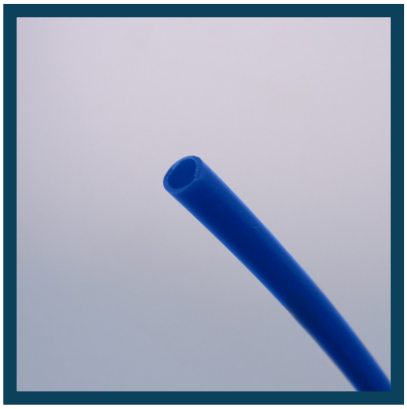
SKUPP®

TUBING



PE Polyethylene
TUBING

PE tubing is commonly used in control and measurement technology, in laboratories, in devices and pig breeding facilities. It is lightweight, has high dynamic strength and an extensive resistance against acids, alkalis and salt solutions.
The material can be recycled in accordance with the EU Directives.



Color displayed: blue

TECHNICAL FEATURES

TOLERANCES
For tubing with an outer diameter up to and including 10 mm, the tolerance is 0,10
For tubing with an outside diameter more than 12 mm, the tolerance is 0,15

TEMPERATURE AND PRESSURE
PE can be used in a temperature range from -10°C to +40°C. Pressure utilisation degree (reference values) in %

Temperature	-10°C to +20°C	+30°C	+40°C
Pressure utilisation	100%	83%	72%

Example: PE 08X06 has a permissible operating pressure at 40°C (8 bar x 72%) = 5.7 bar.

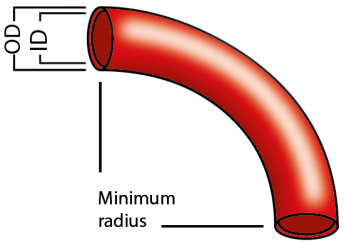
AVAILABLE LENGTHS
PE tubing are available in rolls of 50 meter.
Other lengths may be available upon request.

APPLICATIONS
Pig breeding facilities
Control and measurement technology
Laboratory technology

KEY TO ORDER
MATERIAL — ID MM — COLOR
PE 04 X 02/52
OD MM — LENGTH

AVAILABLE COLORS
MOQ CAN BE REQUIRED*

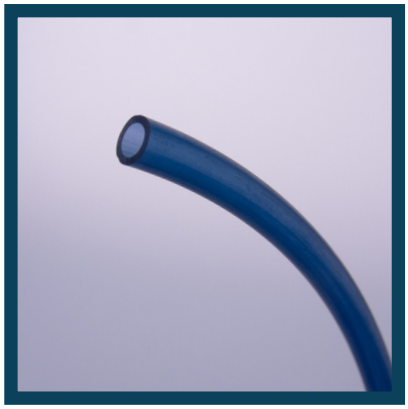
- 0 Natural
- 1 *Black
- 2 *Blue
- 3 *Red
- 4 *Green
- 5 *Yellow



CODE	NOMININAL DIMENSIONS		WALL THICKNESS	OPERATING PRESS. (AT 20°C)	MIN. BENDING RADIUS	WEIGHT
	OD mm	ID mm	mm	bar	mm	gr/m
PE 04X02	4	2	1	20	20	8.7
PE 04X2.7	4	2.7	0.65	13	20	6.3
PE 06X04	6	4	1	13	30	14.5
PE 08X05	8	5	1.5	13	40	28.2
PE 08X06	8	6	1	8	40	20.3
PE 10X06	10	6	2	15	50	46.3
PE 10X07	10	7	1.5	10	50	36.9
PE 10X08	10	8	1	6	60	26.0
PE 12X08	12	8	2	12	60	57.9
PE 12X09	12	9	1.5	9	60	45.6
PE 12X10	12	10	1	5	85	31.9
PE 16X13	16	13	1.5	6	90	63.0

PU Polyether
TUBING

Polyether PU is made of Elastollan 1198A and is hydrolisisproof and resistant against microbes. The tubing is suitable for vacuum applications. PU tubing is translucent and available in different colors. Always respect the maximum working pressure.



Color displayed: blue translucent

TECHNICAL FEATURES

TOLERANCES
See table. If not specified, tolerances are negligible. Please contact your local sales department if exact measurements are required.

AVAILABLE LENGTHS
25, 50 or multiples of 100 meter.

APPLICATIONS
Industrial automation

KEY TO ORDER

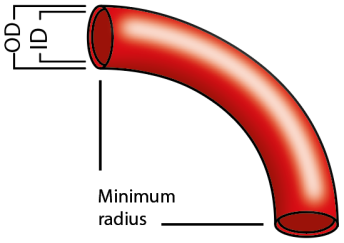
MATERIAL — COLOR*

PU 4/1198 - 50.0

OD MM — LENGTH

AVAILABLE COLORS
MOQ CAN BE REQUIRED*

- .0 Translucent
- .1 * Black translucent
- .2 * Blue translucent
- .3 * Red translucent
- .4 * Green translucent
- .5 * Yellow translucent



CODE	DIMENSIONS		WALL THICKNESS	OPERATING PRESS. (AT 20°C)	MIN. BENDING RADIUS**	WEIGHT
	OD mm	ID mm	mm	Bar	mm	g/m
PU 4/1198	4	2,5	0,75	24	12	8,88
PU 6/1198	6	3,9	1,05 ± 0,10	22	15	18,84
PU 8/1198	8	5,5	1,25 ± 0,10	16	25	30,75
PU 10/1198	10	7	1,5	16	40	46,46
PU 12/1198	12	8	2	24	35	72,88
PU 14/1198	14	10	2	17	55	87,46
PU 16/1198	16	11	2,5	16	55	123

MAXIMUM PRESSURE AT DIFFERENT TEMPERATURES

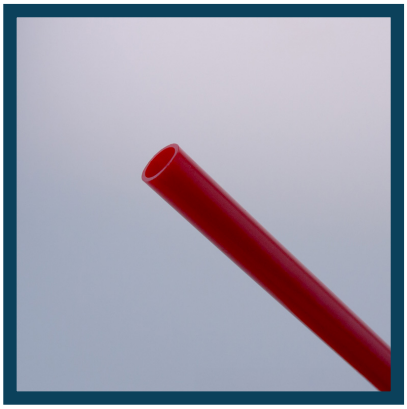
	+20°C	+40°C	+60°C	+80°C
PU 4/1198	24 BAR	17 BAR	12 BAR	10 BAR
PU 6/1198	22 BAR	16 BAR	10 BAR	6 BAR
PU 8/1198	16 BA R	12 BAR	10 BAR	6 BAR
PU 10/1198	16 BAR	12 BAR	10 BAR	6 BAR
PU 12/1198	24 BAR	16 BAR	14 BAR	10 BAR
PU 14/1198	17 BAR	12 BAR	7 BAR	4 BAR
PU 16/1198	16 BAR	14 BAR	10 BAR	6 BAR

PHYSICAL PROPERTIES OF THE MATERIAL

PROPERTY	UNIT	SPECIFICATION	VALUE
100% Elongation	MPA	DIN 53504	15
Density	g/cm3	ISO 1183	1,16
Abrasion	mm3	DIN ISO 4649-A	25
Impact value (Charpy)	KJ/m2	DIN ISO 179	no breakage

PA 12 PHL Polyamide
TUBING

Chemically derived Flexible Polyamide 12. The base material is produced in accordance with DIN 73378/74324 standards, offering exceptional aging resistance, stability under high temperatures, and minimal plasticizer migration.



Color displayed: red

TECHNICAL FEATURES

TOLERANCES
For tubing with an OD up to and including 8 mm, the tolerance is 0,07mm, for OD 10mm - 12 mm the tolerance is 0,10mm and for OD 14 and above, tolance is 0,15mm.

TEMPERATURE AND PRESSURE
PA 12 can be used in a temperature range from -50°C to +100°C. Pressure utilisation degree (reference values) in %

Temperature	+20°C	+40°C	+60°C	+80°C
Pressure utilisation	100%	74%	57%	45%

AVAILABLE LENGTHS
25, 50 or multiples of 100 meter.

APPLICATIONS
Industrial automation
Air braking systems

KEY TO ORDER

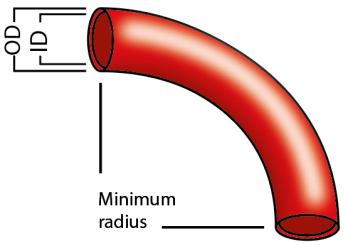
MATERIAL — ID MM — COLOR

PA 04X02-50

OD MM — LENGTH

AVAILABLE COLORS
MOQ CAN BE REQUIRED*

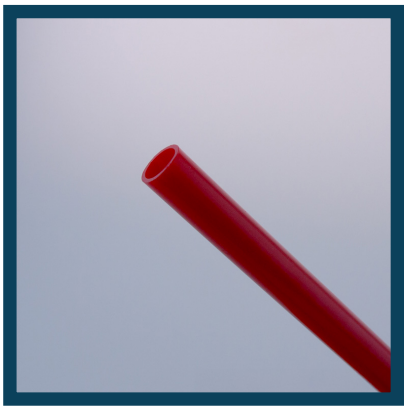
- 0 natural
- 1 *Black
- 2 *Blue
- 3 *Red
- 4 *Green
- 5 *Yellow



CODE	DIMENSIONS		WALL THICKNESS	OPERATING PRESS. (AT 20°C)	BENDING RADIUS	WEIGHT
	OD mm	ID mm	mm	Bar	mm	gr/m
PA 04X02	4	2	1	44	20	9,51
PA 04X2.7	4	2,7	0,65	26	25	6,91
PA 06X04	6	4	1	27	30	16,01
PA 08X06	8	6	1	19	40	22,42
PA 10X08	10	8	1	15	60	28,83
PA 12X09	12	9	1,5	19	60	50,44
PA 12X10	12	10	1	12	85	34,89
*PA 14X11	14	11	1,5	16	85	59,46
*PA 15X12	15	12	1,5	15	90	64,86
*PA 16X12	16	12	2	19	95	89,68
*PA 18X14	18	14	2	17	100	102,49

PA 11 PHL Polyamide
TUBING

SKUPP's PA11 tubing is known for it's high mechanical strength, making it pretty resistant to impact, fatigue, traction, and bending and performance in both hot and cold environments. PA 11 has good resistance to aging, chemicals, oils, and hydrocarbons. Thanks to its low water absorption and smooth surface finish, it maintains long-term performance and durability even in demanding industrial conditions.



Color displayed: red

TECHNICAL FEATURES

TOLERANCES
For tubing with an outer diameter of 4 mm, the tolerance is max. 0,10 mm.For tubing with an outer diameter from 6 to 14 mm, the tolerance is max. 0,20 mm.

TEMPERATURE AND PRESSURE
PA 11 can be used in a temperature range from -40°C to +80°C. Pressure utilisation degree (reference values) in %

Temperature	+20°C	+40°C	+60°C	+80°C
Pressure utilisation	100%	80%	60%	50%

AVAILABLE LENGTHS
Only available as a roll of 100 meter.

APPLICATIONS
Industrial automation
Air braking systems

KEY TO ORDER

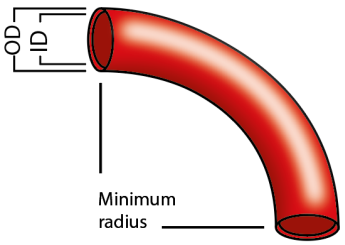
MATERIAL — ID MM — COLOR

PAR 04X02-50.0

OD MM — LENGTH

AVAILABLE COLORS
MOQ CAN BE REQUIRED*

- .0 White
- .1 * Black
- .2 * Blue
- .3 * Red
- .4 * Green
- .5 * Yellow

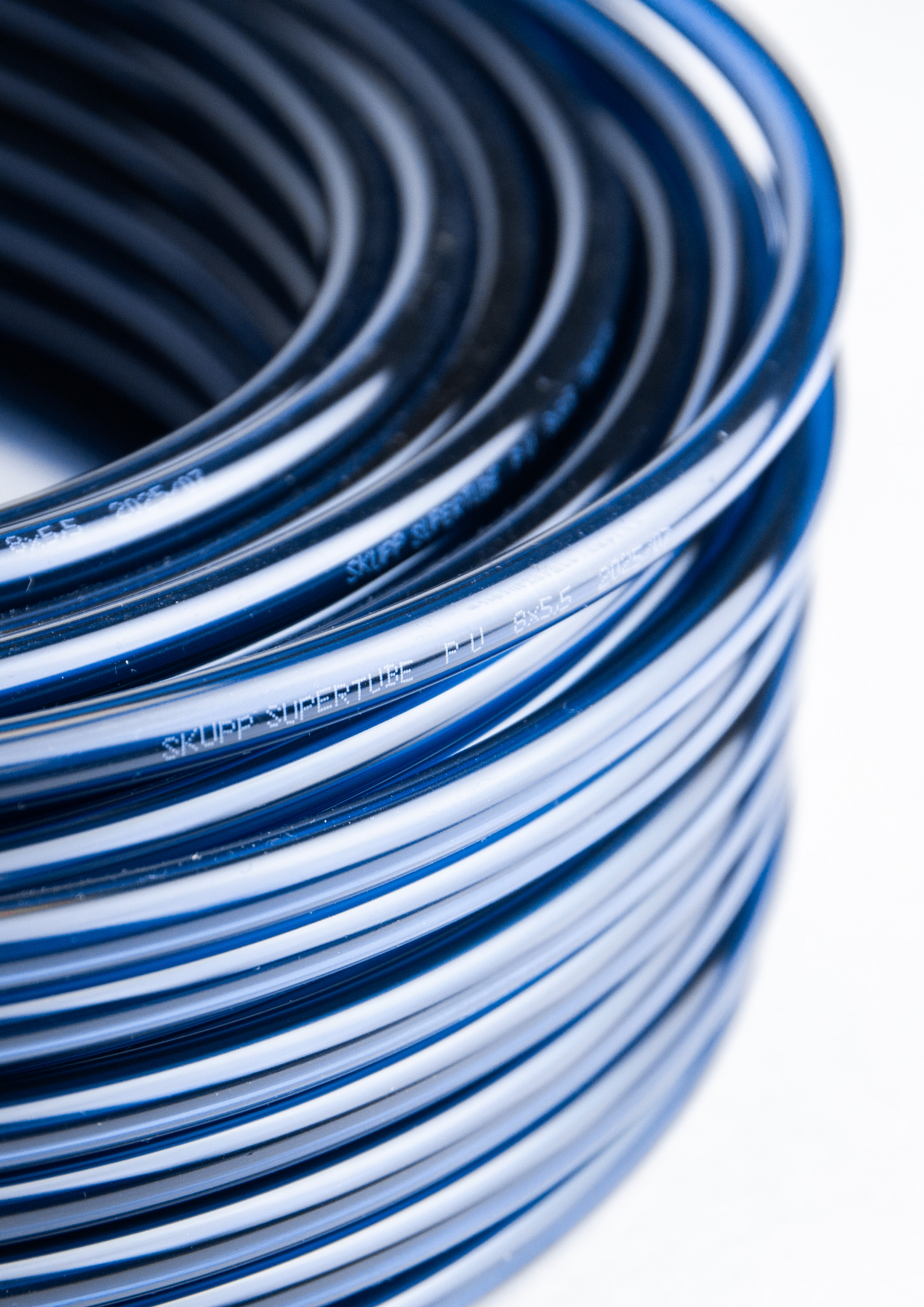


CODE	DIMENSIONS		WALL THICKNESS	OPERATING PRESS. (AT 23°C)	BENDING RADIUS
	OD mm	ID mm	mm	Bar	mm
PAR 04X25	4	2,5	0,75	35	15
PAR 06X04	6	4	1	28	35
PAR 08X06	8	6	1	20	40
PAR 10X08	10	8	1	15	60
PAR 12X10	12	10	1	13	80
PAR 14X12	14	12	1	10	90

PHYSICAL PROPERTIES OF THE MATERIAL

PROPERTY	METHOD	VALUE
Density	ISO 1183	1,05 g/cm3
Melting point	ISO 11357	175-185°C
Water absorption	ISO 62 - a 23°C 50% r.h.	< 1%
Elongation at break	ISO 527	300%
Impact force	ISO 179 (Test type 1)	4 $K.J.m^{-2}$
Abrasion resistance	ISO 9352	25 mg
Flame resistance	ASTM D635	320 s > 100 mm
Surface resistivity	CEI 93	5.10^{11} Ωm

DOCUMENTATION IS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE


SKUPP SUPERTUBE PU 8x5,5