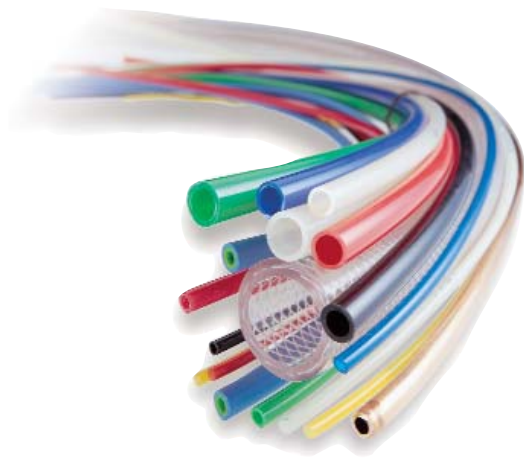


NYLON AND POLYURETHANE TUBING

Ø 4 to 16 mm O/D



Available in a range of colours for ease of identification

In addition to general industrial applications Nylon is suitable for use on air braking systems of commercial vehicles and conforms to DIN 74324. (Applicable sizes; 6, 8, 10, 12, 16mm O/D)

25 metre lengths supplied in cartons providing good protection and easy storage

Polyurethane offers excellent mechanical properties and industry leading flexibility

TECHNICAL DATA

Medium:

Compressed air. Consult our Technical Service for use with other fluids

Operating pressure:

Refer to specific tubing type on the following pages

Ambient temperature:

Refer to specific tubing type on the following pages

MATERIALS

Nylon tube: nylon (polyamide) type PA12 fully plasticised and light stabilised. Conforms to material standard of DIN 74324

Polyurethane tube: is light stabilised and has a hardness of Shore D 52

Maximum working pressures and bend radii

O/D mm		4	5	6	8	10	12	14	16
Max. pressure (bar)* at -40°C to +20°C	Nylon	31	33	27	19	19	19	16	19
	Polyurethane	10	11	9	9	9	9	-	-
Min. bend radius mm	Nylon	25	25	30	40	60	60	80	95
	Polyurethane	6	7	9	16	17	25	-	-

*Multiply by factors in table below for use at higher temperatures.

Working pressure/temperature conversion factors

Working temperature	Factor (Nylon)	Factor (Polyurethane)
-40°C to +20°C	1,00	1,00
+30°C	0,83	0,85
+40°C	0,75	0,70
+50°C	0,64	0,60
+60°C	0,57	0,50
+80°C	0,47	

To calculate working pressures at various temperatures, multiply working pressure at -40° to +20°C by factor given in table
Maximum continuous working temperature: Nylon +80° Polyurethane +60°C

Tube sizes (metric)

O/D mm	4	5	6	8	10	12	14	16
Nylon	•	•	•	•	•	•	•	•
Polyurethane	•	•	•	•	•	•		

For further information



www.norgren.com/info/en7-084

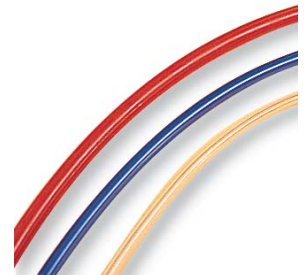


Nylon Tube

O/D I/D Colour	Length (m)	4/2,5*	5/3*	6/4	8/6	10/7,5	12/9	14/11*	16/12
Natural	25	PA2-0004025C	PA2-0005025C	PA2-0006025C	PA2-0008025C	PA2-0010025C	PA2-0012025C	PA2-0014025C	PA2-0016025C
Natural	100	PA2-0004100		PA2-0006100	PA2-0008100	PA2-0010100	PA2-0012100		
Red	25	PA2-0104025C	PA2-0105025C	PA2-0106025C	PA2-0108025C	PA2-0110025C	PA2-0112025C	PA2-0114025C	PA2-0116025C
Red	100	PA2-0104100		PA2-0106100	PA2-0108100	PA2-0110100	PA2-0112100		
Green	25	PA2-0204025C	PA2-0205025C	PA2-0206025C	PA2-0208025C	PA2-0210025C	PA2-0212025C	PA2-0214025C	PA2-0216025C
Green	100	PA2-0204100		PA2-0206100	PA2-0208100	PA2-0210100	PA2-0212100		
Yellow	25	PA2-0304025C	PA2-0305025C	PA2-0306025C	PA2-0308025C	PA2-0310025C	PA2-0312025C	PA2-0314025C	PA2-0316025C
Yellow	100	PA2-0304100		PA2-0306100	PA2-0308100	PA2-0310100	PA2-0312100		
Blue	25	PA2-0504025C	PA2-0505025C	PA2-0506025C	PA2-0508025C	PA2-0510025C	PA2-0512025C	PA2-0514025C	PA2-0516025C
Blue	100	PA2-0504100		PA2-0506100	PA2-0508100	PA2-0510100	PA2-0512100		
Black	25	PA2-0704025C	PA2-0705025C	PA2-0706025C	PA2-0708025C	PA2-0710025C	PA2-0712025C	PA2-0714025C	PA2-0716025C
Black	100	PA2-0704100		PA2-0706100	PA2-0708100	PA2-0710100	PA2-0712100		
Silver	25	PA2-0904025C	PA2-0905025C	PA2-0906025C	PA2-0908025C	PA2-0910025C	PA2-0912025C	PA2-0914025C	PA2-0916025C
Silver	100	PA2-0904100		PA2-0906100	PA2-0908100	PA2-0910100	PA2-0912100		

Note: "C" at last digit in part number indicates packed in a carton/box

*Tube size does not conform to DIN 74324



Polyurethane tube

O/D I/D Colour	Length (m)	4/2.5	5/3	6/4	8/5.5	10/7	12/8
Natural	25	PU2-0004025C	PU2-0005025C	PU2-0006025C	PU2-0008025C	PU2-0010025C	PU2-0012025C
Natural	100	PU2-0004100		PU2-0006100	PU2-0008100	PU2-0010100	PU2-0012100
Red	25	PU2-0104025C	PU2-0105025C	PU2-0106025C	PU2-0108025C	PU2-0110025C	PU2-0112025C
Red	100	PU2-0104100		PU2-0106100	PU2-0108100	PU2-0110100	PU2-0112100
Green	25	PU2-0204025C	PU2-0205025C	PU2-0206025C	PU2-0208025C	PU2-0210025C	PU2-0212025C
Green	100	PU2-0204100		PU2-0206100	PU2-0208100	PU2-0210100	PU2-0212100
Yellow	25	PU2-0304025C	PU2-0305025C	PU2-0306025C	PU2-0308025C	PU2-0310025C	PU2-0312025C
Yellow	100	PU2-0304100		PU2-0306100	PU2-0308100	PU2-0310100	PU2-0312100
Blue	25	PU2-0504025C	PU2-0505025C	PU2-0506025C	PU2-0508025C	PU2-0510025C	PU2-0512025C
Blue	100	PU2-0504100		PU2-0506100	PU2-0508100	PU2-0510100	PU2-0512100
Black	25	PU2-0704025C	PU2-0705025C	PU2-0706025C	PU2-0708025C	PU2-0710025C	PU2-0712025C
Black	100	PU2-0704100		PU2-0706100	PU2-0708100	PU2-0710100	PU2-0712100
Silver	25	PU2-0904025C		PU2-0906025C	PU2-0908025C	PU2-0910025C	PU2-0912025C
Silver	100	PU2-0904100		PU2-0906100	PU2-0908100	PU2-0910100	PU2-0912100

Note - "C" at last digit in part number indicates packed in a carton/box

NYLON AND POLYURETHANE TUBING

Ø 4 to 28 mm O/D

Ø 1/8" to 1 1/8" O/D



PA Pneuflex spring coils Weldtube

O/D Tube	Adaptor (thread)	Length of closed spiral (mm)	Working length (mm)	Operating pressure at +20°C (bar)	MODELS
6	R1/4	200	3000	31	PA330600328
6	R1/4	250	3750	31	PA330600428
6	R1/4	333	5000	31	PA330600528
6	R1/4	500	7500	31	PA330600828
6	R1/4	1000	15000	31	PA330601528
8	R1/4	200	3000	22	PA330800328
8	R1/4	250	3750	22	PA330800428
8	R1/4	333	5000	22	PA330800528
8	R1/4	500	7500	22	PA330800828
8	R1/4	1000	15000	22	PA330801528
10	R1/4	210	3000	17	PA331000328
10	R1/4	262	3750	17	PA331000428
10	R1/4	350	5000	17	PA331000528
10	R1/4	525	7500	17	PA331000828
10	R1/4	1000	15000	17	PA331001528
12	R3/8	200	3000	12	PA331200338
12	R3/8	250	3750	12	PA331200438
12	R3/8	333	5000	12	PA331200538
12	R3/8	500	7500	12	PA331200838
12	R3/8	1000	15000	12	PA331201538
*15	G1/2A	166	3000	17	PA331500348
*15	G1/2A	207	3750	17	PA331500448
*15	G1/2A	277	5000	17	PA331500548
*15	G1/2A	415	7500	17	PA331500848

Mounting method: swivel fittings with male threads at both ends.
Coils are coloured yellow. Other colours can be supplied to order.
*All adaptors thread are BSPT except 1/2 BSPP male thread.



PU Pneuflex spring coils

O/D Tube	Adaptor (thread)	Length of closed spiral (mm)	Working length (mm)	Operating pressure at +20°C (bar)	MODELS
6 x 4	R1/8	165	2000	10	PU310600218
6 x 4	R1/8	350	4000	10	PU310600418
6 x 4	R1/8	545	6000	10	PU310600618
6 x 4	R1/8	720	8000	10	PU310600818
8 x 5	R1/4	180	2000	10	PU310800228
8 x 5	R1/4	400	4000	10	PU310800428
8 x 5	R1/4	630	6000	10	PU310800628
8 x 5	R1/4	800	8000	10	PU310800828
10 x 6,5	R1/4	185	2000	9	PU311000228
10 x 6,5	R1/4	400	4000	9	PU311000428
10 x 6,5	R1/4	635	6000	9	PU311000628
10 x 6,5	R1/4	800	8000	9	PU311000828
12 x 8	R3/8	180	2000	9	PU311200238
12 x 8	R3/8	390	4000	9	PU311200438
12 x 8	R3/8	590	6000	9	PU311200638
12 x 8	R3/8	780	8000	9	PU311200838

WELD SPATTER RESISTANT TUBING

Ø 4 to 14 mm



Design for applications within welding environment

Halogen free, self erasing and flame retardant special tubing out of Polyurethane conforming UL94 V2 to V0

Suitable for the use with Norgren Pneufit 10 series push-in fittings

Small bending radius, high flexibility

Extended range of applications due to high chemical durability

Free of paint sticking hindering material (like Silicon)

Suitable for drag chain applications

TECHNICAL DATA

Medium:

Compressed air, water

Operating pressure:

See following page, suitable for vacuum

Operating temperature:

-20°C to 80°C max.

Colours available:

Black, blue, red, green

Standard length:

50 m

MATERIALS

Polyurethane

General information

Outer Ø (mm)	Wall thickness (mm)	Inner Ø (mm)	Operating pressure at 23°C max.* (bar)	Burst pressure at 23°C (bar)	Min. bend radius (mm)
4 ± 0,1	1 ± 0,1	2	25	75	5
6 ± 0,15	1,5 ± 0,15	3	25	75	7
8 ± 0,15	2 ± 0,15	4	25	75	10
10 ± 0,15	2 ± 0,15	6	15	50	15
12 ± 0,15	2 ± 0,15	8	12	40	20
14 ± 0,15	2 ± 0,15	10	12	40	30

* Multiply by factors in table below for use at higher temperatures.

Temperature conversion factor

Working temperature	Factor
+30°C	0,75
+40°C	0,67
+50°C	0,58
+60°C	0,54
+70°C	0,52
+80°C	0,50

Ordering information

Outer Ø (mm)	MODELS			
	Tube colour: Black	Tube colour: Blue	Tube colour: Red	Tube colour: Green
4	NORWELD0704050	NORWELD0504050	NORWELD0104050	NORWELD0204050
6	NORWELD0706050	NORWELD0506050	NORWELD0106050	NORWELD0206050
8	NORWELD0708050	NORWELD0508050	NORWELD0108050	NORWELD0208050
10	NORWELD0710050	NORWELD0510050	NORWELD0110050	NORWELD0210050
12	NORWELD0712050	NORWELD0512050	NORWELD0112050	NORWELD0212050
14	NORWELD0714050	NORWELD0514050	NORWELD0114050	NORWELD0214050

For further information



www.norgren.com/info/en7-087

TUBE ACCESSORIES



Nylon tube ties

Type	MODELS
Mounting cradle	34 0380 21
Confined space	34 0380 22
For releasable ties	34 0380 23
For lockable ties	34 0380 24
Cable tie mounting plate for up to 3 bundles	34 0380 25



Nylon tube ties

Type	Maximum bundle Ø mm	MODELS
Releasable	50	34 0380 11
	81	34 0380 12
Lockable	35	34 0380 01
	50	34 0380 02
	75	34 0380 03



Tubing channels

O/D Tube	No. of channels	MODELS
6	10	100HA0600
8	10	100HA0800
12	6	100H61200



Tube cutter

Type	MODELS
Cutter	M/3314
Replacement blade	39 0120 10*
Replacement blade	39 0120 61**

*Pack of 10

** 1-off

For use on nylon and polyurethane tubing 4 to 16 mm

Tubing ties

Operating temperature: -50°C to +85°C

Minimum tensile strength: 13,61 kg - locking type
27,21 kg - releasable type



Tubing clips - single sided

mm & inch O/D tubes Type	No. of tubes	4	5 & 3/16	6 & 1/4	8 & 5/16	10 & 3/8	12 & 1/2	16 & 5/8	3/4	22	28
Single sided	1	34 0218 02	34 0218 03	34 0218 04	34 0218 05	34 0218 06	34 0218 07	34 0215 08	34 0215 09	36 0001 10	34 0215 11
	2	34 0219 02	34 0219 03	34 0219 04	34 0219 05	34 0219 06	-	-	-	-	-
	3	34 0220 02	34 0220 03	34 0220 04	34 0220 05	34 0220 06	-	-	-	-	-
Double sided	2	-	-	-	-	-	-	34 0216 08	34 0216 09	-	34 0216 11

Self-tapping screw, 48003424, is available for clips on tubes up to and including 12 mm O/D. For larger sizes use a 6 mm bolt.

For further information



www.norgren.com/info/en7-088