

# Nylon

## Specifications

**Temperature Range**  
-60°F to +200°F

**Vacuum Rating**  
To 28" Hg

**Diameter Tolerance**  
<1/2"± .004"  
>1/2"± .005"

**Hardness**  
78 Rockwell R

**Tube Markings**  
FW Specifications

**Working Pressure**  
4:1 Safety Factor

**UV Stabilized**  
Yes

**Resin Compliance**  
Meets UL94HB  
Testing Requirements

**Suggested Fittings**  
Push-In, Compression

**N**ylon tubing (also referred to as polyamide) can withstand higher temperatures, making it an ideal choice for a wide variety of applications. When compared to other Nylon resins, Freelin-Wade's tubing allows for a lighter weight wall, greater flexibility and smaller bend radius. It is also more corrosion resistant than other types of Nylon tubing because of its ability to absorb less moisture. Its heat and UV stabilization makes it resistant to stress-cracking, so it works well in sunny areas. It is chemical resistant which makes it a good choice in areas where exposure to certain chemicals is a possibility.

Freelin-Wade manufactures nylon tubing from a variety of resins and there are any number of variations possible. We are happy to match any color you need, configure a coil, bond two tubes, print and cut to length. Freelin-Wade can make a nylon tube to meet your needs.

## Features

- Strong, lightweight and flexible.
- Dimensionally stable.
- Heat and light stabilized.
- Resistant to corrosion and stress-cracking.



## Nylon Colors

**A**ny of our nylon tubing products listed on page 15 are available in the colors shown below. If not shown as a standard item, please allow three weeks to fulfill your order.



# Nylon

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-247- ___ 100' Bag 1A-247- ___ 2500' Reel		1/8"	.079"	.023"	01 10	420 PSI	250 PSI	.35	3/8"	PI, C
1J-200- ___ 100' Bag 1C-200- ___ 500' Reel 1B-200- ___ 1000' Reel 1A-200- ___ 2500' Reel		1/8"	.093"	.016"	01 05 06 07 08 10	270 PSI	160 PSI	.25	1/2"	PI, C
1J-201- ___ 100' Bag 1C-201- ___ 500' Reel 1B-201- ___ 1000' Reel 1A-201- ___ 2500' Reel		5/32"	.106"	.025"	01 03 05 06 07 08 09 10 12	350 PSI	210 PSI	.51	1/2"	PI, C
1J-202- ___ 100' Bag 1B-202- ___ 500' Reel 1A-202- ___ 2000' Reel		3/16"	.138"	.025"	01 05 06 07 08 10	260 PSI	160 PSI	.55	5/8"	PI, C
1J-214- ___ 100' Bag 1A-214- ___ 1000' Reel		1/4"	.125"	.062"	01 10	590 PSI	350 PSI	1.77	3/8"	PI, C
1J-203- ___ 100' Bag 1B-203- ___ 500' Reel 1A-203- ___ 1000' Reel		1/4"	.170"	.040"	01 03 05 06 07 08 09 10	330 PSI	200 PSI	1.27	3/4"	PI, C
1J-204- ___ 100' Bag 1B-204- ___ 500' Reel 1A-204- ___ 1000' Reel		1/4"	.180"	.035"	01 05 06 07 08 09 10	290 PSI	170 PSI	1.13	1"	PI, C
1J-205- ___ 100' Bag 1A-205- ___ 500' Reel		5/16"	.232"	.040"	01 05 06 07 08 10	240 PSI	140 PSI	1.64	1-1/2"	PI, C
1J-206- ___ 100' Bag 1A-206- ___ 500' Reel		3/8"	.275"	.050"	01 05 06 07 08 10	250 PSI	150 PSI	2.45	1-1/2"	PI, C
1J-207- ___ 100' Bag 1A-207- ___ 250' Reel 1AA-207- ___ 500' Reel		1/2"	.375"	.062"	01 05 06 07 08 10	240 PSI	140 PSI	4.12	2-1/4"	PI, C
1J-213- ___ 50' Bag 1AA-213- ___ 250' Reel		5/8"	1/2"	.062"	01 10	170 PSI	100 PSI	5.30	3-1/4"	PI, C

## Metric Sizes

Part Number & Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-246- ___ 100' Bag 1C-246- ___ 500' Reel 1B-246- ___ 1000' Reel 1A-246- ___ 2500' Reel		3	1.8	.6	01 10	410 PSI	240 PSI	.33	6.3 mm	PI, C
1J-201- ___ 100' Bag 1C-201- ___ 500' Reel 1B-201- ___ 1000' Reel 1A-201- ___ 2500' Reel		4	2.7	.65	01 03 05 06 07 08 09 10 12	350 PSI	210 PSI	.51	12.7 mm	PI, C
1J-241- ___ 100' Bag 1A-241- ___ 1000' Reel		5	3	1	01 05 06 07 08 10	420 PSI	250 PSI	.94	9.5 mm	PI, C
1J-242- ___ 100' Bag 1B-242- ___ 500' Reel 1A-242- ___ 1000' Reel		6	4	1	01 05 06 07 08 10	340 PSI	200 PSI	1.17	17 mm	PI, C
1J-243- ___ 100' Bag 1A-243- ___ 500' Reel		8	6	1	01 05 06 07 08 10	250 PSI	150 PSI	1.64	38 mm	PI, C
1J-244- ___ 100' Bag 1A-244- ___ 500' Reel		10	8	1	01 03 10	190 PSI	110 PSI	2.11	51 mm	PI, C
1J-245- ___ 100' Bag 1A-245- ___ 250' Reel 1AA-245- ___ 500' Reel		12	10	1	01 10	150 PSI	90 PSI	2.55	76 mm	PI, C
1AA-248- ___ 250' Reel		14	11	1	01 10	215 PSI	137 PSI	4	83 mm	PI, C

Variations Available:

Coiling • Colors • Cutting • Bonding • Printing • Packaging • Sizes

USA & International: 503-434-5561

US Toll Free: 888-373-9233

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# Nylon: High Pressure, D.O.T., & Super Soft

## Specifications

**Temperature Range**  
 HP: -60°F to +200°F  
 SS: -40°F to +180°F  
 DOT: -60°F to +200°F

**Vacuum Rating**  
 All: To 28" Hg.

**Diameter Tolerances**  
 HP: < OD .5": ±.003"  
 > OD .5": ±.005"  
 SS: +.002"/-.004"  
 DOT: 1/8" - 1/4": ±.003"  
 5/16": ±.004"

**Hardness**  
 HP: 108 Rockwell R  
 SS: 57 Shore D  
 DOT: 78 Rockwell R

**Tube Markings**  
 HP & SS: FW Specs  
 DOT: DOT Specs

**Working Pressure**  
 4:1 Safety Factor

**UV Stabilized**  
 All: Yes

**Resin Compliance**  
 Meets UL94HB Testing Requirements

**Suggested Fittings**  
 Push-In, Compression

## High Pressure Nylon

Freelin-Wade's High Pressure Nylon tubing is made from a semi-rigid compound that has outstanding tensile strength and chemical resistance, making it the ideal choice for chemical and oil processing lines, tool lubricating systems and other applications that require a high quality Nylon material with much higher burst ratings.



High Pressure Nylon

Freelin-Wade's Super Soft Nylon 11 tubing is formulated with a special compound to significantly increase flexibility while retaining the outstanding qualities of our standard Nylon tubing. This advantage makes our Super Soft Nylon 11 the ideal choice where media and environmental conditions make polyurethane impractical.

- More flexible than standard Nylon tubing
- Heat and light stabilized.



D.O.T. Nylon

## D.O.T. Nylon

D.O.T. tubing is made using our standard Nylon. Type "A" Air Brake tubing is ideal for use on vehicles for instrumentation and pneumatic accessories connected to the air brake system. Type "A" Air Brake tubing is non-reinforced. D.O.T. tubing is available on easy-to-dispense reels. A variety of colors are available. It is heat and light stabilized.

Part Number & Color Code	Packaging Unit Size	OD	Wall	Standard Colors	Burst Pressure 75°F/25°C	lbs./100'	Bend Radius	Fitting
1J-220- ____	100' Bag	1/8"	.023	01 05 07 08 09	1000 PSI	.34	3/8"	PI, C
1C-220- ____	500' Reel							
1B-220- ____	1000' Reel							
1A-220- ____	2000' Reel							
1J-221- ____	100' Reel	5/32"	.032	01 05 06 07 08 09	1200 PSI	.57	1/2"	PI, C
1C-221- ____	500' Reel							
1B-221- ____	1000' Reel							
1A-221- ____	2000' Reel							
1J-222- ____	100' Bag	3/16"	.036	01 05 06 07 08 09	1200 PSI	.77	3/4"	PI, C
1B-222- ____	500' Reel							
1A-222- ____	2000' Reel							
1J-223- ____	100' Bag	1/4"	.040	01 05 06 07 08 09	1200 PSI	1.21	1"	PI, C
1B-223- ____	500' Reel							
1A-223- ____	1000' Reel							
1J-225- ____	100' Bag	5/16"	.040	01 05 06 07 08 09	1000 PSI	1.57	1-1/4"	PI, C
1A-225- ____	500' Reel							

Variations Available:

Coiling • Colors • Cutting • Bonding • Printing • Packaging • Sizes

## Nylon – High Pressure

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						75°F/25°C	150°F/65°C			
1J-280- ___ 100' Bag	100' Bag									
1B-280- ___ 500' Reel	500' Reel	1/8"	.073"	.026"	10		800 PSI	.39	5/16"	PI, C
1A-280- ___ 2500' Reel	2500' Reel									
1J-281- ___ 100' Bag	100' Bag									
1B-281- ___ 500' Reel	500' Reel	3/16"	.109"	.039"	10		800 PSI	.88	7/16"	PI, C
1A-281- ___ 2000' Reel	2000' Reel									
1J-282- ___ 100' Bag	100' Bag									
1B-282- ___ 500' Reel	500' Reel	1/4"	.150"	.050"	01 10		800 PSI	1.51	9/16"	PI, C
1A-282- ___ 1000' Reel	1000' Reel									
1J-283- ___ 100' Bag	100' Bag									
1A-283- ___ 500' Reel	500' Reel	3/8"	.225"	.075"	01 10		800 PSI	3.39	1"	PI, C
1A-284- ___ 250' Reel	250' Reel									
1AA-284- ___ 500' Reel	500' Reel	1/2"	.350"	.075"	10		530 PSI	4.81	2"	PI, C

Variations Available:

Coiling • Colors • Cutting • Printing • Packaging • Sizes

Super Soft Nylon

## Nylon 11 - Super Soft

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting	
						75°F/25°C	150°F/65°C				
1J-260- ___ 100' Bag	100' Bag										
1C-260- ___ 500' Reel	500' Reel	1/8"	.093"	.016"	01 10		200 PSI	120 PSI	.25	9/16"	PI, C
1B-260- ___ 1000' Reel	1000' Reel										
1A-260- ___ 2500' Reel	2500' Reel										
1J-261- ___ 100' Bag	100' Bag										
1C-261- ___ 500' Reel	500' Reel	5/32"	.106"	.025"	01 10		220 PSI	130 PSI	.45	9/16"	PI, C
1B-261- ___ 1000' Reel	1000' Reel										
1A-261- ___ 2500' Reel	2500' Reel										
1J-264- ___ 100' Bag	100' Bag										
1B-264- ___ 500' Reel	500' Reel	1/4"	.180"	.035"	01 10		180 PSI	110 PSI	1.04	1"	PI, C
1A-264- ___ 1000' Reel	1000' Reel										
1J-265- ___ 100' Bag	100' Bag										
1A-265- ___ 500' Reel	500' Reel	5/16"	.232"	.040"	01 10		170 PSI	100 PSI	1.52	1-1/4"	PI, C
1J-266- ___ 100' Bag	100' Bag										
1A-266- ___ 500' Reel	500' Reel	3/8"	.275"	.050"	01 10		160 PSI	90 PSI	2.26	1-5/8"	PI, C
1J-267- ___ 100' Bag	100' Bag										
1AA-267- ___ 500' Reel	500' Reel	1/2"	3/8"	.062"	01 10		140 PSI	80 PSI	3.80	2-1/2"	PI, C

Metric Sizes

Part Number & Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting	
						75°F/25°C	150°F/65°C				
1J-271- ___ 100' Bag	100' Bag										
1B-271- ___ 500' Reel	500' Reel	5	3	1	01 10		310 PSI	180 PSI	.95	12.7	PI, C
1A-271- ___ 1000' Reel	1000' Reel										
1J-272- ___ 100' Bag	100' Bag										
1B-272- ___ 500' Reel	500' Reel	6	4	1	01 10		240 PSI	140 PSI	1.10	19.0	PI, C
1A-272- ___ 1000' Reel	1000' Reel										
1J-273- ___ 100' Bag	100' Bag										
1A-273- ___ 500' Reel	500' Reel	8	6	1	01 10		160 PSI	100 PSI	1.70	23.8	PI, C
1J-274- ___ 100' Bag	100' Bag										
1A-274- ___ 500' Reel	500' Reel	10	8	1	01 10		120 PSI	70 PSI	2.20	28.6	PI, C
1J-275- ___ 100' Bag	100' Bag										
1AA-275- ___ 500' Reel	500' Reel	12	10	1	01 10		90 PSI	50 PSI	2.80	38.0	PI, C

Variations Available:

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