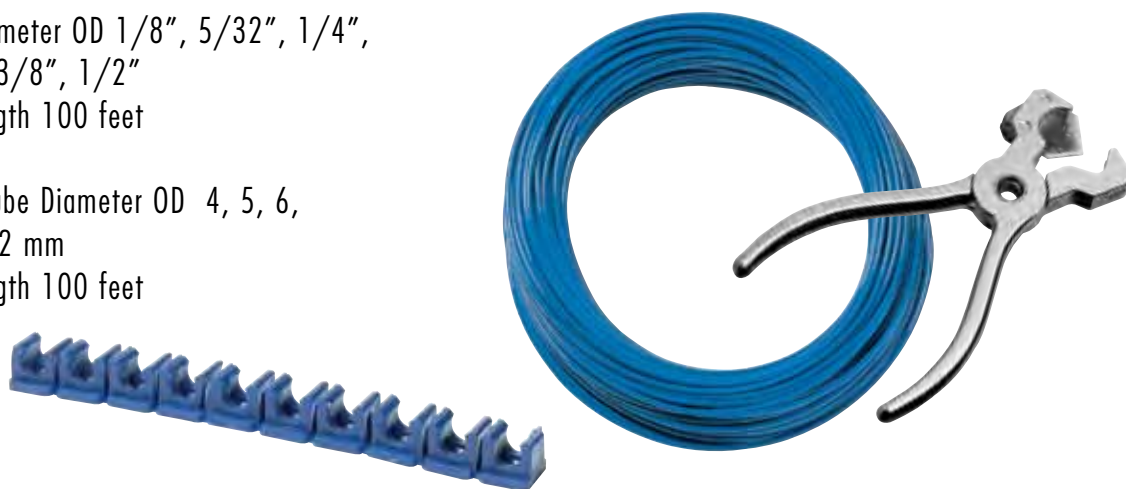


Tubing and Accessories

Nylon 11 Tubing (Inch and Metric O.D.)

Tube Diameter OD 1/8", 5/32", 1/4",
5/16", 3/8", 1/2"
Reel Length 100 feet

Metric Tube Diameter OD 4, 5, 6,
8, 10, 12 mm
Reel Length 100 feet



TECHNICAL SPECIFICATIONS (INCH)

Material	Nylon 11 (Polyamide)
Melting point	354° ± 4° (flame retardant rating UL-94 HB)
Water absorption (ASTM D-50)	1.1%
Operating pressure	From 0 - 250 psi (See Working Pressure Table)
Bursting pressure	1000 psi
Hardness	78 Rockwell R
Tensile strength at break (D-638)	9500 psi
Elongation at break (D-638)	360 psi
Flexural modulus (D-790)	47,000 psi
Tube diameter	1/8", 5/32", 1/4", 5/16", 3/8", 1/2"
Fluid	Compressed air [for other types of fluid please contact our engineers]
Operating temperature	-60°F - 180°F * (See Working Pressure Table). Meets UL-94 HB testing requirements.

TECHNICAL SPECIFICATIONS (METRIC)

Material	Nylon 11 (Polyamide)
Melting point	354° ± 4° (flame retardant rating UL-94 HB)
Water absorption (ASTM D-570)	1.1%
Operating pressure	From 0 - 250 psi (See working pressure table)
Bursting pressure	1000 psi
Hardness	78 Rockwell R
Tensile strength at break (D-638)	9500 psi
Elongation at break (D-638)	360 psi
Flexural modulus (D-790)	47,000 psi
Tube diameter OD	4, 5, 6, 8, 10, 12 mm
Fluid	Compressed air [for other types of fluid please contact our engineers]
Operating temperature	-60°F - 180°F Meets UL-94 HB testing requirements.

TUBE CODING

1411 - 04 - BL

TYPE
1411 = Nylon 11

TUBE DIAMETER OD

- 02 = 1/8"
- 04 = 1/4"**
- 05 = 5/16"
- 06 = 3/8"
- 08 = 1/2"
- 53 = 5/32"
- 4mm = 4mm
- 5mm = 5mm
- 6mm = 6mm
- 8mm = 8mm
- 10mm = 10mm
- 12mm = 12mm

COLOR
BL = Blue
 BK = Black
 NT = Natural
 OR = Orange
 YL = Yellow
 RD = Red
 GR = Green

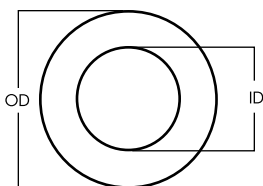
WORKING PRESSURE

INCH

OD/ID (IN)	Tolerances for OD (IN)	Minimum Bend Radius (IN)	Working Pressure (PSI)			
			@75°F	@100°F	@125°F	@150°F
1/8 x .093	+.002 - .003	.375	225	171	148	125
5/32 x .106	+.002 - .003	.500	275	209	181	160
1/4 x .180	+.002 - .004	.875	250	190	165	137
5/16 x .232	+.002 - .004	1.250	220	170	145	121
3/8 x .275	+.002 - .004	1.500	220	170	145	128
1/2 x .375	+.002 - .004	2.000	200	152	133	125

METRIC

OD/ID (MM)	Tolerances for OD (MM)	Minimum Bend Radius (IN)	Working Pressure (PSI)			
			@75°F	@100°F	@125°F	@150°F
4 x 2.7	+.05, -.1	.75	275	209	181	151
5 x 3	+.05, -.1	1.00	375	285	248	206
6 x 4	+.05, -.1	1.50	280	213	185	154
8 x 6	+.05, -.1	2.25	210	160	139	115
10 x 8	+.05, -.1	3.00	180	137	119	99
12 x 10	+.05, -.1	3.50	165	125	109	91



CHEMICAL RESISTANCE

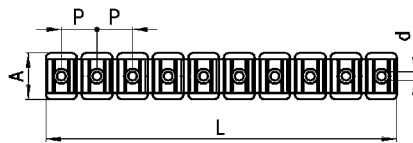
Acids	Good to ph-5
Alkalies	Good to ph-11
Hydrocarbons - aromatic	Excellent
Hydrocarbons - aliphatic	Excellent
Ketones	Excellent
Ethers	Excellent
Esters	Excellent
Alcohols	Good
Salts, neutral	Excellent
Freons	Excellent
Continuous sunlight	Fair
Zinc chloride	Good

Nylon 11 Tubing



DIMENSIONS — INCH				DIMENSIONS — METRIC			
Mod.	OD	ID	Reel Length Feet	Mod.	OD	ID	Reel Length Feet
1411-02	1/8	.093	100	1411-4mm	4	2.7	100
1411-53	5/32	.106	100	1411-5mm	5	3	100
1411-04	1/4	.180	100	1411-6mm	6	4	100
1411-05	5/16	.232	100	1411-8mm	8	6	100
1411-06	3/8	.275	100	1411-10mm	10	8	100
1411-08	1/2	.375	100	1411-12mm	12	10	100

Tube Clamp



DIMENSIONS					
Mod.	Tube ϕ	L	A	d	P
MPL-4 4mm or	5/32	115	19	2.5	11.5
MPL-6 6mm or	1/4	115	19	2.5	11.5
MPL-8 8mm or	5/16	144	19	3.5	14.5
MPL-10 10mm or	3/8	172	19	4.5	17.5

Plastic Tube Cutter

How To Use: Insert plastic tube to desired length, allow tube cutter to close, then apply pressure until tube snaps off.



DIMENSIONS	
Mod.	
PNZ-12	Cutter
PNZ-12 Blades	Replacement Blades
PNZ-25	Large Cutter (1/2" and up)
PNZ-25 Blades	Replacement Blades