



Parker Legris: Global Range of Connectors for Optic Fibre Networks

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



ENGINEERING YOUR SUCCESS.

Direct Buried Connectors

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

Product Advantages

Optimised Installation

- Transparent: 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

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



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

Applications

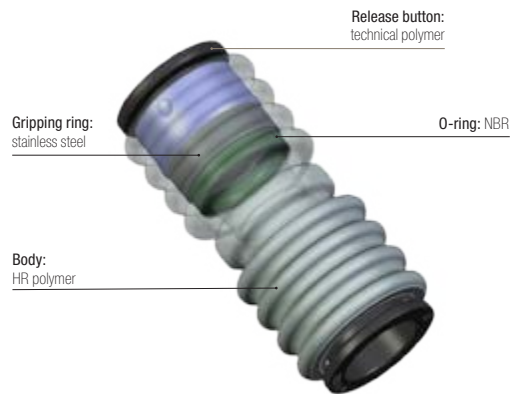


Technical Characteristics

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	Conformed 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


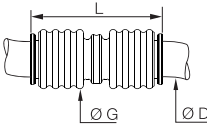

ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes
NF EN 50086-2-4 replaced by NF EN 61386-24: Standard relating to impact tests for buried systems
UL94: Flame resistance

IP68: Seepage resistance to water and dust
Patent #2297504 (clip)
Patent pending #11 59191 (buried connector)


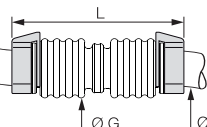

The above recommendations are given in good faith. However, since each application is different, it is advisable to undertake tests in actual working conditions.

Direct Buried Connectors and End Caps


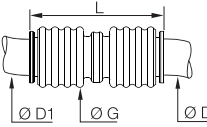

6270 Equal Tube-to-Tube Connector

	HR polymer, NBR 	ØD		G	L	kg
		7	6270 07 00	16	38	0.005
		8	6270 08 00	16	39	0.004
		10	6270 10 00	20	43	0.007
		12	6270 12 00	22	50	0.011
		14	6270 14 00	24	56	0.017
16 mm also available upon request						


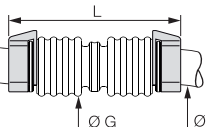

6270..03 Equal Tube-to-Tube Connector with Red Tamper-Proof Safety Clips

	HR polymer, NBR 	ØD		G	L	kg
		7	6270 07 00 03	16	47	0.007
		8	6270 08 00 03	16	48	0.007
		10	6270 10 00 03	20	51	0.011
		12	6270 12 00 03	22	60	0.017
		14	6270 14 00 03	24	68	0.021
This product is available on request only. For part numbers ending with 03, the clip is pre-assembled.						


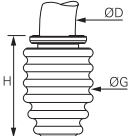

6270 Unequal Tube-to-Tube Connector

	HR polymer, NBR 	ØD	ØD1		G	L	kg
		10	12	6270 10 12	22	50	0.020
		12	14	6270 12 14	24	56	0.025


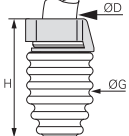

6270..03 Unequal Tube-to-Tube Connector with Red Tamper-Proof Safety Clips

	HR polymer, NBR 	ØD	ØD1		G	L	kg
		10	12	6270 10 12 03	22	60	0.026
		12	14	6270 12 14 03	24	68	0.031
		This product is available on request only. For part numbers ending with 03, the clip is pre-assembled.					

6273 End Cap

	HR polymer, NBR 	ØD		G	H	kg
		7	6273 07 00	16	22	0.002
		8	6273 08 00	16	22	0.002
		10	6273 10 00	20	22	0.003
		12	6273 12 00	22	28	0.006
		14	6273 14 00	24	28	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	26	0.003
		8	6273 08 00 03	16	26	0.003
		10	6273 10 00 03	20	26	0.005
		12	6273 12 00 03	22	33	0.009
		14	6273 14 00 03	24	34	0.018
This product is available on request only. For part numbers ending with 03, the clip is pre-assembled.						

Direct Install Connectors

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

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 thickness 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 resistance to 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

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



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

Applications



Technical Characteristics

Compatible Fluids	Air, water
Working Pressure	Vacuum to 15 bar
Working Temperature	-15°C to +45°C Storage temperature: -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




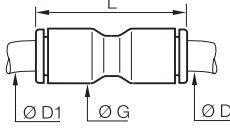

Regulations and Intellectual Property

- ISO 14743: Pneumatic fluid power, push-in connectors for thermoplastic tubes
- IP68: Seepage resistance to water and dust
- UL94 V-2: Flame resistance


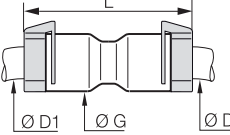

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Direct Install Connectors and End Caps


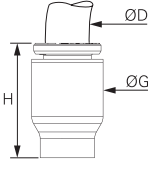

6271 Equal Tube-to-Tube Connector

	<p>HR polymer, NBR</p> 	<p>ØD</p> 	<p>G</p>	<p>L</p>	<p>kg</p>	
		5	6271 05 00	10.5	28.5	0.002
		7	6271 07 00	13.5	38	0.004
		8	6271 08 00	13.5	39	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
<p>16 mm also available upon request</p>						


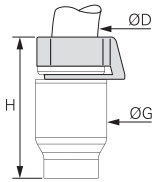

6271..03 Equal Tube-to-Tube Connector with Red Tamper-Proof Safety Clips

	<p>HR polymer, NBR</p> 	<p>ØD</p> 	<p>G</p>	<p>L</p>	<p>kg</p>	
		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
<p>This product is available on request only. For part numbers ending with 03, the clip is pre-assembled.</p>						

3151 End Cap

	<p>Technical polymer, NBR</p> 	<p>ØD</p> 	<p>G</p>	<p>H</p>	<p>kg</p>	
		5	3151 05 00	10.5	16.5	0.001
		7	3151 07 00	13.5	26	0.003
		8	3151 08 00	13.5	26	0.003
		10	3151 10 00	16	26	0.005
		12	3151 12 00	19	33	0.009
		14	3151 14 00	22	34	0.018
<p>16 mm also available upon request</p>						

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

	<p>Technical polymer, NBR</p> 	<p>ØD</p> 	<p>G</p>	<p>H</p>	<p>kg</p>	
		5	3151 05 00 03	10.5	19.5	0.002
		7	3151 07 00 03	13.5	29	0.004
		8	3151 08 00 03	13.5	29	0.004
		10	3151 10 00 03	16	29	0.007
		12	3151 12 00 03	19	38	0.011
		14	3151 14 00 03	22	40	0.022
<p>This product is available on request only. For part numbers ending with 03, the clip is pre-assembled.</p>						

Related Products

- Tube Cutters



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.

Product Advantages

- Stock Optimisation** | More possibilities with fewer references
1 connector allows for several microduct/fibre cable combinations
- Easy Handling** | Optic fibre visible as it passes through seal, allowing for considerable time-saving
Visual connection indication
100% push-in technology with optic fibre 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

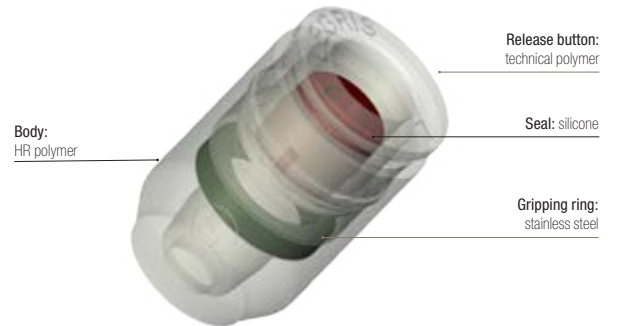


*FTTx: Fibre To The x = home, building, campus, etc.

Technical Characteristics

Compatible Fluids	Air, water
Sealing Level	1 bar
Storage Temperature Working Temperature	-20°C to +80°C -15°C to +45°C
Suitable Ducts	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 # 13 50074 (Sealing is gas and watertight)


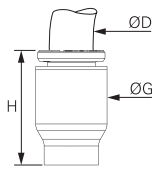

Installation Process

1. A passive gas block connector, optical fibre and microduct
2. Push optic fibre through the red seal
3. Press firmly on microduct for complete connection
4. The seal must be pushed down to the bottom of the gas block and the fibre must be fixed

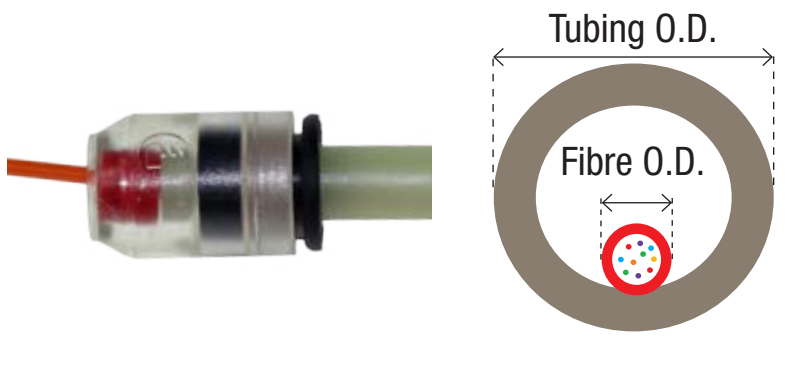
Passive Gas Block Connector

6274

Passive Gas Block Connector

	<p>HR polymer, NBR, silicone</p> 	<p>ØD</p> 	<p>G</p>	<p>H</p>	<p>kg</p>	
		5	6274 05 00	10.5	16.5	0.001
		7	6274 07 00	13.5	26	0.003
		10	6274 10 00	16	26	0.005
		12	6274 12 00	19	33	0.009
		14	6274 14 00	22	34	0.018

Microduct/Fibre Cable Combination



Connector Diameter Corresponding to Tubing O.D. (mm)	Fibre O.D. (mm)
5	1 to 1.8
7	1.8 to 3.8
10	5.5
12	6 to 9
14	10

Accessories for Direct Buried and Direct Install Connectors

Parker Legris has designed these different accessories to improve **safety** and 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 microproduct connection to enable visual detection of correct positioning over time

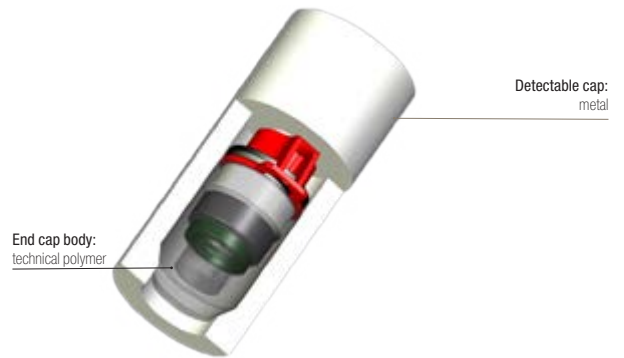
- Underground Networks
- Micro-Tubing
- Air Blowing
- Water Floating
- Heavy Duty Ducting

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
Tubing Diameter	Ø 7 mm to Ø 14 mm

Component Materials



Installation Process

Tamper-Proof Safety Clip

Connection



1. Assemble the clip

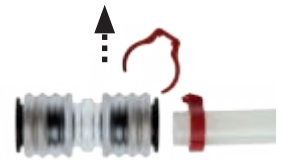


2. Connect the tubing

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

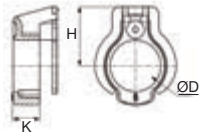


4. Connect the tube

Accessories for Direct Buried and Direct Install Connectors

3130 Tamper-Proof Safety Clip

Technical polymer



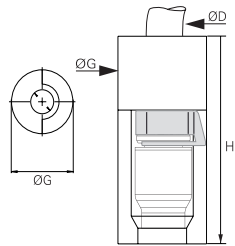
ØD							H	K	kg
5	3130 05 01	3130 05 02	3130 05 03	3130 05 04	3130 05 05	3130 05 10	7.8	3.1	0.001
7	3130 07 01	3130 07 02	3130 07 03	3130 07 04	3130 07 05	3130 07 10	9.5	4.3	0.001
8	3130 08 01	3130 08 02	3130 08 03	3130 08 04	3130 08 05	3130 08 10	9.5	4.3	0.001
10	3130 10 01	3130 10 02	3130 10 03	3130 10 04	3130 10 05	3130 10 10	10.8	4.2	0.002
12	3130 12 01	3130 12 02	3130 12 03	3130 12 04	3130 12 05	3130 12 10	12.5	5.1	0.003
14	3130 14 01	3130 14 02	3130 14 03	3130 14 04	3130 14 05	3130 14 10	15	6	0.004

* Standard version

6276 Detectable Buried End Cap



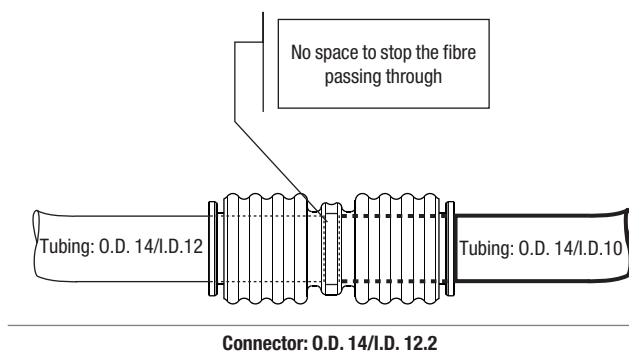
Technical polymer, NBR, metal



ØD		ØG	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. (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 & dryers
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

ENGINEERING YOUR SUCCESS.

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