



Master-Tube PE Ultra

PE tubing, extremely abrasion- and wear-resistant, very good sliding properties, extremely impact-resistant, resistant to almost all chemicals and organic solvents, no water absorption

spiral-free | metal-free | moderately flexible | pressure resistant

Product Details

Construction / Material

- Type of construction: axially extruded tubing without seams or welds
- Execution of the wall: very low sliding and static friction expressed by a low coefficient of friction, made of highly abrasion-resistant material, made of specified material, extruded
- Material of the wall: Ultra High Molecular Weight Polyethlyene (UHMWPE)

Properties

- Specifications of the product: manufactured with calibrated outer diameter
- Chemical Properties: very good resistance to chemicals, good resistance to solvents, halogen-free, good resistance to hydrolysis, silicone-free, plasticiser-free
- Mechanical Properties: high mechanical strength and surface hardness, high resistance to stress corrosion cracking
- Flexibility: moderately flexible
- Physical Properties: flexible at low temperatures, low water absorption
- Pressure Resistance: pressure resistant
- Colour: blue, black, transparent

Operating Temperature

- Temperature Range: -40to 80°C

Delivery Information

- Delivery, type of production: outer diameter: 4.0 - 12.0 mm, inner diameter: 2.0 - 10.0 mm

Application Areas

- Areas of application: Automotive, Robotics & Automation, Chemistry, Conveying, lifting & feeding technology, Painting Technology

Customizing Options

- optional item modification (on request): multiple hose, spiral version, shaped hose, rolls, cut-to-size sections

Article Variants

Nominal Size (DN) in mm	Inner diameter in mm	Outer diameter in mm	Bending radius* in mm	Weigth in g/m	Operating pressure in bar	Wall thickness in mm	Tolerance inner & outer diameter in mm
2	2	4	20	9.1	57*	/	± 0.10
2.5	2.5	4	20	7.4	40	0.75	± 0.10
3	3	5	25	12.1	44*	/	± 0.10
4	4	6	25	15.2	38	/	± 0.10
5	5	8	40	29.6	40*	1.5	± 0.10
5.7	5.7	8	40	23.9	32	1.25	± 0.10
6	6	8	40	21.2	25*	/	± 0.10
6	6	10	50	48.6	44*	2.00	± 0.10
7	7	10	50	38.7	31*	1.5	± 0.10
8	8	10	40	27.3	19*	/	± 0.10
9	9	12	60	47.8	25*	1.50	± 0.15
10	10	12	60	33.4	18	/	± 0.15

Delivery Variants

Available in other lengths, other nominal diameters, with customer-specific customer-specific imprint.

Disposal instructions

After use, the product must be disposed of in accordance with the legal regulations applicable in the user's region (in Germany in accordance with the applicable Waste Catalogue Ordinance (AVV)).



Individual consultation

We offer consultation by phone: **+49 209 97077 0**

Product requests via: **https://www.masterflex-slang.nl/**

Headquarters for your sales area

Masterflex SE

Willy-Brandt-Allee 300
45891 Gelsenkirchen
Germany