



Air-Oil Systems, Inc. www.airoil.com

Freelin-Wade Company sets the standard for quality plastic tubing. Add our industry leading manufacturing expertise, rapid delivery, limitless product variations, and extensive value added services and we will satisfy any of your plastic tubing requirements. Our customer service team is ready to help you find exactly the right tubing solution for your project. Find out how easy it is to do business with Freelin-Wade. Call us today.

Everything in this catalog is available to ship within 24 hours of your order – many items will ship the same day.

Air-Oil Systems, Inc. www.airoil.com

On the cover:
Multi-Colored Ribbon (MCR) — See page 20

Freelin-Wade Company
McMinnville, Oregon



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Items in this catalog may vary in appearance from what is pictured or illustrated. Always request a manufactured product sample to assure accuracy.

Product descriptions, specifications and availability may change without notice.

Coilhose Pneumatics
East Brunswick, NJ

Our parent company offers an array of compressor accessories



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Variations

Variations are easy! Most of the items in this catalog can be easily varied to meet your individual needs. There's no minimum order quantity and we set the industry standard for speedy turnaround.

Variations
4

Polyurethane

Our ether-based Fre-Thane® is our most versatile tubing. Highly flexible with excellent memory it is available in a rainbow of colors. Fre-Thane also has the most variation possibilities of any of our tubing.

Polyurethane
PUR
6

Polyethylene

Available in both low density and linear low density. Our polyethylene is the perfect choice when you need flexibility combined with chemical resistance and/or FDA compliance.

Polyethylene
PE
10

PVC

Clear, lightweight and highly flexible, PVC is the choice for hospital and food grade applications. Available in standard tubing and also in a reinforced hose.

PVC
13

Nylon 11

Freelin-Wade's strong, lightweight and flexible Nylon 11 is a great choice when you need tubing that resists heat, light and corrosion. We call it “environmentally advantaged” because it's made from castor beans, an all-natural, renewable resource.

Nylon 11
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Specialty

Freelin-Wade manufactures a variety of tubing options including Kynar®, FEP, Weld Spatter Resistant, Static Dissipative and Multi-Bore. We also manufacture the industry leading Multi-Color Ribbon (MCR).

Specialty
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Coiled Tubing & Hoses

In addition to our famous Flexeel® brand hoses, Freelin-Wade offers a variety of coiled and non-coiled tubing and hoses.

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Jacketing & Accessories

Everything you need to cut, clip and channel your tubing.

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Resource Guide

Your source for detailed information about our tubing and hoses. For even more information, visit our Website at www.freelin-wade.com

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Air-Oil Systems, Inc. www.airoil.com

Variations

Variations
4

Variations are easy and there is no minimum order quantity. Freelin-Wade set the industry standard for fast turnaround.

This catalog describes our array of in-stock tubing, hoses and accessories. In addition, we also do what we call “variations.” Most variations involve taking our in-stock tubing and personalizing it to our customer’s specifications. This includes coiling, bonding, cutting, special packaging or printing.

Because we are a manufacturer, there are even more variations possible. Specifically, if there is a custom size, shape or color that you need, we’ll make it.

Look for this bar below nearly all product specifications. It tells you what variations are available for that particular product line.

Variations Available:

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

Coiling



Coiling

A coil is an excellent way to keep your workstations organized and safe while maximizing working length. We offer several standard coils in this catalog but it’s easy for us to make a variation. Just pick a tube from this catalog and have us coil it. Refer to page 38 for a worksheet that will get you started designing your coil variation.

Colors



Colors

In addition to our 28 stock colors, it’s easy for us to match virtually any color you can dream up. We extrude a rainbow of personalized colors for our customers every day. Pick your color from the Pantone® color directory or just send us a swatch of what you want us to match. It’s simple, and we’re the fastest in the industry at turning color variations around. Here is our standard color key:

Color Key

01 Black	08 Yellow	26 Transparent Green	46 Neon Green
02 Brown	09 Orange	27 Transparent Blue	48 Neon Yellow
03 Silver	10 Natural	28 Transparent Yellow	49 Neon Orange
04 Gray	11 White	29 Transparent Orange	54 Sterling
05 Red	12 Purple	32 Transparent Purple	72 Sand
06 Green	14 Light Gray	37 Transparent Ice Blue	81 Off White
07 Blue	25 Transparent Red	45 Neon Pink	92 Surf

*Pantone® is a registered trademark of Pantone, Inc.

Cutting



Cutting

We have the right equipment and are set up to precisely cut our tubing in an efficient and cost-effective manner. If you need your tubing cut into specific lengths then save time, money and reduce waste by having us cut the tubing for you.

Bonding

Freelin-Wade has developed a special bonding process that can combine two or more tubes of any size and color. Just pick your tubing from this catalog and have us bond them. It will make your work area more organized and simplify the task of line tracing. Bonding also makes your lines look more professional and user-friendly.



Bonding

Packaging

Our standard packaging process is to put short lengths in bags while longer lengths come on reels or in boxes. We can package differently though. Just ask!

Standard Packaging Options

- | | |
|--|---|
| A Standard Bulk Cardboard Reel
21" diameter x 6" wide with 1" I.D. center hub. | C Small Plastic Reel
6.5" diameter x 6" wide with 3/4" I.D. center hub. |
| AA Double Wide Bulk Cardboard Reel
Same size as "A" reel except 12" wide with an open hub. | D Dispenser Box |
| B Medium Plastic Reel
10.5" diameter x 6" wide with 3/4" I.D. center hub. | E, F Cut Lengths |
| | J Plastic Bag |
| | L Dispenser Box
Containing 250' of tubing |

Printing

Freelin-Wade can print your custom specs on any order over 5,000 feet for free, or a nominal charge for smaller orders. The print is usually text but we also have graphics capabilities. Consider having us print your logo or other graphic on your tubing.



Printing

Sizes

Don't see the O.D. or I.D. that you need? We have most dies already made, as well as an in-house die shop. We're happy to extrude exactly the tube that you need.

Bundling & Assembly

If you want to route wire with your tubing or bundle a variety of tubes and wires together, ask us how we can help. For short lengths, we can pull the tubing and wire through the jacket. For longer lengths we can extrude a PVC jacket over the top.



Assembly

Industry-Leading Turnaround Time

Everything in this catalog is available to ship within 24 hours of your order - many items will ship the same day. Our general lead times for variations are:

- Coil variation using catalog tubing - next day
- Cut lengths using catalog tubing - 3 days
- Bonding variation using catalog tubing - 2 weeks
- Custom extrusion - 3 weeks



Polyurethane – Fre-Thane®

Our ether-based Fre-Thane® is our most versatile tubing. Highly flexible with excellent memory, it has the most variation possibilities of any of our tubing and is available in a rainbow of colors.

- Extremely flexible with excellent memory.
- Kink & abrasion resistant.
- Low gas permeability, extractables and compression set.
- Resistant to chemicals, water, fuel, oil and fungus.
- Transparent and opaque colors.

Polyurethane
PUR
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Specifications

Temperature Range

All Diameters: -40°F to +165°F

Vacuum Rating

85A-95A: To 28" Hg.
70: To 20" Hg.

Diameter Tolerances

1/8" - 9/16": ±.005"
3/4": ±.007"
Metric: ±.127 mm

Tube Markings:

None

Working Pressure:

3:1 Safety Factor

UV Stabilized:

95A & 85A

Base Resin Compliance

95A: NSF61,
Meets UL94HB
90A: NSF61, FDA
85A: NSF61,
Meets UL94HB,
USPVI
70A: Meets UL94HB

Recommended Fittings

95A: Barb, Push-In, FX
90A: Barb
85A: Barb
70A: Barb

Polyurethane was invented in 1937 by German chemist, Friedrich Bayer. His first fibers, named Perlon U, gained popularity during World War II as a replacement for rubber. Its first commercial application was as a thread to make lightweight, stretchable fabric, spandex.*

Polyurethane is comprised of two basic materials, isocyanate and polyol. Since Bayer's invention, polyurethane polymers have been improved with various additives to enhance its qualities and make it more resistant to heat and light.

There are two general classes of polyurethane and both are commonly found in the market: ether-base and ester-base. Chemically, these are made from two different polyol alcohols that cause similar, but different reactions in the isocyanate. From the user's standpoint, the ester-based polymer is less expensive however it degrades when exposed to moisture. Because of this, we manufacture our Fre-Thane® polyurethane tubing using the ether-based material.

Freelin-Wade's Fre-Thane has a high resistance to abrasion while being highly flexible and kink resistant. Its most notable quality though is its "memory." Fre-Thane will stretch and flex but always return to its original shape.

Freelin-Wade began manufacturing polyurethane tubing in 1980 and it remains our core product today. It is available in 28 in-stock colors and a virtually infinite number of color variations. Fre-Thane is Freelin-Wade's most versatile product, with more options and variations available than with any other tubing.

* Source: www.madehow.com

Polyurethane – Fre-Thane®

Fre-Thane® 95A Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C	lbs./100'	Bend Radius	Fitting	
1J-157- ___	50' Bag									
1L-157- ___	250' Box									
1C-157- ___	500' Reel	1/8"	.066"	.030"	01 04 05 06 07 08 09 10 11 12 14 25 26 27 28 37	255 PSI	100 PSI	.44	1/4"	B, PI
1B-157- ___	1000' Reel									
1A-157- ___	2500' Reel									
1J-156- ___	100' Bag									
1C-156- ___	500' Reel	5/32"	3/32"	.031"	01 02 04 05 06 07 08 09 10 11 12 25 26 27 28 37	210 PSI	85 PSI	.62	3/8"	B, PI
1B-156- ___	1000' Reel									
1A-156- ___	2500' Reel									
1J-107- ___	100' Bag									
1B-107- ___	1000' Reel	3/16"	.107"	.040"	01 07 10 37	220 PSI	90 PSI	.92	3/8"	B, PI
1A-107- ___	2000' Reel									
1J-169- ___	100' Bag									
1B-169- ___	500' Reel	1/4"	1/8"	.062"	01 04 05 06 07 08 09 10 11 26 27 29	265 PSI	105 PSI	1.83	1/2"	B, PI
1A-169- ___	1000' Reel									
1J-151- ___	100' Bag									
1B-151- ___	500' Reel	1/4"	.160"	.045"	01 02 04 05 06 07 08 09 10 11 12 25 26 27 28 37 46	175 PSI	70 PSI	1.44	1/2"	B, PI, FX
1A-151- ___	1000' Reel									
1J-152- ___	100' Bag									
1A-152- ___	500' Reel	3/8"	.245"	.065"	01 04 05 06 07 08 09 10 11 25 27 28 37 45 46	170 PSI	70 PSI	3.15	7/8"	B, PI, FX
1J-161- ___	50' Bag									
1A-161- ___	250' Reel	15/32"	5/16"	.079"	01 05 07 08 10 11 27 46	155 PSI	60 PSI	4.83	1-1/8"	B, PI
1J-166- ___	50' Bag									
1A-166- ___	250' Reel	1/2"	.320"	.090"	01 05 07 08 10 27 37	175 PSI	70 PSI	5.77	1-1/8"	B, PI
1J-163- ___	50' Bag									
1A-163- ___	200' Reel	9/16"	3/8"	.094"	01 05 06 07 08 10 27	155 PSI	60 PSI	6.85	1-3/8"	B, FX
1A-176- ___	150' Reel									
1E-176- ___	Cut Length	3/4"	.467"	.142"	01 05 07 10 27	175 PSI	70 PSI	13.47	1-1/2"	B, FX

Polyurethane
PUR

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Variations Available:

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

Metric sized Fre-Thane 95A Polyurethane is on page 8

If you are ordering two or more colors of tubing, consider ordering it as a Multi-Color Ribbon. It's available as a stock item or we can customize it to meet your specs.

Polyurethane – Fre-Thane®

Polyurethane
PUR
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Fre-Thane® 95A Metric Sized Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D. mm	I.D. mm	Wall mm	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C	lbs./100'	Bend Radius	Fitting
1J-171- ___ 1C-171- ___ 1B-171- ___ 1A-171- ___	100' Bag 500' Reel 1000' Reel 2500' Reel	3	1.8	.6	01 10 37	230 PSI 90 PSI	.35	6.4 mm	B, PI
1J-156- ___ 1C-156- ___ 1B-156- ___ 1A-156- ___	100' Bag 500' Reel 1000' Reel 2500' Reel	4	2.4	.8	01 02 04 05 06 07 08 09 10 11 12 25 26 27 28 37	210 PSI 85 PSI	.62	9.5 mm	B, PI
1J-158- ___ 1B-158- ___ 1A-158- ___	100' Bag 500' Reel 1000' Reel	6	4	1	01 04 05 06 07 08 09 10 11 25 26 27 37	160 PSI 65 PSI	1.21	12.7 mm	B, PI
1J-159- ___ 1A-159- ___	100' Bag 500' Reel	8	5	1.5	01 05 06 07 08 10 11 25 27 37 46	190 PSI 75 PSI	2.36	19 mm	B, PI
1J-160- ___ 1A-160- ___	50' Bag 500' Reel	10	6.5	1.75	01 05 06 07 08 10 27	170 PSI 70 PSI	3.51	22.2 mm	B, PI
1J-161- ___ 1A-161- ___	50' Bag 250' Reel	12	8	2	01 05 07 08 10 11 27 46	155 PSI 60 PSI	4.83	28.6 mm	B, PI

Variations Available:

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

We can coil any polyurethane tube. It's a great way to keep your workplace organized and clutter free.

Fre-Thane® 90A Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C	lbs./100'	Bend Radius	Fitting
1J-132- ___ 1B-132- ___ 1A-132- ___	100' Bag 500' Reel 1000' Reel	1/4"	.159"	.046"	01 04 05 06 07 08 09 10 11 14 25 27	135 PSI 55 PSI	1.43	5/8"	B
1J-045- ___ 1B-045- ___ 1A-045- ___	100' Bag 500' Reel 1000' Reel	1/4"	.170"	.040"	01 05 07 08 10 27	115 PSI 45 PSI	1.29	3/4"	B Low Pressure Only
1J-153- ___ 1A-153- ___	100' Bag 1000' Reel	1/4"	3/16"	.031"	10	90 PSI 35 PSI	1.06	1-1/8"	B Low Pressure Only
1J-005- ___ 1B-005- ___ 1A-005- ___	100' Bag 250' Reel 500' Reel	3/8"	.245"	.065"	01 04 05 06 07 08 09 10 11 14 25 26 27 28 48 49	125 PSI 50 PSI	3.1	3/4"	B
1J-111- ___ 1A-111- ___	50' Bag 250' Reel	1/2"	3/8"	.062"	01 05 07 08 10	90 PSI 35 PSI	4.2	2"	B Low Pressure Only

Variations Available:

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

Polyurethane – Fre-Thane®

Fre-Thane® 85A Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C	lbs./100'	Bend Radius	Fitting
1J-013- ___	50' Bag								
1L-013- ___	250' Box								
1C-013- ___	500' Reel	1/8"	.066"	.030"	01 02 04 05 06 07 08 09 10 11 12 14 25 26 27 28 29 32 45 46	135 PSI	55 PSI	.43	3/16" B
1B-013- ___	1000' Reel								
1A-013- ___	2500' Reel								
1J-134- ___	100' Bag								
1C-134- ___	500' Reel	5/32"	3/32"	.031"	10	115 PSI	45 PSI	.60	3/8" B
1A-134- ___	2500' Reel								
1J-030- ___	100' Bag								
1C-030- ___	500' Reel	5/32"	5/64"	.039"	01 02 04 05 06 07 08 09 10 11 12 25 26 27 28 29 32 45	155 PSI	60 PSI	.70	3/8" B
1B-030- ___	1000' Reel								
1A-030- ___	2500' Reel								
1J-194- ___	100' Bag								
1B-194- ___	500' Reel	3/16"	1/8"	.031"	01 07 10	85 PSI	35 PSI	.74	1/2" B Low Pressure Only
1A-194- ___	2000' Reel								
1J-025- ___	50' Bag								
1D-025- ___	100' Box	1/4"	1/8"	.062"	01 02 04 05 06 07 08 09 10 11 12 25 26 27 28 29 32 45 46 49	145 PSI	60 PSI	1.8	1/2" B
1B-025- ___	500' Reel								
1A-025- ___	1000' Reel								
1J-149- ___	100' Bag								
1A-149- ___	500' Reel	5/16"	3/16"	.062"	01 07 10	110 PSI	45 PSI	2.4	5/8" B Low Pressure Only
1J-015- ___	100' Bag								
1A-015- ___	500' Reel	3/8"	1/4"	.062"	10	90 PSI	35 PSI	3.0	3/4" B

Variations Available:

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

Fre-Thane® 70A Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C	lbs./100'	Bend Radius	Fitting
1J-133- ___	100' Bag								
1B-133- ___	500' Reel	1/4"	1/8"	.062"	01 10 14 25 26	60 PSI	30 PSI	1.69	1/2" B
1A-133- ___	1000' Reel								
1J-170- ___	100' Bag								
1A-170- ___	500' Reel	3/8"	1/4"	.062"	05 07	50 PSI	25 PSI	2.82	3/4" B

Variations Available:

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

If you don't see exactly what you need, just ask us. Variations to our stock tubing are our specialty. Like our stock tubing, variations are easy to order plus we're happy to work up a prototype.

Just give us a call.

Polyurethane
PUR
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Polyethylene

We offer two varieties of polyethylene, both using a high quality resin that is impermeable to gasses and moisture. Lightweight and flexible, our polyethylene is perfect for food and beverage manufacturing.

Polyethylene, also known by its scientific name, “polyethene,” is a polymer with eleven different classifications. Though the polymer was invented by accident, producing it with consistent quality was initially problematic. The tide changed that year when Phillip’s Petroleum, along with an innovative toy maker, launched the Hula-Hoop™. Twenty million of the polyethylene hoops were sold in the first six months.

Freelin-Wade uses two different classes of polyethylene for their tubing: Low Density Polyethylene (LDPE) and Linear Low Density Polyethylene (LLDPE). The difference between the two is that LDPE is more flexible while LLDPE has superior environmental stress crack resistance.

As a variation, Freelin-Wade can match any color in LDPE, but due to special manufacturing restrictions we require a minimum order of 3,000 feet.

Low Density Polyethylene – LDPE

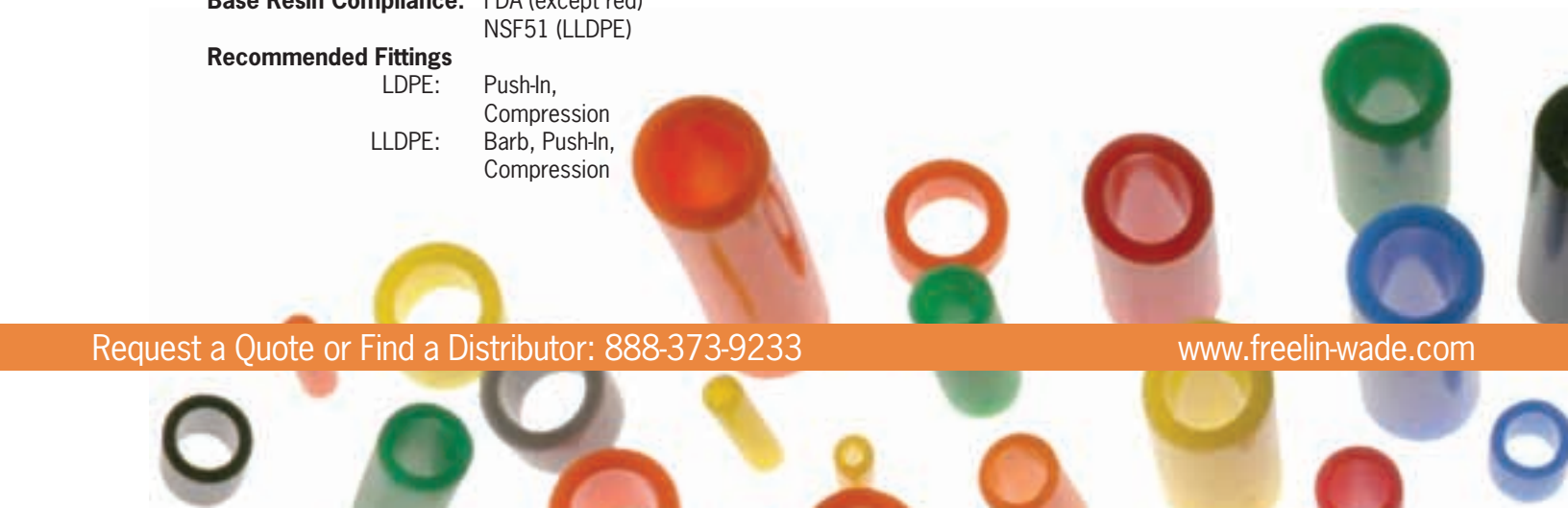
- Lightweight and flexible.
- Superior dielectric properties.
- Easily heat sealed.
- Tasteless and odorless.
- Impermeable to gasses and moisture.

LDPE is extruded to close tolerances from high quality low density polyethylene resins. All colors except red, comply with FDA regulation 21 CFR 177.1520(c) for food contact applications. Freelin-Wade’s LDPE has a water absorption rate of 0.15%, per ASTM D-570 standards. It is priced economically, making it a great value.

All colors of polyethylene, except red, comply with FDA regulation 21 CFR 177.1520 (c) 2.1 for food contact applications.

Specifications

Temperature Range	
All Diameters:	40°F to +150°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	±.004"
Hardness	
LDPE:	44 Shore D
LLDPE:	50 Shore D
Tube Markings:	FW Specifications
Working Pressure:	3:1 Safety Factor
Base Resin Compliance:	FDA (except red) NSF51 (LLDPE)
Recommended Fittings	
LDPE:	Push-In, Compression
LLDPE:	Barb, Push-In, Compression



Polyethylene

Low Density Polyethylene – LDPE

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						@75°F/25°C	@150°F/65°C			
1J-109- ___	100' Bag	1/8"	.062"	.031"	01 04 05 06 07 08 09 10	305 PSI	120 PSI	.40	1/2"	PI, C
1L-109- ___	250' Box									
1C-109- ___	500' Reel									
1B-109- ___	1000' Reel									
1A-109- ___	2500' Reel									
1J-189- ___	100' Bag	5/32"	.106"	.025"	01 05 06 07 08 10	175 PSI	70 PSI	.46	1"	PI, C
1L-189- ___	250' Box									
1C-189- ___	500' Reel									
1B-189- ___	1000' Reel									
1A-189- ___	2500' Reel									
1J-048- ___	100' Bag	1/4"	.170"	.040"	01 04 05 06 07 08 09 10	200 PSI	80 PSI	1.2	1-1/4"	PI, C
1B-048- ___	500' Reel									
1A-048- ___	1000' Reel									
1J-077- ___	100' Bag	5/16"	.187"	.062"	01 05 06 07 08 10	230 PSI	90 PSI	2.5	1-1/2"	PI, C
1A-077- ___	500' Reel									
1J-074- ___	100' Bag	3/8"	.250"	.062"	01 04 05 06 07 08 09 10	190 PSI	75 PSI	2.76	2"	PI, C
1A-074- ___	500' Reel									
1J-076- ___	100' Bag	1/2"	.375"	.062"	01 05 06 07 08 09 10	135 PSI	55 PSI	3.87	2-1/2"	PI, C
1A-076- ___	250' Reel									
1AA-076- ___	500' Reel									
1A-086- ___	100' Reel	5/8"	.500"	.062"	01 10	100 PSI	40 PSI	5	3"	PI, C
1AA-086- ___	300' Reel									

Metric Sized

Part Number & Color Code	Packaging Unit Size	O.D. mm	I.D. mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						@75°F/25°C	@150°F/65°C			
1J-189- ___	100' Bag	4	2.7	.65	01 05 06 07 08 10	175 PSI	70 PSI	.46	25.2mm	PI, C
1L-189- ___	250' Box									
1C-189- ___	500' Reel									
1B-189- ___	1000' Reel									
1A-189- ___	2500' Reel									
1J-071- ___	100' Bag	6	4	1	01 07 10	175 PSI	70 PSI	1.1	31.8mm	PI, C
1B-071- ___	500' Reel									
1A-071- ___	1000' Reel									
1J-072- ___	100' Bag	8	6	1	01 05 07 10	140 PSI	55 PSI	1.5	38mm	PI, C
1A-072- ___	500' Reel									
1J-073- ___	100' Bag	10	8	1	01 07 10	115 PSI	45 PSI	2.1	51mm	PI, C
1A-073- ___	500' Reel									
1J-075- ___	100' Bag	12	9	1.5	01 07 10	135 PSI	55 PSI	3.44	63.5mm	PI, C
1A-075- ___	250' Reel									
1AA-075- ___	500' Reel									

Variations Available:

Colors • Cutting • Printing • Packaging • Sizes

Also known as Poly-Tube™

Polyethylene
PE
11

Polyethylene – Linear Low Density (LLDPE) – PE-2000™



Polyethylene
PE
12

Linear Low Density Polyethylene – LLDPE PE-2000™

- Greater tensile strength.
- Higher burst pressure.
- Superior stress and crack resistance.
- Puncture resistance.
- Impermeable to gasses and moisture.

PE-2000® LLDPE's greatest advantage over low density polyethylene is its superior environmental stress crack resistance (ESCR), withstanding 500 hours exposure to IGEPAL solution per ASTM D-1693 ESCR tests. Environmental stresses that can shorten the service life of tubing include: chemical exposure, aging, ultraviolet light, connection to barb-type fittings, or high vibration connections with compression fittings.

All colors except red comply with FDA regulation 21 CFR 177.1520 (c) 3.2(a) for food contact applications.

As a variation, Freelin-Wade can match any color in LLDPE, but due to special manufacturing restrictions we require a minimum order of 3,000 feet.

Linear Low Density Polyethylene – LLDPE – PE-2000™

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C		lbs./100'	Bend Radius	Fitting
1J-067- ___	100' Bag									
1C-067- ___	500' Reel	5/32"	.106"	.025"	01:10:	180 PSI	70 PSI	.46	1"	B, Pl, C
1B-067- ___	1000' Reel									
1A-067- ___	2500' Reel									
1J-068- ___	100' Bag									
1B-068- ___	500' Reel	1/4"	.170"	.040"	01:04:05:06:07:08:09:10:12:	190 PSI	75 PSI	1.2	1-1/4"	B, Pl, C
1A-068- ___	1000' Reel									
1J-069- ___	100' Bag	3/8"	1/4"	.062"	01:05:06:07:08:10:	205 PSI	80 PSI	2.76	2"	B, Pl, C
1A-069- ___	500' Reel									
1J-070- ___	100' Bag									
1A-070- ___	250' Reel	1/2"	3/8"	.062"	01:10:	150 PSI	60 PSI	3.87	2-1/2"	B, Pl, C
1AA-070- ___	500' Reel									

Variations Available:

Colors • Cutting • Printing • Packaging • Sizes

Polyvinyl Chloride – PVC

Polyvinyl Chloride (PVC) is possibly the most versatile product from the chemical industry. It's used extensively in construction from siding, to wire insulation, to window frames to pipe. With the addition of phthlate ester plasticizer, the compound becomes quite flexible and an excellent material for tubing.

Freelin-Wade's PVC is clear, lightweight and extremely flexible. Its smooth interior and exterior prevents sediment accumulation and makes it impervious to bacterial action. It is widely used in the food & beverage, medical and pharmaceutical industries.

Our reinforced PVC hose utilizes an open weave innerbraid for increased working pressures up to 250 psi. The smooth-bore, full-flow I.D. dimensions are sized to fit standard commercial barbed fittings. Reinforced PVC is only available in the clear #10 color.

Specifications

Temperature Range:	-30°F to +150°F
Vacuum Rating	
Reinforced PVC:	To 18" Hg.
Hardness:	80A Durometer
Tube Markings:	None
Working Pressure:	3:1 Safety Factor
Base Resin Compliance:	FDA for Food Contact, California Prop. 65 *Meets USPVI Test- ing Requirements.
Recommended Fitting:	Barb

PVC

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Working Pressure		lbs./100'	Bend Radius	Fitting
					@75°F/25°C	@150°F/65°C			
1J-700-10*	100' Length	1/8"	1/16"	.031"	145 PSI	20 PSI	.51	3/8"	B
1A-700-10*	2500' Reel								
1J-701-10*	100' Length	1/4"	1/8"	.062"	165 PSI	25 PSI	2	1/2"	B
1A-701-10*	1000' Reel								
1J-703-10*	100' Length	5/16"	3/16"	.062"	110 PSI	15 PSI	2.6	5/8"	B
1A-703-10*	500' Reel								
1J-704-10*	100' Length	3/8"	1/4"	.062"	100 PSI	15 PSI	3.25	7/8"	B
1A-704-10*	500' Reel								
1J-705-10	100' Length	1/2"	3/8"	.062"	70 PSI	10 PSI	4.55	1-3/4"	B
1J-706-10	100' Length	3/4"	1/2"	.125"	100 PSI	15 PSI	13.01	1-1/4"	B

Variations Available:

Colors • Cutting • Bonding • Printing • Packaging • Sizes

*Meets USPVI Testing Requirement
Also known as Clear-Line™

Reinforced PVC

Reinforced PVC is only available in the clear #10 color.

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Working Pressure		lbs./100'	Bend Radius	Fitting
					@75°F/25°C	@150°F/65°C			
1J-750-10	100' Length	.438"	1/4"	.094"	250 PSI	125 PSI	5.38	1"	B
1J-751-10	100' Length	.594"	3/8"	.110"	225 PSI	110 PSI	8.83	1-1/4"	B
1J-752-10	100' Length	.750"	1/2"	.125"	200 PSI	100 PSI	13.01	2-1/4"	B
1J-753-10	100' Length	1.025"	3/4"	.137"	150 PSI	75 PSI	20.32	3-1/4"	B
1J-754-10	100' Length	1.312"	1"	.156"	125 PSI	60 PSI	30.01	5"	B
1J-755-10	100' Length	1.656"	1-1/4"	.203"	100 PSI	50 PSI	49.11	6-1/2"	B
1J-756-10	100' Length	1.937"	1-1/2"	.218"	100 PSI	50 PSI	62.52	8-1/2"	B
1J-757-10	100' Length	2.5"	2"	.250"	75 PSI	35 PSI	93.66	10"	B

Variations Available:

Cutting • Printing • Packaging

Also known as Clear-Line HP™

Nylon 11



Specifications

Temperature Range:	-60°F to +200°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	+ .002"; -.004"
	Metric: +.051 mm; -.1 mm
Hardness:	78 Rockwell R
Tube Markings:	FW Specifications
Working Pressure:	4:1 Safety Factor
UV Stabilized:	Yes
Base Resin Compliance:	Meets UL94HB Testing Requirements
Recommended Fitting:	Push-In, Compression

Scientists at DuPont invented nylon in 1931. Heralded as “the miracle fiber” because unlike previous manufactured fibers, that early nylon was synthesized entirely from petrochemicals. Like other polymers, its first major commercialization came as a textile. DuPont never registered the trademark for nylon, instead hoping that the name would become synonymous with “stockings.”*

There are five main classes of nylon: 6/6, Nylon 6, Nylon 6/12, Nylon 11, and Nylon 12. Freelin-Wade chose Nylon 11 for our tubing because it has high chemical resistance properties while absorbing less moisture than other nylons. Nylon 11 is also much less rigid than the “6-formulas” of the resin. It allows for a lighter weight wall, greater flexibility and smaller bend radius. It’s also worth noting that unlike the early nylon compounds, Freelin-Wade’s Nylon 11 resin is manufactured from castor oil, a renewable resource. We like to call it “environmentally advantaged.”

Nylon 11

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C	lbs./100'	Bend Radius	Fitting	
1J-247- ___ 1A-247- ___	100' Bag 2500' Reel	1/8"	.079"	.023"	01:10:	420 PSI	250 PSI	.35	3/8"	PI, C
1J-200- ___ 1C-200- ___ 1B-200- ___ 1A-200- ___	100' Bag 500' Reel 1000' Reel 2500' Reel	1/8"	.093"	.016"	01:05:06:07:08:10:	270 PSI	160 PSI	.25	1/2"	PI, C
1J-201- ___ 1C-201- ___ 1B-201- ___ 1A-201- ___	100' Bag 500' Reel 1000' Reel 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- ___ 1B-202- ___ 1A-202- ___	100' Bag 500' Reel 2000' Reel	3/16"	.138"	.025"	01:05:07:10:	260 PSI	160 PSI	.55	5/8"	PI, C
1J-214- ___ 1A-214- ___	100' Bag 1000' Reel	1/4"	.125"	.062"	01:10:	590 PSI	350 PSI	1.77	3/8"	PI, C
1J-203- ___ 1B-203- ___ 1A-203- ___	100' Bag 500' Reel 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- ___ 1B-204- ___ 1A-204- ___	100' Bag 500' Reel 1000' Reel	1/4"	.180"	.035"	01:05:06:07:08:09:10:	290 PSI	170 PSI	1.13	1"	PI, C
1J-205- ___ 1A-205- ___	100' Bag 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- ___ 1A-206- ___	100' Bag 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- ___ 1A-207- ___ 1AA-207- ___	100' Bag 250' Reel 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- ___ 1AA-213- ___	50' Bag 250' Reel	5/8"	1/2"	.062"	01:10:	170 PSI	100 PSI	5.30	3-1/4"	PI, C

Variations Available:

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

Also known as Fre-Lon®

Request a Quote or Find a Distributor: 888-373-9233

www.freelin-wade.com

Nylon 11
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Nylon 11

Freelin-Wade manufactures Nylon 11 tubing in a variety of sizes and colors. There are also any number of variations possible. We're happy to match any color you need, configure a coil, bond up to two tubes, print it and cut it to length. Freelin-Wade can make a Nylon 11 tube to meet your needs.

*Source: American Fiber Manufacturers Association

Features

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

Nylon 11 – Metric Sized

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

Variations Available:

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

Also known as Fre-Lon®

Nylon 11 – High Pressure & D.O.T.

Specifications – HP

Temperature Range: -60°F to +200°F
Vacuum Rating: To 28" Hg.
Diameter Tolerances: ±.003"
 1/2" O.D. ±.005"
Hardness: 108 Rockwell R
Tube Markings: FW Specifications
Working Pressure: 4:1 Safety Factor
UV Stabilized: Yes
Base Resin Compliance: Meets UL94HB Testing Requirements
Recommended Fittings: Push-In, Compression

Freelin-Wade's High Pressure Nylon 11 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 11 material with much higher burst ratings.

Nylon 11 - High Pressure

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

Variations Available:

Coiling • Colors • Cutting • Printing • Packaging • Sizes

Also known as Fre-Lon HP™

D.O.T. tubing is made with Freelin-Wade's Nylon 11. 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.

D.O.T Tubing

Part Number & Color Code	Packaging Unit Size	O.D.	Wall	Standard Colors	Burst Pressure @75°F/25°C	lbs./100'	Bend Radius
1A-220-___	2000' Reel	1/8"	.023 ±.003	01 05 07 08 09	1000 PSI	.34	3/8"
1A-221-___	2000' Reel	5/32"	.032 ±.003	01 05 06 07 08 09	1200 PSI	.57	1/2"
1A-222-___	2000' Reel	3/16"	.035 ±.003	01 05 06 07 08 09	1200 PSI	.77	3/4"
1A-223-___	1000' Reel	1/4"	.040 ±.003	01 05 06 07 08 09	1200 PSI	1.21	1"
1A-225-___	500' Reel	5/16"	.040 ±.004	01 05 06 07 08 09	1000 PSI	1.57	1-1/4"

Variations Available:

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

Nylon 11
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Specifications – D.O.T.

Temperature Range: -40°F to +200°F
Vacuum Rating: To 28" Hg.
Hardness: 78 Rockwell R
Tube Markings: D.O.T. Specs
Working Pressure: 4:1 Safety Factor
UV Stabilized: Yes
Base Resin Compliance: Meets UL94HB Testing Requirements
Recommended Fittings: Push-In, Compression

Nylon 11 – Super Soft

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 11 tubing. Our Super Soft Nylon 11 is made from a softer resin that allows for a tight bend radius — much tighter than the conventional Nylon 11. This advantage makes our Super Soft Nylon 11 the ideal choice where media and environmental conditions make polyurethane impractical.

Features

- More flexible than standard Nylon 11 with a tighter bend radius.
- Heat and light stabilized.

Specifications

Temperature Range:	-40°F to +180°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	+ .002"; -.004" + .051 mm; -.1 mm
Hardness:	57 Shore D
Tube Markings:	FW Specs
Working Pressure:	4:1 Safety Factor
UV Stabilized:	Yes
Base Resin Compliance:	Meets UL94HB Testing Requirements
Recommended Fittings:	Push-In, Compression

Nylon 11
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Super Soft Nylon 11

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

Variations Available:

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

Also known as SofLon™

Specialty – Kynar® PVDF

Specifications

Temperature Range:	-40°F to +180°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	±.005"
Hardness:	57 Shore D
Tube Markings:	None
Working Pressure:	4:1 Safety Factor
Base Resin Compliance:	FDA CFR 177.2600, USPVI
Recommended Fittings:	Push-In, Compression

Kynar® PVDF compound is an economical alternative to Teflon®, (PTFE, PFA, and FEP) tubing for applications not requiring heat resistance. Kynar possesses excellent resistance to a wide range of chemicals. The high purity material is the ideal tubing for a variety of applications requiring an odorless and tasteless tube.

There are multiple grades of Kynar resins available. Some of these are used in rigid pipe applications. Freelin-Wade uses the most flexible grade available.

For more information about Kynar, refer to the Kynar Website: www.kynar.com. You can also refer to our Chemical Resistance Chart on page 36.

Features

Resists:

- Acids
 - Alcohol
 - Aliphatics
 - Aromatics
 - Mild Bases
 - Chloride
 - Halogen
 - Fungus
 - Out-gassing
 - Radiation
 - UV Light
- Sterilizable by Gamma Radiation or Ozone.
 - Resists fungal growth per MS 810B, Method 508 testing.
 - Low out-gassing: Weight loss is 13×10^{-11} g/cm²s at 5×10^{-6} torr vacuum level.

Kynar® PVDF

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C		lbs./100'	Bend Radius	Fitting
1J-601- ___	100' Bag	1/8"	1/16"	.030"	01:10:	300 PSI	125 PSI	0.71	3/16"	PI, C
1A-601- ___	2500' Reel									
1J-645- ___	100' Bag	1/4"	1/8"	.040"	01:10:	165 PSI	70 PSI	2.03	3/4"	PI, C
1B-645- ___	500' Reel									
1A-645- ___	1000' Reel									
1J-652- ___	100' Bag	3/8"	1/4"	.062"	01:10:	165 PSI	70 PSI	4.72	1-1/4"	PI, C
1A-652- ___	500' Reel									
1J-611- ___	100' Bag	1/2"	3/8"	.062"	01:10:	130 PSI	55 PSI	6.61	2-1/8"	PI, C
1A-611- ___	250' Reel									
1AA-611- ___	500' Reel									

Metric Sized

Part Number & Color Code	Packaging Unit Size	O.D. mm	I.D. mm	Wall mm	Standard Colors	Working Pressure @75°F/25°C @150°F/65°C		lbs./100'	Bend Radius	Fitting
1J-642- ___	100' Bag	6	4	1	01:10:	195 PSI	115 PSI	1.88	15.9 mm	PI, C
1B-642- ___	500' Reel									
1A-642- ___	1000' Reel									
1J-643- ___	100' Bag	8	6	1	01:10:	145 PSI	85 PSI	2.63	49 mm	PI, C
1A-643- ___	500' Reel									
1J-646- ___	100' Bag	12	10	1	01:10:	90 PSI	55 PSI	4.07	98 mm	PI, C
1A-646- ___	250' Reel									

Variations Available:

Coiling • Cutting • Packaging • Sizes

Also known as Pomalon®

Request a Quote or Find a Distributor: 888-373-9233

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Specialty
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Specialty – Fluorinated Ethylene Propylene – FEP



Specifications

Temperature Range: -100°F to +400°F
-73°C to 204°C

Diameter Tolerances: ±.004" on <3/16" ID
±.005" on >1/8" ID

Tube Markings: None

Working Pressure: 4:1 Safety Factor

Base Resin Compliance: FDA Food Contact

UL 94 V0
ASTM D 3296-03

Recommended Fittings: Flare
Conventional

Tubing that fits, arrives on time, plus customer service people who know what they are talking about. All of this is now available with our new line of FEP tubing. Freelin-Wade's FEP tubing (compare to DuPont's® Teflon®) is the most durable and versatile flexible plastic tubing that you can buy.

FEP, or fluorinated ethylene propylene, is an economical choice for applications requiring chemical resistance or exposure to a wide range of temperatures. Freelin-Wade's FEP is extremely flexible, making it an ideal choice for self-retracting coils. FEP is also available in a variety of packaged lengths.

Features

- 100% virgin grade high performance resins designed to resist stress cracking.
- High thermal stability.
- Superior electrical insulation properties.
- Chemically inert to most industrial chemicals and solvents.

Fluorinated Ethylene Propylene – FEP

Part Number	Packaging Unit Size	O.D.	I.D.	Wall	Color	Working Pressure @72°F/22°C	Bend Radius
1J-900-10	100' Bag						
1C-900-10	500' Reel	1/8"	1/16"	.030"	⊗	300 PSI	1/2"
1B-900-10	1000' Reel	3.18 mm	1.57 mm	.76 mm			
1A-900-10	2500' Reel						
1J-901-10	100' Bag						
1B-901-10	500' Reel	1/4"	3/16"	.030"	⊗	150 PSI	1"
1A-901-10	2500' Reel	6.35 mm	4.78 mm	.76 mm			
1J-902-10	100' Bag	1/4"	1/8"	.062"	⊗	300 PSI	1/2"
1A-902-10	1000' Reel	6.35 mm	3.18 mm	1.57 mm			
1J-903-10	100' Bag	3/8"	1/4"	.062"	⊗	207 PSI	1"
1A-903-10	1000' Reel	9.53 mm	6.35 mm	1.57 mm			
1J-904-10	100' Bag	1/2"	3/8"	.062"	⊗	155 PSI	2"
1A-904-10	500' Reel	12.70 mm	9.53 mm	1.57 mm			

Variations Available:

Coiling • Cutting • Packaging • Jacketing

Specialty
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Specialty – Multi-Colored Ribbon – MCR

Specifications

Temperature Range

All Diameters: -40°F to +165°F

Vacuum Rating

85A-95A: To 28" Hg.

70: To 20" Hg.

Diameter Tolerances

1/8" - 9/16": ±.005"

3/4": ±.007"

Metric: ±.127 mm

Tube Markings:

None

Working Pressure:

3:1 Safety Factor

UV Stabilized:

95A & 85A

Base Resin Compliance

95A: NSF61,
Meets UL94HB

90A: NSF61, FDA

85A: NSF61,
Meets UL94HB,
USPVI

70A: Meets UL94HB

Recommended Fittings

95A: Barb, Push-In, FX

90A: Barb

85A: Barb

70A: Barb

Multi-Color Ribbon tubing (MCR) is a bonded ribbon of multi-colored Fre-Thane® Polyurethane tubing. Any time that you are routing two or more lines, MCR is the way to go. It offers faster installation times and eliminates the need for spiral wrap or jacketing.

Freelin-Wade's proprietary bonding process allows the tubing to be separated without leaving a residue. This ensures a tight, leak free seal with push-in style fittings. MCR is a durable, cost-effective way to color code your tubing lines for identification, tracing or troubleshooting. Additionally, MCR will withstand the rigors of flexing and stretching, just like the rest of our polyurethane tubing.

MCR is available in a wide range of stock configurations which are listed to the right. In addition, variations are easy. Freelin-Wade will make MCR to suit your needs. Our unique manufacturing process enables us to bond up to 20 tubes, mixing and matching colors, sizes and configurations.

- Bond 2 to 20 tubes.
- Use multiple colors in any combination.
- Mix or match tube sizes.
- Tubes can be stacked into many configurations.
- Color code your lines making routing and line identification easy.

Examples of Common MCR Variations



Specialty
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Specialty – Multi-Colored Ribbon – MCR

95A Standard Multi-Color Ribbon (MCR)

Part Number & Color Code Sequence	Packaging Unit Size	O.D. Configuration	I.D. Configuration
2M-157-05-07	100' Bag	1/8"	.066"
2ME-157-05-07	Cut Length	Twin Tube	
4M-157-05-07-11-10	100' Bag	1/8"	.066"
4ME-157-05-07-11-10	Cut Length	Quad Tube	
6M-157-08-06-05-07-11-10	100' Bag	1/8"	.066"
6ME-157-08-06-05-07-11-10	Cut Length	Six Tube	
8M-157-25-27-08-06-05-07-11-10	100' Bag	1/8"	.066"
8ME-157-25-27-08-06-05-07-11-10	Cut Length	Eight Tube	
2M-156-05-07	100' Bag	5/32"	3/32"
2ME-156-05-07	Cut Length	Twin Tube	
4M-156-05-07-11-10	100' Bag	5/32"	3/32"
4ME-156-05-07-11-10	Cut Length	Quad Tube	
6M-156-08-06-05-07-11-10	100' Bag	5/32"	3/32"
6ME-156-08-06-05-07-11-10	Cut Length	Six Tube	
2M-151-05-07	100' Bag	1/4"	.160"
2ME-151-05-07	Cut Length	Twin Tube	
4M-151-05-07-11-10	100' Bag	1/4"	.160"
4ME-151-05-07-11-10	Cut Length	Quad Tube	
6M-151-08-06-05-07-11-10	100' Bag	1/4"	.160"
6ME-151-08-06-05-07-11-10	Cut Length	Six Tube	
8M-151-25-27-08-06-05-07-11-10	100' Bag	1/4"	.160"
8ME-151-25-27-08-06-05-07-11-10	Cut Length	Eight Tube	
2M-152-05-07	100' Bag	3/8"	1/4"
2ME-152-05-07	Cut Length	Twin Tube	
4M-152-05-07-11-10	100' Bag	3/8"	1/4"
4ME-152-05-07-11-10	Cut Length	Quad Tube	

Variations Available:

Coiling • Colors • Cutting • Packaging • Sizes

85A Standard Multi-Color Ribbon (MCR)

Part Number & Color Code Sequence	Packaging Unit Size	O.D. Configuration	I.D. Configuration
2M-013-01-10	100' Bag	1/8"	.066"
2ME-013-01-10	Cut Length	Twin Tube	
4M-013-26-28-29-25	100' Bag	1/8"	.066"
4ME-013-26-28-29-25	Cut Length	Quad Tube	
6M-013-06-07-05-08-09-12	100' Bag	1/8"	.066"
6ME-013-06-07-05-08-09-12	Cut Length	Six Tube	
8M-013-11-04-32-27-26-28-29-25	100' Bag	1/8"	.066"
8ME-013-11-04-32-27-26-28-29-25	Cut Length	1/8"	.066"
8M-013-10-10-10-10-10-10-10	100' Bag	Eight Tube	
8ME-013-10-10-10-10-10-10-10	Cut Length		
2M-025-01-10	100' Bag	1/4"	1/8"
2ME-025-01-10	Cut Length	Twin Tube	
4M-025-26-28-29-25	100' Bag		
4ME-025-26-28-29-25	Cut Length		
4M-025-01-01-01-01	100' Bag	1/4"	1/8"
4ME-025-01-01-01-01	Cut Length	Quad Tube	
4M-025-10-10-10-10	100' Bag		
4ME-025-10-10-10-10	Cut Length		
6M-025-06-07-05-08-09-12	100' Bag		
6ME-025-06-07-05-08-09-12	Cut Length	1/4"	1/8"
6M-025-10-10-10-10-10-10	100' Bag	Six Tube	
6ME-025-10-10-10-10-10-10	Cut Length		
8M-025-11-04-32-27-26-28-29-25	100' Bag	1/4"	1/8"
8ME-025-11-04-32-27-26-28-29-25	Cut Length	Eight Tube	

Variations Available:

Coiling • Colors • Cutting • Packaging • Sizes

95A Multi-Colored Ribbon (MCR) Coils

Part Number	O.D.	I.D.	Tail Length	Working Pressure		Material Length	Working Length	Retracted Length	Coil ID
				@75°F/25°C	@150°F/65°C				
2MC-156-5	5/32"	3/32"	8"	210 PSI	85 PSI	5'	3.75'	3.75"	1"
2MC-156-10						10'	7.5'	9"	1"
2MC-151-5	1/4"	.160"	8"	155 PSI	60 PSI	5'	3.75'	5.6"	1"
2MC-151-10						10'	7.5'	13.25"	1"
2MC-152-5	3/8"	.245"	8"	150 PSI	60 PSI	5'	3.75'	5"	1.75"
2MC-152-10						10'	7.5'	11.5"	1.75"

Variations Available:

Colors • Cutting • Printing • Packaging • Sizes

Specialty
21

Specialty – Static Dissipative Polyurethane

Static electricity is a stationary charge of electricity resting on an object's surface. With plastic tubing, the charge is generated usually by friction on the exterior or interior of the tubing. The charge is typically localized. This means that a charge may exist on one part of the tube but not the entire tube. The spotty nature of the charge makes it much harder to detect. Furthermore, humans can only sense electrostatic discharge (ESD) greater than 3,500 electrostatic volts. A charge as low as 100 ESD volts can damage certain circuits meaning that electronics can be destroyed by ESD without the person even knowing it. For more information about ESD, contact Freelin-Wade.

Specifications - 90A

Temperature Range:	-40°F to +165°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	±.005"
Tube Markings:	None
Dissipative Values:	(per EIA Std 541)
Volume Resistivity:	5 x 10 ⁹ ohms-cm
Surface Resistivity:	5 x 10 ⁹ ohms/sq.
Working Pressure:	3:1 Safety Factor
Recommended Fitting:	Barb

Freelin-Wade's Static Dissipative Polyurethane tubing is available in both a 90A durometer and an 85A durometer tube. It's made from an ether-based polyurethane that is specially formulated to help control ESD. It should always be used in low humidity environments or when tubing is going to be near circuit boards.

90A Static Dissipative Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						@75°F/25°C	@150°F/65°C			
1J-457-90-___	100' Bag	1/8"	.066"	.030"	01	135 PSI	70 PSI	.44	1/4"	B
1C-457-90-___	500' Reel									
1B-457-90-___	1000' Reel									
1A-457-90-___	2500' Reel									
1J-486-90-___	100' Bag	5/32"	3/32"	.031"	01 02 05 07 09 81	105 PSI	50 PSI	.61	3/8"	B
1C-486-90-___	500' Reel									
1B-486-90-___	1000' Reel									
1A-486-90-___	2500' Reel									
1J-451-90-___	100' Bag	1/4"	.160"	.045"	01 05 07	115 PSI	60 PSI	1.46	3/4"	B
1B-451-90-___	500' Reel									
1A-451-90-___	1000' Reel									
1J-452-90-___	100' Bag	3/8"	.245"	.065"	01 05	100 PSI	50 PSI	3.18	1"	B
1A-452-90-___	500' Reel									

Metric Sized

Part Number & Color Code	Packaging Unit Size	O.D. mm	I.D. mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						@75°F/25°C	@150°F/65°C			
1J-486-90-___	100' Bag	4	2.4	.8	01 02 05 07 09 81	105 PSI	50 PSI	.8	9.5 mm	B
1A-486-90-___	2500' Reel									
1J-488-90-___	100' Bag	6	4	1	01 07 09 81	90 PSI	45 PSI	1.3	12.7 mm	B
1A-488-90-___	1000' Reel									
1J-489-90-___	100' Bag	8	5	1.5	01 07	100 PSI	50 PSI	2.6	19 mm	B
1A-489-90-___	500' Reel									
1J-490-90-___	50' Bag	10	6.5	1.75	01 05 07	100 PSI	50 PSI	3.9	22.3 mm	B
1A-490-90-___	500' Reel									
1J-491-90-___	50' Bag	12	8	2	01	90 PSI	45 PSI	5.3	28.6 mm	B
1A-491-90-___	250' Reel									

Variations Available:

Coiling • Cutting • Bonding • Packaging • Sizes

Also known as Fre-Stat®

Request a Quote or Find a Distributor: 888-373-9233

www.freelin-wade.com

Specialty
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Specialty – Static Dissipative Polyurethane

Features

- Dissipates electrostatic charges with no chemical additives.
- Contains no conductive fillers and no particle emission.
- Dissipative values are permanent and cannot be washed away.
- Non-contaminating and non-outgassing.
- Ideal for low humidity environments.
- Non-corrosive to electronic leads and components.

Specifications - 85A

Temperature Range:	-40°F to +165°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	±.005"
Tube Markings:	None
Dissipative Values:	(per EIA Std 541)
Volume Resistivity:	4 x 10 ¹⁰ ohms-cm
Surface Resistivity:	1 x 10 ¹¹ ohms/sq.
Working Pressure:	3:1 Safety Factor
Base Resin Compliance:	FDA for Food Contact
Recommended Fitting:	Barb

85A Static Dissipative Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						@75°F/25°C	@150°F/65°C			
1J413- ___	100' Bag	1/8"	1/16"	.031"	01 81	115 PSI	55 PSI	48	3/16"	B
1C413- ___	500' Reel									
1B413- ___	1000' Reel									
1A413- ___	2500' Reel	5/32"	5/64"	.039"	01 04 07 09 25 27 28 45 46 81	125 PSI	60 PSI	.74	3/8"	B
1J430- ___	100' Bag									
1C430- ___	500' Reel									
1B430- ___	1000' Reel									
1A430- ___	2500' Reel									
1J425- ___	100' Bag	1/4"	1/8"	.062"	01 81	120 PSI	60 PSI	1.91	1/2"	B
1B425- ___	500' Reel									
1A425- ___	1000' Reel									
1J405- ___	100' Bag	3/8"	.245"	.065"	01 81	90 PSI	45 PSI	3.29	3/4"	B
1A405- ___	500' Reel									

Metric Sized

Part Number & Color Code	Packaging Unit Size	O.D. mm	I.D. mm	Wall mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius	Fitting
						@75°F/25°C	@150°F/65°C			
1J458- ___	100' Bag	6	4	1	81	70 PSI	35 PSI	1.27	9.5 mm	B
1A458- ___	1000' Reel									
1J472- ___	100' Bag	9	6	1.5	01 81	80 PSI	40 PSI	2.84	19 mm	B
1A472- ___	500' Reel									

Variations Available:

Coiling • Colors • Cutting • Bonding • Printed • Packaging • Sizes

Also known as Fre-Stat®

Specialty – Multi-Bore Polyurethane



Multi-Bore tubing is produced using our Fre-Thane® polyurethane in a single extrusion. Unlike MCR, it is made in one extrusion which means the tube can only be made in a single color. Unlike MCR, Multi-Bore can't be separated cleanly and should not be used with push-in fittings.

Due to special manufacturing conditions, we are able to offer Multi-Bore only in the colors listed below. If you require more colors, consider using our Multi-Color Ribbon (MCR). See page 20 for more information about MCR.

Specifications

Temperature Range:	-40°F to +165°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	±.005"
Tube Markings:	None
Working Pressure:	3:1 Safety Factor
Base Resin Compliance:	See Fre-Thane® Compliances on Page 6
Recommended Fitting:	Barb

90A Multi-Bore Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Configuration	Standard Colors	Working Pressure		lbs./100'	Fitting
						@75°F/25°C	@150°F/65°C		
2J-006-___	100' Bag								
2B-006-___	1000' Reel	1/8"	1/16"	Twin Tube	01:10:14	190 PSI	75 PSI	1.1	B
2A-006-___	2000' Reel								
2J-013-___	100' Bag	1/4"	.159"	Twin Tube	01:14	130 PSI	50 PSI	2.9	B
2A-013-___	500' Reel								
2J-024-___	50' Bag	3/8"	1/4"	Twin Tube	01:10:	120 PSI	50 PSI	6.8	B
2A-024-___	250' Reel								

Variations Available:
Coiling • Cutting • Packaging

85A Multi-Bore Polyurethane

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Configuration	Standard Colors	Working Pressure		lbs./100'	Fitting
						@75°F/25°C	@150°F/65°C		
3J-028-___	100' Bag	1/8"	.066"	Triple Tube	10:14	125 PSI	50 PSI	1.7	B
3A-028-___	1000' Reel								
4J-026-___	100' Bag	1/8"	.066"	Quad Tube	10:	125 PSI	50 PSI	2.2	B
4A-026-___	500' Reel								
2J-016-___	100' Bag	1/4"	1/8"	Twin Tube	01:04:05:10:27	150 PSI	60 PSI	4.1	B
2A-016-___	500' Reel								
3J-022-___	50' Bag	1/4"	1/8"	Triple Tube	01	150 PSI	60 PSI	6.3	B
3A-022-___	350' Reel								
4J-023-___	50' Bag	1/4"	1/8"	Quad Tube	01:10:	150 PSI	60 PSI	8.4	B
4A-023-___	250' Reel								

Variations Available:
Coiling • Cutting • Packaging

Specialty
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Air-Oil Systems, Inc. www.airoil.com

Specialty – Weld-Spatter Resistant

Specifications

Temperature Range:	-40°F to +165°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	±.005" Inner
Tube Markings:	FW Specs
Working Pressure:	3:1 Safety Factor
Base Resin Compliance	
Outer Jacket:	Meets UL94VO
Inner Tube:	Meets UL94HB
Recommended Fittings:	Push-In, Compression, Barb

Weld-Spatter Resistant Tubing is made by taking blue Fre-Thane 95A durometer polyurethane and jacketing it with a specially formulated weld-spatter resistant cover. The result is a jacketed tube that is safe from incidental contact with weld spatter. The outer cover base resin meets UL94VO requirements and offers strong insulating properties. It also resists oils, greases, acids, bases, aqueous solutions, ozone, heat, aging and ultraviolet light. The cover is approximately .030" thick and does not adhere to the inner tube, allowing the jacket to be easily skived back for fitting connection with conventional compression or push-in fittings. A special jacket trimming tool is available for easy skiving.

Features

- Protects tube from incidental weld spatter contact.
- Flexible with an excellent bend radius.
- Resistant to kink damage.
- Broad range of chemical resistance.
- Can be formed into retractable coils.



Weld-Spatter Resistant

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Standard Colors	Working Pressure		lbs./100'	Bend Radius
					@75°F/25°C	@150°F/65°C		
1J-356-07	100' Bag							
1B-356-07	500' Reel	5/32"	.093"	01 05 07 08	210 PSI	85 PSI	1.58	3/8"
1A-356-07	1000' Reel							
1J-351-07	100' Bag							
1B-351-07	250' Reel	1/4"	.160"	01 05 06 07 08 11	175 PSI	70 PSI	2.89	1/2"
1A-351-07	1000' Reel							
1J-352-07	100' Bag							
1A-352-07	500' Reel	3/8"	.245"	01 05 06 07	170 PSI	70 PSI	5.25	7/8"
1J-366-07	50' Bag							
1A-366-07	200' Reel	1/2"	.320"	01 07	175 PSI	70 PSI	8.52	1-1/8"

Metric Sized

Part Number & Color Code	Packaging Unit Size	O.D. mm	I.D. mm	Standard Colors	Working Pressure		lbs./100'	Bend Radius
					@75°F/25°C	@150°F/65°C		
1J-358-07	100' Bag							
1B-358-07	250' Reel	6	4	01	160 PSI	65 PSI	2.59	12.7 mm
1A-358-07	1000' Reel							
1J-359-07	100' Bag							
1A-359-07	500' Reel	8	5	01 07 11	190 PSI	75 PSI	4.15	19 mm
1J-360-07	100' Bag							
1A-360-07	500' Reel	10	6.5	01	170 PSI	70 PSI	5.71	22.2 mm
1J-361-07	100' Bag							
1A-361-07	250' Reel	12	8	01	155 PSI	60 PSI	7.43	28.6 mm

Variations Available:

Coiling • Colors • Cutting • Printing • Packaging • Sizes

Specialty
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Also known as Spark-Lin®

Hose – Asepsi-Flex® & Flexi-Corr™

Asepsi-Flex® PVC Vacuum Hose

Part Number & Color Code	Packaging Unit Size	I.D.	Standard Colors	Max. Vacuum Hg.
1E-501-___	25' Length	1/2"	14 54	29
1F-501-___	100' Length		72 92	
1E-625-___	25' Length	5/8"	14 54	29
1F-625-___	100' Length		72 92	

Asepsi-Flex is made from PVC and is smooth inside and out. The unique design resists kinking and is crush-proof while remaining highly flexible for a variety of vacuum, umbilical, and conduit applications. Available in four colors.



Air-Oil Systems, Inc. www.airoil.com

Flexi-Corr™ Corrugated Hose & Cuffs

Part Number & Color Code	Packaging Unit Size	I.D.	Standard Colors	Working Pressure @75°F/25°C	lbs./100'	Maximum Vacuum Hg.	Part Number for Cuffs
1E-047-___	25' Length	1/2"	04 54 72 92	15 PSI	6.8	29	N/A
1F-047-___	250' Box 5 @ 50'						
1E-053-___	25' Length	5/8"	04 54 72 92	15 PSI	8.7	29	0C-058
1F-053-___	150' Box 3 @ 50'						
1E-054-___	25' Length	3/4"	04 54 72 92	15 PSI	10.0	29	0C-034
1F-054-___	50' Length						
1E-055-___	25' Length	1"	04 54 72 92	15 PSI	14.0	29	0C-100
1F-055-___	50' Length						
1E-056-___	25' Length	1-1/4"	04 54 72 92	13 PSI	20.0	29	0C-114
1F-056-___	50' Length						
1E-057-___	25' Length	1-1/2"	04 54 72 92	9 PSI	26.0	29	0CH-112
1F-057-___	50' Length						
1E-058-___	25' Length	1-3/4"	04 54 72 92	7 PSI	34.0	28	N/A
1F-058-___	50' Length						
1E-093-___	25' Length	2"	04 54 72 92	5 PSI	52.0	20	0C-200
1F-093-___	50' Length						

Flexi-Corr is a lightweight corrugated tubing that is highly flexible. Even at low temperatures, it will bend without kinking. Manufactured from durable Ethyl Vinyl Acetate (EVA), it contains no plasticizers and is resistant to corrosion, aging, ozone and ultraviolet light. The smooth inner-bore makes for a quiet flow. An excellent vacuum and low pressure blower tubing, it's also commonly used as a conduit for bundling assortments of tubing and wiring.

Hose – Purflex®

Purflex™ is a clear, heavy-wall, 85A durometer polyurethane hose reinforced with a tough dacron polyester innerbraid. The reinforcement provides a greater working pressure while maintaining flexibility and kink resistance. The ether-based compound is ideal for transferring abrasive materials or media that would be damaging to PVC and other hoses.

Features

- Resistant to abrasion, oils, and fungus.
- Tough; withstands constant flexing.
- Light weight.
- Very flexible in subzero temperatures.
- Bondable into multi-ribbon hoses.
- Retains original values; does not harden or crack with age.

Specifications

Temperature Range:	-40°F to +165°F
Vacuum Rating:	To 28" Hg.
Durometer:	85A
Tube Markings:	FW Specifications
Working Pressure:	4:1 Safety Factor
UV Stabilized:	Yes
Base Resin Compliance:	NSF61, USPVI Meets UL94HB,
Recommended Fitting:	Barb



Purflex™ is only available in the clear #10 color.

Purflex™ – Reinforced Polyurethane Hose

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Wall	Working Pressure		lbs./100'	Bend Radius	Fitting
					@75°F/25°C	@150°F/65°C			
1A-800-10	100' Reel	.470"	1/4"	.110"	230 PSI	150 PSI	6.0	3/4"	B
1E-800-10	Cut Length								
1A-801-10	100' Reel	.630"	3/8"	.127"	155 PSI	100 PSI	9.9	1-1/2"	B
1E-801-10	Cut Length								
1A-802-10	100' Reel	.750"	1/2"	.125"	125 PSI	80 PSI	12.0	2"	B
1E-802-10	Cut Length								
1A-803-10	100' Reel	.905"	5/8"	.140"	105 PSI	70 PSI	16.4	2-3/4"	B
1E-803-10	Cut Length								
1A-804-10	100' Reel	1.025"	3/4"	.137"	90 PSI	60 PSI	18.6	3"	B
1E-804-10	Cut Length								
1A-805-10	100' Reel	1.300"	1"	.150"	75 PSI	50 PSI	26.2	5"	B
1E-805-10	Cut Length								

Variations Available:

Coiling • Cutting • Bonding • Printing • Packaging

Coiled Tubing & Hoses

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Hose – Flexeel®

Specifications

- Temperature Range:** -40°F to +165°F
Pressure Rating @ 70°F: 200 P.S.I.
Vacuum Rating: To 20" Hg.
Diameter Tolerances
 1/4" – 5/16" ±.005"
 3/8" – 1/2" ±.010"
Durometer: 85A
Tube Markings: FW Specifications
Working Pressure: 4:1 Safety Factor
UV Stabilized: Yes
Base Resin Compliance: NSF61, USPVI
 Meets UL94HB,
Recommended Fittings: Reusable with
 Strain Relief

Flexeel® Polyurethane Reinforced Hose is an excellent alternative to much bulkier rubber hoses. Extremely lightweight and tough, it is ideal for either outdoor or indoor use. Flexeel retains its flexibility even in cold environments. Available in:

- T** Transparent Blue **TR** Transparent Red **TY** Transparent Yellow

Flexeel® Polyurethane Straight Hose

Part Number & Color Code	Length	O.D.	I.D.	Colors	Fitting
PFE4025	—				None
PFE40254	25'	3/8"	1/4"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE40256	—				Reusable Strain Relief 3/8 MPT
PFE4050	—				None
PFE40504	50'	3/8"	1/4"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE40506	—				Reusable Strain Relief 3/8 MPT
PFE4100	—				None
PFE41004	100'	3/8"	1/4"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE41006	—				Reusable Strain Relief 3/8 MPT
PFE4500	500'	3/8"	1/4"	T TR TY	None
PFE42000	2000'	3/8"	1/4"	T TR TY	None
PFE5025	—	.473"	5/16"	T TR TY	None
PFE50254	25'	.473"	5/16"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE5050	—	.473"	5/16"	T TR TY	None
PFE50504	50'	.473"	5/16"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE5100	—	.473"	5/16"	T TR TY	None
PFE51004	100'	.473"	5/16"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE5250	250'	.473"	5/16"	T TR TY	None
PFE51500	1500'	.473"	5/16"	T TR TY	None
PFE6025	—				None
PFE60254	25'	9/16"	3/8"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE60256	—				Reusable Strain Relief 3/8 MPT
PFE6050	—				None
PFE60504	50'	9/16"	3/8"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE60506	—				Reusable Strain Relief 3/8 MPT
PFE6100	—				None
PFE61004	100'	9/16"	3/8"	T TR TY	Reusable Strain Relief 1/4 MPT
PFE61006	—				Reusable Strain Relief 3/8 MPT
PFE6200	200'	9/16"	3/8"	T TR TY	None
PFE61000	1000'	9/16"	3/8"	T TR TY	None
PFE8025	—	.700"	.440"	T TR	None
PFE80258	25'	.700"	.440"	T TR	Reusable Strain Relief 1/2 MPT
PFE8050	—	.700"	.440"	T TR	None
PFE80508	50'	.700"	.440"	T TR	Reusable Strain Relief 1/2 MPT
PFE8100	—	.700"	.440"	T TR	None
PFE81008	100'	.700"	.440"	T TR	Reusable Strain Relief 1/2 MPT
PFE8200	200'	.700"	.440"	T TR	None
PFE8500	500'	.700"	.440"	T TR	None

Variations Available:

- Coiling • Colors • Cutting • Bonding • Printing • Packaging

◀ Flexeel® with Reusable Strain Relief Fitting



Coiled Tubing & Hoses
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Coiled Hose – Flexeel® Coiled Hose

Features

- Withstands constant flexing, even in subzero conditions.
- Kink & abrasion resistant.
- Much lighter than other comparably sized hoses.
- Very small bend radius.
- Resistant to chemicals, water, fuel, oil and fungus.
- Non-marring to furniture and auto finishes.

Flexeel® with Reusable Fitting ▶

* In addition to color choice, select fittings for both ends of the coil.

Flexeel® – Polyurethane Coiled Hose with Reusable Strain Relief Fittings

Part Number, Fitting & Color Code	Fitting*	Color	Material Length	Working Length	Retracted Length	O.D.	I.D.	Coil O.D.	Working Pressure	Weight
PUE14-10	__= (2) 1/4" Rigid		10'	8.5'	9"					.41 lbs.
PUE14-15	A= (1) 1/4" Rigid & (1) 1/4" Swivel	T TR TY	15'	12.5'	14.5"	3/8"	1/4"	1 3/4"	200 PSI	.59 lbs.
PUE14-20	B= (2) 1/4" Swivel		20'	17'	19.5"					.74 lbs.
PUE14-25	6= (2) 3/8" Rigid		25'	21'	26.5"					.88 lbs.
PUE516-10	__= (2) 3/8" Rigid		10'	8.5'	9.5"					.68 lbs.
PUE516-15	A= (1) 3/8" Rigid & (1) 3/8" Swivel	T TR TY	15'	12.5'	15.5"	.473"	5/16"	2 3/16"	200 PSI	.89 lbs.
PUE516-20	B= (2) 3/8" Swivel		20'	17'	21"					1.11 lbs.
PUE516-25	6= (2) 3/8" Swivel		25'	21'	26.5"					1.32 lbs.
PUE38-10	4= (2) 1/4" Rigid		10'	8.5'	10.5"					1.00 lbs.
PUE38-15	A= (1) 3/8" Rigid & (1) 3/8" Swivel	T TR TY	15'	12.5'	16.7"	9/16"	3/8"	2 7/8"	200 PSI	1.40 lbs.
PUE38-20	B= (2) 3/8" Swivel		20'	17'	23"					1.85 lbs.
PUE38-25	6= (2) 3/8" Swivel		25'	21'	29"					2.25 lbs.

with Reusable Fittings

PRE14-10	__= (2) 1/4" Rigid		10'	8.5'	9"					.41 lbs.
PRE14-15	A= (1) 1/4" Rigid & (1) 1/4" Swivel	T TR TY	15'	12.5'	14.5"	3/8"	1/4"	1 3/4"	200 PSI	.59 lbs.
PRE14-20	B= (2) 1/4" Swivel		20'	17'	19.5"					.74 lbs.
PRE14-25	6= (2) 3/8" Swivel		25'	21'	26.5"					.88 lbs.
PRE516-10	__= (2) 3/8" Rigid		10'	8.5'	9.5"					.68 lbs.
PRE516-15	4= (2) 1/4" Swivel	T TR TY	15'	12.5'	15.5"	.473"	5/16"	2 3/16"	200 PSI	.89 lbs.
PRE516-20	B= (2) 3/8" Swivel		20'	17'	21"					1.11 lbs.
PRE516-25	6= (2) 3/8" Swivel		25'	21'	26.5"					1.32 lbs.
PRE38-10	4= (2) 1/4" Rigid		10'	8.5'	10.5"					1.00 lbs.
PRE38-15	4A= (1) 1/4" Rigid & (1) 1/4" Swivel	T TR TY	15'	12.5'	16.7"	9/16"	3/8"	2 7/8"	200 PSI	1.40 lbs.
PRE38-20	4B= (2) 1/4" Swivel		20'	17'	23"					1.85 lbs.
PRE38-25	6= (2) 3/8" Rigid		25'	21'	29"					2.25 lbs.

Variations Available:

Colors • Bonding • Printing • Packaging

* In addition to color choice, select fittings for both ends of the coil.

Coiled Tubing & Hoses

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Coiled Hose – Flexcoil®

Specifications

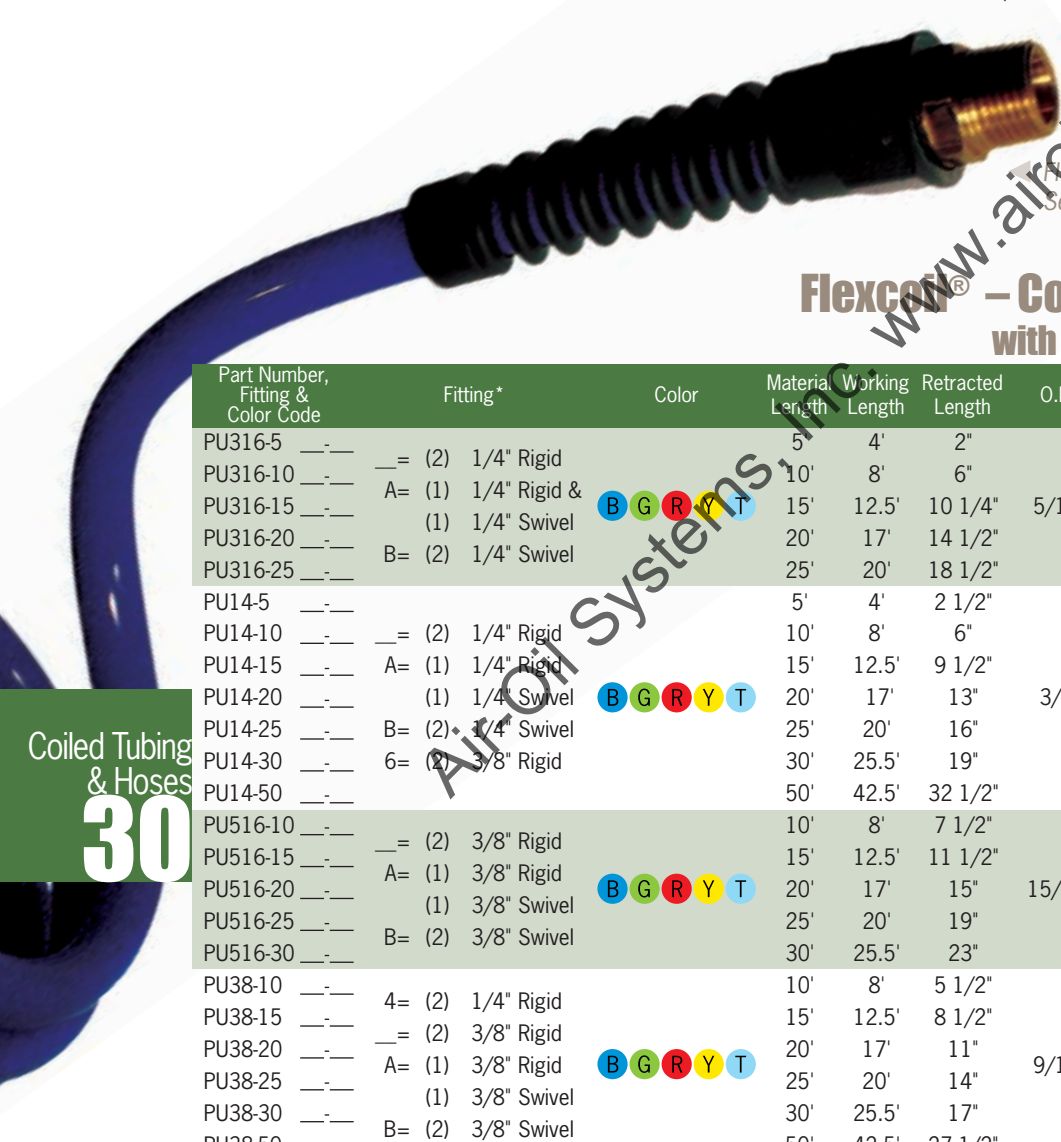
Temperature Range:	-40°F to +125°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	
1/4" to 9/16":	±.005"
Tube Markings:	FW Specifications
Working Pressure:	3:1 Safety Factor
Working Length:	80-90% of Material Length
Base Resin Compliances:	See Page 6 for Fre-Thane® Compliances

Flexcoil® is the original tangle free coiled hose. It's made from Freelin-Wade's own Fre-Thane® Polyurethane. Just like our other Fre-Thane tubing, it resists abrasion and kinking. Of course it always springs back to its original shape. Flexcoil is ideal for use with air tools, blow guns, impact wrenches and nailers. It's a great way to keep your work area organized and safe.

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

- Blue
- Neon Green
- Red
- Yellow
- Transparent Blue

In addition to color choice, select fittings for both ends of the coil.



Flexcoil® with Reusable Strain Relief fitting
See page 32 for Fre-Thane coils without fittings

Flexcoil® – Coiled Polyurethane Hose with Reusable Strain Relief Fittings

Part Number, Fitting & Color Code	Fitting*	Color	Material Length	Working Length	Retracted Length	O.D.	I.D.	Coil O.D.	Working Pressure	Weight
PU316-5	— (2) 1/4" Rigid		5'	4'	2"					.23 lbs.
PU316-10	— (1) 1/4" Rigid &		10'	8'	6"					.34 lbs.
PU316-15	(1) 1/4" Swivel	● ● ● ● ●	15'	12.5'	10 1/4"	5/16"	3/16"	1 7/8"	160 PSI	.46 lbs.
PU316-20	— (2) 1/4" Swivel		20'	17'	14 1/2"					.56 lbs.
PU316-25	— (2) 1/4" Swivel		25'	20'	18 1/2"					.68 lbs.
PU14-5	— (2) 1/4" Rigid		5'	4'	2 1/2"					.23 lbs.
PU14-10	— (1) 1/4" Rigid		10'	8'	6"					.41 lbs.
PU14-15	(1) 1/4" Swivel	● ● ● ● ●	15'	12.5'	9 1/2"					.59 lbs.
PU14-20	(1) 1/4" Swivel	● ● ● ● ●	20'	17'	13"	3/8"	1/4"	2 1/2"	145 PSI	.74 lbs.
PU14-25	(2) 1/4" Swivel		25'	20'	16"					.88 lbs.
PU14-30	(2) 3/8" Rigid		30'	25.5'	19"					1.05 lbs.
PU14-50	— (2) 1/4" Swivel		50'	42.5'	32 1/2"					1.50 lbs.
PU516-10	— (2) 3/8" Rigid		10'	8'	7 1/2"					.68 lbs.
PU516-15	— (1) 3/8" Rigid		15'	12.5'	11 1/2"					.89 lbs.
PU516-20	(1) 3/8" Swivel	● ● ● ● ●	20'	17'	15"	15/32"	5/16"	2 15/16"	130 PSI	1.11 lbs.
PU516-25	— (2) 3/8" Swivel		25'	20'	19"					1.32 lbs.
PU516-30	— (2) 3/8" Swivel		30'	25.5'	23"					1.52 lbs.
PU38-10	— (2) 1/4" Rigid		10'	8'	5 1/2"					1.00 lbs.
PU38-15	— (2) 3/8" Rigid		15'	12.5'	8 1/2"					1.40 lbs.
PU38-20	(1) 3/8" Rigid	● ● ● ● ●	20'	17'	11"	9/16"	3/8"	4 1/8"	135 PSI	1.85 lbs.
PU38-25	(1) 3/8" Swivel		25'	20'	14"					2.25 lbs.
PU38-30	— (2) 3/8" Swivel		30'	25.5'	17"					2.63 lbs.
PU38-50	— (2) 3/8" Swivel		50'	42.5'	27 1/2"					3.23 lbs.

* In addition to color choice, select fittings for both ends of the coil.

Variations Available:
Colors • Printing • Packaging

Coiled Tubing & Hoses
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Coiled Hose – Flexcoil®



Flexcoil® with Reusable Fitting ▶
See page 32 for Fre-Thane coils without fittings

Flexcoil® – Coiled Polyurethane Hose with Reusable Fittings

Part Number, Fitting & Color Code	Fitting*	Color	Material Length	Working Length	Retracted Length	O.D.	I.D.	Coil O.D.	Working Pressure	Weight
PR532-10			10'	8'	7"					.29 lbs.
PR532-15			15'	12.5'	9 1/2"					.37 lbs.
PR532-20	B= (2) 1/4" Swivel	B G R Y T	20'	17'	12 1/2"	1/4"	.160"	1 1/2"	150 PSI	.46 lbs.
PR532-25			25'	20'	15 1/2"					.54 lbs.
PR532-30			30'	25.5'	19"					.62 lbs.
PR316-5			5'	4'	2"					.23 lbs.
PR316-10			10'	8'	6"					.34 lbs.
PR316-15	B= (2) 1/4" Swivel	B G R Y T	15'	12.5'	10 1/4"	5/16"	3/16"	1 7/8"	160 PSI	.46 lbs.
PR316-20			20'	17'	14 1/2"					.56 lbs.
PR316-25			25'	20'	18 1/2"					.68 lbs.
PR14-5			5'	4'	2 1/2"					.26 lbs.
PR14-10			10'	8'	6"					.41 lbs.
PR14-15	__= (2) 1/4" Rigid		15'	12.5'	9 1/2"					.59 lbs.
PR14-20	A= (1) 1/4" Rigid	B G R Y T	20'	17'	13"	3/8"	1/4"	2 1/2"	145 PSI	.74 lbs.
PR14-25	(1) 1/4" Swivel		25'	20'	16"					.88 lbs.
PR14-30	B= (2) 1/4" Swivel		30'	25.5'	19"					1.05 lbs.
PR14-50			50'	42.5'	32 1/2"					1.50 lbs.
PR516-10			10'	8'	7 1/2"					.68 lbs.
PR516-15	4B= (2) 1/4" Swivel	B G R Y T	15'	12.5'	11 1/2"					.89 lbs.
PR516-20	B= (2) 3/8" Swivel	B G R Y T	20'	17'	15"	15/32"	5/16"	2 15/16"	145 PSI	1.11 lbs.
PR516-25			25'	20'	19"					1.32 lbs.
PR516-30			30'	25.5'	23"					1.52 lbs.
PR38-10	4= (2) 1/4" Rigid		10'	8'	5 1/2"					1.00 lbs.
PR38-15	4A= (1) 1/4" Rigid		15'	12.5'	8 1/2"					1.40 lbs.
PR38-20	(1) 1/4" Swivel		20'	17'	11"					1.85 lbs.
PR38-25	4B= (2) 1/4" Swivel	B G R Y T	25'	20'	14"	9/16"	3/8"	4 1/8"	135 PSI	2.25 lbs.
PR38-30	__= (2) 3/8" Rigid		30'	25.5'	17"					2.63 lbs.
PR38-50	A= (1) 3/8" Rigid		50'	42.5'	27 1/2"					3.23 lbs.
PR12-10			10'	8'	7"					2.14 lbs.
PR12-15			15'	12.5'	11 3/4"					2.95 lbs.
PR12-20			20'	17'	16 1/2"					3.77 lbs.
PR12-25	B= (2) 1/2" Swivel	B G R Y T	25'	20'	23"	3/4"	.467"	5"	155 PSI	4.60 lbs.
PR12-30			30'	25.5'	28"					5.35 lbs.
PR12-50			50'	42.5'	40"					7.75 lbs.

Variations Available:
Colors • Printing • Packaging

* In addition to color choice, select fittings for both ends of the coil.

Coiled Tubing & Hoses
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Coiled Tubing – Fre-Thane® Coils



Specifications

- Temperature Range:** -40°F to +165°F
- Vacuum Rating:** To 28" Hg.
- Diameter Tolerances:** ±.005"
- Working Pressure:** 3:1 Safety Factor
- UV Stabilized:** 85A
- Base Resin Compliances:** See Page 6 for Fre-Thane® Compliances
- Recommended Fittings:** Barb, Push-In (95A)

Fre-Thane® 85A and 90A polyurethane coils possess outstanding memory, a soft feel and superior flexibility. These coils are extraordinarily tough and resistant to abrasion, overstretching, kinking and repeated flexing. Freelin-Wade's coils have two straight tails, one that is 8" long and the other that is 16" long.

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

Fre-Thane® Single Tube Polyurethane Coils

Part Number & Color Code	O.D.	I.D.	DUR	Standard Colors	Working Pressure		Material Length	Working Length	Retracted Length	Coil I.D.
					@75°F/25°C	@150°F/65°C				
1W-013-__	1/8"	.066"	85A	01 02 04 05 06 07 08 09 10 11 12 14 25 26 27 28 29 32 45 46	115 PSI	45 PSI	10'	8'	8"	3/8"
1W-025-__	1/4"	1/8"	85A	01 02 04 05 06 07 08 09 10 11 12 25 26 27 28 29 32 45 46 49	125 PSI	50 PSI	10'	8'	5"	3/4"
1W-132-__	1/4"	.159"	90A	01 04 05 06 07 08 09 10 11 14 25 27	115 PSI	45 PSI	10'	8'	9-1/4"	3/4"
1W-005-__	3/8"	1/4"	90A	01 04 05 06 07 08 09 10 11 14 25 26 27 28 48 49	105 PSI	40 PSI	10'	8'	8"	1-1/4"
1Z-005-__							25'	20'	22"	
1W-151-__	1/4"	.16"	95A	01 02 04 05 06 07 08 09 10 11 12 25 26 27 28 37 46	155 PSI	60 PSI	10'	8'	7"	1"
1X-151-__	1/4"	.16"	95A				15'	12.5'	9.5"	
1Y-151-__	1/4"	.16"	95A				20'	17'	12.5"	
1Z-151-__	1/4"	.16"	95A				25'	20'	15.5"	
1W-152-__	3/8"	.245"	95A	01 04 05 06 07 08 09 10 11 25 27 28 37 45 46	150 PSI	60 PSI	10'	8'	6"	1-3/4"
1X-152-__	3/8"	.245"	95A				15'	12.5'	9.5"	
1Y-152-__	3/8"	.245"	95A				20'	17'	13"	
1Z-152-__	3/8"	.245"	95A				25'	20'	16"	

Variations Available:

- Colors • Cutting • Bonding • Printing • Packaging • Sizes

Fre-Thane® Multi-Bore Polyurethane Coils

Part Number & Color Code	O.D.	I.D.	DUR	Standard Colors	Working Pressure		Material Length	Working Length	Retracted Length	Coil I.D.
					@75°F/25°C	@150°F/65°C				
2V-006-__	1/8"	1/16"	Twin 90A	01 10 14	160 PSI	65 PSI	7'	5'	6"	3/4"
2W-016-__	1/4"	1/8"	Twin 85A	01 04 05 10 27	130 PSI	50 PSI	10'	8'	12.5"	1"
3W-022-__	1/4"	1/8"	Triple 85A	01 10	130 PSI	50 PSI	10'	8'	16"	1-1/4"
4W-023-__	1/4"	1/8"	Quad 85A	01 10	130 PSI	50 PSI	10'	7'	21"	1-1/4"

Variations Available:

- Cutting • Printing • Packaging

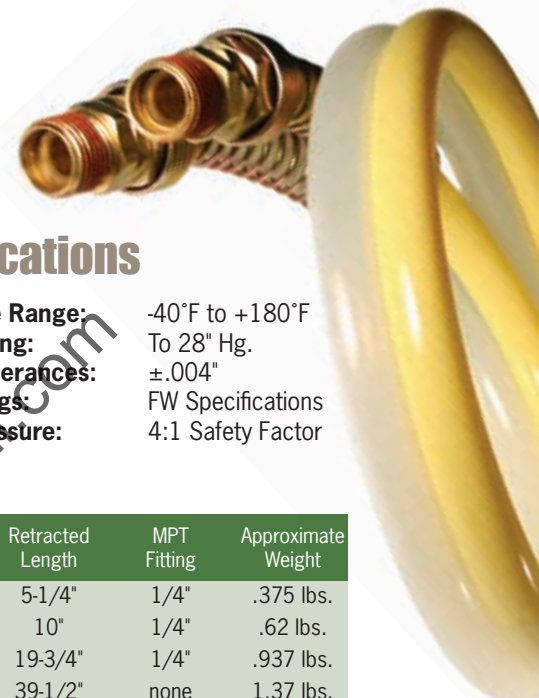
Coiled Tubing – Nylon 11

Freelin-Wade's Nylon 11 coiled tubing is tough and abrasion resistant. They 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 length for users wanting to assemble their own hoses.

Our Nylon 11 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.

The difference between the Self-Storing Hose and the Mini Coils is that the Self-Storing Hose includes fittings. A twin tube, as seen in the photograph, is also available.

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



Specifications

Temperature Range:	-40°F to +180°F
Vacuum Rating:	To 28" Hg.
Diameter Tolerances:	±.004"
Tube Markings:	FW Specifications
Working Pressure:	4:1 Safety Factor

Nylon 11 Self-Storing Hose

Part Number	O.D.	I.D.	Coil O.D.	Working Pressure		Material Length	Working Length	Retracted Length	MPT Fitting	Approximate Weight
				@75°F/25°C	@150°F/65°C					
N14-12B						12'	9'	5-1/4"	1/4"	.375 lbs.
N14-25B						25'	19'	10"	1/4"	.62 lbs.
N14-50B	.309"	1/4"	3-1/2"	185 PSI	110 PSI	50'	37.5'	19-3/4"	1/4"	.937 lbs.
N14-100						100'	75'	39-1/2"	none	1.37 lbs.
N38-12B						12'	9'	4-1/2"	3/8"	.687 lbs.
N38-25B						25'	19'	9"	3/8"	1.62 lbs.
N38-50B	.470"	3/8"	5-5/8"	165 PSI	100 PSI	50'	37.5'	18-1/4"	3/8"	1.75 lbs.
N38-100						100'	75'	36-3/4"	none	4 lbs.
N12-12B						12'	9'	4-1/4"	1/2"	.375 lbs.
N12-25B						25'	19'	8-1/2"	1/2"	.562 lbs.
N12-50B	.625"	1/2"	9"	170 PSI	110 PSI	50'	37.5'	15-1/2"	1/2"	.937 lbs.
N12-100						100'	75'	31-1/2"	none	1.37 lbs.

Variation Available:
Packaging

Nylon 11 Mini Coils

Part Number & Color Code	Standard Colors	Working Pressure		Material Length	Working Length	Retracted Length	O.D.	I.D.	Coil O.D.
		@75°F/25°C	@150°F/65°C						
N1063-___				4.4'	3-1/2'	3"			
N1066-___	01 03 05 06 07 08	350 PSI	210 PSI	8.8'	7'	6"	5/32"	.106"	1.312"
N10612-___	09 10			17.5'	14'	12"			
N10624-___				35'	28'	24"			
N1706-___				5'	4'	6"			
N1709-___				6.9'	5-1/2'	9"			
N17012-___	01 03 05 06 07 08	330 PSI	200 PSI	9.4'	7-1/2'	12"	1/4"	.170"	1.750"
N17024-___	09 10			19.4'	15-1/2'	25"			
N17036-___				28'	22-1/2'	36"			

Variations Available:
Colors • Printing • Packaging • Sizes

Coiled Tubing & Hoses

33

Jacketing & Accessories

Jacketing your tubing lines is an attractive and easy way to organize your tubing. Save time over tie wrapping. It enhances the appearance while making line tracing easier while improving safety.

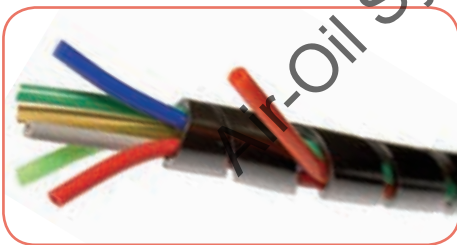
PVC Jacketed Bundle



Expandable Webbing



Spiral Wrap



Tube Cutters



PVC Jacketed Bundles

Freelin-Wade's PVC Jacketed Bundles are an excellent way to color code a pneumatic system in a neat flexible package. Ten colors of Fre-Thane® 85A Polyurethane tubing, jacketed with a clear flexible PVC. Variations include bundling wire, different tube sizes, materials, colors and coiling.

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Bundled Colors	lbs./100'	Fitting
10J-013-00	50' Bag	1/8"	.066"	02 04 05 06 07 08 09	7.0	B
10A-013-00	200' Reel			10 11 12		
10A-025-00	100' Bag	1/4"	1/8"	01 04 05 06 07 08 09	21.0	B
10E-025-00	Cut Length			10 11 12		

Variations Available:

Bundle your choice of tubing and wires

Expandable Webbing

Expandable Webbing can expand up to three times its size. The webbing is a polyester sleeve that allows heat and humidity to escape. Expandable Webbing is flexible and easy to install. Available only in black.

Part Number & Color Code	Packaging Unit Size	Minimum Size	lbs./100'
1J-126-01	25' Bag	1/4"	.2
1D-126-01	100' Box		
1B-126-01	500' Reel		
1J-127-01	25' Bag	1/2"	.8
1D-127-01	100' Box		
1B-127-01	500' Reel		
1J-128-01	25' Bag	3/4"	1.2
1D-128-01	100' Box		
1B-128-01	500' Reel		

Spiral Wrap

Spiral Wrap is made from a spiral cut of low density polyethylene material. It easily wraps around tubing and allows for easy branching of contents.

Part Number & Color Code	Packaging Unit Size	O.D.	I.D.	Standard Colors	lbs./100'
1J-078-__	25' Bag	1/2"	3/8"	01 10	3.4
1D-078-__	100' Box				
1A-078-__	250' Reel				

Tubing Cutters & Replacement Blades

Suitable for 1/8" - 3/4" O.D. tubing. Keep one where you have tubing.

Tubing Cutter Part Number	Description	Replacement Blades Part Number	Description
PXC058	Black Tubing Cutter	PXC059	Single Blade
PXC058B	Blue Tubing Cutter	PXC059-P5	5-Pack
PXC058R	Red Tubing Cutter	PXC059-P10	10-Pack
PXC058-L	Black Tubing Cutter w/Red Leash		

Jacketing & Accessories

Hose Cutter

Our heavy duty Hose Cutter will cut plastic tubing or hose up to 1" O.D. Reinforced hose can be cut perfectly with ease.

Hose Cutter Part Number	Description
PXC098R	Red Hose Cutter
PXC099M	Single Replacement Blade



Hose Cutter

Tubing Marker Clips

These easy-snap clips will not damage tubing. The kit consists of 50 each numerals 0 through 9 and 50 each of 14 different letters: A, B, C, D, E, F, G, H, J, P, R, X, Y, Z. Comes in a convenient plastic storage case. Refills are available.

Marker Clip Part Number	Fits Tubing Size	Marker Clip Part Number	Fits Tubing Size
TMC-02	1/8"	TMC-05	5/32"
TMC-04	1/4"	TMC-06	3/8"



Tubing Marker Clips

Tubing "H" Clips

Our "H" Clips are an easy and inexpensive way to route dual tubing or hose runs. Conveniently attached via the countersunk center screw hole. Tubing "H" Clips neatly and safely secure tubing for a clean professional look. Manufactured from black Polyacetal plastic with a useful temperature range of -40° to + 212°F.

"H" Clip Part Number	Fits Tubing Size	"H" Clip Part Number	Fits Tubing Size
HTC-156-200	.156" – .200"	HTC-486-576	.486" – .575"
HTC-201-325	.201" – .325"	HTC-576-675	.576" – .675"
HTC-326-400	.326" – .400"	HTC-676-825	.676" – .825"
HTC-401-485	.401" – .485"	HTC-826-1000	.826" – 1.00"



Tubing "H" Clips

Tube Channels

Our tube channel mounts are perfect for securing multiple tubing lines. The small 10-tube channel can be mounted with its pressure sensitive adhesive backing or with a #4 screw. Available in three sizes to fit 5/32", 3/16" and 1/4" tubing. The large style channel holds 3/8" and 1/2" tubing and mounts with two screws.

Large Channel Part Number	Tubing Size O.D.	Number of Channels	Small Channel Part Number	Tubing Size O.D.	Number of Channels
PTC6-7	3/8	7	TC5-10	5/32	10
PTC6-10	3/8	10	TC3-10	3/16	10
PTC8-6	1/2	6	TC4-10	1/4	10



Tube Channels

Tube Gauges

A handy way to measure tubing O.D. and I.D. It measures in standard and metric sizes. Add a couple to your order today.



Tube Gauge

Jacketing & Accessories

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Resource Guide – Chemical Resistance Chart

This information was provided to Freelin-Wade by our suppliers and other sources. It is to be used only as a general reference guide to aid in the selection of products in which chemical and material compatibility issues are a factor. This guide is not intended as a complete nor conclusive database. Freelin-Wade does not guarantee these ratings since the resistance of a material can be greatly affected by the temperature, consistency, and presence of other chemicals. Ultimately, the consumer must determine the chemical compatibility of an item based on the conditions in which the product is being used.

	PUR	PE	PVC	N	Kynar
Acetic Acid, Glacial	4	2	4	-	1
Acetic Acid, 30%	4	1	4	2	1
Acetone	4	2	4	1	4
Acetylene	1	4	1	1	1
Alkylene	4	-	-	-	-
Aluminum Chloride (aq)	3	2	1	-	1
Aluminum Nitrate (aq)	3	-	2	-	1
Ammonia Anhydrous	4	2	1	-	4
Ammonia Gas (cold)	3	-	3	1	4
Ammonia Gas (hot)	4	-	-	1	4
Ammonium Chloride (aq) 40%	2	1	1	-	1
Ammonium Sulfate (aq)	1	1	1	1	1
Amyl Alcohol	4	2	1	-	1
Amyl Naphthalene	4	-	-	-	-
Animal Fats	1	-	-	-	-
Aqua Regia	4	2	3	-	-
Arsenic Acid	3	2	1	-	1
Asphalt	2	1	1	-	1
ASTM Fuel A	2	-	-	-	-
ASTM Fuel B	3	-	-	-	-
ASTM Fuel C	3	1	4	-	-
Barium Chloride (aq)	1	2	1	-	1
Beer	2	2	1	1	1
Beet Sugar Liquors	4	1	1	-	1
Benzene	3	4	3	1	1
Benzine	2	-	-	-	-
Blast Furnace Gas	4	-	-	-	-
Bleach Solutions	4	1	1	-	1
Borax	1	1	1	-	1
Boric Acid	1	1	1	-	1
Brake Fluid	4	-	-	-	1
Brine	2	-	3	-	1
Bromine Water	4	-	3	4	1
Bunker Oil	2	-	-	-	-
Butane	1	3	3	1	1
Butter	1	-	-	-	-
Butyl Alcohol (Butanol)	3	1	3	1	1
Butylene	4	1	1	-	1
Calcium Chloride (aq)	1	1	3	1	1
Calcium Hydroxide (aq)	2	1	2	-	1
Calcium Nitrate (aq)	1	-	1	1	1
Calcium Sulfide (aq)	1	-	-	-	-
Cane Sugar Liquors	4	-	1	-	1
Carbolic Acid	3	4	3	-	-
Carbon Dioxide	1	2	1	-	1
Carbonic Acid	4	2	1	-	1
Carbon Monoxide	1	2	1	-	1
Carbon Tetrachloride	4	4	4	3	1
Castor Oil	1	1	1	-	1
Chlorine (dry)	4	3	4	4	1
Chlorine (wet)	4	3	-	4	1
Chloroform	4	4	4	3	1
Chlorox	4	-	-	-	-
Chromic Acid 50%	4	1	4	4	1
Citric Acid	1	1	2	1	1
Coal Tar (Creosote)	3	-	-	-	-
Coconut Oil	2	1	1	-	1
Cod Liver Oil	1	1	1	-	-
Coke Oven Gas	4	-	-	-	-
Copper Chloride (aq)	1	2	1	-	1
Copper Cyanide (aq)	1	2	1	-	1
Corn Oil	1	1	2	-	1
Cotton Seed Oil	1	1	2	-	1
Creosol (Methyl Phenol)	4	4	4	4	1
Cyclohexane	1	4	4	1	1
Denatured Alcohol	4	-	-	-	-
Detergent Solution	3	1	1	-	-
Diesel Oil	2	3	1	-	-
Dioxane	4	3	-	-	4
Dowtherm Oil	3	-	-	-	-
Dry Cleaning Fluids	4	-	-	-	-
Ethane	1	-	1	-	-
Ethyl Acrylate	4	-	-	-	1
Ethyl Alcohol (Ethanol)	4	2	3	3	1
Ethyl Benzene	4	-	-	-	-
Ethyl Cellulose	2	-	-	-	-
Ethyl Chloride	4	4	4	-	1
Ethyl Ether	3	4	4	-	1
Ethylene Chloride	4	4	4	-	-
Ethylene Glycol [®] (Anti-Freeze)	2	1	1	1	1
Ethylene Oxide	4	3	3	1	1
Ethylene Trichloride	4	4	-	-	-
Ferric Chloride (aq)	1	2	1	-	1
Ferric Nitrate (aq)	1	2	1	-	1
Ferric Sulfate (aq)	2	1	1	-	1
Fluorine (Liquid)	4	3	4	4	1
Formaldehyde (RT)	4	2	1	1	1
Formic Acid	4	2	1	4	1
Freon 11	4	3	1	-	-
Freon 12	1	1	1	1	-
Freon 22	4	-	1	1	-
Fuel Oil (Bunker 'C')	2	3	1	-	1
Gasoline (100 Octane, High Test)	3	4	3	-	1
Glue	1	1	3	-	1
Glycerin (Glycerol)	1	1	1	-	1
Glycols	4	-	-	-	1
Green Sulfate Liquor	1	-	-	-	-
Hexane	2	-	2	-	1
Hydraulic Oil	1	1	1	-	-
Hydrochloric Acid (cold) 37%	4	2	2	4	1
Hydrochloric Acid (hot) 37%	4	-	-	4	1
Hydrofluoric Acid (Conc.) (cold)	4	2	-	-	1
Hydrofluoric Acid (Conc.) (hot)	4	-	-	-	1
Hydrogen Gas	1	1	1	1	1
Isobutyl Alcohol	3	1	-	-	1
Isocetane	2	3	1	-	1
Isopropyl Acetate	4	3	4	-	-
Isopropyl Alcohol (Isopropanol)	3	1	-	1	1
Isopropyl Ether	2	1	2	-	1
Kerosene	1	4	2	1	1
Lacquers	4	1	4	-	-
Laquer Solvents	4	1	3	-	-
Lard	1	1	1	-	1
Lavender Oil	4	-	-	-	-
Lead Acetate (aq)	4	1	1	-	1
Linseed Oil	2	3	1	1	1
Liquidified Petroleum Gas	1	-	-	-	1
Lubricating Oils	1-2 ³	4	2	1	1
Lye	4	1-4 ⁴	1-2	-	-
Magnesium Chloride (aq)	1	2	1	1	1
Magnesium Hydroxide (aq)	4	2	1	-	1
Mercury	1	1	1	1	1
Methane	3	-	2	1	1
Methyl Acetate	4	2	4	1	1
Methyl Acrylate	4	-	-	-	1
Methyl Alcohol (Methanol)	4	1	1	1	1
Methyl Butyl Ketone	4	-	1	-	-
Methyl Chloride	4	4	4	1	1
Methylene Chloride	4	4	4	-	1
Methyl Ethyl Ketone	4	2	4	1	4
Methyl Isobutyl Ketone	4	3	4	1	4
Milk	4	1	1	1	1
Mineral Oil	1	3	1	1	1
Motor Oil 20W, 10W40	2	3	2	1	1
Naphtha (Lighter Fluid)	2	4	1	1	1
Naphthalene (Moth Repellent)	2	2	4	1	1
Natural Gas	2	-	1	-	1
Neatsfoot Oil	1	-	-	-	-
Nitric Acid 70%	4	2	-	4	1
Nitric Acid (Dilute) 10%	3	2	1	4	1
Nitroethane	4	-	-	-	1
N-Octane	4	1	-	-	1
Oleic Acid	2	1	3	1	1
Oleum Spirits	3	4	4	-	4
Olive Oil	1	1	-	-	1
Oxygen (cold)	1	-	-	1	1
Oxygen (200-400F)	4	-	-	-	-
Paint Thinner, Duco	4	-	-	-	-
Perchloric Acid	4	1	3	-	1
Perchloroethylene	4	4	3	3	1
Petroleum - Below 250F	2	3	-	-	1
Petroleum - Above 250F	4	-	-	-	4
Phenol (Carbolic Acid)	3	2	3	4	1
Phenyl Ethyl Ether	4	-	-	-	-

	PUR	PE	PVC	N	Kynar
Phosphoric Acid - 45%	4	1	2	2	1
Pickling Solution	4	-	-	-	-
Picric Acid	2	1	4	3	1
Potassium Acetate (aq)	4	-	-	-	1
Potassium Chloride (aq)	1	2	1	-	1
Potassium Cyanide (aq)	1	2	1	-	1
Potassium Hydroxide (aq)	4	1	1	3	4
Producer Gas	1	1	1	-	-
Propane	1	4	1	1	1
Propyl Alcohol (Propanol)	4	1	1	-	1
Propylene	4	-	2	-	-
Propylene Glycol (Anti-Freeze)	3	1	3	2	1
Propylene Oxide	4	2	-	-	4
Pydraul, 10E, 29 ELT	4	-	-	-	-
Pydraul 30E, 50E, 65E	4	-	-	-	-
Pydraul, 115E	4	-	-	-	-
Pydraul 230E, 312C, 540C	4	-	-	-	-
Rapeseed Oil	2	4	-	-	-
Red Oil (MIL-H-5606)	1	-	-	-	-
RJ-1 (MIL-F-23338 B)	1	-	-	-	-
RP-1 (MIL-F-25576 C)	1	-	-	-	-
Salt Water	2	1	1	1	1
Sewage	1	-	-	-	1
Silicate Esters	1	-	-	-	-
Silicone Oil	1	1	1	-	1
Silver Nitrate	1	1	1	-	1
Skydrol 500	4	-	-	-	-
Skydrol 700	4	-	-	-	-
Soap Solutions	3	4	1	1	-
Sodium Chloride (aq)	1	1	1	1	-
Sodium Hydroxide (aq)	4	1	1	2	4
Sodium Peroxide (aq)	4	1	2	-	1
Sodium Phosphate (aq)	1	-	-	-	1
Sodium Sulfate (aq)	1	1	1	-	-
Soy Bean Oil	2	1	1	-	1
Stoddard Solvent	1	3	3	-	-
Styrene (Monomer)	4	-	4	1	1
Sucrose Solution	4	2	-	-	-
Sulfuric Acid (Dilute Battery Acid)	3	1	1	-	1
Sulfuric Acid (Conc)	4	2	4	-	1
Sulfuric Acid (20% Oleum)	4	-	4	-	4
Sulfurous Acid	4	2	1	-	-
Tannic Acid	4	1	1	-	1
Tetrahydroethylene	4	2	4	-	-
Toluene (Toluol)	4	3	4	1	1
Transformer Oil	2	-	2	-	-
Transmission Fluid Type A	2	-	-	-	-
Trichloroethane	4	4	3	3	1
Trichloroethylene	4	4	4	3	1
Turbine Oil	1	3	1	1	-
Turpentine	4	4	4	1	1
Varnish	3	3	4	-	1
Vinegar	2	1	1	1	1
Vinyl Chloride	4	4	4	-	1
Water	1	1	1	1	1
Whiskey, Wines	2	1	1	1	1
White Oil	1	-	-	-	-
Wood Oil	3	-	-	-	-
Xylene	4	4	4	1	1
Zinc Acetate (aq)	4	-	-	-	1
Zinc Chloride (aq)	2	1	1	1	1

Rating Scale

- 1= Little or no impact 2= Minor effect
3= Moderate effect 4= Severe effect

	Polyurethane – PUR
	Polyethylene – PE
	PVC
	Nylon 11
	Kynar [®] (PVDF)

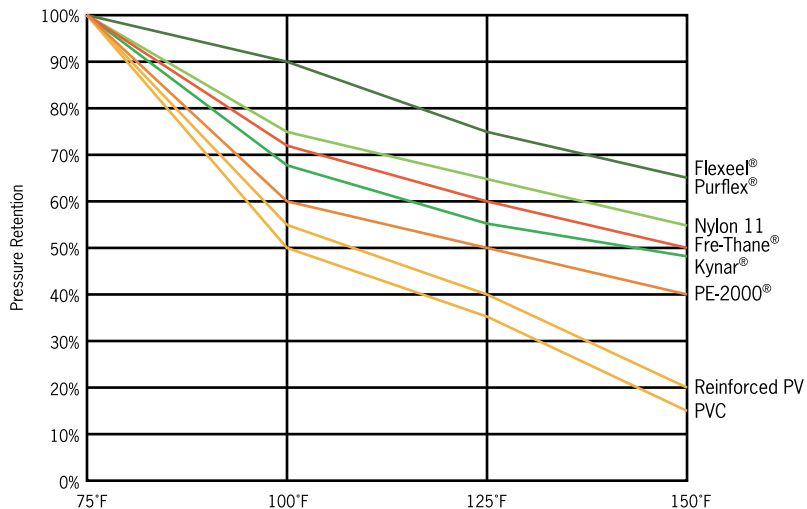
Legend

- Petroleum Base
- Synthetic Base = 1, Petroleum Base = 3
- SAE 10, 20, 30, 40, 50 = 1, Petroleum = 2
- Calcium Hydroxide and Potassium Hydroxide = 1, Sodium Hydroxide = 4
- Also see Propylene Glycol
- Also see Ethylene Glycol

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Working Pressure at Elevated Temperatures



Request Form

Everything in this catalog is available to ship within 24 hours of your order – many items will ship the same day.

Variations to the items in this catalog are easy to order and there is no minimum order quantity.

Call us: 888-373-9233

Fax: 888-325-7395

Mail: 1730 NE Miller Street
McMinnville, OR 97128 USA

Contact Information

Name _____
 Company Name _____
 Address _____

 City _____ State/Province _____
 ZIP/Postal Code _____ Country _____
 Phone Number _____ Fax Number _____
 e-Mail Address _____
 UPS or FedEx Account Number _____

1. What are you Requesting?

Catalog Quote
 Sample Other: _____

2. Standard Catalog Items

Write the part number below, and please include the color code.

Quantity _____ Part Numbers (example: 1A-201-07) _____

3. Variations

If your request includes a variation to a standard catalog item, please complete the STAMPED criteria and option sections below.

S.T.A.M.P.E.D.

Please fill in as much information as you can. Call us or refer to our Website if you have any questions.

<p>Item #1</p> <p>Size I.D. _____ O.D. _____</p> <p>Temperature: Inside Tube _____ Outside Tube _____</p> <p>Application _____</p> <p>Media In Tube _____</p> <p>Pressure (Maximum PSI) _____</p> <p>End (Fitting) <input type="radio"/> None <input type="radio"/> Barb <input type="radio"/> Compression <input type="radio"/> Push-In <input type="radio"/> Flexcoil <input type="radio"/> Other</p> <p>Delivery <input type="radio"/> Immediate <input type="radio"/> 1-2 Wks. <input type="radio"/> 2+ Wks. <input type="radio"/> Other</p> <p>Quantity _____</p> <p>Note _____</p>	<p>Item #2</p> <p>Size I.D. _____ O.D. _____</p> <p>Temperature: Inside Tube _____ Outside Tube _____</p> <p>Application _____</p> <p>Media In Tube _____</p> <p>Pressure (Maximum PSI) _____</p> <p>End (Fitting) <input type="radio"/> None <input type="radio"/> Barb <input type="radio"/> Compression <input type="radio"/> Push-In <input type="radio"/> Flexcoil <input type="radio"/> Other</p> <p>Delivery <input type="radio"/> Immediate <input type="radio"/> 1-2 Wks. <input type="radio"/> 2+ Wks. <input type="radio"/> Other</p> <p>Quantity _____</p> <p>Note _____</p>
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Coil Variations – Have Us Make a Coil to Your Specifications

Coil Diameter plays a very significant role in retractability. The smaller and tighter the coil diameter, the snappier and more retractable the coil becomes. It is important to achieve a balance between retractability and usability.

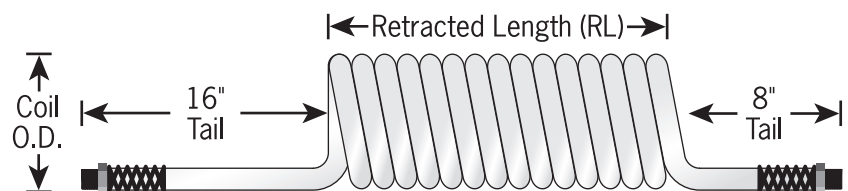
Working Length of a coil is based on how far a coil can be stretched and used comfortably and is affected by the material used. Tail length is factored into the total working length.

Retracted Length is the length of the coiled section of the body of the coil. It does not include the length of tails.

Tails, or short pigtailed, make it easier to use a coil. Our standard tail lengths are 8 and 16 inches, but coils with longer or shorter tails are available.

Please fill in as much information as you can. Call us or refer to our Website if you have any questions.

1.) Part Number _____ or Tubing O.D. _____ Tubing I.D. _____
 2.) Working Length _____ Retracted Length _____
 3.) What type of fitting? Barb Compression Push-to-Connect None
 4.) Color _____ 5.) What type of media? Air/Gas Fluid
 6.) What is your application? _____
 7.) What type of media? _____
 7.) Temperature & pressure requirements _____
 8.) Quantity breaks _____



TREASURE CHERISH PROTECT

Not just our green tubing is green.

At Freelin-Wade, reducing, recycling and reusing are ingrained into our culture.

In our offices, employees recycle virtually all paper and other office waste. In addition, we continue to make strides towards going “paperless” in this decade.

Manufacturing:

We recycle our scrap throughout our operation. This dramatically cuts our waste and reduces our footprint on the environment.

Freelin-Wade utilizes mechanical and electronic filtering systems to remove oil particulates from smoke generated during production operations before exhausting to the atmosphere.

Water Usage:

Freelin-Wade uses chilled filtered water to cool its extruded products. This water is recycled during the production process and is only drained at the end of each day. No contaminants are passed to the water in the production process

Chemicals:

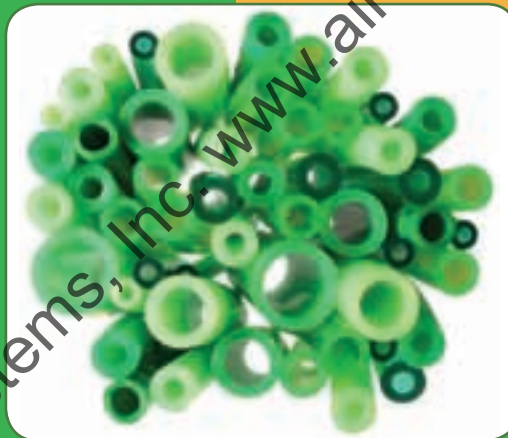
Freelin-Wade recycles/destroys its machine oils & hazardous waste chemicals through licensed companies in accordance with EPA Guidelines.

Die Cleaning:

Freelin-Wade utilizes a high-temperature die cleaning oven to reduce plastic film left on tooling to a fine dust. The high operating temperature of this oven reduces the amount of exhausted particulates with virtually zero emissions.

Contaminated Plastic Materials:

Freelin-Wade recycles waste plastic with licensed plastic recycling companies. Small amounts of contaminated materials are land filled under EPA Guidelines.



Air-Oil Systems, Inc. www.airoil.com

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