Connectors for Optic Fibre Cable

Direct Buried Connectors and End Caps

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Direct Install Connectors and End Caps

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Passive Gas Block Connectors

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Accessories for Direct Buried and Direct Install Connectors

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Direct Buried Connectors

The new Parker Legris connectors were developed to optimise installation and provide long-term **integrity for underground FTTx* networks**.

*FTTx: Fibre To The x = home, building, campus, etc.

Product Advantages

Optimised Installation

- Transparent: optic fibre ducts and correct tube connection can be seen and verified
- Patented ridged design for unsurpassed shock resistance
- No protection cap necessary
- 1 connector for 2 different wall thicknesses of the tubing (bridging possible between direct buried and direct install micro-tubing)
- Compact design and intuitive installation
- Pre-assembled safety clip to prevent risk of accidental disconnection
- High working pressure for increased blowing speed/distance

Longevity & Reliability

- Tried-and-tested connection technology to ensure tensile strength and resistance to network expansion
- Perfect sealing IP68: full protection against particle ingress
- UL94: flame resistance for indoor installations
- Date coding to guarantee quality and traceability
- 100% leak-tested in production

Applications

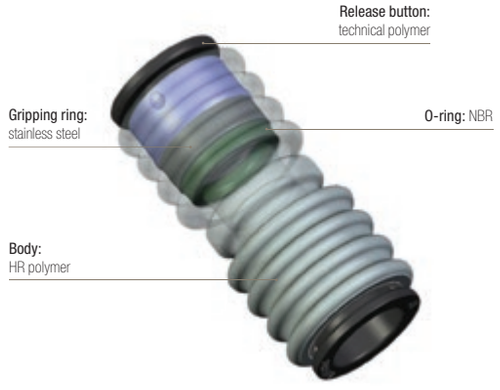
Underground Networks
Micro-Tubing
Air Blowing
Water Floating
Heavy Duty Ducting

Technical Characteristics

Compatible Fluids	Air, water
Working Pressure	Vacuum to 25 bar
Working Temperature	-20°C to +80°C
Suitable Ducts	Direct buried micro-tubing Direct install micro-tubing
Shock Resistance	Conforms to standard and light applications according to the NF EN 61386-24 standard
Tubing Diameter	Ø 7 mm to Ø 14 mm

Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Component Materials



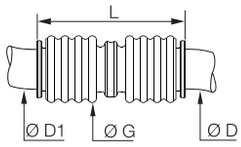
Regulations and Intellectual Property

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes
NF EN 50086-2-4 replaced by NF EN 61386-24: Standard relating to impact tests for buried systems
UL94: Flame resistance
IP68: Seepage resistance to water and dust
Patent family FR2980999 (buried connectors)
Patent family FR2924194 (safety clips)

Direct Buried Connectors

6270 Equal and Unequal Tube-to-Tube Connector

HR polymer, NBR

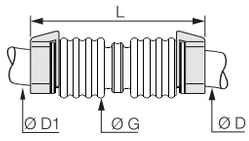


ØD	ØD1		G	L	Kg
7	7	6270 07 00	16	38	0.006
8	8	6270 08 00	16	39	0.006
10	10	6270 10 00	20	43	0.009
	12	6270 10 12	22	50	0.010
12	12	6270 12 00	22	50	0.009
	14	6270 12 14	24	56	0.022
14	14	6270 14 00	24	56	0.022

16 mm also available upon request

6270..03 Equal and Unequal Tube-to-Tube Connector with Red Tamper-Proof Safety Clips

HR polymer, NBR

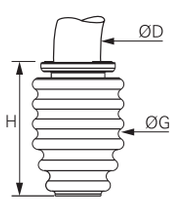


ØD	ØD1		G	L	Kg
7	7	6270 07 00 03	16	47	0.007
8	8	6270 08 00 03	16	48	0.007
10	10	6270 10 00 03	20	51	0.011
	12	6270 10 12 03	22	60	0.026
12	12	6270 12 00 03	22	60	0.017
	14	6270 12 14 03	24	68	0.031
14	14	6270 14 00 03	24	68	0.023

This product is available on request only.

6273 End Cap

HR polymer, NBR

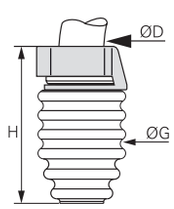


ØD		G	H	Kg
7	6273 07 00	16	23	0.002
8	6273 08 00	16	24	0.002
10	6273 10 00	20	26	0.003
12	6273 12 00	22	30	0.006
14	6273 14 00	24	33	0.014

16 mm also available upon request

6273..03 End Cap with Red Tamper-Proof Safety Clip

HR polymer, NBR



ØD		G	H	Kg
7	6273 07 00 03	16	28	0.003
8	6273 08 00 03	16	29	0.003
10	6273 10 00 03	20	31	0.005
12	6273 12 00 03	22	35	0.009
14	6273 14 00 03	24	39	0.018

This product is available on request only.

Direct Install Connectors

A range of high performance connectors dedicated to direct install systems for FTTx* to guarantee **easy use** and **long service time**.

*FTTx: Fibre To The x = home, building, campus, etc.

Product Advantages

Optimised Installation

- Reliable technology of push-in connection
- Minimum distance between two tubes when connected, eliminating the risk of blockage during blowing
- 1 connector for 2 different wall thicknesses of the tubing (bridging possible between direct buried and direct install micro-tubing)
- Ultra compact design and intuitive installation
- Safety clip for preventing risk of accidental disconnection

Longevity & Reliability

- Tried-and-tested connection technology to ensure capability to expand network
- Perfect sealing IP68: full protection against particle ingress
- UL94 V-2: flame resistance for indoor installations
- Date coding to guarantee quality and traceability
- 100% leak-tested in production

Applications

Direct Install Networks
Micro-Tubing
Air Blowing
Aerial Ducting
Sub-Ducts

Technical Characteristics

Compatible Fluids	Air, water
Working Pressure	Vacuum to 15 bar
Working Temperature **Storage temperature**	-15°C to +45°C -20°C to +80°C
Suitable Ducts	Direct install microduct
Tubing Diameter	Ø 5 mm to Ø 14 mm

Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

Component Materials

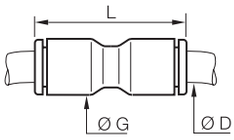
Regulations and Intellectual Property

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes
IP68: Seepage resistance to water and dust
UL94 V-2: Flame resistance
Patent family FR2924194 (safety clips)

Direct Install Connectors and End Caps

6271 Equal Tube-to-Tube Connector

HR polymer, NBR

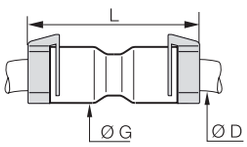


ØD		G	L	Kg
5	6271 05 00	10.5	30	0.002
7	6271 07 00	13.5	38	0.004
8	6271 08 00	13.5	38	0.004
10	6271 10 00	16	42	0.006
12	6271 12 00	19	50.5	0.009
14	6271 14 00	22	56	0.014

16 mm also available upon request

6271..03 Equal Tube-to-Tube Connector with Red Tamper-Proof Safety Clips

HR polymer, NBR

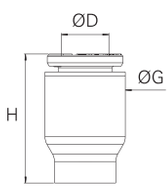


ØD		G	L	Kg
5	6271 05 00 03	10.5	38	0.007
7	6271 07 00 03	13.5	47	0.007
8	6271 08 00 03	13.5	48	0.007
10	6271 10 00 03	16	51	0.011
12	6271 12 00 03	19	60	0.017
14	6271 14 00 03	22	68	0.025

This product is available on request only.

3151 End Cap

Technical polymer, NBR

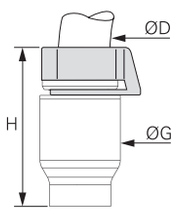


ØD		G	H	Kg
5	3151 05 00	10.5	17	0.001
7	3151 07 00	13.5	22	0.003
8	3151 08 00	13.5	22	0.003
10	3151 10 00	16	22	0.005
12	3151 12 00	19	28	0.009
14	3151 14 00	22	31	0.018

Technical specifications of LF 3000® push-in fittings.

3151..03 End Cap with Tamper-Proof Safety Clip

Technical polymer, NBR



ØD		G	H	Kg
5	3151 05 00 03	10.5	20	0.002
7	3151 07 00 03	13.5	26	0.004
8	3151 08 00 03	13.5	26	0.004
10	3151 10 00 03	16	27	0.007
12	3151 12 00 03	19	33	0.011
14	3151 14 00 03	22	35	0.022

This product is available on request only.

Technical specifications of LF 3000® push-in fittings.

Related Products

- Tube Cutters: see chapter "Technical Tubes and Hoses"

3000 71 00 P. 3-46

3000 71 11 P. 3-46

Passive Gas Block Connector

Easy-to-use product, providing **quick** and **efficient** sealing of the end of the FTTx* network and thereby long-term protection of the installation.

*FTTx: Fibre To The x = home, building, campus, etc.

Product Advantages

Stock Optimisation
- More possibilities with fewer references
- 1 connector allows for several microduct/fibre cable combinations

Easy Handling
- Optic fibre cable visible as it passes through seal, allowing for considerable time-saving
- Visual connection indication
- 100% push-in technology with optic fibre cable sealing
- Ultra compact design

Longevity & Reliability
- Unique design guaranteeing maximum safety of use
- Gas and watertight up to 1 bar
- UL94 V-2: flame resistance for indoor installations
- Safety clip for preventing risk of accidental disconnection

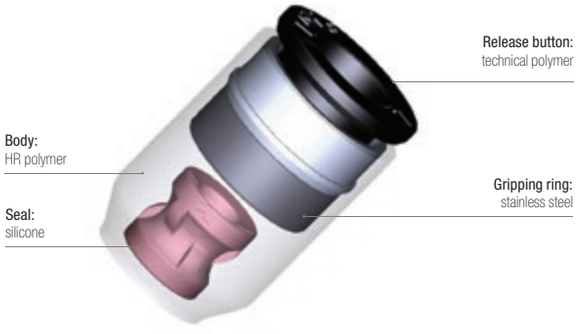
Applications

Underground Networks
Micro-Tubing
Air Blowing
Water Floating
Heavy Duty Ducting

Technical Characteristics

Compatible Fluids	Air, water
Sealing Level	1 bar
Working Temperature **Storage Temperature**	-15°C to +45°C -20°C to +80°C
Suitable Ducts	Direct buried and direct install microducts
Tubing Diameter	Ø 5 mm to Ø 14 mm

Component Materials



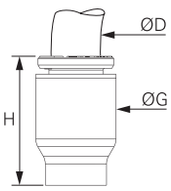
Regulations

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes
IP68: Seepage resistance to water and dust
UL94 V-2: Flame resistance for indoor installation or hazardous zones
Patent family FR2924194 (gas block)

Passive Gas Block Connector

6274 Passive Gas Block Connector

HR polymer, NBR



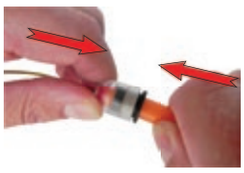
ØD		G	H	Kg
5	6274 05 00	10.5	17	0.001
7	6274 07 00	13.5	22	0.003
10	6274 10 00	16	22	0.005
12	6274 12 00	19	28	0.009
14	6274 14 00	22	31	0.018

Installation Process

1. Slide the Gas Block Connector onto the optic fibre cable.

Centering and turning the connector facilitates the passage of the largest optic fibre cable possible through the Gas Block.

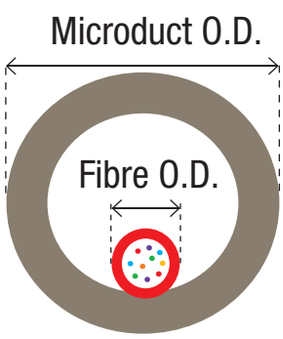
2. Push the connector onto the microduct tubing.



3. Press the connector very firmly, straight onto the tubing, and compress the seal.

4. Check: the optic fibre cable should be held tightly by the seal.
The cable can still slide, allowing its length to be adjusted out of the Gas Block if necessary.

Microduct/Fibre Cable Combination



We recommend the use of a safety clip in order to prevent accidental disconnection.

Connector / Microduct O.D (mm)	Fibre O.D. (mm)
5	1 to 2.5
7	1 to 4
10	1.4 to 6.5
12	3 to 8,6
14	3 to 9

Accessories for Direct Buried and Direct Install Connectors

Parker Legris has designed different accessories to improve **safety** and allow circuit **identification**.

Product Advantages

Tamper-Proof Safety Clip

- Prevents accidental disconnection
- Disconnection only possible with tooling
- Resistant to grease and cleaning agents
- Colour-coding for tube identification (6 colours)
- Adapted to suit all installation configurations

Detectable Buried End Cap

- Easy detection of loose underground network's termination
- Cost and time saving when maintaining or expanding the network
- Metal cover locks to plastic end cap during microduct connection to enable visual detection of correct positioning over time

Applications

Underground Networks
Micro-Tubing
Air Blowing
Water Floating
Heavy Duty Ducting

Technical Characteristics

	Detectable Buried End Cap
Working Temperature	Vacuum to 25 bar
Working Temperature	-20°C to +80°C
Suitable Ducts	Direct install and direct buried
Tubing Diameter	Ø 7 mm to Ø 14 mm

Component Materials

Installation Process

Tamper-Proof Safety Clip

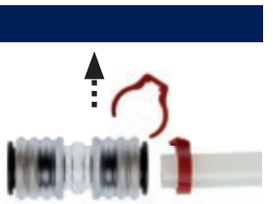
Connection

1. Assemble the clip

2. Connect the tubing

Disconnection

1. Cut the clip with pliers



2. Remove the clip and tubing

Detectable Buried End Cap

1. A cap, a clip and a metal cover

2. Assemble the clip on the cap

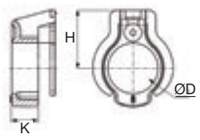
3. Mount the cap within the metal cover

4. Connect the tube

Accessories for Direct Buried and Direct Install Connectors

3130 Tamper-Proof Safety Clip

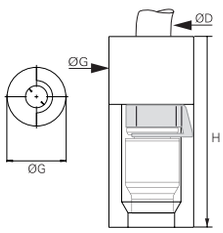
Technical polymer



ØD							H	K	Kg
4	3130 04 01	3130 04 02	3130 04 03	3130 04 04	3130 04 05	3130 04 10	6.5	3	0.001
6	3130 06 01	3130 06 02	3130 06 03	3130 06 04	3130 06 05	3130 06 10	8	3	0.001
8	3130 08 01	3130 08 02	3130 08 03	3130 08 04	3130 08 05	3130 08 10	9.5	4.3	0.001
10	3130 10 01	3130 10 02	3130 10 03	3130 10 04	3130 10 05	3130 10 10	10.8	4.2	0.001
12	3130 12 01	3130 12 02	3130 12 03	3130 12 04	3130 12 05	3130 12 10	12.5	5.1	0.004
14	3130 14 01	3130 14 02	3130 14 03	3130 14 04	3130 14 05	3130 14 10	15	6	0.004

6276 Detectable Buried End Cap

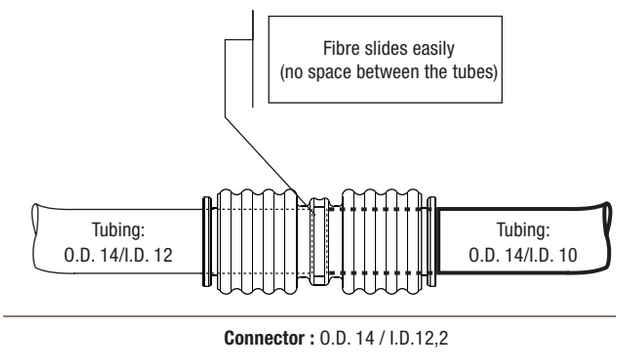
Technical polymer, steel, NBR



ØD		G	H	Kg
7	6276 07 00	20	45	0.054
8	6276 08 00	20	45	0.054
10	6276 10 00	22	45	0.043
12	6276 12 00	24	50	0.064
14	6276 14 00	27.5	60	0.065

This product is available on request only.

Bridging of O.D./I.D. Connector



Connector : O.D. 14 / I.D.12,2

Connector O.D. (mm)/ I.D. (mm)	Tube O.D. (mm)	Tube I.D. (mm)
5 / 4	5	2.1 to 3.8
7 / 5.7	7	3 to 5.5
8 / 6.2	8	3.5 to 6
10 / 8.2	10	5.5 to 8
12 / 12.2	12	8 to 10
14 / 12.2	14	9,6 to 12