



Parker Legris: Global Range of Connectors for Optic Fibre Networks

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



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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: fibre optic 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

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 16 mm

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

Component Materials

Release button:
technical polymer

Gripping ring:
stainless steel

O-ring: NBR

Body:
HR polymer

Regulations and Intellectual Property

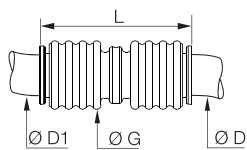
ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes	IP68: Seepage resistance to water and dust
NF EN 50086-2-4 replaced by NF EN 61386-24: Standard relating to impact tests for buried systems	Patent family FR2980999 (buried connectors)
UL94: Flame resistance	Patent family FR2924194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

The above recommendations are given in good faith. However, since every application is different, it is advisable to undertake tests in actual working conditions.

Direct Buried Connectors and End Caps

6270 Equal and Unequal Tube-to-Tube Connector

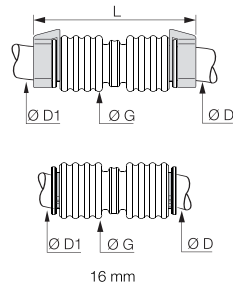
HR polymer, NBR



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	16	6270 16 00	29	60	0.022

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

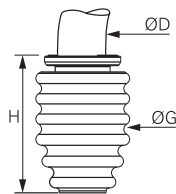
HR polymer, NBR



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
16	16	6270 16 00 03	29	60	0.031

6273 End Cap

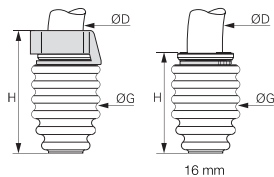
HR polymer, NBR



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	6273 16 00	29	36	0.028

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
16	6273 16 00 03	29	36	0.032

Direct Install Connectors

A range of high performance connectors dedicated to direct install systems for FTTx* networks 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 for network expansion
- 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 microducts
Tubing Diameter	Ø 5 mm to Ø 14 mm

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

Component Materials

Release button: technical polymer

O-ring: NBR

Gripping ring: stainless steel

Body: HR polymer onate

Regulations and Intellectual Property

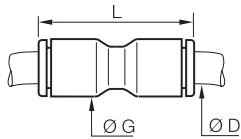
- ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes
- IP68: Seepage resistance to water and dust
- UL94 V-2: Flame resistance
- Patent family FR2924194 (safety clips)

The above recommendations are given in good faith. However, since every application is different, it is advisable to undertake tests in actual working conditions.

Direct Install Connectors and End Caps

6271 Equal Tube-to-Tube Connector

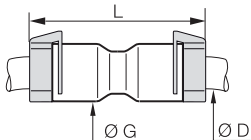
HR polymer, NBR



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

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

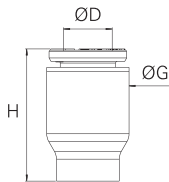
HR polymer, NBR



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

3151 End Cap

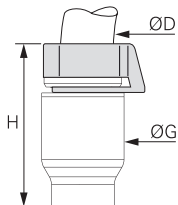
Technical polymer, NBR



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

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

Related Products

- Tube Cutters: to order, please refer to our general Catalogue (in the "Technical Tubing and Hose" chapter).

3000 71 00



3000 71 11



End Cap Gas Block Connector

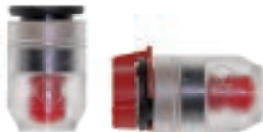
Easy-to-use product, providing **quick** and **efficient** sealing of the end of the FTTx* network and thereby **long-term protection of the installation**.



*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	-15°C to +45°C
Storage Temperature	-20°C to +80°C
Suitable Ducts	Direct install and direct buried microducts
Tubing Diameter	Ø 5 mm to Ø 14 mm

Component Materials

Release button: technical polymer

Gripping ring: stainless steel

Body: HR polymer

Seal: silicone

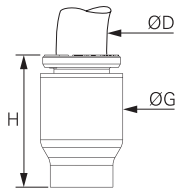
Regulations

- 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 FR2960039 (gas block)

End Cap Gas Block Connector

6274 End Cap Gas Block Connector

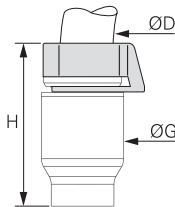
HR polymer, silicone



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

6274..03 End Cap Gas Block Connector with Red Tamper-Proof Safety Clip

HR polymer, silicone



ØD		G	H	Kg
5	6274 05 00 03	10.5	20	0.002
7	6274 07 00 03	13.5	26	0.004
10	6274 10 00 03	16	27	0.007
12	6274 12 00 03	19	33	0.011
14	6274 14 00 03	22	35	0.022

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.

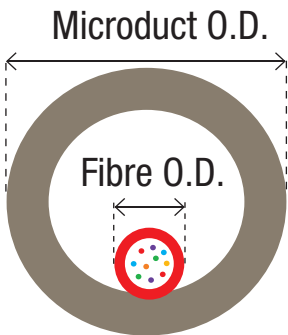


3. Press the connector very firmly, straight onto the tubing, and compress the seal.



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	1.8 to 6.5
12	DB duct: 3 to 8.6 DI duct: 4 to 8.6
14	DB duct: 3 to 8.6 DI duct: 4 to 8.6

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

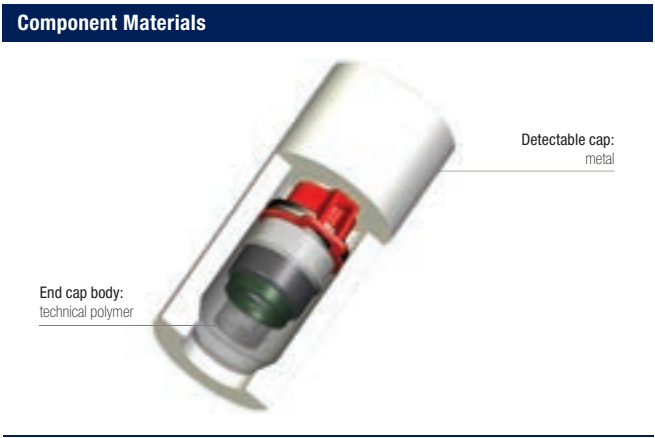


Underground Networks
Micro-Tubing
Air Blowing
Water Floating
Heavy Duty Ducting

Applications

Technical Characteristics

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



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

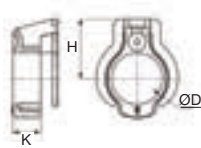
Detectable Buried End Cap

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

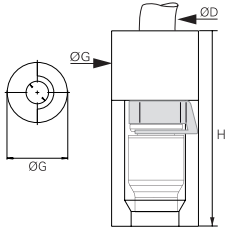
Technical polymer



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

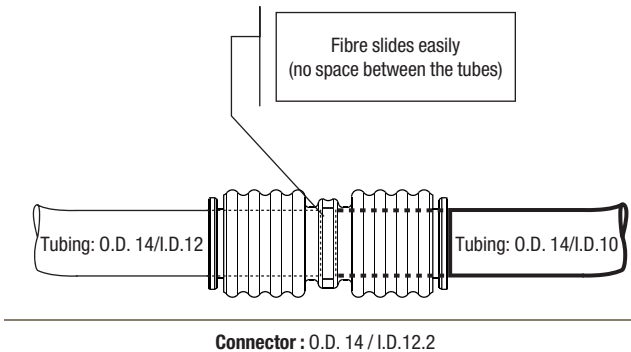
Technical polymer, steel, NBR



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

Delivered as 3 separate parts.

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



Together, we can network your FTTx solutions. More than 50 years of connector expertise.



Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374.



Aerospace **Key Markets**

Aftermarket services
Commercial transports
Engines
General & business aviation
Helicopters
Launch vehicles
Military aircraft
Missiles
Power generation
Regional transports
Unmanned aerial vehicles

Key Products

Control systems & actuation products
Engine systems & components
Fluid conveyance systems & components
Fluid metering, delivery & atomization devices
Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Climate Control **Key Markets**

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO₂ controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & connectors
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Electromechanical **Key Markets**

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydraulic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions



Filtration **Key Markets**

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & driers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems



Fluid & Gas Handling **Key Markets**

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube connectors & adapters
Tubing & plastic connectors



Hydraulics **Key Markets**

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors



Pneumatics **Key Markets**

Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass connectors & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & connectors
Vacuum generators, cups & sensors



Process Control **Key Markets**

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection connectors & valves
Fluoropolymer chemical delivery connectors, valves & pumps
High purity gas delivery connectors, valves, regulators & digital flow controllers
Industrial mass flow meters/ controllers
Permanent no-weld tube connectors
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control connectors, valves, regulators & manifold valves



Sealing & Shielding **Key Markets**

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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