
# PFA Tubing

## A Range of Tubing Suitable for the Most Aggressive Environments and Demanding Applications

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

Parker legris connectic

ENGINEERING YOUR SUCCESS.

# PFA TUBING

Food industry
Aircraft
Biotechnology
Fuel cells
Semiconductor
Oil/Gas industry
Chemical industry
UV sterilization
Electrical/Electronics
Laboratory
Medical/Pharmaceutical
Automotive
Cryogenics
Die cooling systems

## A Comprehensive Range of PFA Tubing for Perfect Adaptability

- High purity grade PFA for our clear tubing to cover all applications
- Standard grade PFA for our coloured tubing for circuit identification and special requests
- Antistatic grade PFA for our black tubing to prevent all electrostatic discharges

## PFA: Extreme Versatility for all Technical Applications

- A flexible alternative to stainless steel tubing
- Chemical inertia offering the most extensive solvent resistance
- Broad range of working temperatures, from cryogenic to extremely hot
- Non-stick properties to allow the conveyance of numerous fluids and gases
- Outstanding resistance to ageing
- The lowest gas and fluid permeability for safer use
- Non-flammable
- UV-transparent
- Clear tubing has unsurpassed purity with ability to withstand repeated flexing and resist stress cracking

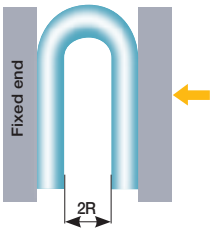
## > Technical Characteristics

| | |
|---|---|
| Suitable Fluids / Applications | Medical, food, gas and compressed air |
| Working Pressure | Vacuum to 36 bar (diam. 4 mm at +20°C) |
| Working Temperature | -196°C to +260°C |
| Material | PFA (Perfluoroalkoxy):<br>• High purity grade PFA<br>• Standard grade coloured crystal PFA<br>• Antistatic grade PFA* |

*Available on request only

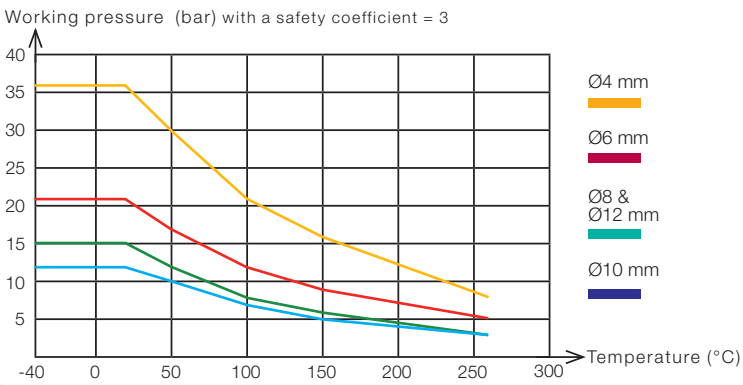
## > Dimensions

| Ø (mm) | | Wall Thickness (mm) | | Max. Ovality (mm) | Min. Bend Radius@ +23°C (mm) |
|---|---|---|---|---|---|
| O.D. | Tolerances | e | Tolerances | | |
| 4 | ± 0.10 | 1.0 | + 0.10 - 0.05 | 0.2 | 12 |
| 6 | ± 0.10 | 1.0 | + 0.10 - 0.05 | 0.2 | 34 |
| 8 | ± 0.10 | 1.0 | + 0.10 - 0.05 | 0.2 | 60 |
| 10 | ± 0.15 | 1.0 | + 0.10 - 0.05 | 0.2 | 95 |
| 12 | ± 0.15 | 1.5 | + 0.15 - 0.07 | 0.3 | 120 |




Measurement method of the bending radius:
Bend the tube into the U-form at a temperature of +20°C (+/- 3°C).
Hold one end and close loop gradually up to 2R measurement between both ends.

## > Performances and Regulation Compliances




To calculate burst measurements, the values in this graph should be multiplied by 3.

Close tolerance to perfect sealing with Parker Legris fittings based on NF E49-100.

With compression fittings, a ferrule must be used.

**Medical Regulations**
- USP Class VI (A)
  External communication devices

**Industrial Regulations**
- DI: 2006/42/EC (Machinery directive)
- UL 94 - V0
- DI: 2002/95/EC (RoHS)
- DI: 97/23/EC (PED)
- RG: 1907/2006 (REACH)

**Food Regulations**
- FDA: 21 CFR 177.1550 (clear, coloured crystal)
- RG: 1935/2004

(A) high purity PFA

## > Packaging

Tubepack® advantages:
- Compactness: optimized sizes
- Protection against dust: airtight plastic bag
- Easy to stock, to use and to identify


legris

## > References and Dimensions

| Length: 10 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| O.D. tube mm | I.D. tube mm | Minimum bend radius for tube at ambient temp. (in mm) | clear HP* PFA | antistatic** | crystal | crystal | crystal | for 10 m |
| 4 | 2 | 12 | 1010T04P00 | 1010T04A01 | 1010T04P12 | 1010T04P13 | 1010T04P14 | 0.087 |
| 6 | 4 | 34 | 1010T06P00 | 1010T06A01 | 1010T06P12 | 1010T06P13 | 1010T06P14 | 0.237 |
| 8 | 6 | 60 | 1010T08P00 | 1010T08A01 | 1010T08P12 | 1010T08P13 | 1010T08P14 | 0.410 |
| 10 | 8 | 95 | 1010T10P00 | 1010T10A01 | 1010T10P12 | 1010T10P13 | 1010T10P14 | 0.723 |
| 12 | 9 | 120 | 1010T12P00 | 1010T12A01 | 1010T12P12 | 1010T12P13 | 1010T12P14 | 1.148 |

| Length: 50 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| O.D. tube mm | I.D. tube mm | Minimum bend radius for tube at ambient temp. (in mm) | clear HP* PFA | antistatic** | crystal | crystal | crystal | for 50 m |
| 4 | 2 | 12 | 1050T04P00 | 1050T04A01 | 1050T04P12 | 1050T04P13 | 1050T04P14 | 0.435 |
| 6 | 4 | 34 | 1050T06P00 | 1050T06A01 | 1050T06P12 | 1050T06P13 | 1050T06P14 | 1.185 |
| 8 | 6 | 60 | 1050T08P00 | 1050T08A01 | 1050T08P12 | 1050T08P13 | 1050T08P14 | 2.050 |
| 10 | 8 | 95 | 1050T10P00 | 1050T10A01 | 1050T10P12 | 1050T10P13 | 1050T10P14 | 3.615 |
| 12 | 9 | 120 | 1050T12P00 | 1050T12A01 | 1050T12P12 | 1050T12P13 | 1050T12P14 | 5.740 |

| Length: 100 m | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| O.D. tube mm | I.D. tube mm | Minimum bend radius for tube at ambient temp. (in mm) | clear HP* PFA | antistatic** | crystal | crystal | crystal | for 100 m |
| 4 | 2 | 12 | 1100T04P00 | 1100T04A01 | 1100T04P12 | 1100T04P13 | 1100T04P14 | 0.870 |
| 6 | 4 | 34 | 1100T06P00 | 1100T06A01 | 1100T06P12 | 1100T06P13 | 1100T06P14 | 2.370 |
| 8 | 6 | 60 | 1100T08P00 | 1100T08A01 | 1100T08P12 | 1100T08P13 | 1100T08P14 | 4.100 |
| 10 | 8 | 95 | 1100T10P00 | 1100T10A01 | 1100T10P12 | 1100T10P13 | 1100T10P14 | 7.230 |
| 12 | 9 | 120 | 1100T12P00 | 1100T12A01 | 1100T12P12 | 1100T12P13 | 1100T12P14 | 11.480 |

*HP: High Purity
**: available upon request

## > Custom Services

### ■ Marked Tubing

Custom laser scribing on clear version for:

- 100% batch traceability
- Identifying chemical names
- Brand/Private labels

Parker Legris has a policy of continual product development and therefore reserves the right to modify products shown in this catalogue. Please treat all dimensions therefore as indicative.

Parker Legris Connectic offers a comprehensive range of connection solutions ; please consult our general catalogue or visit **www.legris.com** or **www.parkerconnectic.com**.



LEAF/0508/UK 06/11EN

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