
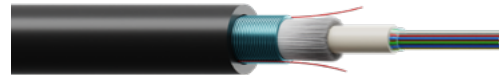
AIRCube

EAC-RAM up to 144F, ESM®
Last mile indoor connection / LS0H 🔥 / Bendsafe / Flexible / Easy to terminate / FTTH
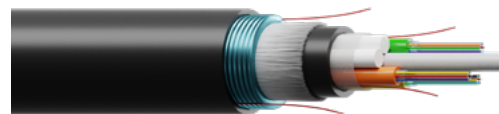

BURRY-DAC-G 2F-24F
Direct buried / FTTH / Last mile outdoor connection / Hi-crush / Compact design

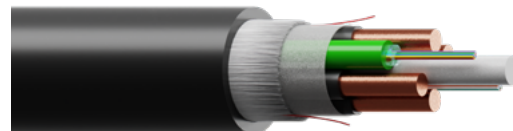## ARMORED

SSC-T30U 2F-24F in 7.6 mm
Telecom / High Rodent Protection ✏✏ / Duct / Direct buried

DSC-CI 12F-144F, double sheath
Telecom / High Rodent Protection ✏✏ / Duct / Direct buried

HYBRID POWER+FO

BDC-DIP 2.5 mm² H07V-U
Telecom / Duct / Basic Rodent Protection ✏ / Hybrid F0+Power

OVER 3 000 000 CONNECTORS TERMINATED ANNUALLY

THE BIGGEST CONNECTIVITY MANUFACTURING CENTER IN EUROPE
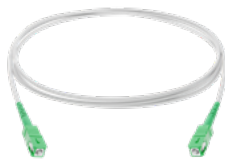
Pigtails & Patch cords
different type of connectors and fibers

Gold Grade

Titanium Grade

Cross-connect drop cable patch cords and pigtails

Invisible I-Drop patch cords

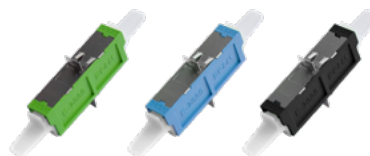**Uniboot**

Push&Pull Duplex HD

Uniboot Push&Pull HD
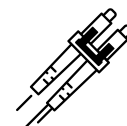
Armored patch cords

Adapters

SC adapters

LC adapters

E2000 adapters

FIBRAIN®

Connectivity

Launch fiber box & optical circuit simulator

OSC   LB3   Opti-CS

1 Connector type color code
2 Magnet mounting
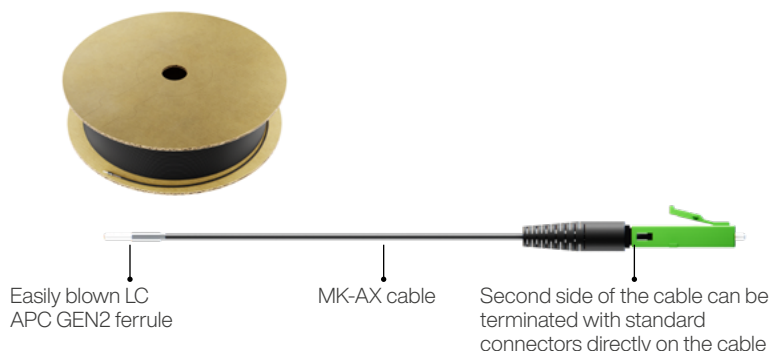3 Fiber color code
4 Shoulder strap
5 Compact housing

Pre-connectorized cables & MTP/MPO Solution
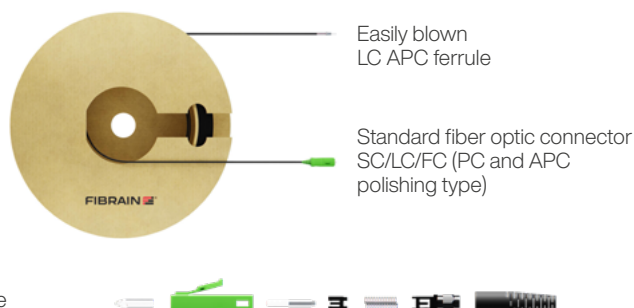
Various cable types and connector combinations

TCF   PTF   Armored   TEF   MPO

Easily blown pre-connectorized GEN2 cable

Available connector: LC APC & LC PC

Easily blown LC APC GEN2 ferrule

MK-AX cable

Second side of the cable can be terminated with standard connectors directly on the cable

LC APC Connector Kit for pre-connectorized MK-AX cable

Easily blown LC APC ferrule

Standard fiber optic connector SC/LC/FC (PC and APC polishing type)

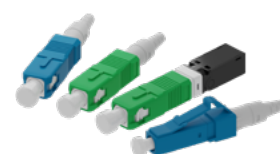## Pre-connectorized cable on the drum

VC-Dxx Drop Cable

Invisible I-Drop cable

Pre-connectorized cable with pulling eye

Rapid box set VC-Dxx cable terminated with VFTO box

Field connectors

EASILY PULLABLE PRE-CONNECTORIZED CABLE

PATENT PENDING ✓

EPP

Smart solution providing fast installation

Key features

Fast installation
cable kit ready for installation by pulling through the microducts or corrugated tubes

Terminated with special ending for direct pulling
the plug protect the connector's body during pulling operation and allows to install cord

>100m
Large pulling ranges
up to 100m

High performance
high quality ferrule ensures best optical parameters

Cost saving solution
no need to install additional pulling eye. Removing the plug and equipping connector body with leaver for LCA connector and housing for SCA connectors takes few second

FIBRAIN EPP

EPP

Construction

LC APC Connector

Field mountable
connector kit after pulling

Latch mechanism

Pulling cap

LC APC
pullable connector

SC APC Connector

Seal

Pulling cap

Connector housing
mounted after pulling

Thread
mechanism
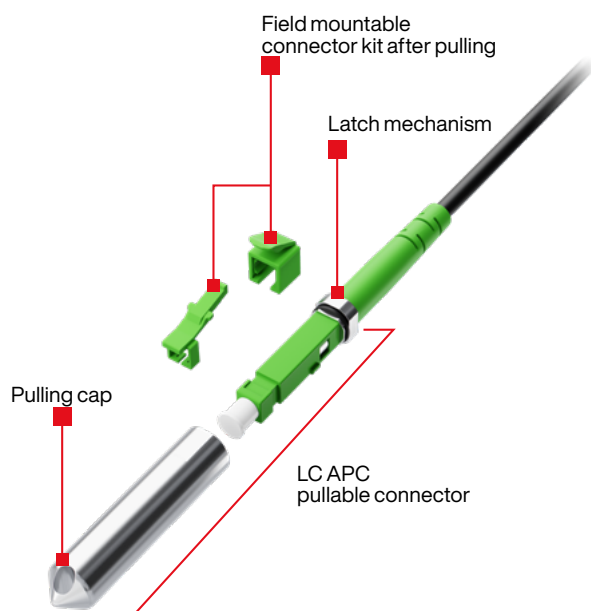
SC APC
pullable connector
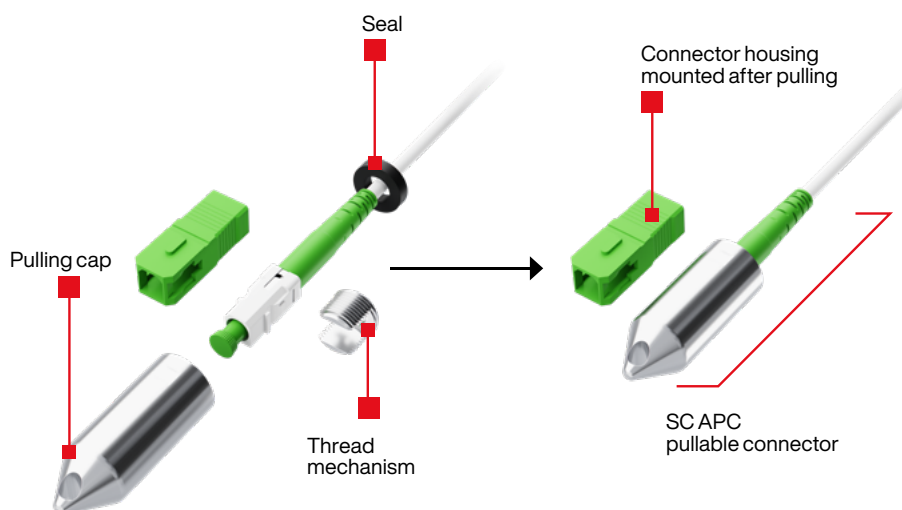
EPP cables

VC-D30

FTTH Single Jacket LS0H ♦ Minibreakout – 1F 900µm – Drop Cable with
Aramid Strength Members

D$_{CA}$ CPR

AERO-DR03

Last mile aerial cable with PUR sheath

Fast installation in 4 easy steps

1 Unpack

2 Pull through the microduct/corrugated tube

3 Assemble the connector

4 Inspect & connect

Tube compatibility

| CONNECTOR	INSTALLATION	PULLING RANGE
LC APC	Micropipe 12/8	100m
SC APC	Corrugated tube 20/16	100m

EASILY BLOWN PRE-CONNECTORIZED MK-AX CABLE GEN2

EBP

FIBRAIN's EBP last mile preterminated drop cable solution is designed to be blown through microducts in FTTH networks.

The solution is based on a ready-made pre-connectorized cable kit.

Unpack, blow into the microduct, assemble the connector housing, connect and inspect.

GEN2

REDUCED FERRULE FLANGE DIAMETER
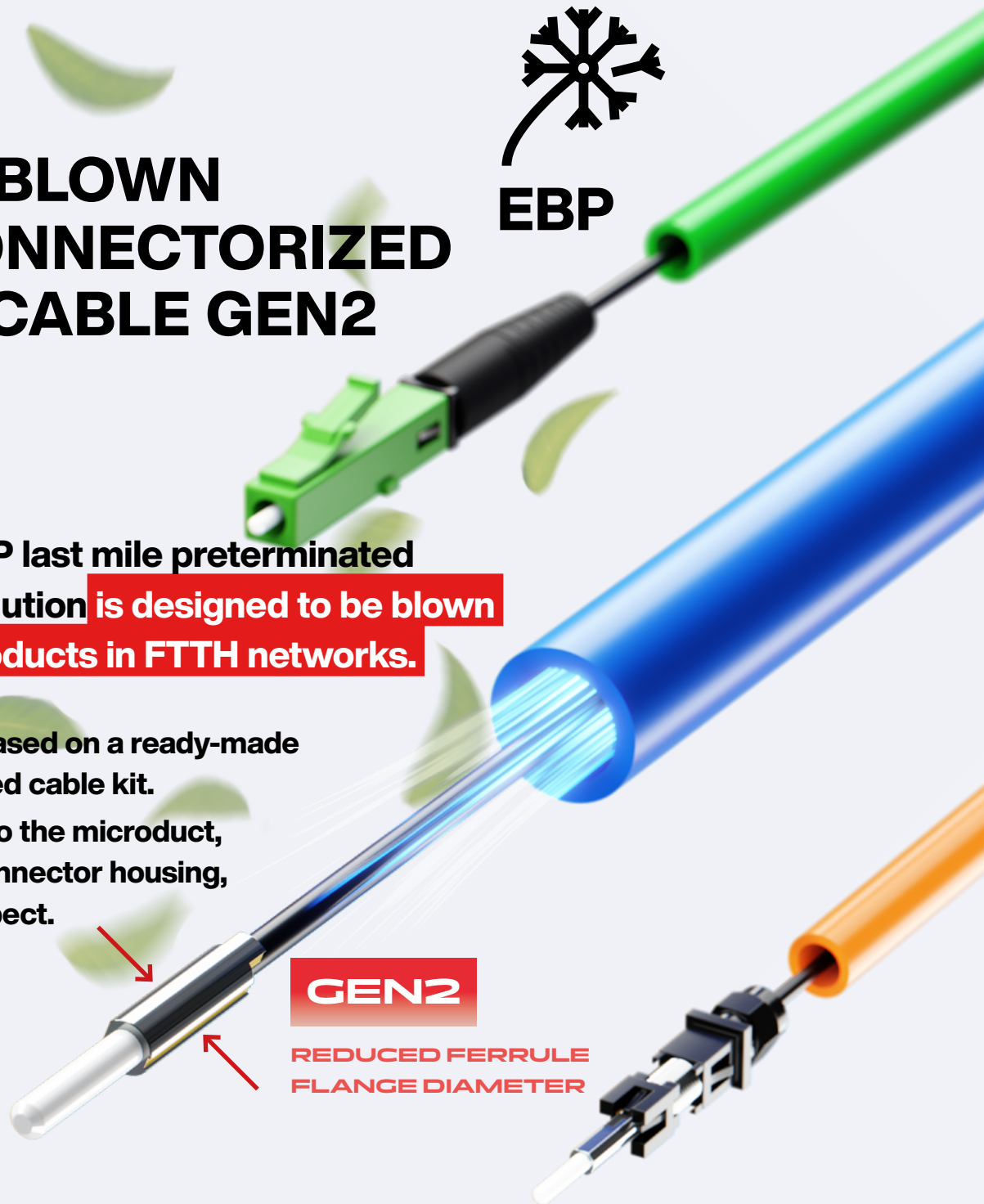
Key features

Fast installation
ready for installation by air-blowing cable kit

Terminated with special LC APC ferrule
protected with dust cup during installation

>1000 m

Large blowing ranges
even over 1000m

Cost saving solution
eliminates the need for splicing connections – no need to use costly splicing machines and operators at the premises

High performance
high quality ferrule achieves and maintains B grade – ensures best optical parameters
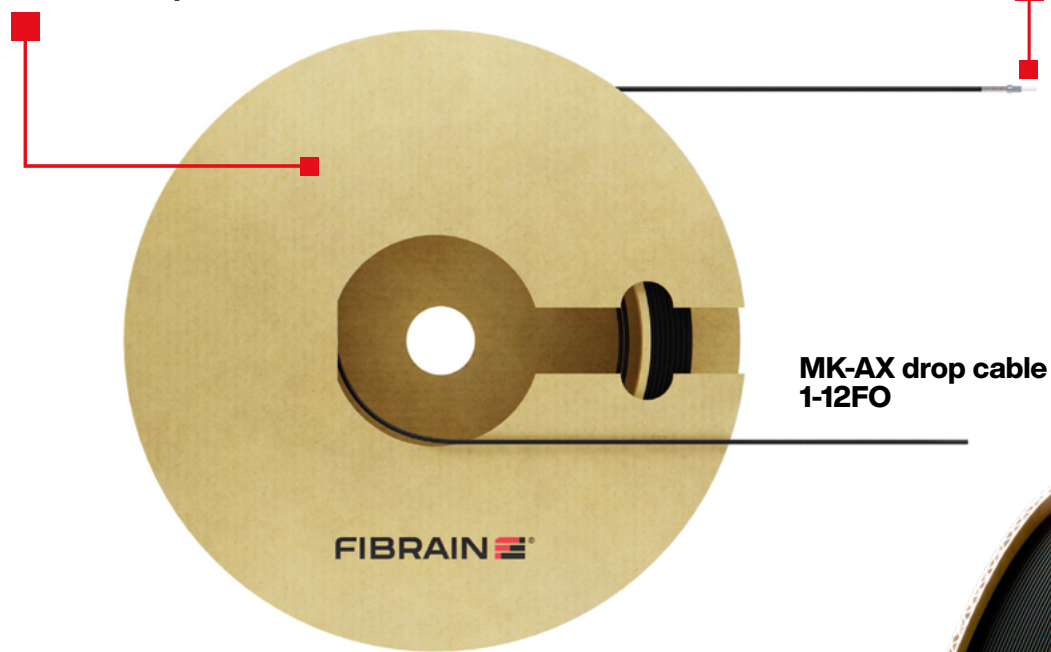
FIBRAIN EBP GEN2

EBP

Construction

**Customized cable length –
from 25 m up to 1000 m**

**LC APC
Easily Blown Ferrule**

**MK-AX drop cable
1-12FO**

FIBRAIN

FIBRAIN MK-AX Cable
Key features and benefits

**Unique design ensuring
best blowing performance**

**Special jacket materials
providing low friction**

High thermal stability

Low weight

Distribution
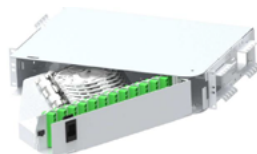
MOUNTING
NUMEROUS
COMPONENTS
ON-SITE

19" Patch panels

PSS-A0

Standard ODF 1U,
up to 24xSC/48xLC ports

PST-A1

Premium telescopic ODF,
up to 48xSC/96xLC ports in 1U,
up to 96xSC/192xLC ports in 2U

PSR-B0

Pivot swivel ODF, 48xSC ports in 1U,
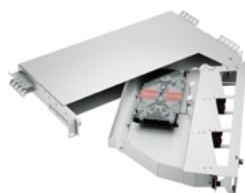96xSC ports in 2U, 144xSC ports
in 3U
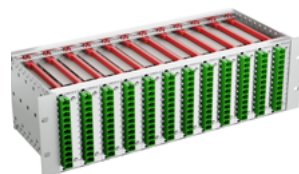
PS-19

3U Modular patch panel up to
144xSC/288xLC ports, modular
configurations

19" Patch panels

PUO

1.5 U Premium aluminium patch
panel, up to 96 splices, available
with multipatchcords

PSR-HD-U

1U pivot swivel ODF 215 mm
depth, up to 72xSC adapters
in HD holders

19" Cable shelfs and organizers

PS-19-PAT/TUB

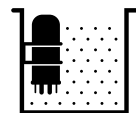Tube/patchcords reserve shelf,
full extension

ORG-HS/HP/VP

19" mounting cable organizers ver-
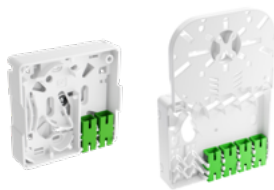tical/horizontal type

FIBRAIN

Distribution

Boxes and cabinets

VFTO-R1

Customer outlet integrated with up to 40m pre-connectorized 900µm LSOH cable

VFTO-E1/F1

Customer outlet, up to 4x SC/LCdx ports

BU-XN

Riser box, up to 5xSC, max. 12 splices

FDM

DIN rail module up to 24xSC/LC adapters, 24 splices

NSR-S/M/L

Up to 12xSC ports in NSR-S, 24xSC ports in NSR-M, 72xSC ports in NSR-L

IFDT-B0

Up to 48xSC ports, max. 48 splices optional cable reserve frame

IFDT-F0

Up to 48xSC ports, max. 96 splices

IFDT-G0

Double section cabinet up to 48xSC adapter, 96 splices in SCM-C splice cassette

Closures

FOBP-288 IP68

Up to 288 splices thermic and mechanical cable ports

OBP-S8 / S8W

Distribution box up to 18xSC, max. 72 splices, IP54

FB8000 IP68

Max. capacity 240 splices

FB-XRA IP68

Max. capacity 144 splices

Outdoor cabinets

OBP-C0

Up to 72 splices 36 SC DX adapters 40 drop ports

BPEO-S4 IP68

Up to 72 splices 24 SC adapters 24 drop ports

FDH-S

Scalable system up to 1728 splices Steel housing

FDH-G

Up to 144 SC adapters, 144 splices

HD FIBRAIN HIGH DENSITY

FIBRAINDa-
HD System

→ **hd.fibrain.com**

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1 **Patch panels**
Scalability / Freedom of arrangement / Modularity
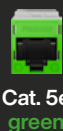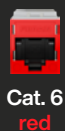Wide range of applications / Saving precious space in the 19" rack / Quick and easy installation

Holder / Cassette label

Cable organizer label

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2 **HD RJ45 modules**
Wide range of applications / Saving precious space in the 19" rack / Quick and easy installation

Colour coding
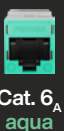
Cat. 5e **green**   Cat. 6 **red**   Cat. 6$_A$ **aqua**

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3 **HD patchcords**
6/12 FO variants / SM/MM fibers / PC/APC polishing / Uniboot option

Push&pull terminated on duplex cable

Plug/unplug element

Push&pull connectors

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4 **Harness cables**
Wide range of applications / Saving precious space in the 19" rack / Quick and easy installation

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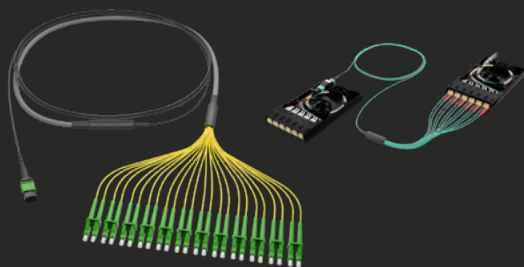
5 **Copper patchcords**
Compact dimensions / Full range of performance / Color identification
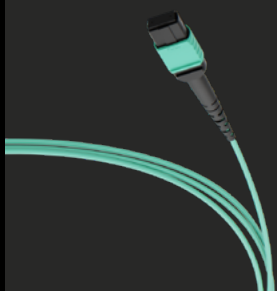
Color coding

Cat. 5e **green**   Cat. 6 **red**   Cat. 6$_A$ **aqua**

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6 **MPO trunk cables**
A/B/C polarization / PC/APC polishing / Gender F/F F/M, M/F / MTP® standard

Colour coding

SM 652D fiber **green**   MM OM3 fiber **aqua**   MM OM4 fiber **magenta**

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7 **HD FO cassettes**
6/12 FO ports / SC/LC interface support / Closed construction dust protection

Possibility of leading the cable out from both sides

Cable organizers

Place for a label

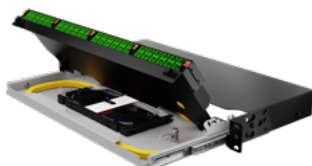**MADE IN POLAND**   **25** YEAR SYSTEM WARRANTY

FIBRAINData

HD Patch panels
Scalability / Freedom of arrangement / Modularity

XBU00

0.5U modular, max. 24p (CU)/96p (FO LC Duplex)

XEU00

1U 48p with tube reserve shelf

XFU00
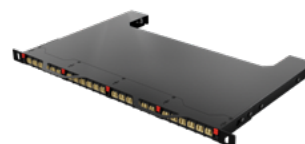
3U modular max. 120p (CU)/480p (FO LC Duplex)

XPU00

1U modular max. 48p (CU)/192p (FO LC Duplex)

XDU00

1U splice panel max. 96 splices

XCU00

0.5U splice panel max. 48splices

HD FO Cassettes

Fiber optic MPO cassette

Equipped with 12 SC adapters

Fiber optic splice cassette

Equipped with 12 SC adapters

Fiber optic breakout cassette

Equipped with 12 SC adapters
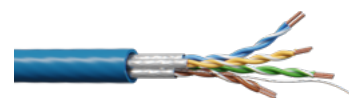
Installation cables
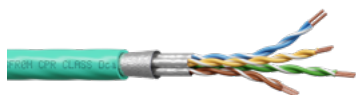Full range of performance: 5e/6/6A/7/7A
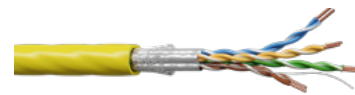
FIBRAINData Cat. 5e U/UTP

FIBRAINData Cat. 6 U/UTP

FIBRAINData Cat. 6 U/FTP

FIBRAINData Cat. 6$_A$ S/FTP

FIBRAINData Cat. 7 S/FTP

FIBRAINData Cat.7$_A$ S/FTP
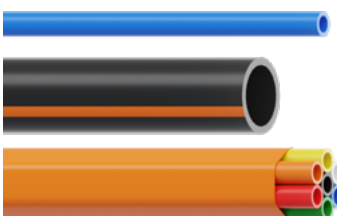
System solutions & tools

AirTrack
Core network

AirTrack

Anchoring clamps

Suspension clamps

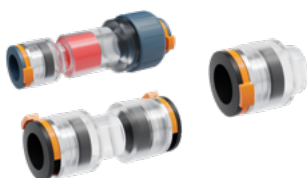**Tools & accessories**

MetroJet
Fiber optic microduct system

MetroJet

Microducts & pipes

Connectors & sealings

End caps & joint closures

Blowing machines & accessories

Tools & equipment
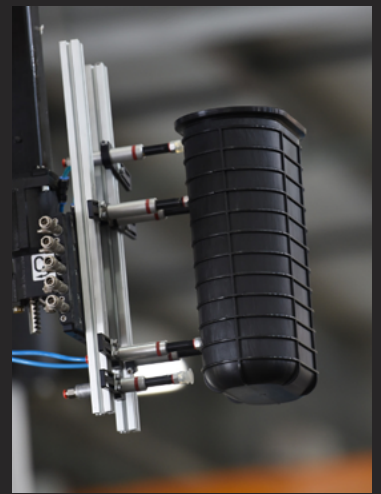Fiber optic installation tools

Fiber optic tools

Cable cutters & slitters

Duct tools & others

FIBRAIN

Innovations are driving force our progress. World's unique, innovative R&D and production center. Independent, low-emission fiber optic manufacturing.

Independent and self-reliant producer

More than **30 years** on the market

Quality at a reasonable price

European production

International experience worldwide

Comprehensive solutions with system warranty

FIBRAIN is where the journey of light begins.

FIBRAIN POLAND

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fax: (+48) 17 866 08 11

e-mail: sales@fibrain.com

www.fibrain.com