

# Multi-Tubing

Our range of multi-tubing combines high quality performance and **space optimisation** in complex pneumatic circuits **covering a wide range of environments**. Many possible **configurations** are available, depending on the pressure, temperature, flexibility and compatibility requirements.

## Product Advantages

### Sheathed PA Tubing

- PVC sheath resistant to external damage:
  - abrasion
  - weld spatter
  - aggressive fluids
- Helically wound: minimum bend radius, compact installation
- Simplified routing
- Easy identification of circuits
- Same technical performance as PA
- Possible number of tubes: from 2 to 12, with numbering
- Silicone-free



### Twin PU Ester Tubing

- Tubes fully joined for improved solidity
- External diameter maintained after separation
- Rapid identification of circuits
- Quick and easy installation
- Simplified routing
- 3 colour combinations available
- Silicone-free

**Applications**

- Pneumatics
- Automation
- Robotics
- Transportation
- In-Plant Automotive
- Process Industry

## Technical Characteristics

Tube	PA	PU
<b>Compatible Fluids</b>	Compressed air, chemicals, industrial fluids	Compressed air, industrial fluids
<b>Working Pressure</b>	Vacuum to 24 bar	0 to 14 bar
<b>Working Temperature</b>	-40°C to +80°C	-20°C to +70°C
<b>Component Materials</b>	Polyamide	Polyurethane ester

### Regulations

#### Industrial

DI: 2002/95/EC (RoHS), 2011/65/EC  
 DI: 97/23/EC (PED)  
 RG: 1907/2006 (REACH)

Performance and chemical resistance according to DIN 73378

### Packaging

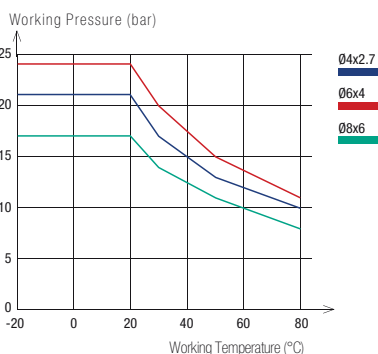
Sheathed PA Tubing:  
 Tubepack® 10 m, 50 m

Twin PU Ester Tubing:  
 Tubepack® 25 m

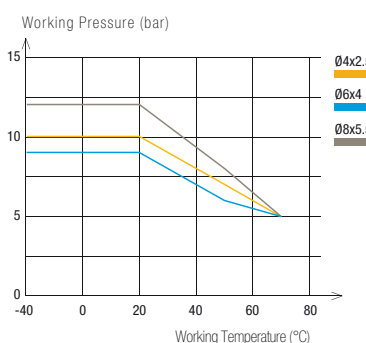
Reliable performance is dependent upon the type of fluid conveyed and fittings being used. Use is guaranteed with a vacuum of 755 mm Hg (99% vacuum).

### Tubing Performance

#### Sheathed PA Tubing



#### Twin PU Ester Tubing





Material	Tube O.D.	Tube O.D. Tolerance
PA	4 mm	+0.05 / -0.08
	6 to 8 mm	+0.05 / -0.10
PU	4 to 8 mm	+0.10 / -0.10

Connected to Parker Legris push-in fittings, the calibration of Parker Legris tubing ensures perfect sealing based on NF E49-100 (for semi-rigid PA) and NF E49-101 (for twin PU ester).

To calculate burst pressure, the values in these graphs should be multiplied by 3.



## 1010P.. M Semi-Rigid Polyamide (PA) Multi-Tubing

Reel 10 m

O.D. (mm)	I.D. (mm)		Number of tubes		kg
4	2.7	35	4	<a href="#">1010P04 00M04</a>	1.440
4	2.7	45	7	<a href="#">1010P04 00M07</a>	1.920
6	4	55	4	<a href="#">1010P06 00M04</a>	2.300
6	4	60	7	<a href="#">1010P06 00M07</a>	2.900
8	6	45	2	<a href="#">1010P08 00M02</a>	2.600





## 1050P.. M Semi-Rigid Polyamide (PA) Multi-Tubing

Reel 50 m

O.D. (mm)	I.D. (mm)		Number of tubes		kg
4	2.7	20	2	<a href="#">1050P04 00M02</a>	4.400
4	2.7	35	4	<a href="#">1050P04 00M04</a>	6.600
4	2.7	45	7	<a href="#">1050P04 00M07</a>	8.200
4	2.7	55	12	<a href="#">1050P04 00M12</a>	12.444
6	4	45	2	<a href="#">1050P06 00M02</a>	8.400
6	4	55	4	<a href="#">1050P06 00M04</a>	14.500
6	4	60	7	<a href="#">1050P06 00M07</a>	12.500
8	6	45	2	<a href="#">1050P08 00M02</a>	13.000

## 1420U Twin Polyurethane (PU) Tubing

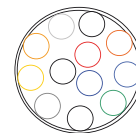
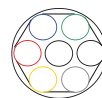
Tubepack® 25 m

O.D. tube (mm)	I.D. tube (mm)					kg
4	2.5	12	<a href="#">1420U04 11</a>	<a href="#">1420U04 44</a>	<a href="#">1420U04 41</a>	0.620
6	4	15	<a href="#">1420U06 11</a>	<a href="#">1420U06 44</a>	<a href="#">1420U06 41</a>	1.182
8	5.5	20	<a href="#">1420U08 11</a>	<a href="#">1420U08 44</a>	<a href="#">1420U08 41</a>	1.942

### Colour Selection



Multi-Tubing  
Semi-Rigid PA/PVC Sheath



## Related Products

To complement the Multi-Tubing range, Parker Legris proposes multi-connectors, shown in Chapter 1.

### Push-In Fittings

#### Multi-Connector P.1-31

