# FIBRAMÉRICA

# PASSIVE COMPONENTS

# FIBRAMÉRICA
## MINQING FIBRAMERICA TECHNOLOGY

## Complete solutions for the intelligent development of fiber optic networks

Minqing Fibramerica Technology, under its trade name FIBRAMÉRICA, is one of the world's leading companies dedicated to the design, development, manufacture, distribution and marketing of advanced optical connectivity solutions. We work closely with the main players in the telecommunications market, such as operators, distributors and importers and installers all over the world, both as OEMs and under our own brand.

Its headquarters are located in Fuzhou, Fujian, China, with sales offices in Shanghai and Ningbo. It also has direct sales units in America, located in Brazil, where all commercial and technical support is provided in Spanish through its engineers and sector specialists. This expansion not only demonstrates its global vision, but also reflects its commitment to localized customer service, providing commercial and technical assistance in the same time zone and language as our customers.

On its path to excellence, FIBRAMÉRICA has adopted a continuous focus on improving processes, integrating emerging technologies and implementing effective communication strategies. Their dedication translates into competitive prices, efficient production times and comprehensive support, from the manufacturing process to product transportation.

Following the strictest international quality norms and standards, such as ISO9001, it guarantees that each of its products meets the quality and functionality expectations of the most demanding customers.

With a vision of the future, FIBRAMÉRICA focuses its efforts on developing and adapting new products, tailored to the specificities and needs of each project, from the initial design stage to final production.

### QUALITY MANAGEMENT SYSTEM CERTIFICATE

No.08323Q30170R1S

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**Unified Social Credit Code:** 91350124MA31YKCU5K

**System Area Assessed:** Production and sales of fiber optic terminal boxes, communication instruments, electronic products, communication equipment (optical splitter, optical fiber connector, optical splice closure, optical termination box, optical patchcord)

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# Passive Components

**Fibramerica has a wide range of passive solutions for the installation of optical networks taht allow integration with active components. All products are manufactured under strict quality controls and in compliance with international standards.**

In a passive optical network (PON), passive components are those elements that do not require power between the Optical Line Termination (OLT) and the Optical Network Termination Link (ONT) or Optical Network Unit (ONU).

For this reason, a PON network is more appealing, as the design and installation costs of a passive optical network are more competitive compared to those of a traditional metallic network.

The universe of passive components includes different elements, for example, adapters, attenuators, mechanical connectors, patchcords, pigtails, among others. One of the most important elements is the optical splitter, in charge of splitting the optical signal and guaranteeing the continuity of the signal in its different branches.

Fibramerica has a catalog in continuous development, adjusting its products to the new generation of optical network.

# Optical Adapters

FC/PC Adapter
simplex with flange

FC/PC Adapter
simplex without flange

FC/PC Adapter
simplex with flange

FC/PC adapter
simplex without flange
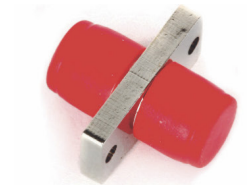
FC/PC adapter
simplex with flange
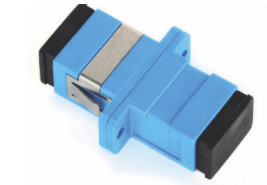
SC/UPC SM adapter
simplex with flange

SC/APC SM adapter
simplex with flange

LC/UPC SM adapter
simplex without flange

LC/UPC SM adapter
simplex with flange

LC/APC Adapter
simplex with flange

SC/PC MM adapter
simplex with flange

SC/APC SM adapter
duplex with flange

SC/PC MM adapter
duplex with flange

LC/PC MM adapter
simplex without flange

LC/PC MM adapter
duplex without flange

LC/PC adapter OM3
duplex with flange

LC/PC adapter OM4
duplex with flange

LC/PC adapter OM5
duplex with flange

SC/UPC SM adapter
duplex with flange
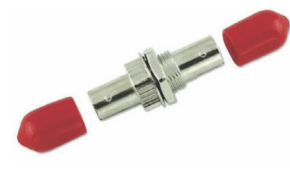
ST adapter
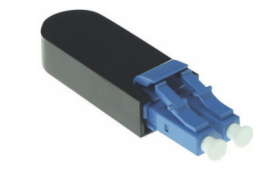
1310nm SM loopback
LC loopback adapter
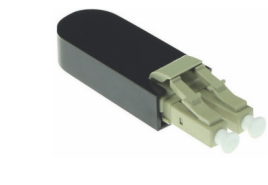
LC loopback MM 850nm
LC loopback adapter

**Description**

The fiber adapter is an important component in the construction of an optical network, mainly used to interconnect two fiber connectors.

The connectors can be of polished PC, UPC and APC types. The optical adapter comes in versions to connect single fibers (simplex), two fibers together (duplex) or sometimes four fibers together (quad).

Most adapters are female at both ends and allow two cables to be connected. Some adapters, called "hybrids", accept different types of connectors (ST to SC, LC to SC, etc.).

When trying to connect two cables that have different shapes, it is necessary to use a hybrid connector.
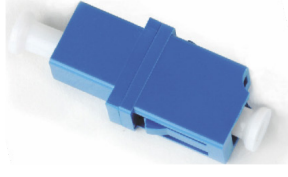
**General characteristics**
- Easy to use.
- Can be recessed into any box, splice tray, etc.
- Available in both simplex and duplex.
- Suitable for interconnecting two adapters of the same type.
- Suitable for all types of polishing.
- The internal zirconium tube guarantees low insertion loss.

# Optical Attenuators
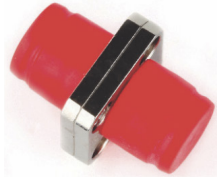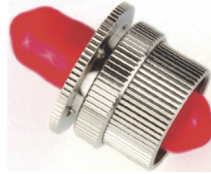

FC Fixed attenuator


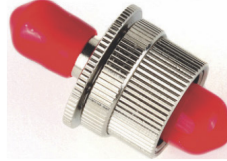LC/UPC Fixed attenuator


SC/UPC Fixed attenuator


SC/UPC Metal fixed attenuator


FC/UPC fixed attenuator


ST/UPC fixed attenuator


SC/UPC male-female Hybrid attenuator


SC/UPC male-female Hybrid attenuator


LC/SC Hybrid attenuator

**Description**

Fibramerica offers several mechanical attenuators in different versions.

The optical attenuator allows attenuating the signal to a know value. the shape of the mechanical attenuator is the same as the fiber adapter. It can be applied in traditional optical network, optical test project, FTTx construction, among others, when the optical power is above the limit of the equipment.

The attenuator allows interconnection of two patch cords. Fixed and variable value attenuator are available. The user can select the most suitable onde depending on the construction environment.

It can be used in CATV, LAN, WAN and telecom applications.

**General features**
- Easy to use.
- Bulkhead design.
- Can be recessed into any termination box, juction box, etc.
- Compact plug and play design.
- Suitable for passive situations.
- Stable attenuation value.
- Guaranteed return loss of -55db.
- Protect equipment from overload.

# Patchcord & Pigtails



**Description**

Patchcords (jumpers) are optical assemblies used mainly in data centers for active equipment connections (OLT) to fiber optic distributors (DIO).

They are made up of a fibre optic cable, coated with a protective inner layer and a flame-retardant PVC outer layer, and a Kevlar inner strip which serves as a pulling element and may or may not be terminated with the same type of optical connector at both ends. Manufactured with cables of various diameters, they can be simplex or duplex, with single-mode or multimode fibres.

Fibramerica patch cords and pigtails offer low insertion loss, low reflectance and are individually inspected at the plant to ensure compliance with technical parameters.
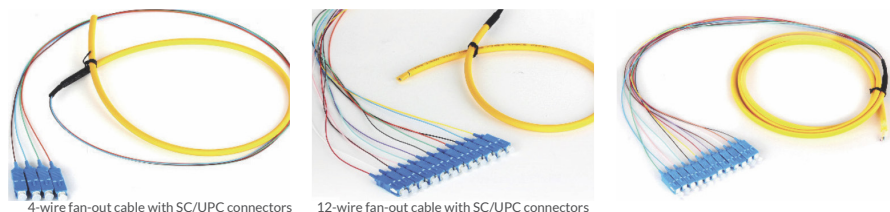
**General characteristics**
- Low insertion loss.
- Low reflectance.
- Individually inspected.
- High quality zirconia ferrules.
- Good repeatability and interchangeability.

| Configuration: FAB-PATFO-AB-X-FF-ZZ-W-YYY | | | | | | |
|---|---|---|---|---|---|---|
| Connector A | Connector B | X N° of Yarns | FF Fiber type | ZZ Cover | W Cable diameter | YYY Length |
| SC/UPC=SC SC/APC=AS LC/UPC=LC LC/APC=AL ST/UPC=ST ST/APC=AT FC/UPC=FC FC/APC=AF | SC/UPC=SC SC/APC=AS LC/UPC=LC LC/APC=AL ST/UPC=ST ST/APC=AT FC/UPC=FC FC/APC=AF | Simplex=S Duplex=D | G652D=2D G657A1=A1 G657A2=A2 G657B3=B3 OM1=O1 OM2=O2 OM3=O3 OM4=O4 | PVC=PV LSZH=LS | 1.6mm=1.6 2mm=2 3mm=3 | 01=1m 010=10m 020=20m |

# Fan-out Cables


4-wire fan-out cable with SC/UPC connectors


12-wire fan-out cable with SC/UPC connectors



## Description
The indoor fan-out cable is a pre-assembled cable with connectors at one or both ends, with a PVC or LSZH sheath that accomodates up to 24 optical fibers of different types, either multimode (OM1, OM2, OM3, OM4 and OM5) or single-mode (OS1, OS2). This type of product saves installation time, reducing the number of specialized personnel for the preparation and installation of patch cables.
They are low-cost cables designed primarily for indoor interconnection between transmission equipment and patch panels or similar fixed routes in data centers, entreprise networks, telecom rooms, servers, storage networks, etc.
All cables are 100% factory terminated and tested to ensure the quality of all units and compliance with standards.

## General features
• Compact design.
• Low insertion loss and high return loss.
• ITU-T G.657A or G.652D, etc. - compliant.
• High wavelength range reliability.
• Wide operating temperature range.
• Diameter feasible according to requirement.
• Customized configuration.

| Specification | |
|---|---|
| Types of connetors | SC/FC/ST/LC/MU/Nil(non-connector)/E2000 MTRJ(W/O)/MTRJ(W)/DIN |
| Polishing type | UPC/APC |
| Fiber type | Single-mode | Mulimode |
| Number of fibers | 4, 6, 8, 12, 24 |
| Type of covers | LSZH |
| Insertion loss IL of the fiber (dB) | <0.2 |
| Connector Insertion loss IL (dB) | <0.4 |
| Return loss (dB) | UPC: ≥55; APC: ≥60 |
| Repeatability (500 times) (dB) | ≤0.2 |
| Diameter of cover (mm) | 0.9/2/3 |
| Cover color | Yellow / Orange / Aqua / Black or customizable |
| Connector length (mm) | 50 |
| Fiber length (m) | Customizable |

# Bare Fiber Spool
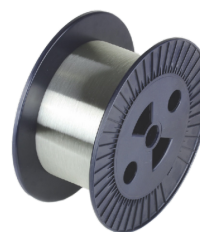


## Description
The 2km bare fiber reel is composed of 250µm bare fiber with tight buffering. The use of G.657A fiber guarantees the performance. It usually applied optical testing project, laboratories and etc.

## Part number
FAB-BARFIR-250-A1-2KM
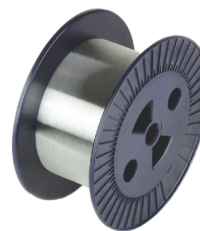


## Description
The 25km bare fiber reel is composed of 250µm bare fiber with tight buffering. The use of G.657A fiber guarantees the performance. It usually applied optical testing project, laboratories and etc.

## Part number
FAB-BARFIR-250-A1-25KM

## Description
Fibramerica supplies bare fiber spools for testing projects, G.652 and G.657A bare fiber is available. They offers the best macro bending performance in the industry while maintaining compatibility with current optical fibers, equipment, practices and procedures.
This full-spectrum single-mode fiber optic coil experencies virtually no signal loss when subjected to smaller radius bends. It is your best helper in testing projects.

## General features
• Full-spectrum single-mode fiber.
• Small macroflex radius with G.657A and G.652D standard.
• Small attenuation value.
• Suitable for any environment.

| Specification | |
|---|---|
| Fiber type | Monomodo |
| Total length | 2km/25km |
| Diameter of coated fiber | 250µm |
| Bare fiber diameter | 125µm |
| Minimum radius of macro curvature | 30mm(G.652D) / 15mm(G.657A) |
| Typical attenuation values | |
| 1310nm working wavelength | 0.33~0.35dB/km |
| 1490nm working wavelength | 0.21~0.24dB/km |
| 1550nm working wavelength | 0.19~0.20dB/km |
| 1625nm working wavelength | 0.21~0.23dB/km |

**Mechanical connector SC**
**Mod. FAB-SC-01**
• Application: Drop 3x2mm, 2x1.6mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Mechanical connector SC**
**Mod. FAB-SC-02**
• Application: Drop 3x2mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC
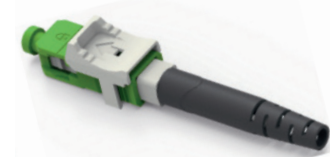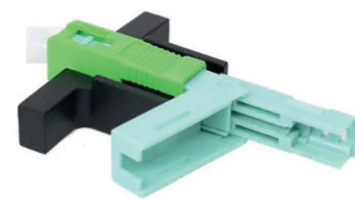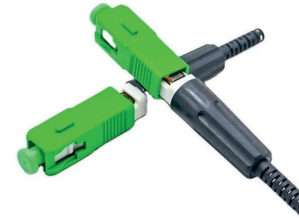
**Mechanical connector SC**
**Mod. FAB-ESC250D**
• Application: 3x2mm and 1.6x2.0mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Mechanical connector SC**
**Mod. FAB-FMC-LC30X20**
• Application: Drop 3x2mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Mechanical connector SC**
**Mod. FAB-FTD925U-L**
• Application: 2mm, 3mm, 0,9mm & 3.0*2.0mm & Drop 2.0*1.6mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Mechanical connector SC**
**Mod. FAB-SC-03**
• Application: Drop 3x2mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Mechanical connector SC**
**Mod. FAB-SC-04**
• Application: Drop 2x3mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Mechanical connector SC**
**Mod. FAB-FAST**
• Application: Drop 3x2mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Mechanical connector SC**
**Mod. FAB-FTD925T**
• Application: 2mm, 3mm, 0,9mm & 2.0*3.0mm & 2.0*1.6mm Flat Drop
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Mechanical connector SC**
**Mod. FAB-FTD9201**
• Application: 2mm, 3mm, 0,9mm & 3.0*2.0mm & Drop 2.0*1.6mm
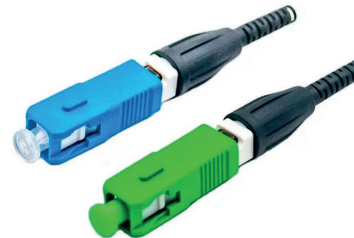• RL: ≥ 50dB for UPC | ≥ 55dB for APC

## Description

In general terms, mechanical connectors are components developed for cable termination without the need for fusion, They allow the correct alignment of the cores and automatic coupling and have a design that allows quick and easy assembly in minutes.

One of the great advantages of the mechanical connectors is that they not require epoxy or baking, so you can save time, plus there is no need for a polishing process, being a pre-polished connector.

Fibramerica has a wide catalog of quick connectors, with different configurations of polishing (UPC & APC), connetor, fiber type (single or multimode) and type of application (round cable and/or flat drop). Both UPC and APC polished, in SC and LC. Each models is characterized by different fast assembly methods and type of cable to wich it can be applied.

Likewise, they are adaptable, as we can find them in different configurations, both for their type of polishing, connector, type of fiber (single or multimode) and even the type of cable (round or square).

Fibramerica connectors use high quality equalizing gel and first class ferrules to guarantee excelent parameters in all its mechanical connector product line.
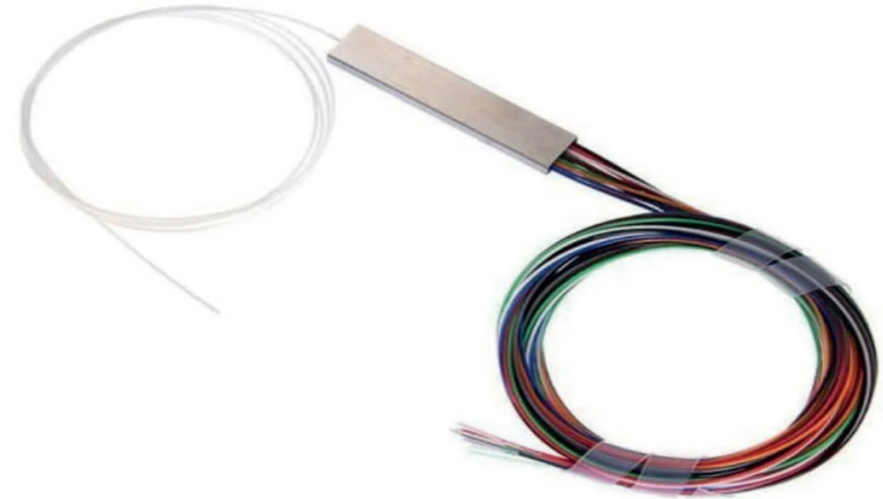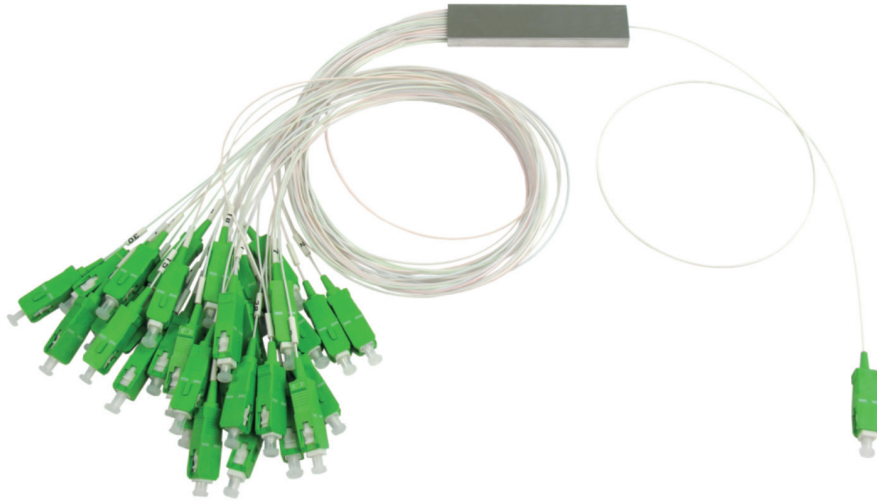
**Mechanical connector SC**
**Mod. FAB-FTD9201**
• Application: 2mm, 3mm & 0,9mm
• RL: ≥ 45dB for UPC | ≥ 50dB for APC MM: UPC ≥ 25dB

**Mechanical connector SC**
**Mod. FAB-SC-02**
• Application: Application: 2mm, 3mm, 0,9mm & Drop 3.0*2.0mm
• RL: ≥ 50dB for UPC | ≥ 55dB for APC

**Description**
Splitters are used in passive optical network (EPON, GPON, BPON, FTTx, FTTH, etc.) to implement point-to-point architectures, that is, a fiber is split and distributes the signal to serve different number of subscribers in different residential units.

Fibramerica develops a line of splitters, both connectorized and non-connectorized, following international quality standards and technical requirements stable optical specifications.
Fibramerica's optical splitters are characterized by low insertion loss (IL), low polarization loss (PDL) and high port uniformity.

| PLC Splitter 1xN (N>2) with connectors | | | | | | |
|---|---|---|---|---|---|---|
| Parameters | | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 |
| Operating wavelength | | 1260~1650nm | | | | | |
| Insertion loss (maximum) | | 4.1 | 7.4 | 10.5 | 13.8 | 17.1 | 20.4 |
| Return loss (minimum) | APC | 55 | 55 | 55 | 55 | 55 | 55 |
| | UPC | 50 | 50 | 50 | 50 | 50 | 50 |
| PDL (maximum) | | 0.2 | 0.2 | 0.25 | 0.3 | 0.3 | 0.3 |
| Directivity | | 55 | 55 | 55 | 55 | 55 | 55 |
| WDL (dB) | | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 |
| Pigtail size | | 1m standard or personalized | | | | | |
| Fiber type | | G652D, G657A1, G657A2 | | | | | |
| Operating temperature | | -40°C ~ 85°C | | | | | |
| Microchip size | | 60x7x4 | 60x7x4 | 60x7x4 | 60x12x4 | 80x20x6 | 100x40x6 |

| PLC Splitter 1xN (N>2) without connectors | | | | | | |
|---|---|---|---|---|---|---|
| Parameters | | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 |
| Operating wavelength | | 1260~1650nm | | | | | |
| Insertion loss (maximum) | | 4.1 | 7.4 | 10.7 | 13.9 | 17.2 | 21.5 |
| Return loss (minimum) | APC | 55 | 55 | 55 | 55 | 55 | 55 |
| | UPC | 50 | 50 | 50 | 50 | 50 | 50 |
| PDL (maximum) | | 0.2 | 0.2 | 0.25 | 0.3 | 0.3 | 0.3 |
| Directivity | | 55 | 55 | 55 | 55 | 55 | 55 |
| WDL (dB) | | 0.4 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 |
| Pigtail size | | 1m standard or personalized | | | | | |
| Fiber type | | G652D, G657A1, G657A2 | | | | | |
| Operating temperature | | -40°C ~ 85°C | | | | | |
| Microchip size | | 40x4x4 | 40x4x4 | 40x4x4 | 50x7x4 | 50x7x4 | 60x12x4 |
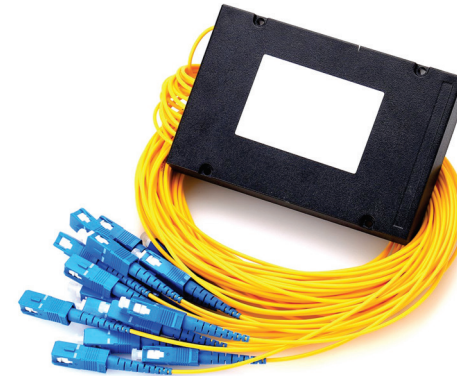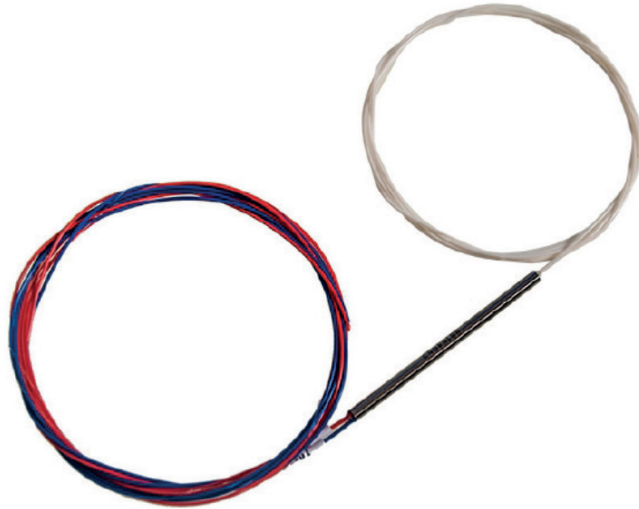
## General features
- Compact design.
- Low insertion loss and low polarization loss (PDL).
- ITU-T G.657A or G.652D, etc. - compliant.
- High reliability.
- Wide wavelength range.
- Customizing packaging and configuration.
- Full Telcordia GR1209 / 1221 qualifications.

**Description**
Fibramerica provides high precision cassete type PLC splitter for optical network construction.
Low requirement of placement position and environment, compact cassete type design, it can be easily placed in fiber optic splice box or any kind of box, which can reserve some space.
It can be easily applied in FTTx construction, optical network construction, CATV network and etc.

## General features
- Compact design.
- Low insertion loss and low PDL.
- High realiability.
- High number of channels.
- Wide wavelength range.
- Wide temperature range.
- Packaging and configuration setup.
- Complete Telcordia GR1209 / 1221 qualifications.

| FTB Splitter 1xN (N>2) without connectors | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Parameters | 1x2 | | | | | | | |
| Operating wavelength | 1310~1550nm | | | | | | | |
| Relation insertion loss (IL) | 1:99 | 2:98 | 5:95 | 10:90 | 20:80 | 30:70 | 40:60 | 50:50 |
| Insertion loss (IL) | ≤23.5 | ≤19.8 | ≤15.2 | ≤11.3 | ≤7.9 | ≤6.0 | ≤4.7 | ≤3.6 |
| Uniformity (dB) | ≤0.8 | ≤0.8 | ≤0.8 | ≤0.8 | ≤0.8 | ≤0.8 | ≤0.8 | ≤0.8 |
| Return loss (RL) | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 | ≤50 |
| Pigtail size | 1m standard or personalized | | | | | | | |
| Fiber type | G652D, G657A1, G657A2 | | | | | | | |
| Diameter | Input: 250µm or 900µm \| Output: 250µm or 900µm | | | | | | | |
| Operating temperature | -40℃ ~ 38℃ | | | | | | | |
| Connectors | SC/APC, SC/UPC or personalized | | | | | | | |

| PLC Splitter 1xN (N>2) with connectors | | | | | | | |
|---|---|---|---|---|---|---|---|
| Parameters | | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 |
| Operating wavelength | | 1260~1650nm | | | | | |
| Insertion loss (maximum) | | 4.1 | 7.4 | 10.5 | 13.8 | 17.1 | 20.4 |
| Return loss (minimum) | APC | 50 | 50 | 50 | 50 | 50 | 50 |
| | UPC | 55 | 55 | 55 | 55 | 55 | 55 |
| PDL (maximum) | | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 |
| Directivity | | 55 | 55 | 55 | 55 | 55 | 55 |
| Pigtail size | | 1m standard or personalized | | | | | |
| Fiber type | | G652D, G657A1, G657A2 | | | | | |
| Operating temperature | | -40℃ ~ 85℃ | | | | | |
| Microchip size | | 100x80x10 | 100x80x10 | 100x80x10 | 120x80x18 | 140x114x18 | 140x114x18 |

**Description**

Fibramerica provides high precision module and LGX box PLC splitter for optical network construction. Low placement position and environment requirements, compact insertion module and LGX box type design.

It is small enough to place in indoor terminal box and ODF frame or fiber optic distribution box directly.

The PLC optical splitter offers uniform power splitting with low insertion loss, low PDL and high return loss. The user can customize the optical splitting ratio for each output channel. The working wavelength range is from 1260 to 1650nm.

It can be easily applied in the construction of FTTx, optical networks, etc.

**General features**
- Compact design.
- Customizable number of channels.
- Customizable optical split ratio.
- Low insertion loss and low PDL.
- High realiability.
- High number of channels.
- Wide wavelength range.
- Wide operation range.
- Packaging and configuration.

**Description**

Trunk cable assemblies consist of 12~144F fiber optic cables and 12F MPO-MPO, MTP-MTP or MPO-LC connectors.

The pull-ring trunk cable assemblies are designed to be quickly pulled out and connected to plug and play modules for high performance, high density fiber connections.

**Features**
- Available from 12 to 144F fiber optic cables.
- Optional pull eye design to suit different installation environments.
- Round and minicore cable structure to eliminate kink sensivity.
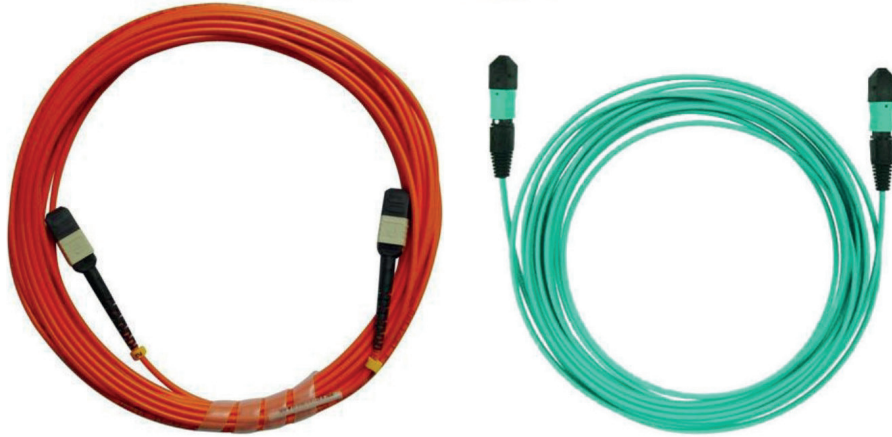- Available in multimode (OM1 62.5/125µm, OM2/OM3/OM4 50/125µm in 10/40/100G) and single-mode (G652D, G657A1, etc.).

**Standards**
- TIA/EIA 604-5, IEC61754, Telcodia GR 1435-CORE, GR-326-CORE.
- Low smoke emission (IEC 61304), Zero halogen (IEC60754-1), Flame retardant (IEC 60332-3C), Corrosion resistance (IEC 60754-2).

| PLC Splitter 1xN (N>2) with connectors | | | | | | |
|---|---|---|---|---|---|---|
| Parameters | | 1x2 | 1x4 | 1x8 | 1x16 | 1x32 | 1x64 |
| Operating wavelength | | 1260~1650nm | | | | | |
| Insertion loss (maximum) | | 4.1 | 7.4 | 10.5 | 13.8 | 17.1 | 20.4 |
| Return loss (minimum) | APC | 50 | 50 | 50 | 50 | 50 | 50 |
| | UPC | 55 | 55 | 55 | 55 | 55 | 55 |
| PDL (maximum) | | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 |
| Directivity | | 55 | 55 | 55 | 55 | 55 | 55 |
| Pigtail size | | 1m standard or personalized | | | | | |
| Fiber type | | G652D, G657A1, G657A2 | | | | | |
| Operating temperature | | -40℃ ~ 85℃ | | | | | |
| Microchip size | | 100x80x10 | 100x80x10 | 100x80x10 | 120x80x18 | 140x114x18 | 140x114x18 |

| Fiber | Fan-out length (cm) | Max. tensile strength (N) | Resistance to impact (N/cm) | Radius of curvature | | Temperature |
|---|---|---|---|---|---|---|
| | | | | Static | Dynamic | |
| 12 | 60~100 | 450 | 100 | 10D | 20D | -20℃~+60℃ |
| 24 | 60~100 | 450 | 100 | 10D | 20D | -20℃~+60℃ |
| 48 | 60~100 | 450 | 100 | 10D | 20D | -20℃~+60℃ |
| 72 | 60~100 | 450 | 100 | 10D | 20D | -20℃~+60℃ |
| 96 | 60~100 | 450 | 100 | 10D | 20D | -20℃~+60℃ |
| 144 | 60~100 | 450 | 100 | 10D | 20D | -20℃~+60℃ |

**Description**

Trunk cable assemblies consist of 12~144F fiber optic cables and 12F MPO-MPO, MTP-MTP or MPO-LC connectors.

The pull-ring trunk cable assemblies are designed to be quickly pulled out and connected to plug and play modules for high performance, high density fiber connections.

**Features**
- Available from 12 to 144F fiber optic cables.
- Optional pull eye design to suit different installation environments.
- Round and minicore cable structure to eliminate kink sensivity.
- Available in multimode (OM1 62.5/125μm, OM2/OM3/OM4 50/125μm in 10/40/100G) and single-mode (G652D, G657A1, etc.).

**Standards**
- TIA/EIA 604-5, IEC61754, Telcodia GR 1435-CORE, GR-326-CORE.
- Low smoke emission (IEC 61304), Zero halogen (IEC60754-1), Flame retardant (IEC 60332-3C), Corrosion resistance (IEC 60754-2).

| Fiber | Radius of curvature | | Temperature |
|-------|--------|---------|-------------|
|       | Static | Dynamic |             |
| 8~12  | 10D    | 20D     | -20°C~+60°C |
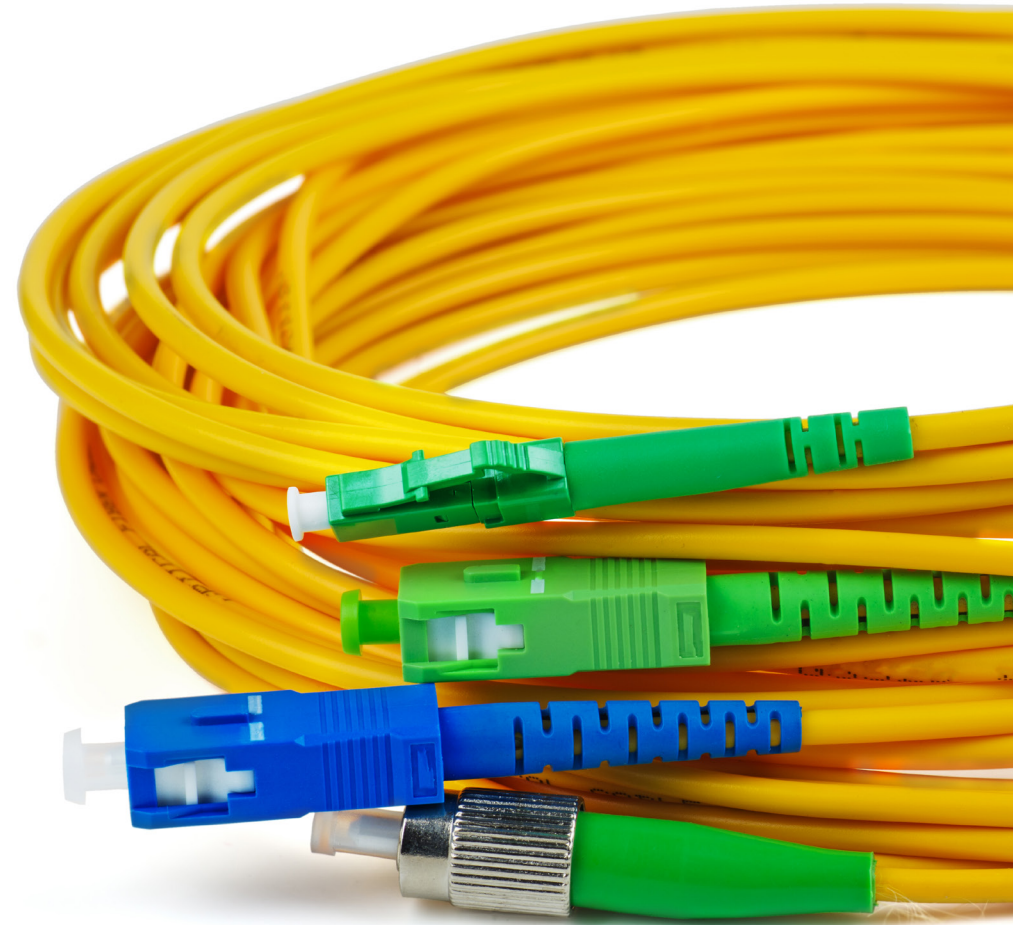
# Optical Distribution Frames

Fibramerica's Optical Distribution Frames (ODFs) are robust and efficient solutions for the organization and management of fiber optic networks. Designed to provide high connection density, these ODFs offer an optimized structure that facilitates the installation, maintenance, and expansion of telecommunications systems in data centers, enterprise networks, and critical infrastructure environments. Manufactured with high-quality materials and following international standards, ODFs are adaptable to various network configurations, providing flexibility and scalability to meet each customer's needs.

Fibramerica invests in innovation to ensure its ODFs meet the most demanding market requirements. With interchangeable modules and panels supporting various types of connectors, the ODFs enable more efficient fiber management, avoiding tangles and minimizing the risk of cable damage. Additionally, they feature protection systems against excessive tension and bending, ensuring that the fibers maintain their integrity even in high-density connection environments.

Another advantage of ODFs is the ease of access and maintenance. With panels that allow both front and rear openings, technicians can work more quickly and safely, whether adding new cables or maintaining existing ones. This significantly reduces downtime and improves operational efficiency, making them essential components for companies looking to minimize costs and maximize the efficiency of their fiber optic networks.

ODFs are also designed to support network expansions and upgrades, making them a scalable solution for projects of any size. The modularity of the systems allows new modules to be easily integrated into the existing frame without the need for complete replacements. This feature is crucial for clients seeking flexibility and cost-effectiveness, ensuring that their network infrastructure can evolve without major interventions or additional expenses.

Finally, Fibramerica's ODFs are rigorously tested to ensure compliance with international standards, such as ISO9001, and the quality demanded by leading telecommunications operators. This guarantees that every unit delivered meets the highest quality standards, providing customers with the confidence that their networks are protected and operating with maximum efficiency and security. With customizable, high-performance solutions, Fibramerica stands out as a leader in ODFs for fiber optic networks.

# Optical Dispensers (ODF)
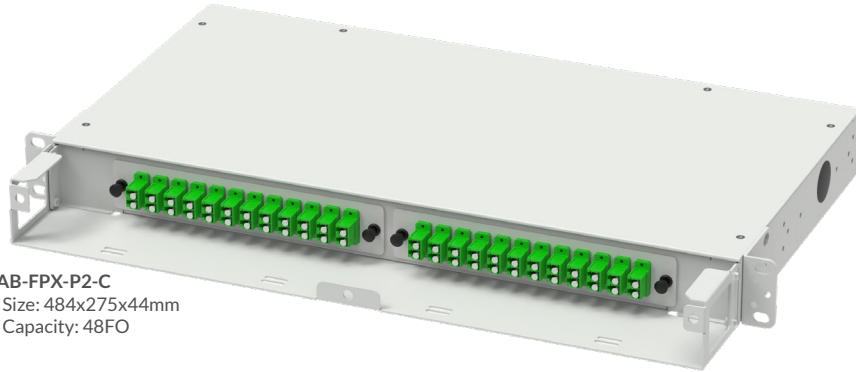


**FAB-FPX-P2-C**
- Size: 484x275x44mm
- Capacity: 48FO
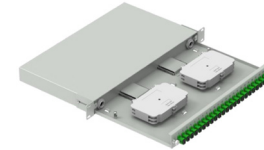
**FAB-FPX-P14**
- Size: 482x300x44mm
- Capacity: 24FO

**FAB-FPX-P15**
- Size: 482.6x270x108mm
- Capacity: 72FO

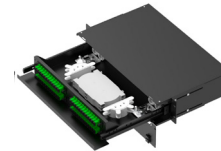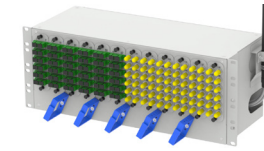**FAB-FPX-S18**
- Size: 482x300x44mm
- Capacity: 24FO

**FAB-FPX-S18-V2**
- Size: 482x300x44mm
- Capacity: 24 FO

**FAB-FSP-S19**
- Size: 482x250x44mm
- Capacity: 24 FO

**FAB-FSP-S2-F24-LC**
- Size: 482x340x44mm
- Capacity: 24 FO

**FAB-FPX-P1**
- Size: 482x276x200mm
- Capacity: 72 FO

**FAB-FPX-P2**
- Size: 482x250x88mm
- Capacity: 144 FO

**FAB-FPX-P4**
- Size: 434x482x255mm
- Capacity: 192 FO

**FAB-FPX-P5**
- Size: 482x250x88mm
- Capacity: 144 FO

**FAB-FSP-S21-48**
- Size: 482x310x88mm
- Capacity: 48 FO

**FAB-FSP-P14**
- Size: 482x175x173mm
- Capacity: 144 FO
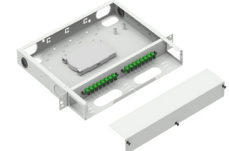
**FAB-FSP-SX1-16**
- Size: 482.6x360x53mm
- Capacity: 24 FO

**FAB-FPX-P13**
- Size: 482.6x275x59.4mm
- Capacity: 252 FO
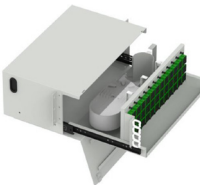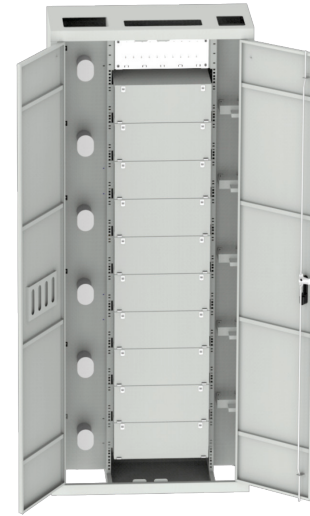
**FAB-FPX-S3**
- Size: 171.2x482x278mm
- Capacity: 144 FO
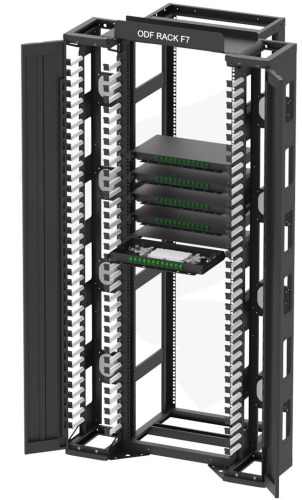
**FAB-FPX-S12**
- Size: 482x240x88mm
- Capacity: 96 FO

**FAB-FPX-SX4**
- Size: 380x482x176mm
- Capacity: 144 FO

**FAB-FPX-P10**
- Size: 482.6x365.5x44mm
- Capacity: 48 FO

**FAB-FPX-P11**
- Size: 482.6x280x44mm
- Capacity: 30 FO

**FAB-FPX-P12**
- Size: 482x230x127.2mm
- Capacity: 96 FO

**FAB-FPX-P13**
- Size: 482.6x275x594mm
- Capacity: 252 FO
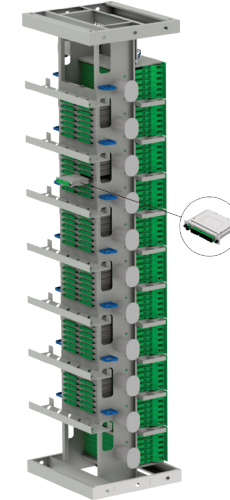
**FAB-FSP-F2-792A**
- Size: 2200x550x500mm
- Capacity: 792 FO

**FAB-FSP-F4-B**
- Size: 2200x900x300mm
- Capacity: 960 FO

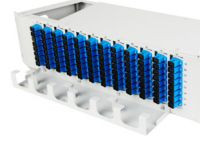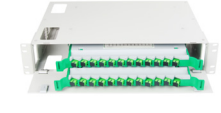**FAB-FSP-F7**
- Size: 2200x900x600mm
- Capacity: 1128 FO

# Optical Dispensers (ODF)



**FAB-FSP-S7-576A**
- Size: 470x482x190mm
- Capacity: 288 FO

**Description**

The FAB-FSP-S7-576A optical distributor is used to house pre-connectorized optical couplers, patch panels and splice trays in operation, so that together they form an optical transmission and reception platform. It is used as fiber optic cable HD terminal equipment for splicing and patching.

**Specification**
- The unit consist of two mais parts: patching unit and splicing unit.
- Patching unit and splicing unit can be flexibly combined and installed interchangeably from left to right.
- Reasonable guide line system to guarantee fiber diameter ≥40mm.
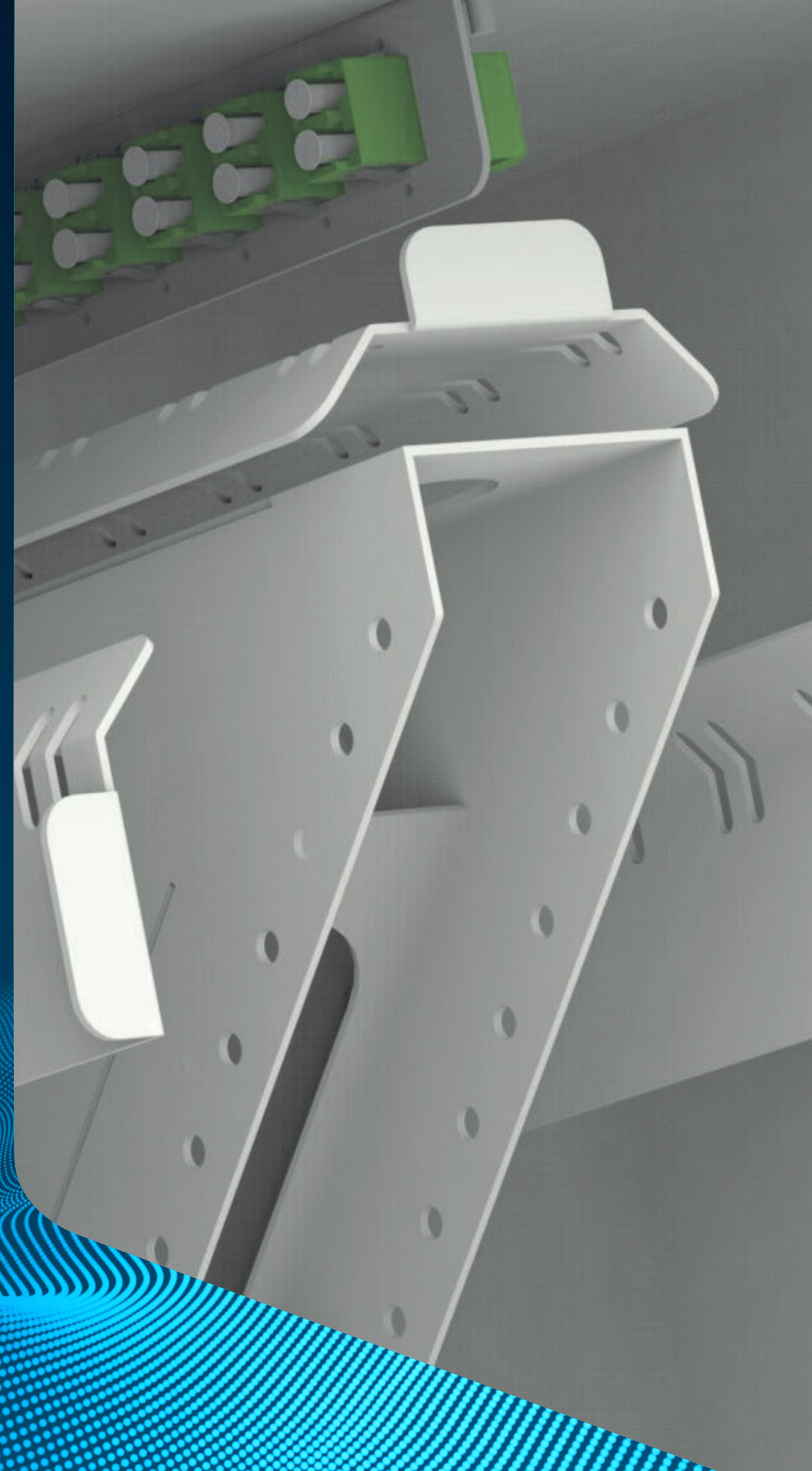- Small size, easy installation.

# Racks and Cabinets

Fibramerica's metal line of racks and cabinets is designed to meet the needs of IT and telecommunications infrastructure efficiently and securely. These racks are made with high-quality materials and feature a robust construction that ensures durability and strength, even in demanding environments. With various size and configuration options, Fibramerica offers versatile solutions that adapt to data centers, enterprise networks, and other critical spaces requiring efficient and reliable organization.

The metal racks are engineered to optimize ventilation and thermal management of equipment, allowing for effective heat dissipation. They feature removable panels and perforated doors that facilitate airflow, ensuring that internal components maintain adequate temperatures and operate stably. Additionally, the modular structure of the racks allows for easy integration of additional ventilation systems if needed, providing flexibility to meet different thermal demands.

Fibramerica's metal cabinet line also stands out for its focus on equipment security and protection. With locking systems and reinforced doors, the cabinets offer physical protection against unauthorized access and potential damage. Furthermore, the racks feature high-quality finishes and anti-corrosion treatments, ensuring a long service life even in environments subject to climate variations and humidity.

Finally, Fibramerica designs its racks and cabinets with practicality and ease of installation in mind. With quick-mounting systems and optimized internal space, the metal line allows for efficient organization of cables and components, reducing the time and effort needed for installation and maintenance. These features make Fibramerica's metal line of racks and cabinets an ideal choice for companies seeking robust, secure solutions that ensure maximum performance for their IT and telecommunications systems.

**FAB-FDT-288**
- Max. capacity: 288 FO

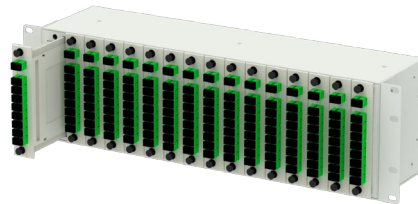

**FAB-FSP-FDC-48A**
- Max. capacity: 72 FO



**FAB-FSP-FDC-144B**
- Max. capacity: 144 FO



**FAB-FSP-FDC-CP-A**
- Max. capacity: 576 FO



**FAB-F4-B**
- Capacity: 6U



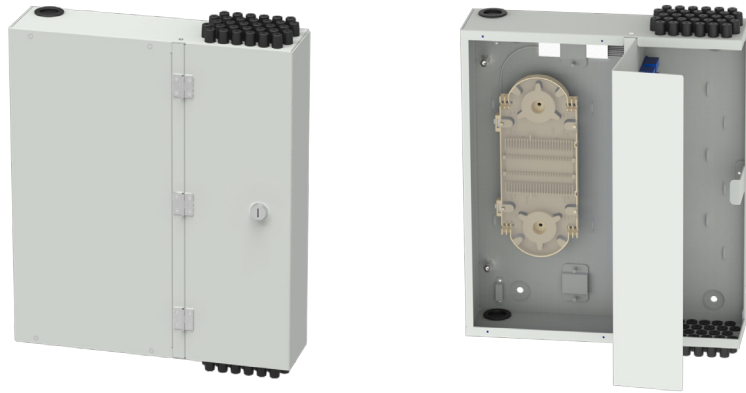**FAB-FSP-SX2**
- Max. capacity: 120 FO



**FAB-FSP-M-01-288**
- Max. capacity: 288 FO



**FAB-FSP-FDC-576B**
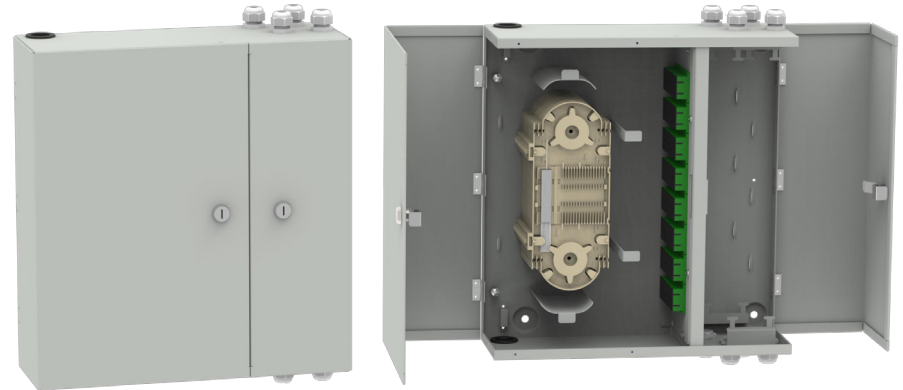- Max. capacity: 624 FO

**Description**
**FAB-FSP-M-DW** series fiber distribution box is used as a terminal point for the feeder cable to connect with the drop cable in the telecommunication network system. Fiber splicinga, splitting, distribution can be done in this box, and meanwhile it provides protection and management for FTTx network construction.

- Size: 375x355x100mm
- Capacity: 96 FO



**Description**
**FAB-FSP-M-DW-96** fiber distribution box is used as a terminal point for the feeder cable to connect with the drop cable in the telecommunication network system. Fiber splicinga, splitting, distribution can be done in this box, and meanwhile it provides protection and management for FTTx network construction.
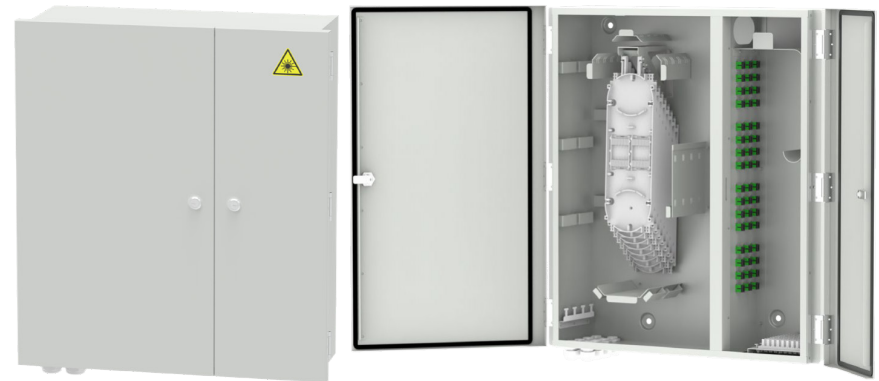
- Size: 375x355x120mm
- Capacity: 48 FO



**Description**
**FAB-FSP-M-DW-A** series fiber distribution box is used as a terminal point for the feeder cable to connect with the drop cable in the telecommunication network system. Fiber splicinga, splitting, distribution can be done in this box, and meanwhile it provides protection and management for FTTx network construction.

- Size: 661x557x212mm
- Capacity: 96 FO



**Description**
**FAB-FSP-M-DW-B** series fiber distribution box is used as a terminal point for the feeder cable to connect with the drop cable in the telecommunication network system. Fiber splicinga, splitting, distribution can be done in this box, and meanwhile it provides protection and management for FTTx network construction.

- Size: 626x564x200mm
- Capacity: 144 FO

**FIBRAMÉRICA**

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