

# Connectors for Optic Fibre Cable

## Direct Buried Connectors and End Caps

**6270**  
Page 1-75

**6270..03**  
Page 1-75

**6273**  
Page 1-75

**6273..03**  
Page 1-75



## Direct Install Connectors and End Caps

**6271**  
Page 1-77

**6271..03**  
Page 1-77

**3151**  
Page 1-77

**3151..03**  
Page 1-77



## Passive Gas Block Connectors

**6274**  
Page 1-79



## Accessories for Direct Buried and Direct Install Connectors

**3130**  
Page 1-81

**6276**  
Page 1-81



# 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



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

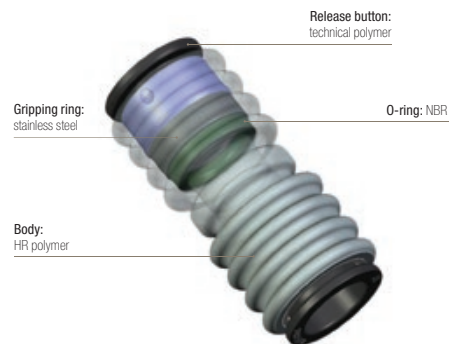
Applications

## Technical Characteristics

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

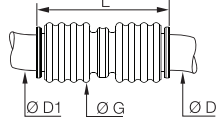
**ISO 14743:** Pneumatic fluid power, push-in connectors for thermoplastic tubes  
**NF EN 50086-2-4 replaced by NF EN 61386-24:** Standard relating to impact tests for buried systems  
**UL94:** Flame resistance

**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

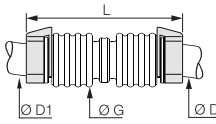


ØD	ØD1		G	L	Kg
7	7	<a href="#">6270 07 00</a>	16	38	0.006
8	8	<a href="#">6270 08 00</a>	16	39	0.006
10	10	<a href="#">6270 10 00</a>	20	43	0.009
	12	<a href="#">6270 10 12</a>	22	50	0.010
12	12	<a href="#">6270 12 00</a>	22	50	0.009
	14	<a href="#">6270 12 14</a>	24	56	0.022
14	14	<a href="#">6270 14 00</a>	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

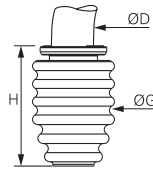


ØD	ØD1		G	L	Kg
7	7	<a href="#">6270 07 00 03</a>	16	47	0.007
8	8	<a href="#">6270 08 00 03</a>	16	48	0.007
10	10	<a href="#">6270 10 00 03</a>	20	51	0.011
	12	<a href="#">6270 10 12 03</a>	22	60	0.026
12	12	<a href="#">6270 12 00 03</a>	22	60	0.017
	14	<a href="#">6270 12 14 03</a>	24	68	0.031
14	14	<a href="#">6270 14 00 03</a>	24	68	0.023

This product is available on request only.

## 6273 End Cap

HR polymer, NBR

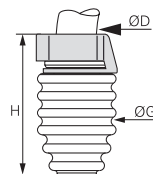


ØD		G	H	Kg
7	<a href="#">6273 07 00</a>	16	23	0.002
8	<a href="#">6273 08 00</a>	16	24	0.002
10	<a href="#">6273 10 00</a>	20	26	0.003
12	<a href="#">6273 12 00</a>	22	30	0.006
14	<a href="#">6273 14 00</a>	24	33	0.014

16 mm also available upon request

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

HR polymer, NBR



ØD		G	H	Kg
7	<a href="#">6273 07 00 03</a>	16	28	0.003
8	<a href="#">6273 08 00 03</a>	16	29	0.003
10	<a href="#">6273 10 00 03</a>	20	31	0.005
12	<a href="#">6273 12 00 03</a>	22	35	0.009
14	<a href="#">6273 14 00 03</a>	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



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

Applications

## Technical Characteristics

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

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

### Component Materials



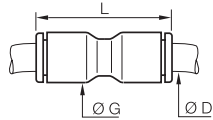
### Regulations and Intellectual Property

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

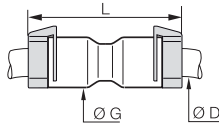


ØD		G	L	Kg
5	<a href="#">6271 05 00</a>	10.5	30	0.002
7	<a href="#">6271 07 00</a>	13.5	38	0.004
8	<a href="#">6271 08 00</a>	13.5	38	0.004
10	<a href="#">6271 10 00</a>	16	42	0.006
12	<a href="#">6271 12 00</a>	19	50.5	0.009
14	<a href="#">6271 14 00</a>	22	56	0.014

16 mm also available upon request

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

HR polymer, NBR

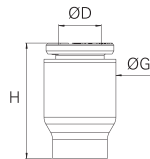


ØD		G	L	Kg
5	<a href="#">6271 05 00 03</a>	10.5	38	0.007
7	<a href="#">6271 07 00 03</a>	13.5	47	0.007
8	<a href="#">6271 08 00 03</a>	13.5	48	0.007
10	<a href="#">6271 10 00 03</a>	16	51	0.011
12	<a href="#">6271 12 00 03</a>	19	60	0.017
14	<a href="#">6271 14 00 03</a>	22	68	0.025

This product is available on request only.

## 3151 End Cap

Technical polymer, NBR

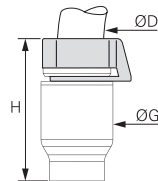


ØD		G	H	Kg
5	<a href="#">3151 05 00</a>	10.5	17	0.001
7	<a href="#">3151 07 00</a>	13.5	22	0.003
8	<a href="#">3151 08 00</a>	13.5	22	0.003
10	<a href="#">3151 10 00</a>	16	22	0.005
12	<a href="#">3151 12 00</a>	19	28	0.009
14	<a href="#">3151 14 00</a>	22	31	0.018

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	<a href="#">3151 05 00 03</a>	10.5	20	0.002
7	<a href="#">3151 07 00 03</a>	13.5	26	0.004
8	<a href="#">3151 08 00 03</a>	13.5	26	0.004
10	<a href="#">3151 10 00 03</a>	16	27	0.007
12	<a href="#">3151 12 00 03</a>	19	33	0.011
14	<a href="#">3151 14 00 03</a>	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

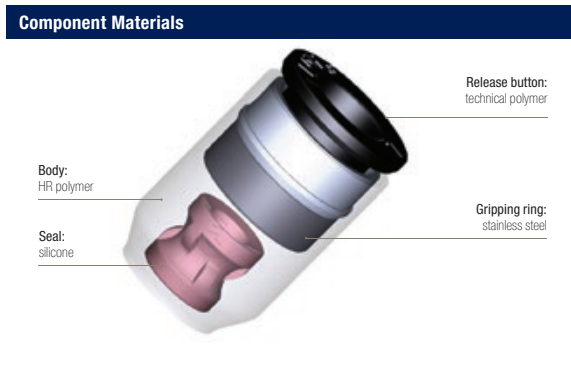


Applications

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

## Technical Characteristics

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



## Regulations

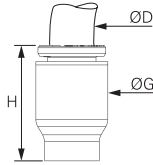
ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes  
 IP68: Seepage resistance to water and dust  
 UL94 V-2: Flame resistance for indoor installation or hazardous zones  
 Patent family FR2924194 (gas block)

# Passive Gas Block Connector

**6274**

Passive Gas Block Connector

HR polymer, NBR



ØD		G	H	Kg
5	<a href="#">6274 05 00</a>	10.5	17	0.001
7	<a href="#">6274 07 00</a>	13.5	22	0.003
10	<a href="#">6274 10 00</a>	16	22	0.005
12	<a href="#">6274 12 00</a>	19	28	0.009
14	<a href="#">6274 14 00</a>	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.

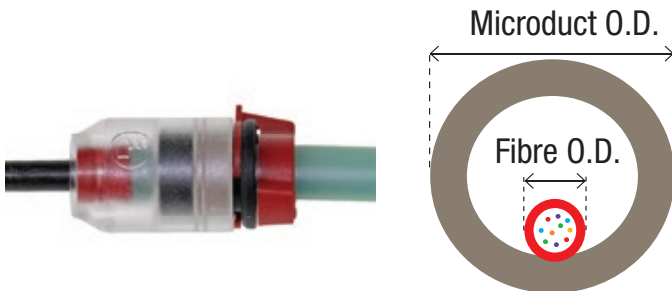


3. Press the connector very firmly, straight onto the tubing, and compress the seal.



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



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

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

# 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

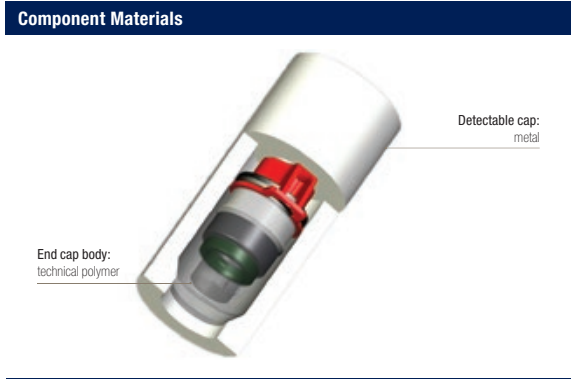
**Detectable Buried End Cap** Easy detection of loose underground network's termination  
 Cost and time saving when maintaining or expanding the network  
 Metal cover locks to plastic end cap during microduct connection to enable visual detection of correct positioning over time



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



## Installation Process


**Tamper-Proof Safety Clip**

**Connection**




1. Assemble the clip

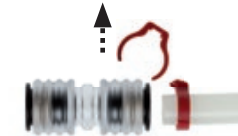
**Disconnection**



2. Connect the tubing




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



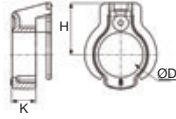
4. Connect the tube



# Accessories for Direct Buried and Direct Install Connectors

## 3130 Tamper-Proof Safety Clip

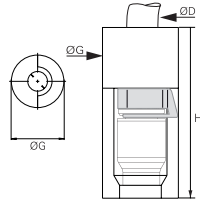
Technical polymer




ØD						H	K	Kg	
4	<a href="#">3130 04 01</a>	<a href="#">3130 04 02</a>	<a href="#">3130 04 03</a>	<a href="#">3130 04 04</a>	<a href="#">3130 04 05</a>	<a href="#">3130 04 10</a>	6.5	3	0.001
6	<a href="#">3130 06 01</a>	<a href="#">3130 06 02</a>	<a href="#">3130 06 03</a>	<a href="#">3130 06 04</a>	<a href="#">3130 06 05</a>	<a href="#">3130 06 10</a>	8	3	0.001
8	<a href="#">3130 08 01</a>	<a href="#">3130 08 02</a>	<a href="#">3130 08 03</a>	<a href="#">3130 08 04</a>	<a href="#">3130 08 05</a>	<a href="#">3130 08 10</a>	9.5	4.3	0.001
10	<a href="#">3130 10 01</a>	<a href="#">3130 10 02</a>	<a href="#">3130 10 03</a>	<a href="#">3130 10 04</a>	<a href="#">3130 10 05</a>	<a href="#">3130 10 10</a>	10.8	4.2	0.001
12	<a href="#">3130 12 01</a>	<a href="#">3130 12 02</a>	<a href="#">3130 12 03</a>	<a href="#">3130 12 04</a>	<a href="#">3130 12 05</a>	<a href="#">3130 12 10</a>	12.5	5.1	0.004
14	<a href="#">3130 14 01</a>	<a href="#">3130 14 02</a>	<a href="#">3130 14 03</a>	<a href="#">3130 14 04</a>	<a href="#">3130 14 05</a>	<a href="#">3130 14 10</a>	15	6	0.004

## 6276 Detectable Buried End Cap

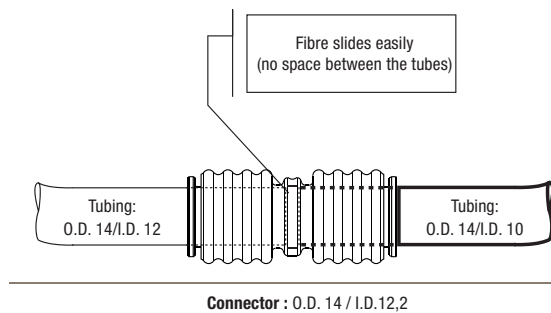
Technical polymer, steel, NBR



ØD		G	H	Kg
7	<a href="#">6276 07 00</a>	20	45	0.054
8	<a href="#">6276 08 00</a>	20	45	0.054
10	<a href="#">6276 10 00</a>	22	45	0.043
12	<a href="#">6276 12 00</a>	24	50	0.064
14	<a href="#">6276 14 00</a>	27.5	60	0.065

This product is available on request only.

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



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