

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
See Material
Compliance Notice on
page 2

Suggested Fittings
Push-In, Compression

Nylon 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 low moisture absorption. Being heat and UV stabilized 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

Any of our nylon tubing products listed on page 23 are available in the colors shown below. If not shown as a standard item, please allow 4 weeks to fulfill your order.



Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure		lb/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 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	250 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 09 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		lb/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	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 09 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

Variations Available:

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

Nylon: D.O.T., High Pressure, & 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": ±.004"
 > OD .5": ±.005"
 SS: ±.004"
 DOT: ≤ 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

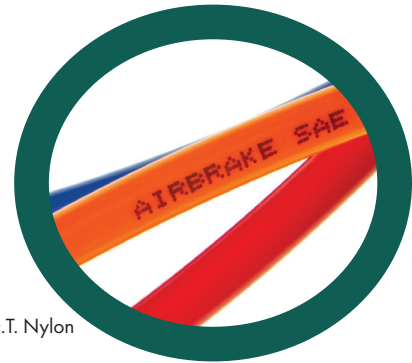
See Material
 Compliance Notice on
 page 2

Suggested Fittings

Push-In, Compression

D.O.T. Nylon 11

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 and meets SAE J844 specifications and is available in a variety of colors.



D.O.T. Nylon

High Pressure Nylon 11

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.

Super Soft Nylon 11

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. Tubing

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

Variations Available:

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

High Pressure Nylon 11

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

Variations Available:

Coiling • Colors • Cutting • Printing • Packaging • Sizes

Super Soft Nylon

Super Soft Nylon 11

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

Metric Sizes

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

Variations Available:

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

US Toll Free: 888-373-9233

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Nylon Coiled Hose

Freelin-Wade's Nylon coiled tubing is tough and abrasion resistant. The hoses are fitted with durable brass male swivel compression fittings and spring guards that are preassembled on each hose end. Bulk hoses are offered in 100-foot lengths for users wanting to assemble their own hoses.

Our Nylon Twin Hose has all of the same features but with the added benefit of two hoses bonded together. An intermittent bond allows for easy fitting installation and eliminates taping or tie wrapping hoses together in twin line applications. One line is yellow and the second is a natural translucent color which allows for visual flow verification. Contact Customer Service for more information.

Features

- Economical and lightweight.
- Self retracting.
- Resists oil, grease and corrosion.
- Pre-sealed threads on swivel fittings.

Specifications

Temperature Range
-60°F to +200°F

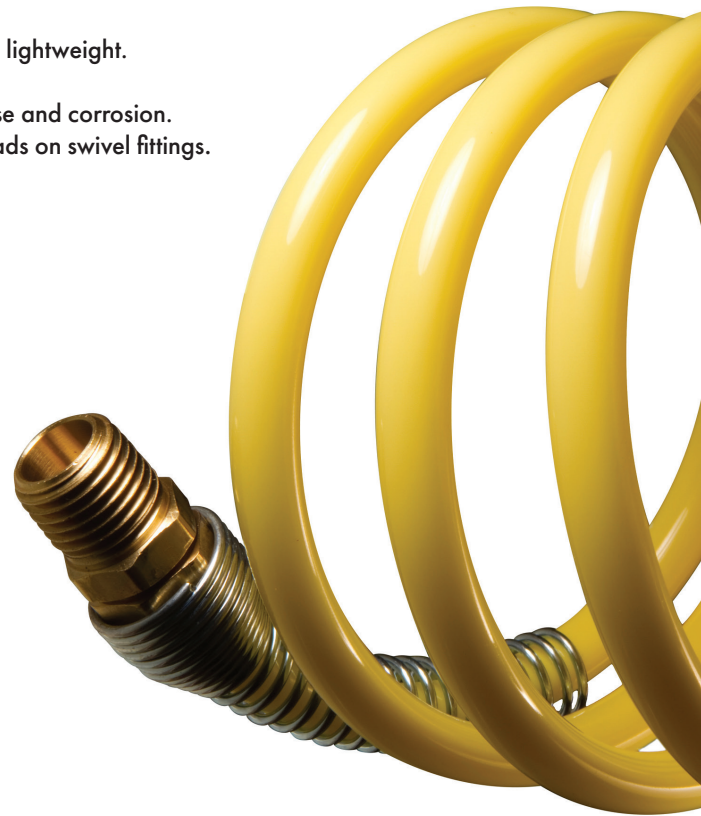
Vacuum Rating
To 28" Hg

Diameter Tolerances
±.004"

Working Pressure
4:1 Safety Factor

Tube Markings
FW Specifications

Resin Compliance
See Material
Compliance Notice on
page 2



Nylon Self-Storing Hose

Part Number & Color Code	OD	ID	Working Pressure		Material Length	Working Length	Retracted Length	Coil OD	MPT Fitting
			75°F/25°C	150°F/65°C					
N316-12B	.250"	3/16"	230 PSI	135 PSI	12'	9'	4-1/2"	3"	1/4" Swivel
N316-25B					25'	19'	9"		1/4" Swivel
N316-50B					50'	37.5'	17-3/4"		1/4" Swivel
N316-100					100'	75'	35-1/2"		none
N14-12B	.309"	1/4"	185 PSI	110 PSI	12'	9'	5-1/4"	3-1/2"	1/4" Swivel
N14-25B					25'	19'	10"		1/4" Swivel
N14-50B					50'	37.5'	19-3/4"		1/4" Swivel
N14-100					100'	75'	39-1/2"		none
N516-12B	.373"	5/16"	175 PSI	105 PSI	12'	9'	4"	4-3/4"	1/4 Swivel"
N516-25B					25'	19'	8-1/4"		1/4" Swivel
N516-50B					50'	37.5'	16-3/4"		1/4" Swivel
N516-100					100'	75'	33-1/2"		none
N38-12B	.470"	3/8"	165 PSI	100 PSI	12'	9'	4-1/2"	6"	3/8" Swivel
N38-25B					25'	19'	9"		3/8" Swivel
N38-50B					50'	37.5'	18-1/4"		3/8" Swivel
N38-100					100'	75'	36-3/4"		none
N12-12B	.625"	1/2"	170 PSI	110 PSI	12'	9'	4-1/4"	9-1/4"	1/2" Swivel
N12-25B					25'	19'	8-1/2"		1/2" Swivel
N12-50B					50'	37.5'	15-1/2"		1/2" Swivel
N12-100					100'	75'	31-1/2"		none
N34-12B	.882"	3/4"	120 PSI	65 PSI	12'	9'	3-1/2"	13-3/4"	3/4" Swivel
N34-25B					25'	19'	7"		3/4" Swivel
N34-50B					50'	37.5'	14-1/4"		3/4" Swivel
N34-100					100'	75'	28-1/2"		none

Variation Available:

Packaging



Nylon Coiled Hose

Twin Bonded Nylon Hose

Part Number & Color Code	OD	ID	Working Pressure 70°F/21°C	Material Length	Wall Thickness	Coil OD	MPT Fitting
N18Y-N18N-12B	.185"	1/8"	315 PSI	12'	.029"	1-1/2"	1/8" Swivel
N18Y-N18N-25B				25'			1/8" Swivel
N18Y-N18N-50B				50'			1/8" Swivel
N18Y-N18N-50				50'			none
N316Y-N316N-12B	.250"	3/16"	230 PSI	12'	.031"	2-7/8"	1/4" Swivel
N316Y-N316N-25B				25'			1/4" Swivel
N316Y-N316N-50				50'			none
N14Y-N14N-12B	.308"	1/4"	185 PSI	12'	.033"	3-1/2"	1/4" Swivel
N14Y-N14N-25B				25'			1/4" Swivel
N14Y-N14N-50				25'			none
N516Y-N516N-12B	.373"	5/16"	175 PSI	12'	.037"	4-5/8"	1/4" Swivel
N516Y-N516N-25B				15'			1/4" Swivel
N516Y-N516N-50				50'			none
N38Y-N38N-12B	.470"	3/8"	165 PSI	12'	.045"	5-5/8"	3/8" Swivel
N38Y-N38N-25B				25'			3/8" Swivel
N38Y-N38N-50				50'			none
N12Y-N516N-25B	.625" & .373"	1/2" & 5/16"	175 PSI	25'	.062" & .037"	9"	1/2" Swivel
N12Y-N516N-50B				50'			1/2" Swivel
N12Y-N516N-50				50'			none
N12Y-N12N-12B	.625"	1/2"	170 PSI	12'	.062"	9"	1/2" Swivel
N12Y-N12N-25B				25'			1/2" Swivel
N12Y-N12N-50B				50'			1/2" Swivel
N12Y-N12N-50				50'			none

Variation Available:

Packaging

Specifications

Temperature Range
-60°F to +200°F

Vacuum Rating
To 28" Hg

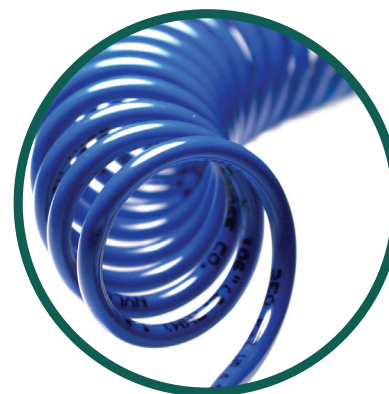
Tube Diameter Tolerances
±.004

Tube Markings
FW Specifications

Standard Tail Lengths
2" on each end

Freelin-Wade's Nylon Mini Coils have two-inch integral pigtails on each end. This allows for instant push-to-connect or standard compression fittings to be used. These small diameter coils are flexible and easy to handle. They are ideal for small pneumatic tools and robotic applications. Our Mini Coils are made from tough abrasion resistant Nylon.

Variations are easy. If you don't see the color or length that you want, just ask us. We can configure Nylon Mini Coils to perfectly match your requirements.



Nylon Mini Coils

Part Number & Color Code	OD	ID	Standard Colors	Working Pressure		Material Length	Working Length	Retracted Length	Coil OD
				75°F/25°C	150°F/65°C				
N1063- ____	5/32"	.106"	01 03 05 06 07 08 09 10	298 PSI	179 PSI	5.4'	4'	3"	1.312"
N1066- ____						13.5'	10.5'	6"	
N10612- ____						25'	20'	12"	
N10624- ____						47'	37.5'	24"	
N1706- ____	1/4"	.170"	01 03 05 06 07 08 09 10	280 PSI	170 PSI	9'	7'	6"	1.750"
N1709- ____						15'	12'	9"	
N17012- ____						18'	14'	12"	
N17024- ____						35'	28'	24"	
N17036- ____						56'	44.5'	36"	

Variations Available:

Colors • Printing • Packaging • Sizes

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