

# 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



Pneumatics  
Automation  
Robotics  
Transportation  
In-Plant Automotive  
Process Industry

Applications

## Technical Characteristics

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

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).

### Regulations

#### Industrial

DI: 2002/95/EC (RoHS), 2011/65/EC

DI: 97/23/EC (PED)

RG: 19/07/2006 (REACH)

Performance and chemical resistance according to DIN 73378

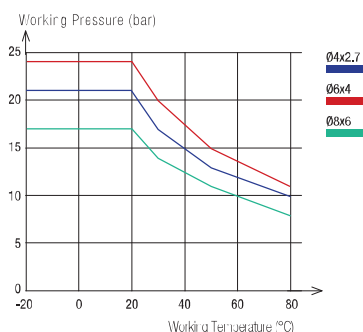
### Packaging

Sheathed PA Tubing:  
Tubepack® 10 m, 50 m

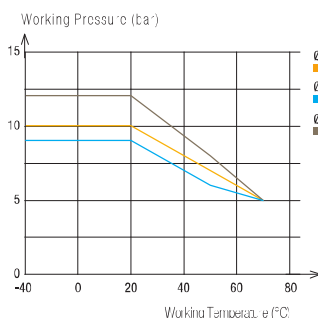
Twin PU Ester Tubing:  
Tubepack® 25 m

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

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

Reel 50 m

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

## 1420U Twin Polyurethane (PU) Tubing

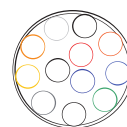
Tubepack® 25 m

| O.D.<br>tube<br>(mm) | I.D.<br>tube<br>(mm) |  |  |  |  | kg    |
|----------------------|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|
| 4                    | 2.5                  | 12                                                                                  | 1420U04 11                                                                          | 1420U04 44                                                                          | 1420U04 41                                                                            | 0.620 |
| 6                    | 4                    | 15                                                                                  | 1420U06 11                                                                          | 1420U06 44                                                                          | 1420U06 41                                                                            | 1.182 |
| 8                    | 5.5                  | 20                                                                                  | 1420U08 11                                                                          | 1420U08 44                                                                          | 1420U08 41                                                                            | 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

