FIBRAMÉRICA

CATALOG

Solutions for microduct installation


5G

FIBRAMÉRICA

Complete solutions for the intelligent development of fiber optic networks

FIBRAMERICA - Minqing Tancome Technology is a leading company in the design, development, manufacture and marketing of optical connectivity solutions for operators, distributors and installers around the world.

Headquartered in China, it has offices in Shanghai and Ningbo. In America, it has a strategic unit located in Brazil, where it offers commercial and technical support to customers in the same time zone and language.

Through a commitment to the continuous improvement of our manufacturing processes, the adoption of cutting-edge technologies and the optimization of our communication channels, FIBRAMÉRICA ensures that we offer highly competitive prices, agile production times, purchasing facilities and comprehensive support to monitor the entire production and distribution cycle of our products.

All Fibramérica products are manufactured in accordance with international quality standards (ISO9001).

FIBRAMÉRICA's team is made up of specialized professionals with long experience in the telecommunications market, who work closely with customers to meet their demands regarding materials for continuous operation and use, special projects and the development of new products.

FIBRAMERICA focuses on the development of new products in accordance with the technical specifications of each project, from conception, production of prototypes and technical material, to the final manufacture of the product. We also assist in the homologation of products with Anatel for the Brazilian market.

We currently have products approved by major telecommunications operators in Latin America and Europe through our local distributors.

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Microducts systems

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.

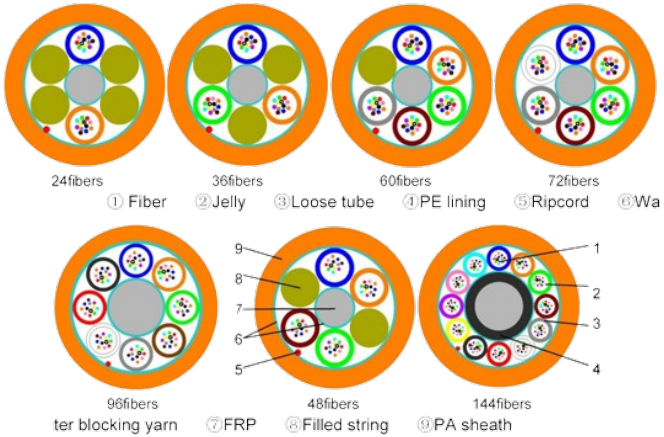
As such, Fibramérica emerges as a leading provider of infrastructure solutions, delivering optical fiber networks with remarkable speed, adaptability, and cost-effectiveness.

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.


Cable-657A1

MICRODUCTS | AIR BLOWN CABLE

EXTRA-MICRO CABLE



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

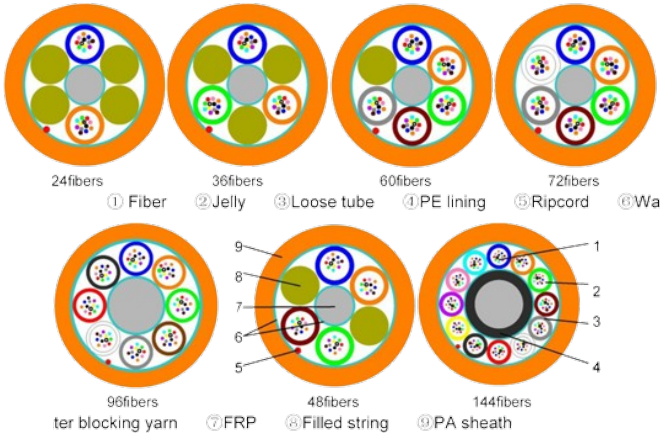
Blowing Performance

- 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.

MICRODUCTS | AIR BLOWN CABLE

PA MICRO CABLE



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.

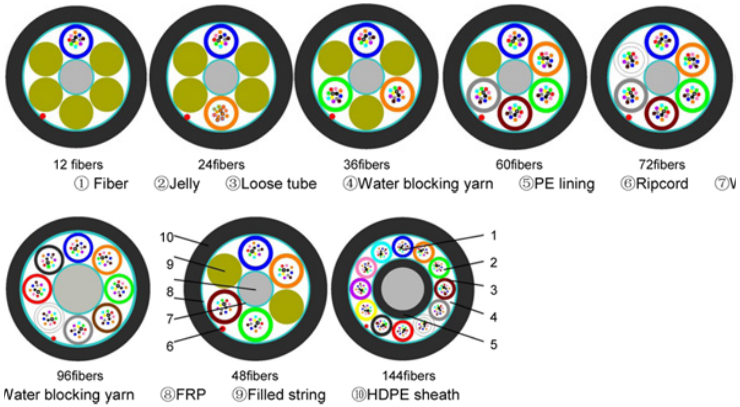
Blowing Performance

- 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.

MICRODUCTS | AIR BLOWN CABLE

PE MICRO CABLE



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

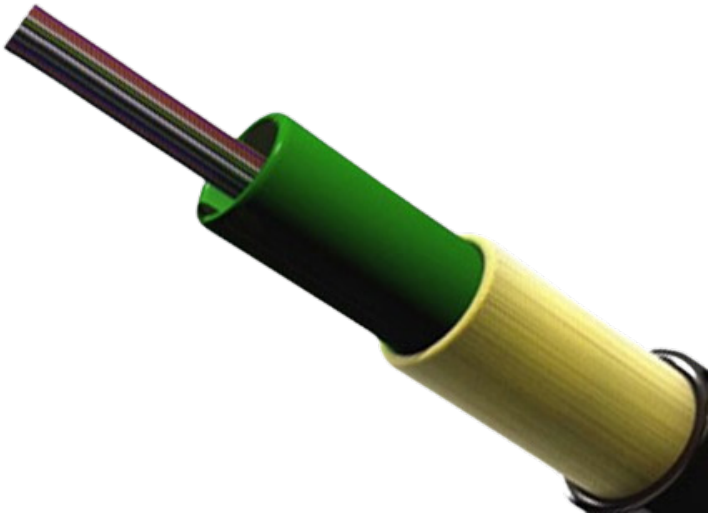
- Fiber Counts: Available in a range from 12 to 288 fibers, catering to various network needs.
- Nominal Diameter: Ranges from 5.2±0.1 mm to 9.4±0.1 mm, depending on the fiber count.
- Weight and Tensile Strength: Varies based on fiber count, with a maximum tensile strength of up to 1000 N.
- Operational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

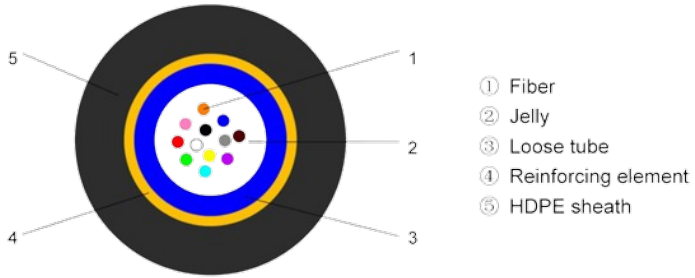
Blowing Performance

- 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.

MICRODUCTS | AIR BLOWN CABLE

CENTRAL TUBE CABLE





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

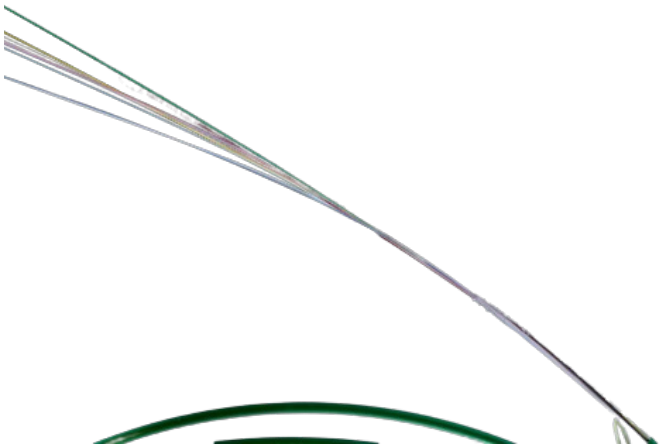
- Fiber Counts: Available from 2 to 24 fibers, suitable for various network scales.
- Nominal Diameter: Consistently sized at 4.0±0.1 mm for fiber counts up to 12, and 4.5±0.1 mm for 24 fibers.
- Nominal Weight: Maintains a lightweight profile, with a nominal weight of 10 kg/km for up to 12 fibers, and 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.

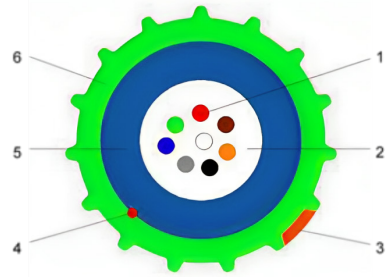
Blowing Performance

- 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.

MICRODUCTS | AIR BLOWN CABLE

MINI CABLE





① Fiber ② Jelly ③ Groove ④ Ripcord 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.

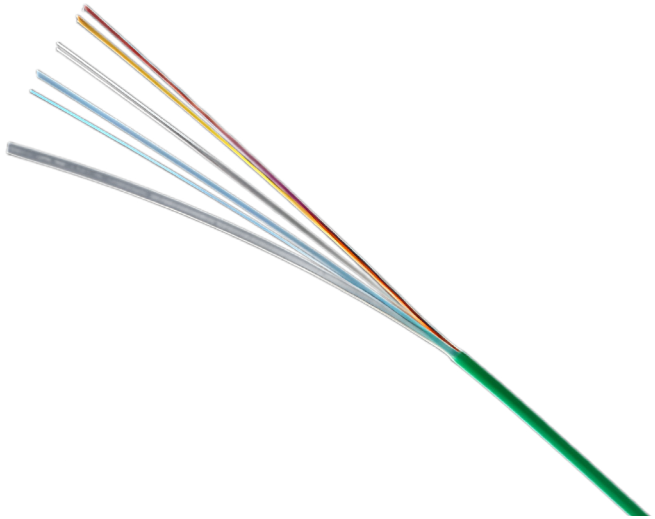
Blowing Performance

- 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.

MICRODUCTS | AIR BLOWN CABLE

EPFU CABLE



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.

Aplication

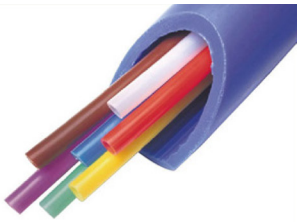
Perfect for fiber-to-the-x (FTTX) applications, the EPFU series is designed to meet the demands of expansive network installations, particularly in urban and high-density areas where space efficiency is paramount.

MICRODUCTS

ACCESSORIES AND TUBES

MICRODUCTS | ACCESSORIES AND TUBES

HDPE MICRODUCT



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

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MICRODUCTS | ACCESSORIES AND TUBES

HDPE TUBE BUNDLE (Direct Installed, DI)

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

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MICRODUCTS | ACCESSORIES AND TUBES

HDPE TUBE BUNDLE (Direct Buired, DB)

Main features

- Quite thick wall thickness of outer sheating 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

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MICRODUCTS | ACCESSORIES AND TUBES

HDPE TUBE BUNDLE With Strengthened Microduct (DB, DI)

Main features

- Thick wall thickness design of micro duct, which can reach 1.5mm~2.0mm
- Quite thin wall thickness of outer sheating so as to be convenient for opening of outer sheating 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

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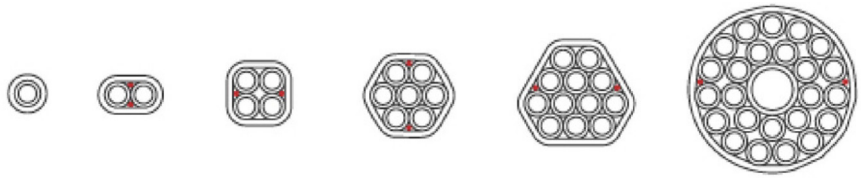
MICRODUCTS | ACCESSORIES AND TUBES

LSZH TUBE BUNDLE

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 Thickeness 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

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MICRODUCTS | ACCESSORIES AND TUBES

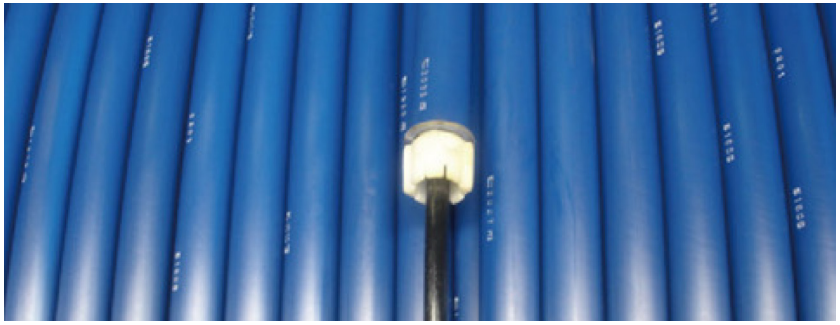
HDPE SILICON DUCT

Main features

- With HDPE as it 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

PRE-LAID CABLE DUCT

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 sabe 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

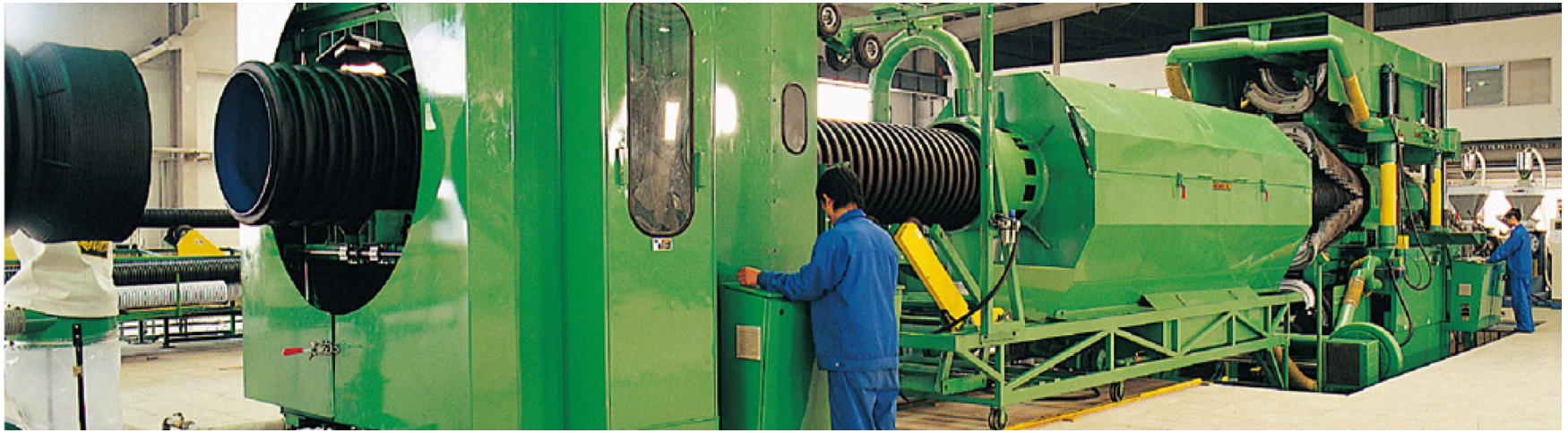
MICRODUCTS | ACCESSORIES AND TUBES

DOUBLE WALLED CORRUGATED PIPE (DWC)

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



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MICRODUCTS

MICRODUCT CONNECTORS

MICRODUCT CONNECTOR

DIRECT INSTALLED CONNECTOR

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℃ --+50℃
- High Pressure resistance >25bar
- IP Rate: IP68
- FR Resistance style also available V0
- Standard:EN50411

Material

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

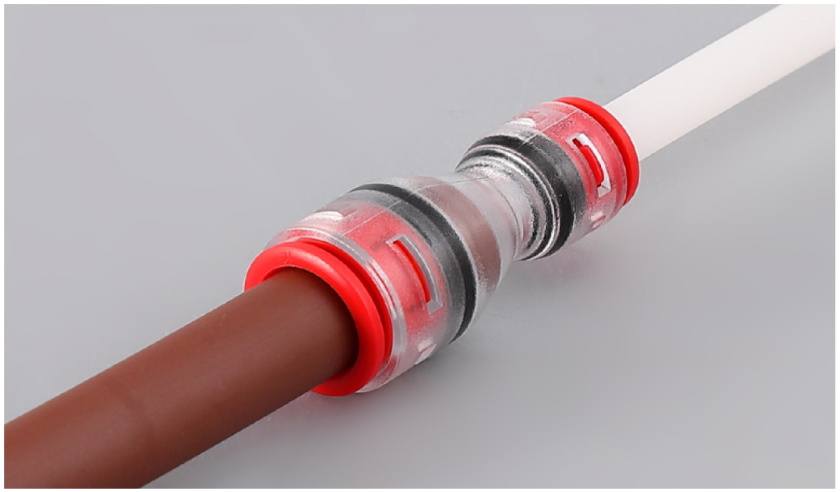
MICRODUCT CONNECTOR

STRAIGHT MICRODUCT CONNECTOR

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
StraightConnectorSTR12.7/10	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

MICRODUCT CONNECTOR

REDUCER MICRODUCT CONNECTOR



SPECIFICATION	Duct OD/ID(mm)		THR Bore(mm)
	Duct A	Duct B	
Reducer Connector BRE5/3.5-3/2.1	5/3.5	3/21	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
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

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MICRODUCT CONNECTOR

REDUCER MICRODUCT CONNECTOR

SPECIFICATION	Duct OD/ID(mm)		THR Bore(mm)
	Duct A	Duct B	
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
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

MICRODUCT CONNECTOR

END STOP MICRODUCT CONNECTOR

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

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DIRECT INSTALLED CONNECTOR

7WAY TUBE DISTRIBUTION CLOSURE

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: Lest 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.

FIBRAMÉRICA

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