

A 3D rendering of a microchip or circuit board, viewed from an isometric perspective. The components are illuminated with a warm orange glow. The background is dark, and there are large, abstract teal shapes overlaid on the right side of the image. The overall aesthetic is modern and technological.

FIBRAMÉRICA

# SOLUTIONS FOR MICRODUCT INSTALLATION



5G



# 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.





# Microducts Systems

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Microduct systems are revolutionizing fiber optic infrastructure deployment, offering unmatched efficiency, scalability, and adaptability in telecommunications.

Superior to traditional methods, these systems facilitate quicker installations with a considerably lower impact on the environment and urban landscapes. The slim and flexible design of microducts allows seamless integration into existing spaces, including underground conduits and alongside established structures, drastically reducing the need for new constructions or extensive digging.

More than just efficient resource management through the installation of fewer fibers and the capability for easy capacity expansion in response to growing demand, these systems provide exceptional protection for optical fibers against environmental hazards and physical damage. This results in a substantial increase in the infrastructure's longevity and significantly lowers maintenance and repair expenses.

Fibramérica champions the adoption of microduct technology, offering a comprehensive product range. This is vital in the evolving telecommunications sector, where data needs are skyrocketing, and diverse geographical challenges exist across continents.

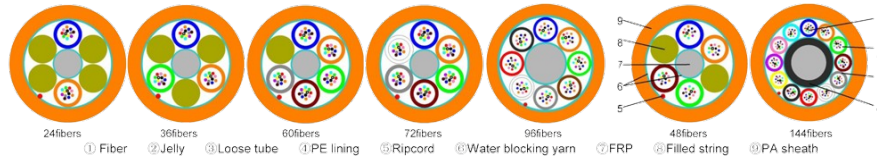
As such, Fibramérica emerges as a leading provider of infrastructure solutions, delivering optical fiber networks with remarkable speed, adaptability, and cost-effectiveness.

Microducts efficiently utilize available spaces, preventing underground clutter and disarray. They are particularly beneficial in challenging terrains like mountainous or expansive rural areas, providing a respectful alternative to the landscape and ecosystem. They ensure connectivity without major alterations to the natural terrain. Fiber optic networks, seen as the backbone of future technological progress, are crucial for embracing cutting-edge developments like 5G, the Internet of Things (IoT), and the widespread use of cloud services.





n Cable-05/AT



**Description**

Fibramérica's Air Blown Micro Cables are designed for metro feeder or access networks. These ultra-lightweight and small diameter cables are ideal for air-blown installation into micro ducts, allowing for lower initial investment and future upgrades with the latest fiber technologies.

**Key Features**

- High fiber density with perfect cable structure
- Accurate fiber length balance for stable performance
- Gel-free cable core for water blocking
- Innovative sheath structure enhancing blowing performance
- Extended blowing distances
- Fiber options: G.G652D, G.657A1, G.657A2

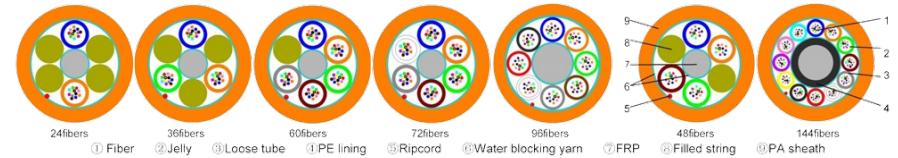
**Specifications**

- Variety of fiber counts ranging from 24 to 432
- Nominal diameter ranging from 4.4±0.2 mm to 9.3±0.2 mm
- Weight, tensile strength, and operational temperature vary based on fiber count
- Operational temperature range: -40°C to +70°C

**Blowing Performance**

- Compatible with specific blowing machines like PLUMETTAZ PR-140, MiniJet-400
- Suitable microduct diameters and blowing distances provided for different fiber counts

The FAB-MICROL series offers a range of options for diverse installation needs, balancing high-tech performance with ease of deployment.



**Description**

Fibramérica's G652D Series Air Blown Micro Cables are ultra-lightweight and small diameter cables designed for air-blown installation in metro feeder or access networks. These cables are perfect for initial installations with the flexibility for future fiber technology upgrades.

**Key Features**

- High-density fiber structure for optimal performance.
- Balanced fiber length for stable operation.
- Gel-free core for effective water blocking.
- Innovative sheath design for enhanced blowing performance.
- Extended blowing distances.
- Fiber Types: G.G652D, G.657A1, G.657A2.

**Specifications**

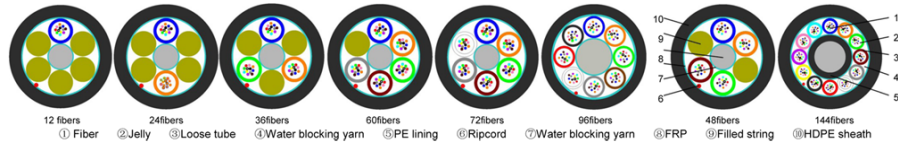
- Fiber Counts: 12 to 288 fibers.
- Nominal Diameter: 5.1±0.1 mm to 9.3±0.1 mm.
- Weight and Tensile Strength vary by fiber count.
- Operational Temperature Range: -40°C to +70°C.

**Blowing Performance**

- Compatible with PLUMETTAZ PR-140, MiniJet-400 machines.
- Blowing distances up to 2500m in specific duct sizes.

This cable series is tailored for expansive network installations requiring high-density fiber deployment with efficient installation methods.





### Description

Fibramérica's PE Micro Cable series are ultra-lightweight, small diameter cables specifically crafted for air-blown installation in metro feeder or access networks. These cables are ideally suited for initial deployments, providing the necessary flexibility for future upgrades to the latest fiber technologies.

### Key Features

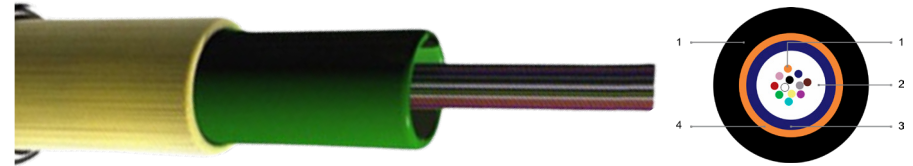
- High-density fiber structure ensuring optimal performance.
- Accurate fiber length balance for stable and reliable operation.
- Gel-free core design for effective water blocking, enhancing longevity.
- Innovative sheath structure, specifically designed to enhance blowing performance and facilitate easier installation.
- Capable of greater blowing distances, expanding the range of installation.
- Fiber Types: Includes a variety of fibers such as G.G652D, G.657A1, G.657A2.

### Specifications

- Fiber Counts: Available in a range from 12 to 288 fibers, catering to various network needs.
- Nominal Diameter: Ranges from 5.2±0.1 mm to 9.4±0.1 mm, depending on the fiber count.
- Weight and Tensile Strength: Varies based on fiber count, with a maximum tensile strength of up to 1000 N.
- Operational Temperature Range: Designed to withstand temperatures from -40°C to +70°C, ensuring reliability under diverse environmental conditions.

### Blowing Performance

- Compatible with various blowing machines like PLUMETTAZ PR-140 and MiniJet-400.
- Suitable for installation in a range of microduct sizes, offering blowing distances up to 2300 meters in 10/8 ducts and 1500 meters in 14/12 ducts.



1. Fiber 2. Jelly 3. Loose Tube 4. Reinforced element 5. HDPE Sheath

### Description

Fibramérica's Air Blown Micro Cables are designed with ultra-lightweight construction and small diameter, ideal for metro feeder or access network installations. These cables are specifically tailored for air-blown installation into micro ducts. They offer a cost-effective initial deployment with the flexibility to accommodate and upgrade to the latest fiber technologies subsequently.

### Key Features

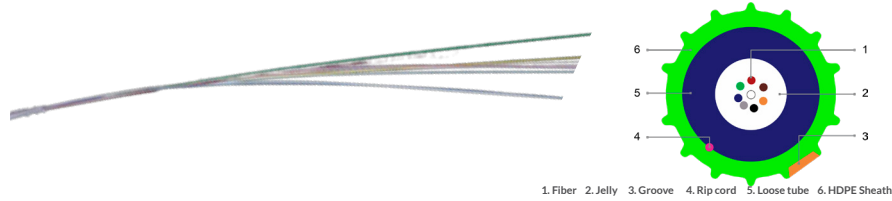
- Optimally structured for high fiber density, ensuring superior performance.
- Precisely balanced fiber length for consistent and stable performance.
- Gel-free cable core for effective water blocking, enhancing durability.
- Innovative sheath design that significantly improves the cable's blowing performance.
- Achieves greater blowing distances, facilitating extensive network installations.
- Fiber Types: Includes G.G652D, G.657A1, G657A2, and multimode fiber options.

### Specifications

- Fiber Counts: Available from 2 to 24 fibers, suitable for various network scales.
- Nominal Diameter: Consistently sized at 4.0±0.1 mm for fiber counts up to 12, and 4.5±0.1 mm for 24 fibers.
- Nominal Weight: Maintains a lightweight profile, with a nominal weight of 10 kg/km for up to 12 fibers, and 14 kg/km for 24 fibers.
- Maximum Tensile Strength: Ranges from 120 N for lower fiber counts to 150 N for 24 fibers.
- Operational Temperature Range: Engineered for durability in temperatures ranging from -40°C to +60°C.

### Blowing Performance

- Compatible with PLUMETTAZ PR-196 and PR-140 blowing machines.
- Suitable for various microduct sizes, with blowing distances reaching up to 2500 meters in 10/8 ducts and 1500 meters in 7/5.5 ducts.



1. Fiber 2. Jelly 3. Groove 4. Rip cord 5. Loose tube 6. HDPE Sheath

**Description**

Designed for FTTX applications, the MINI Series by Fibramérica is a compact and lightweight cable ideal for air-blown installation into micro tube bundles. The cable features an enhanced surface outer sheath fiber unit and a protective thermoplastic layer for excellent installation properties.

**Key Features**

- Small diameter, freeing up capital for network expansion.
- Offers network design flexibility.
- Suitable for 5/3.5mm microducts.
- Easy to upgrade, supporting a variety of fibers including G.G652D, G.657A1, G.657A2, and multimode fiber.

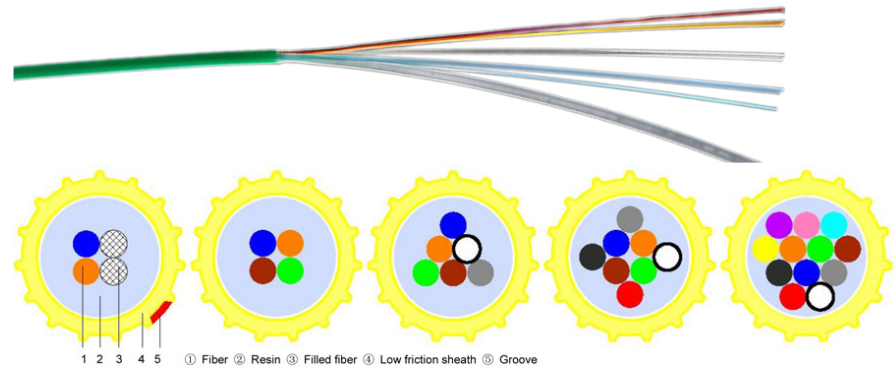
**Specifications**

- Fiber counts range from 2 to 24.
- Nominal diameter: 2.0±0.1 mm to 2.8±0.1 mm.
- Nominal weight: 4 to 7.5 kg/km.
- Minimum bend radius: 20 times the cable diameter.
- Operating temperature: -30°C to +50°C.

**Blowing Performance**

- Compatible with PLUMETTAZ PR-140, MiniJet-400.
- Suitable for various microduct sizes, with blowing distances ranging up to 1500 meters.

The Fibramérica Air Blown Mini Cable (MINI) Series is specifically designed for fiber-to-the-x (FTTX) applications, which primarily involve the installation of fiber optic cables in telecommunications. These applications typically include fiber-to-the-home (FTTH), fiber-to-the-building (FTTB), and other scenarios where small diameter and lightweight cables are ideal for minimally invasive installations.



1. Fiber 2. Resin 3. Filled fiber 4. Low friction sheath 5. Groove

**Description**

The Fibramérica EPFU Series is a cutting-edge, air-blown fiber unit, characterized by its small size and lightweight design. Engineered for optimal protection and installation efficiency, the EPFU series is ideal for modern fiber optic networks.

**Key Features**

- Compact and lightweight, enhancing ease of installation.
- Suitable for 5/3.5mm microducts, offering network design flexibility.
- Available fibers: G.G652D, G.657A1, G.657A2.

**Specifications**

- Fiber counts range from 2 to 12.
- Nominal diameter: 1.15±0.05 mm to 1.65±0.05 mm.
- Minimal bend radius and temperature tolerance for diverse environments.

**Application**

Perfect for fiber-to-the-x (FTTX) applications, the EPFU series is designed to meet the demands of expansive network installations, particularly in urban and high-density areas where space efficiency is paramount.



# Accessories and Tubes

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Fibramerica is renowned for its high-quality fiber optic solutions, and its range of microduct accessories and tubes stands out in the industry. These products are designed to enhance the performance and reliability of fiber optic networks, ensuring seamless connectivity and optimal data transmission.

Fibramerica offers a comprehensive range of microduct accessories that cater to various installation needs. These accessories include connectors, couplers, and end caps, which are essential for securing and protecting fiber optic cables within the microducts. The connectors ensure precise alignment and secure connections, minimizing signal loss and maintaining high-speed data transmission. Couplers facilitate easy joining of microducts, allowing for flexible network expansion without compromising the integrity of the connection. End caps provide a robust seal, protecting the cables from environmental factors such as moisture and dust.

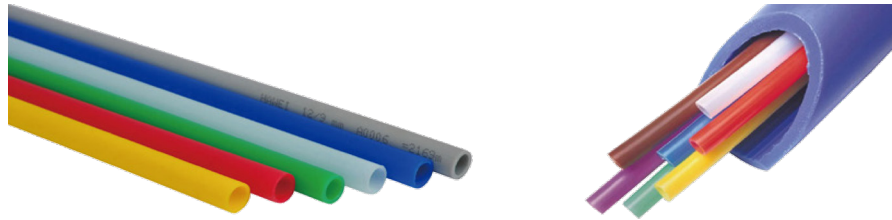
The microduct tubes are engineered to provide a reliable conduit for fiber

optic cables. These tubes are made from high-density polyethylene (HDPE), offering excellent durability and resistance to environmental stresses. The smooth inner surface of the tubes ensures low friction, making it easier to install and pull the fiber optic cables through long distances. Available in various sizes and configurations, Fibramerica's microduct tubes can accommodate different fiber counts and installation requirements, making them suitable for a wide range of applications, from urban to rural deployments.

By integrating Fibramerica's microduct accessories and tubes into fiber optic networks, operators can achieve enhanced performance and reliability. The precision-engineered components ensure that the fiber optic cables are well-protected and optimally aligned, reducing the risk of signal degradation and maintaining high data transfer rates. This results in a more robust and efficient network, capable of meeting the increasing demand for high-speed internet and data services.







**Main features**

- 5.0mm~16.0mm outer diameter
- Permanent solid silicon lubricant layer in the inner wall of pipe
- Longitudinal ribbed inner wall of micro duct to further reduce the inner friction coefficient of pipe so as to be beneficial to cable blowing
- Maximal accomodation is 288F micro cables
- Can be placed into th existing pipe system to fulfill the pipe hole expansion
- Reduce the construction cost and shorten the construction period

Specifications						
O.D. (mm)	I.D. (mm)	Thickness (mm)	SDR	Min. Bend Radius (mm)	Max. Tensile Strength	
					N	Kg
5	3.5	0.75	6.7	60	150	15
7	3.5	1.75	4.0	100	430	43
7	5.5	0.75	9.3	84	220	22
8	6	1.0	8.0	80	330	33
10	8	1.0	10.0	120	420	42
12	8	2.0	6.0	144	935	93.5
12	10	1.0	12.0	144	515	51.5
14	10	2.0	7.0	200	1010	101
14	12	1.0	14.0	200	550	55
16	12	2.0	8.0	300	1150	115
16	14	1.0	16.0	300	630	63



**Main features**

- Quite thin wall thickness of outer sheating
- The assembled micro ducts are separated from each other, so they can be relatively displaced so as for micro duct selection and connection
- Applied to be placed into the cement pipe, steel pipe, PVC pipe for existing pipe expansion

Specifications					
5/35mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
1 way	8.4	440	45	120	1000
2 ways	8.3*13.4	700	72	120	1000
4 ways	15.5	1050	112	200	1000
7 ways	18.4	1500	158	240	1000
12 ways	24.4	2300	238	310	1000
19 ways	28.4	3200	329	360	1000
24 ways	33.4	4200	435	500	1000
10/8mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
1 way	13.4	850	91	180	1000
2 ways	13.4*23.4	1500	155	180	1000
4 ways	27.4	250	250	370	1000
7 ways	33.4	3900	368	500	1000
12/10mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
1 way	15.4	1060	108	200	1000
2 ways	15.4*27.4	1800	180	200	1000
4 ways	32.4	3000	295	500	1000
7 ways	39.4	4500	435	600	1000





**Main features**

Quite thick wall thickness of outer sheathing to provide the mechanical protection for the inner micro ducts and micro cables:

- The assembled micro ducts are separated from each other, so they can be relatively displaced so as for micro duct selection and connection
- Applied for the buried placement of long-distance trunk line, metropolitan area network route

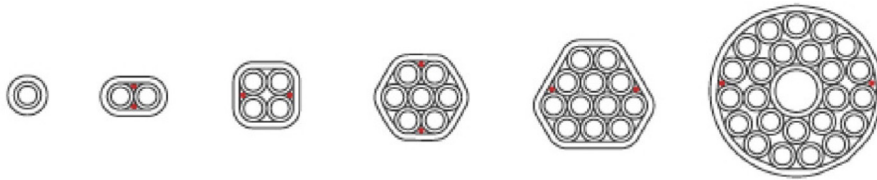
Specifications					
5/35mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
1 way	11.8	1000	96	120	2000
2 ways	11.8*16.8	1400	140	160	2000
4 ways	18.9	2000	196	220	2000
7 ways	21.8	2600	255	300	2000
12 ways	27.8	3800	365	380	2000
19 ways	31.8	4800	475	500	2000
24 ways	36.8	6000	610	600	2000
10/8mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
1 way	16.8	1800	165	210	2000
2 ways	16.8*26.8	2800	258	260	2000
4 ways	30.8	4000	396	500	2000
7 ways	36.8	5500	545	640	2000
12/10mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
1 way	18.8	2000	190	240	2000
2 ways	18.8*30.8	3000	302	240	2000
4 ways	35.8	4800	467	540	2000
7 ways	42.8	6300	642	750	2000



**Main features**

- Thick wall thickness design of micro duct, which can reach 1.5mm~2.0mm
- Quite thin wall thickness of outer sheathing so as to be convenient for opening of outer sheathing to benefit for the construction operations, such as the branching, maintenance of inner micro ducts

Specifications					
12/8mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
2 way	14.4*26.4	1960	198	220	2000
4 ways	31.4	3500	355	440	2000
7 ways	38.4	5600	565	650	2000
12/9mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
4 ways	35.0	5200	475	500	2000
7 ways	42.0	6600	696	680	2000
14/10mm Series	O.D. (mm)	Max. Tensile Strength (N)	Weight (kg/km)	Min. Bend Radius (mm)	Crush (N)
4 ways	30.4*30.4	4200	425	500	2000
7 ways	44.4	6800	675	750	2000



**Main features**

- Oxygen index 37%
- Fire resistance complies with IEC 60332-1 Vertical Burning Test
- Low smoke, zero halogen while burning

Specifications				
	Ways	Microduct	Wall Thick-ness of Outer Shearing (mm)	Nominal OD
LZSH 5/3.5mm	single	5/3.5mm	-	5mm
LZSH 10/8mm	single	10/8mm	-	10mm
LZSH 12/10mm	single	12/10mm	-	12mm
LZSH 14/10mm	single	5/3.5mm	-	14mm
LZSH 4x 5/3.5mm	4	5/3.5mm	1.2mm	13.5mm
LZSH 7x 5/3.5mm	7	5/3.5mm	1.2mm	17.5mm
LZSH 12x 5/3.5mm	12	5/3.5mm	1.2mm	21.5mm
LZSH 19x 5/3.5mm	19	5/3.5mm	1.2mm	27.4mm
LZSH 4x 12/10mm	4	12/10mm	1.2mm	31.0mm
LZSH 7x 12/10mm	7	12/10mm	1.2mm	38.4mm



**Main features**

- With HDPE as its main material, it has good mechanical performance to provide the adequate protection for cable
- Solid, permanent silicon lubricant layer of inner wall efficiently lowers the inner wall friction coefficient to benefit for the long distance cable blowing
- Silicon layer is co-extruded into the inner wall of pipping; cable in the pipe can be repeatedly drawn off without being peeled off or broken away





Meanwhile the duct is extruded into the form, the cable is synchronously and safely put into the duct by special equipment and then the duct with the cable inside can be together delivered to the customers.

**Advantages**



**1** Save the transportation expenses



**2** No need cable blowing so as to save the blowing expenses



**3** No trouble in effective distance of cable blowing, raise efficiency, make the trench treatment simple to resolve site constrains because the duct and cable placements can be completed by one step after the PCD placement into the trench and direct backfill



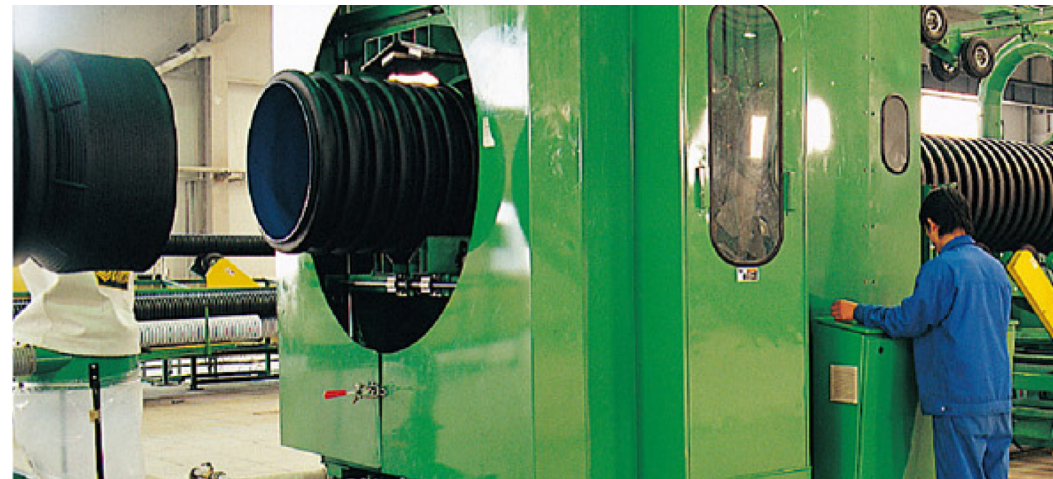
**4** Reduce the fiber fusion to lower the transmission loss and improve the transmission quality



**Main features**

- Special corrugated structure to save the raw material and good ring stiffnes
- Both has good compreensive strength and flexibility to efficiently resist terrain subsidence and shear
- Light weight to be convenient for the transportation and low construction intension
- Low friction coefficient inside the pipe
- Anti-corrosion, ageing resistance, long performance life

Specifications				
	Ring Stiffness Grade	O.D. (mm)	I.D. (mm)	Lenght (m)
DN/ID76	SN8	90	76	12
DN/ID95	SN8	110	95	12







# Microduct Connectors

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Fibramerica's microduct connectors are a vital component of its comprehensive fiber optic solutions, designed to ensure robust and efficient connections in microduct systems. These connectors are meticulously designed to maintain the integrity and performance of fiber optic networks, catering to a wide range of installation scenarios and network configurations.

Constructed from durable materials that resist environmental stress and mechanical wear. This durability ensures long-lasting performance, even in challenging conditions, providing a reliable connection that minimizes maintenance requirements and reduces the risk of network downtime. One of the stand-out features is their precision engineering. These connectors ensure the exact alignment of fiber optic cables within the microducts, which is crucial for maintaining optimal signal transmission. The precise fit reduces signal loss and attenuation, thus increasing the overall efficiency and speed of the network.

Fibramerica's microduct connectors are designed for easy installation, making

them the preferred choice of network technicians and engineers. The easy-to-use design allows for quick and secure connections, facilitating faster deployment of fiber optic networks. This ease of use translates into reduced labor costs and shorter installation times, making network expansions and upgrades more efficient. They are highly versatile, compatible with a variety of microduct sizes and configurations. This flexibility makes them suitable for different types of fiber optic installations, whether in urban environments with dense infrastructure or in rural areas that require longer cables. They adapt to the specific needs of each project, providing reliable performance in a variety of applications.

By using Fibramerica's microduct connectors, network operators can ensure better performance and reliability of their fiber optic networks. The secure and precise connections help maintain high data transfer rates and minimize signal degradation. This results in a more robust network, capable of handling high-bandwidth applications and providing superior Internet services to end users.





**Main features**

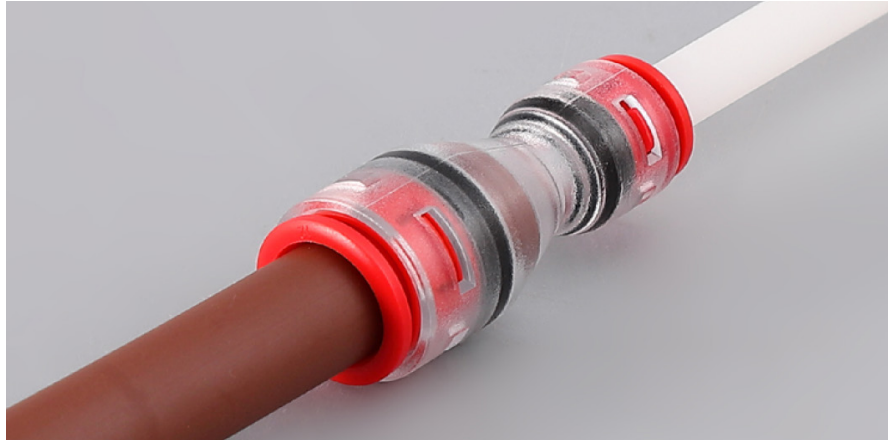
- Connect two microducts which are the same outer diameter
- Easy installation, without any special tools
- Transparent plastic body, easy to observe the situation
- High Temperature resistance -20°C ~+50°C
- High Pressure resistance >25bar
- IP Rate: IP68
- FR Resistance style also available
- Standard: EN50411

**Material**

- Body: Polycarbonate
- Washer: Polyacetal
- Collar: Polyacetal
- Seal: NBR
- Lock Claws: SUS
- Sleeve: Polyacetal



Specification	Duct OD/ID(mm)	Bore(mm)
Straight Connector STR3/2.1	3/2.1	2.1
Straight Connector STR4/2.5	4/2.5	2.5
Straight Connector STR5/2.1	5/2.1	2.1
Straight Connector STR5/3.5	5/3.5	3.5
Straight Connector STR6/4	6/4	4
Straight Connector STR7/3.5	7/3.5	3.5
Straight Connector STR7/4	7/4	4
Straight Connector STR7/5.5	7/5.5	5.5
Straight Connector STR8/3.5	8/3.5	3.5
Straight Connector STR8/5	8/5	5
Straight Connector STR8/6	8/6	6
Straight Connector STR8.5/6	8.5/6	6
Straight Connector STR10/6	10/6	6
Straight Connector STR10/8	10/8	8
Straight Connector STR12/8	12/8	8
Straight Connector STR12/9	12/9	9
Straight Connector STR12/10	12/10	10
Straight Connector STR12.7/10	12.7/10	10
Straight Connector STR14/10	14/10	10
Straight Connector STR14/12	14/12	12
Straight Connector STR16/12	16/12	12
Straight Connector STR16/13	16/13	13
Straight Connector STR18/14	18/14	14
Straight Connector STR20/16	20/16	16
Straight Connector STR22/18	22/18	18



Specification	Duct OD/ID(mm)		THR Bore(mm)
	Duct A	Duct B	
Reducer Connector BRE7/5.5-5/3.5	7/5.5	5/3.5	5.5>3.5
Reducer Connector BRE8/4.4-7/3.5	8/4.4	7/3.5	4.4>3.5
Reducer Connector BRE8/4.4-3/2.1	8/4.4	3/2.1	4.4>2.1
Reducer Connector BRE8/4.4-5/3.5	8/4.4	5/3.5	4.4>3.5
Reducer Connector BRE8-7/5.5	8/5.5	7/5.5	5.5
Reducer Connector BRE8/4.4-7/3.5	8/4.4	7/3.5	4.4>3.5
Reducer Connector BRE8/5-7/3.5	8/5.5	7/3.5	5>3.5
Reducer Connector BRE8/6-3/2.1	8/6	3/2.1	6>2.1
Reducer Connector BRE8/6-5/3.5	8/6	5/3.5	6>3.5
Reducer Connector BRE8/6-7/3.5	8/6	7/3.5	6>3.5
Reducer Connector BRE8/6-7/4	8/6	7/4	6>4
Reducer Connector BRE8.5/6-5/3.5	8.5/6	5/3.5	6>3.5
Reducer Connector BRE8.5-8/6	8.5/6	8/6	6
Reducer Connector BRE10/8-8.5/6	10/8	8.5/6	8>6
Reducer Connector BRE10/8-7/3.5	10/8	7/3.5	8>3.5
Reducer Connector BRE10/6-7/4	10/8	7/4	6>4
Reducer Connector BRE10/8-5/3.5	10/8	5/3.5	8>3.5
Reducer Connector BRE10/8-7/5.5	10/8	7/5.5	8>5.5
Reducer Connector BRE10-8/6	10/8	8/6	8>6
Reducer Connector BRE10-8.5/6	10/6	8.5/6	6
Reducer Connector BRE12/10-5/3.5	12/10	5/3.5	10>3.5
Reducer Connector BRE12/10-7/3.5	12/10	7/3.5	10>3.5
Reducer Connector BRE12/10-7/5.5	12/10	7/5.5	10>5.5
Reducer Connector BRE12/10-8/4.4	12/10	8/4.4	8>4.4
Reducer Connector BRE12/10-8/5	12/10	8/5	10>5
Reducer Connector BRE12/10-8/6	12/10	8/6	10>6
Reducer Connector BRE12/10-10/8	12/10	10/8	10>8
Reducer Connector BRE12/8-10/6	12/8	10/6	8>6
Reducer Connector BRE12/10-8/5	12/10	8/5	10>5
Reducer Connector BRE12/10-8/6	12/10	8/6	10>6
Reducer Connector BRE12-10/8	12/10	10/8	8

Specification	Duct OD/ID(mm)		THR Bore(mm)
	Duct A	Duct B	
Reducer Connector BRE5/3.5-3/2.1	5/3.5	3/2.1	3.5>2.1
Reducer Connector BRE5-4/2.1	5/2.1	4/2.1	2.1
Reducer Connector BRE5/3.5-4/2.8	5/3.5	4/2.8	3.5>2.8
Reducer Connector BRE7-3/2.1	7/5.5	3/2.1	5.5>2.1
Reducer Connector BRE7/4-4/2.1	7/4	4/2.1	4>2.1
Reducer Connector BRE7/5.5-4/2.8	7/5.5	4/2.8	5.5>2.8
Reducer Connector BRE7-5/3.5	7/3.5	5/3.5	3.5
Reducer Connector BRE7/3.5-5/2.1	7/3.5	5/2.1	3.5>2.1



Specification	Duct OD/ID(mm)		THR Bore(mm)
	Duct A	Duct B	
Reducer Connector BRE12.7/10-8/6	12.7/10	8/6	10>6
Reducer Connector BRE12.7/10-8.5/6	12.7/10	8.5/6	10>6
Reducer Connector BRE12.7/10-10/8	12.7/10	10/8	10>8
Reducer Connector BRE12.7-12/10	12.7/10	12/10	10
Reducer Connector BRE14/12-7/5.5	14/12	7/5.5	12>5.5
Reducer Connector BRE14/12-7/3.5	14/12	7/3.5	12>3.5
Reducer Connector BRE14/10-8.5/6	14/10	8.5/6	10>6
Reducer Connector BRE14/10-8/4	14/10	8/4	10>4
Reducer Connector BRE14/10-12/8	14/10	12/8	10>8
Reducer Connector BRE14/12-10/8	14/12	10/8	12>8
Reducer Connector BRE14/12-12/10	14/12	12/10	12>10
Reducer Connector BRE14-12/10	14/12	12/10	10
Reducer Connector BRE14/12-12.7/10	14/12	12.7/10	12>10
Reducer Connector BRE16/13-10/8	16/13	10/8	13>8
Reducer Connector BRE14/10-8/4	14/10	8/4	10>4
Reducer Connector BRE14/10-7/3.5	14/10	7/3.5	10>3.5
Reducer Connector BRE16/12-12/10	16/12	12/10	12>10
Reducer Connector BRE16/12-12/8	16/12	12/8	12>8
Reducer Connector BRE16/12-12.7/10	16/12	12.7/10	12>10
Reducer Connector BRE16-14/10	16/14	14/10	10
Reducer Connector BRE16/12-14/10	16/12	14/10	12>10
Reducer Connector BRE18/14-14/10	18/14	14/10	14>10
Reducer Connector BRE18/16-16/12	18/16	16/12	16>12
Reducer Connector BRE22/18-18/14	22/18	18/14	18>14
Reducer Connector BRE20/16-16/12	20/16	16/12	16>12
Reducer Connector BRE20/16-14/10	20/16	14/10	16>10
Reducer Connector BRE20/16-12/10	20/16	12/10	16>10
Reducer Connector BRE22-20/16	22/16	20/16	16



Specification	Duct OD/ID(mm)
Endstop connector EST3	3
Endstop connector EST4	4
Endstop connector EST5	5
Endstop connector EST6	6
Endstop connector EST7	7
Endstop connector EST8	8
Endstop connector EST8.5	8.5
Endstop connector EST10	10
Endstop connector EST12	12
Endstop connector EST12.7	12.7
Endstop connector EST14	14
Endstop connector EST16	16
Endstop connector EST18	18
Endstop connector EST20	20
Endstop connector EST22	22



**Main features**

- Length: 316mm (12.4")
- Width: 220mm (8.7")
- Height: 70mm (2.8")
- Weight: 1232g(43.5oz)
- Color: Shells to be Black, all the other plastic parts are to be black
- IP Grade: IP68
- Application: DB or DI
- Crush: 2000N/15mins
- Impact: > 15 joule
- For Duct size: Least than OD ≤ 38mm

**Material**

- Shell: ABS
- Spacers: Nylon
- Seal: TPE
- Port Supports: Polypropylene
- Clamp Plates: Nylon
- All metallic parts: Stainless steel. Except for nickel plated brass.



**Fit Tube**

- Pipe material: HDPE, PE, Nylon, Polyurethane
- Outer diameter of pipe: ø3, ø4, ø5, ø6, ø7, ø8, ø10, ø12, ø16, ø18, ø20

**Technical Parameter**

- Working with fluids: Air
- Tightness: 0.15~0.8MPa no Leak
- Pull test: 400N
- Proof pressure: 2.5MPa
- Lifespan: 25 years
- Standards: EN50411-2-8

Specification	Pipe OD/ID	Pipe OD/ID	Tapered hole
FPU3/2.1	3/2.1	3/2.1	2.1
FPU4/2.5	4/2.5	4/2.5	2.5
FPU4/2.8	4/2.8	4/2.8	2.8
FPU5/2.1	5/2.1	5/2.1	2.1
FPU5/3.5	5/3.5	5/3.5	3.5
FPU6/4	6/4	6/4	4
FPU7/3.5	7/3.5	7/3.5	3.5
FPU7/4	7/4	7/4	4
FPU7/5.5	7/5.5	7/5.5	5.5
FPU8/3.5	8/3.5	8/3.5	3.5
FPU8/6	8/6	8/6	6
FPU10/6	10/6	10/6	6
FPU10/8	10/8	10/8	8
FPU12/8	12/8	12/8	8
FPU12/10	12/10	12/10	10
FPU14/10	14/10	14/10	10
FPU14/12	14/12	14/12	12
FPU16/12	16/12	16/12	12
FPU16/13	16/13	16/13	13
FPU16/14	16/14	16/14	14
FPU18/15	18/15	18/15	15
FPU20/14	20/14	20/14	14
FPU20/15	20/15	20/15	15
FPU20/16	20/16	20/16	16





**Description**

Reduction connectors make it possible to interconnect two microducts with different external diameters. This is usually the case this is the case at the transition point from a DB microduct to an DI entering the house.

**Fit Tube**

- Pipe material: HDPE, PE, Nylon, Polyurethane
- Outer diameter of pipe: ø3, ø4, ø5, ø6, ø7, ø8, ø10, ø12, ø16, ø18, ø20

**Technical Parameter**

- Working with fluids: Air
- Tightness: 0.15~0.8MPa no Leak
- Pull test: 400N
- Proof pressure: 2.5MPa
- Operating pressure range: 0~1.6MPa
- Installation temperature: -10°C/+50°C
- Degree of protection: IP68
- UV-resistant grade: F1
- Insertion force: 50N max(5kg)
- Lifespan: 25 years
- Standards: EN50411-2-8
- Ambient temperature and fluid temperature: -40°C/+60°C

Specification	Pipe OD/ID	Pipe OD/ID	Tapered hole
FPG5-3/2.1	5/3.5	3/2.1	3.5>2.1
FPG5-4/2.8	5/3.5	4/2.8	3.5>2.8
FPG7-3/2.1	7/5.5	3/2.1	5.5>2.1
FPG7-4/2.8	7/5.5	4/2.8	5.5>2.8
FPG7-5/3.5	7/5.5	5/3.5	5.5>3.5
FPG8-3/2.1	8/6	3/2.1	6 > 2.1
FPG8-5/3.5	8/6	5/3.5	6 > 3.5
FPG8-7/5.5	8/6	7/5.5	6 > 5.5
FPG10-5/3.5	10/8	5/3.5	8 > 3.5
FPG10-7-7/5.5	10/8	7/5.5	8 > 5.5
FPG10-8/6	10/8	8/6	8 > 6
FPG12-7-7/5.5	12/10	10/8	10>5.5
FPG12-8/6	12/10	7/5.5	10 > 6
FPG12-10/8	12/10	12/10	10 > 8
FPG14-10/8	14/12	8/6	12 > 8
FPG14-12/10	14/12	10/8	12 > 10
FPG16-10/8	16/13	10/8	13 > 8
FPG16-12/10	16/13	12/10	13 > 10
FPG20-16/14	20/16	16/13	16 > 13



FPU-1

FPU-2

FPU-3

FPU-4

**Description**

Standard transparent end caps, which are used to end pipes with open ends to prevent air, water or other materials from leaking out. The end caps are pre-assembled with safety clips.

**Fit Tube**

- Pipe material: HDPE, PE, Nylon, Polyurethane
- Outer diameter of pipe: ø3, ø4, ø5, ø6, ø7, ø8, ø10, ø12, ø16, ø18, ø20

**Technical Parameter**

- Working with fluids: Air
- Tightness: 0.15~0.8MPa no Leak
- Pull test: 400N
- Proof pressure: 2.5MPa
- Operating pressure range: 0~1.6MPa
- Ambient temperature and fluid temperature: -40°C/+60°C
- Installation temperature: -10°C/+50°C
- RecommendedBlowingTemperature: -15°C/+35°C
- Degree of protection: IP68
- UV-resistant grade: F1

Specification	Pipe OD/ID	Pipe OD/ID
FPF3	3	3
FPF4	4	4
FPF5	5	5
FPF7	7	7
FPF8	8	8
FPF10	10	10
FPF12	12	12
FPF14	14	14
FPF16	16	16
FPF18	18	18
FPF20	20	20



### Description

Micro-duct connector providing gas tight seal connection around the cable inside. When opened, cable can be blown through his connector and sealed after wards by rotating ring. They operate safely at blowing pressure of 10 Bar and protect the inner cavity of your micro-duct against ingress of any particles. Should be installed always at the entry transition points to the buildings, ODFs etc. where water or gas presence is the matter of danger.

### Main Features

- Available for wide range of microduct sizes: OD 4-16
- Push-fit system
- Transparent body
- Body material: polycarbonate
- Sealing: up to 0.3 bars
- Packaging: bag

Specification	Pipe OD/ID	Pipe OD/ID	Tapered hole
FZA5/3.5	5/3.5	5/3.5	0.5~2.1
FZA5/3.5	5/3.5	5/3.5	0.9~3.5
FZA7/3.5	7/5.5	7/5.5	0.9~3.5
FZA7/5.5	7/5.5	7/5.5	1~4
FZA7/5.5	7/5.5	7/5.5	2~5.5
FZA8/6	8/6	8/6	0.9~3.5
FZA8/6	8/6	8/6	1~4
FZA8/6	8/6	8/6	2~5.5
FZA10/8	10/8	10/8	3~6
FZA10/8	10/8	10/8	5~8
FZA12/10	12/10	12/10	3~6
FZA12/10	12/10	12/10	5~8
FZA12/10	12/10	12/10	7~10
FZA14/12	14/12	14/12	3~6
FZA14/12	14/12	14/12	5~8
FZA14/12	14/12	14/12	7~10
FZA14/12	14/12	14/12	9~12
FZA16/12	16/12	16/12	3~6
FZA16/12	16/12	16/12	5~8
FZA16/12	16/12	16/12	7~10
FZA18/15	18/15	18/15	7~10
FZA18/15	18/15	18/15	9~12
FZA20/16	20/16	20/16	12~16



### Main Features

- Transparent body, rubbers seals with color coding
- For microducts: OD 4 to 10 mm
- Pull-out force duct seal vs duct: > 20N
- Cables from 0.9 to 5.0 mm
- Very compact & small dimension
- Indoor applications: (house, cabinet)
- Sealing: up to 0.5 bars
- Packaging: 100 pcs per bag

Specification	Microtubule OD	Cable OD Range	Silicon Seal Color
XDDS4/1.2	4	0.9~1.2mm	Purple(RAL4006)
XDDS4/1.5	4	1.3~1.5mm	Red(RAL3028)
XDDS4/1.8	4	1.6~1.8mm	Green(RAL6037)
XDDS4/2.2	4	1.9~2.2mm	Blue(RAL5015)
XDDS4/2.5	4	2.25~2.5mm	Yellow(RAL1016)
XDDS4/5.0	4	3.5~5.0mm	Black(RAL5004)
XDDS5/1.2	5	0.9~1.2mm	Purple(RAL4006)
XDDS5/1.5	5	1.3~1.5mm	Red(RAL3028)
XDDS5/1.8	5	1.6~1.8mm	Green(RAL6037)
XDDS5/2.2	5	1.9~2.2mm	Blue(RAL5015)
XDDS5/2.5	5	2.25~2.5mm	Yellow(RAL1016)
XDDS5/5.0	5	3.5~5.0mm	Black(RAL5004)
XDDS7/1.25	7	0.9~1.2mm	Purple(RAL4006)
XDDS7/1.5	7	1.3~1.5mm	Red(RAL3028)
XDDS7/1.8	7	1.6~1.8mm	Green(RAL6037)
XDDS7/2.2	7	1.9~2.2mm	Blue(RAL5015)
XDDS7/2.5	7	2.25~2.5mm	Yellow(RAL1016)
XDDS7/5.0	7	3.5~5.0mm	Black(RAL5004)
XDDS8/1.2	8	0.9~1.2mm	Purple(RAL4006)
XDDS8/1.5	8	1.3~1.5mm	Red(RAL3028)
XDDS8/1.8	8	1.6~1.8mm	Green(RAL6037)
XDDS8/2.2	8	1.9~2.2mm	Blue(RAL5015)
XDDS8/2.5	8	2.25~2.5mm	Yellow(RAL1016)
XDDS8/5.0	8	3.5~5.0mm	Black(RAL5004)
XDDS10/1.2	10	0.9~1.2mm	Purple(RAL4006)
XDDS10/1.5	10	1.3~1.5mm	Red(RAL3028)
XDDS10/1.8	10	1.6~1.8mm	Green(RAL6037)
XDDS10/2.2	10	1.9~2.2mm	Blue(RAL5015)
XDDS10/2.5	10	2.25~2.5mm	Yellow(RAL1016)
XDDS10/5.0	10	3.5~5.0mm	Black(RAL5004)





## Description

Simple modular design enables easy installation in all situations, even if cable is already terminated.

## Main Features

- Divisible solution, suitable for retrofitting.
- For microducts OD: 10 to 25 mm
- Simple & quick installation
- Pull-out force duct seal vs duct:  $\geq 100N$
- Slim design, rubber seals with color coding

Specification	Microtubule OD	Cable OD Range	Silicon Seal Color
CDDS10/3.5	10	2.5~3.5mm	Blue(RAL5015)
CDDS10/6.5	10	5.0~6.5mm	Red(RAL3028)
CDDS10/7.5	10	6.5~7.5mm	Blue(RAL5015)
CDDS10/5.0	10	3.5~5.0mm	Green(RAL6037)
CDDS10/2.5	10	1.5~2.5mm	Purple(RAL4006)
CDDS12/3.5	12	2.5~3.5mm	Blue(RAL5015)
CDDS12/6.5	12	5.0~6.5mm	Red(RAL3028)
CDDS12/8.0	12	6.5~8.0mm	Blue(RAL5015)
CDDS12/8.5	12	7.0~8.5mm	Blue(RAL5015)
CDDS12/5.0	12	3.5~5.0mm	Green(RAL6037)
CDDS12/2.5	12	1.5~2.5mm	Purple(RAL4006)
CDDS14/6.5	14	5.0~6.5mm	Red(RAL3028)
CDDS14/10	14	8.0-10.0mm	Grey(RAL7031)
CDDS14/8.0	14	6.5~8.0mm	Blue(RAL5015)
CDDS14/2.5	14	1.5~2.5mm	Purple(RAL4006)
CDDS14/5.0	14	3.5~5.0mm	Green(RAL6037)
CDDS16/2.5	16	1.5~2.5mm	Purple(RAL4006)
CDDS16/5.0	16	3.5~5.0mm	Green(RAL6037)
CDDS16/6.5	16	5.0~6.5mm	Red(RAL3028)
CDDS16/8.0	16	6.5~8.0mm	Blue(RAL5015)
CDDS16/10	16	8.0-10.0mm	Grey(RAL7031)
CDDS18/9.5	18	8.0~9.5mm	Grey(RAL7031)
CDDS18/8.0	18	6.5~8.0mm	Blue(RAL5015)
CDDS18/6.5	18	5.0~6.5mm	Red(RAL3028)
CDDS20/12	20	9.4~12.0mm	Black(RAL5004)
CDDS20/10	20	8.0-10.0mm	Grey(RAL7031)
CDDS20/8.0	20	6.5~8.0mm	Blue(RAL5015)
CDDS20/5.0	20	3.5~5.0mm	Green(RAL6037)
CDDS20/6.5	20	5.0~6.5mm	Red(RAL3028)
CDDS25/12.0	25	7.0~12.0mm	Black(RAL5004)



# Microducts Connector **STRAIGHT** Direct Bury



## Description

The microduct straight connector were developed to connect microducts with each other. Our system enables an easy, fast connection and disconnection of the microduct. The straight microduct connector robust construction resistance to high pressure forces, allowing them to be used indirect buried(DB) applications.

## Main Features

- Standard: EN50411-2-8.
- High pressure resistance: >25bar.
- High temperature resistance: -40~65°C
- Packaging: bag

## Fit Tube

- Pipe material: HDPE, PE, Nylon, Polyurethane
- Outer diameter of pipe: ø7, ø8, ø10, ø12, ø14, ø16

## Technical Parameter

- Working with fluids: Air
- Tightness: 0.15~0.8MPa no Leak
- Pull test: 400N
- Proof pressure: 2.5MPa
- Operating pressure range: 0~1.6MPa
- Installation temperature: -10°C/+50°C
- Insertion force: 50N max(5kg)
- Lifespan: 25 years
- Standards: EN50411-2-8



Specification	Duct OD(mm)	PCS/bag	PIPE size
FPU-DB07/3.5	7/3.5	ø7/3.5	ø3.5
FPU-DB07/4	7/4	ø7/4	ø4
FPU-DB07/5.5	7/5.5	ø7/5.5	ø5.5
FPU-DB08/3.5	8/3.5	ø8/3.5	ø3.5
FPU-DB08/6	8/6	ø8/6	ø6
FPU-DB10/6	10/6	ø10/6	ø6
FPU-DB10/8	10/8	ø10/8	ø8
FPU-DB12/8	12/8	ø12/8	ø8
FPU-DB12/10	12/10	ø12/10	ø10
FPU-DB14/10	14/10	ø14/10	ø10
FPU-DB14/12	14/12	ø14/12	ø12
FPU-DB16/12	16/12	ø16/12	ø12
FPU-DB16/13	16/13	ø16/13	ø13
FPU-DB16/14	16/14	ø16/14	ø14

Specification	Duct OD(mm)	PCS/bag	PIPE size
FPU-DB07/3.5	7	ø3.5	ø3.5
FPU-DB07/4	7	ø4	ø4
FPU-DB07/5.5	7	ø5.5	ø5.5
FPU-DB08/3.5	8	ø3.5	ø3.5
FPU-DB08/6	8	ø6	ø6
FPU-DB10/6	10	ø6	ø6
FPU-DB10/8	10	ø8	ø8
FPU-DB12/8	12	ø8	ø8
FPU-DB12/10	12	ø10	ø10
FPU-DB14/10	14	ø10	ø10
FPU-DB14/12	14	ø12	ø12
FPU-DB16/12	16	ø12	ø12
FPU-DB16/13	16	ø13	ø13
FPU-DB16/14	16	ø14	ø14





**Description**

Push-fit connector is a type of plumbing fitting used to join pipes together without the need for soldering, brazing, or other traditional connection methods.

**Performance**

- Blowing Pressure: Between temperatures of -10°C and +60°C, connectors can be used for blowing operations at pressures rated 16 bar
- Burst pressure: >25bar

**Connection sequence**

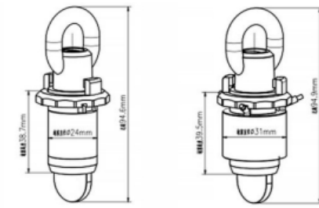
End cap, elastic collar, gasket, rubber sealing ring, connecting screw, rubber sealing ring, gasket, elastic collar, end cap.

**Material**

- Body: PP
- Nut: PP
- Blocking Ring: POM
- Grip Ring: POM
- O-rings: NBR

**Material**

PE63 Pipe	SDR	20mm	25mm	28mm	32mm	40mm	50mm
Maximum Force	11	1.5KW	2KN	3KN	4KN	7KN	8KN

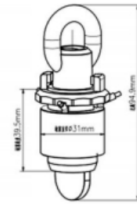


DT32/24

DT40/31



DT50/37



DT63/47

**Description**

Blank plugs effectively seal empty HDPE duct ends. These plugs are removable & reusable. Proper sealing of your conduits and subducts is important to prevent the costly flooding of buildings and sedimentation inside.

**Main Features**

- Water-tight and air-tight
- Seals all types of inner duct
- Easy to retrofit
- Wide cable sealing range
- Installs and removes by hand
- Packaging: bag

**Duct Bank Durability**

Manufactured from high-impact plastic components, combined with durable elastic gaskets, Blank plugs are corrosion proof and effective as long-term or temporary seals.

N°	Duct OD(mm)	PCS/bag
1	DT32/24-30	32*3/2.4/2
2	DT40/31-36	40*3.7/3/2.4/2
3	DT50/37-46	50*5.6/4.6/3.7/3/2.4/2
4	DT63/47-56	63*7.1/5.8/4.7/3.8/3/2.5

# Microducts Plug SIMPLEX

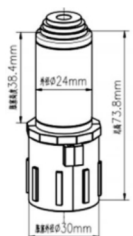


### Description

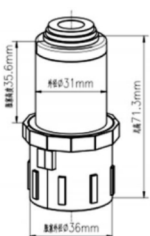
Simplex plugs effectively seal HDPE ducts occupied with a single cable. These plugs are removable & reusable.

### Main Features

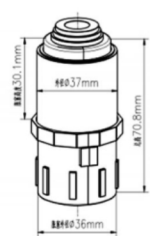
- Water-tight and air-tight
- Seals all types of inner duct
- Easy to retrofit
- Wide cable sealing range
- Installs and removes by hand
- Packaging: bag



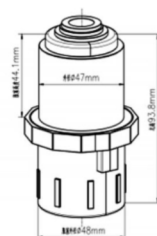
BLS32/24



BLS40/31



BLS50/37



BLS63/47

Specification	Silicon Core Tube Specification	Tapered Hole
BLS32/24-30mm	32*3/2.4/2	4.5-6.1mm
		6.9-8.9mm
		9.3-11.4mm
		12.6-14mm
BLS40/31-36mm	40*3.7/3/2.4/2	8.9-11.4mm
		12.6-14mm
		14.1-15.8mm
		15.9-18mm
BLS50/37-46mm	50*5.6/4.6/3.7/3/2.4/2	8.9-11.4mm
		12.6-14mm
		14.1-15.8mm
		15.9-18mm
BLS63/47-56mm	63*7.1/5.8/4.7/3.8/3/2.5	12.6-14mm
		14.1-15.8mm
		15.7-18mm
		18.1-22.9mm

# Microducts Model Closure HDPE Bundles (Y-T-I)



### Description

The model closure is commonly used in telecommunications and networking applications, such as in fiber optic networks for internet and phone services. It is an important component in managing and distributing fiber optic cables in tight spaces, providing a secure and organized way to connect multiple microducts and cables together.

### Main Features

- Direct bury or chambers installation
- For installing closure in existing microduct system
- Hermetic
- No need to use additional tools for closing

### Components

- Shell: ABS
- Lock Claw: POM
- CAP: ABS

# Microducts Distribution Closure HDPE Distribution

### Description

The HDPE Microduct distribution closure (T-DC) is a device used in telecommunications and networking applications to manage and distribute fiber optic cables. It is designed to house and organize multiple fiber optic cables and provide a secure and reliable connection between them.

### Main Features

- Direct bury or chambers installation
- For installing closure in existing microduct system
- Hermetic
- No need to use additional tools for closing







**Description**

Soft PVC caps provides anti-dust protection of your duct ends. They have an excellent resistance to weather conditions and UV radiation. Ideally used for transport, storage or installation period of your ducts.

**Main Features**

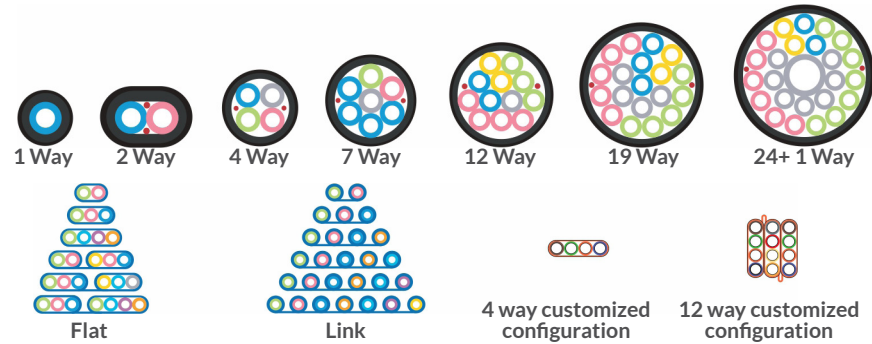
- Resistant to acids, alkalis and salts.
- Flexible, easily adaptable, does not crack.
- Short-term resistance to thermal shock up to 120°C
- Production tolerance - wall thickness: ±0.3mm, length ±1mm

Specification	Duct OD(mm)	Quantity(pcs)
EC5	5.5	5000
EC6	6.5	5000
EC7	7.5	2000
EC8	8.5	2000
EC10	10.5	2000
EC12	12.5	1000
EC14	14.0	1000
EC16	16.0	500
EC18	18.0	500
EC20	20.0	500
EC25	25.0	100
EC32	32.0	100
EC40	40.0	100
EC50	50.0	100
EC63	63.0	100



**Description**

The outer sheath is rugged High Density Poly Ethylene HDPE providing excellent protection from the physical environment. An Aluminum or non-metallic layer is added to provide additional strength which results in crush and impact resistance.



Primary Duct Dimensions OD/ID(mm)	Outside Dimensions HxW(mm)						
	1 Way	2 Way	4 Way	7 Way	12 Way	10 Way	24+1 Way
5/3.5mm	8.4	8.4X13.4	15.5	18.4	23.7	27.7	33.3
8/6mm	11.4	11.4X19.4	23.1	27.8	36.2	43.8	51.01
10/8mm	13.4	13.4X23.4	27.9	33.8	-	-	-
12/10mm	15.4	15.4X27.4	32.8	39.8	-	-	-

**Microducts Cutting Tools**





FIBRAMÉRICA

**FIBRAMÉRICA | Míngqíng Fíbramerica Technology Co., Ltd**  
No 42, Baijin East Road, Baijin Industrial Park,  
Baizhong Town, Míngqíng County, Fuzhou, Fujian, China  
Phone: +86 18621754882

**Office in America**

Rua Arthur Max Dóse, 153, Sala 1302  
Balneário Camboriú - Brazil - Phone: (+55) 47 2033 2231  
Contact: [comercial@fbramerica.com](mailto:comercial@fbramerica.com)