



reelin-Wade® Company sets the standard for quality plastic tubing. All of our tubing is made in the USA. Combined with our industry leading manufacturing expertise, rapid delivery, limitless product variations, and value added services. We can meet 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. Check us out online or call us today.

Virtually everything in this catalog is available to ship within 24 hours of your order.

New in this catalog:

- FEP metric sizes
- Natural color Kynar[®]
- All polyethylene is LLDPE now better material for the same price!
- LLDPE in red is now FDA compliant
- We now offer Polypropylene
- New Liquiflex-POE™
- Off-catalog resin list

All Freelin-Wade tubing is made in the USA.



On the cover: Abuse-Proof Fre-Thane® Polyurethane

Coils



www.freelin-wade.com
US Toll Free: 888-373-9233

Local/International: 503-434-5561



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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.

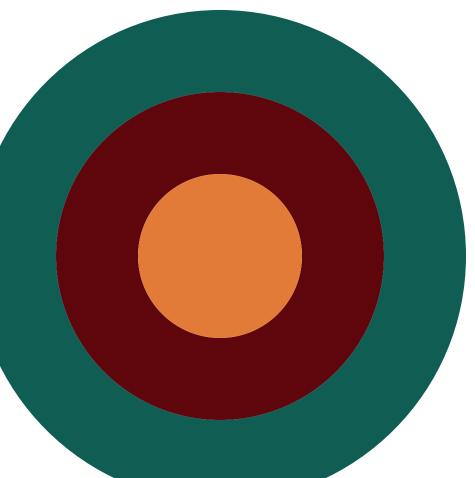


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Variations

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

Variations

Polyurethane: PUR

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

Polyurethane

Polyvinyl Chloride: PVC

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

Polyethylene, Polypropylene & Liquiflex-POE™

All of our polyethylene is now linear low density. Check out our new very flexible Liquiflex-POE and polypropylene. All are chemical resistant and FDA compliant for food contact.

Polyethylene 2

Nylon

Our strong, lightweight and flexible nylon is a great choice when you need tubing that resists heat, light and corrosion.

Nylon

Specialty Tubing

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-Colored Ribbon (MCR).

Specialty 18

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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Variations

Variations
are easy
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his catalog describes our wide selection of in-stock tubing, hoses and accessories. In addition, we also manufacture 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. If there is a custom size, shape or color that you need, we'll make it.

Assembly

Most of our tubing comes without fittings. If you would like your tubing to come with fittings, let us know. We have the equipment and personnel to make assembly a fast and efficient process.

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 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.

Coextrusion

With our coextrusion capabilities, you are no longer limited to the properties of one tube. For example, you can have the flexibility of Polyurethane and the chemical resistance of Nylon.

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. Refer to page 34 for a list of coiling terminology.

Colors

In addition to our 28 stock colors, it's easy for us to match virtually any color you can dream up. 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.

Cutting

We have the right equipment and are set up to precisely cut our tubing in an efficient and costeffective 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.

Jacketing

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 material. For longer lengths we can extrude a jacket over the top.

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!

Printing

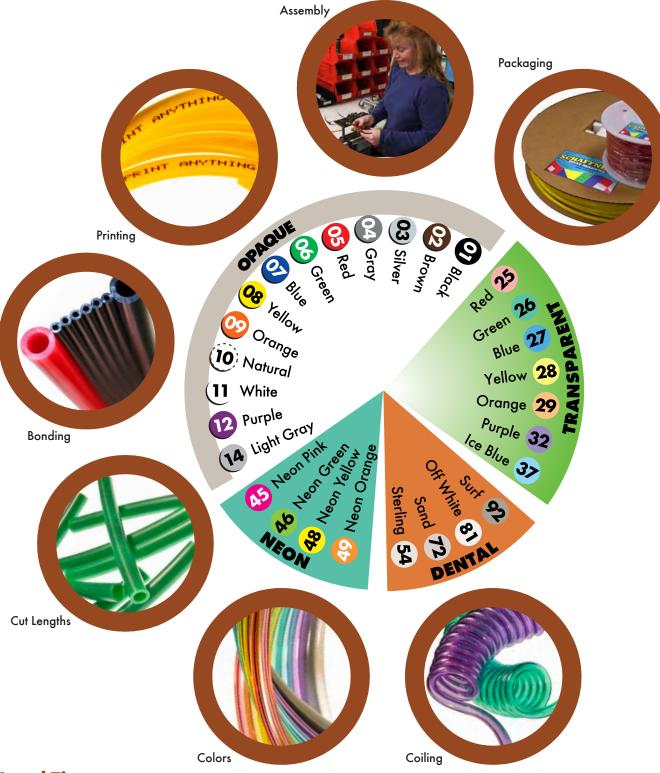
Freelin-Wade can print your custom specs on any order over 5,000 feet for free, or a nominal charge for smaller orders. The print is usually text but we also have graphics capabilities.

Sizes

Don't see the tube dimensions 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.







Lead Time

irtually 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
- Printing 3 days
- Bonding variation using catalog tubing 2 weeks
- Custom extrusion 3 weeks

Off-Catalog Plastics



If you are looking for something a bit different than our standard tubing resin, call us. We can provide you with a solution to meet your needs. Below is our list of non-catalog polymers, along with some of the properties of each:

Nylon 11 - Semi-Rigid FDA: FDA 21 CFR 177.1500(5.2). This is a Nylon 11 for contact with food.

Nylon 12: Absorbs less moisture than Nylon 6 compounds, while maintaining good chemical resistance. It has a 64D durometer.

Nylon 12 - Semi-Rigid: Has a durometer of 74D and higher working pressures.

PEBAX: This is a special nylon/polyurethane hybrid material.

Polyester: This rigid material has some properties that make it similar to Nylon.

PUR 80A: This material is stiffer than our 70A but more flexible than our 85A.

PUR 80A - NSF: This material is similar to the 80A but the resin complies with NSF 61 (potable water systems).

PUR 80A - Medical: This is a medical grade polyurethane.

PUR 85A - F/R: This is a fire-retardant grade of Polyurethane in 85A durometer.

PUR 90A - F/R: Fire-retardant, similar to above but in the 90A durometer.

PUR 95A - F/R: Fire-retardant, similar to above but in the 95A durometer.

PUR 85A - Ester: Our standard polyurethanes are ether-based polymers. The Ester is slightly better at handling oil but degrades quickly if exposed to water.

PUR 90A - Ester: Similar properties as above but in the 90A durometer.

PUR 95A - Ester: Similar properties as above but in the 95A durometer.

PUR 55D: This Shore-D durometer polyurethane is significantly more stiff than our PUR 95A.

PVC 85A Matte: This is a non-glossy PVC material.

TPE 80A: A thermoplastic alternative to rubber.

Standard Packging Options

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





Not Just our Green Tubing is Green

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

Office:

Employees recycle virtually all paper and other office waste. In addition, we continue to make strides towards going "paperless".

Manufacturing:

We recycle our scrap in-house and 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 regularly drained. Independent tests ensure that no contaminants are released.

Chemicals:

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

Warranty

Freelin-Wade warrants its products against defects of workmanship and/or material for 30 days from the date of sale. Freelin-Wade Company is not liable for consequential or other damages including, but not limited to personal injury, damage, loss, or any other expense directly or indirectly arising from the use of, or inability to use, its products either separately or in combination with other products. All other warranties expressed or implied, whether oral or written, including but not limited to warranties for fitness or merchantability for a particular purpose are expressly excluded.

Though many of the base resins that Freelin-Wade uses comply with various FDA, NSF and other regulations, Freelin-Wade encourages user testing, especially for manufacturers of products and/or devices used in food, drug and biological

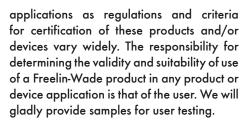
Die Cleaning:

Freelin-Wade utilizes a high temperature, zero emission burn-off oven to remove plastic film left on tooling. This system virtually eliminates any particulates entering the atmosphere.

Contaminated Plastic Materials:

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





This warranty is limited to replacement of the product or an account credit in the amount of the original selling price, at the option of Freelin-Wade Company. All product presumed to be defective must be returned by prepaid transportation to Freelin-Wade Company, together with information describing the product's performance. All returns require prior authorization by Freelin-Wade Company. All specifications are subject to change without notice. While accuracy is thought reliable, no guarantee is expressed or implied.











Fre-Thane® Polyurethane

Specifications

Temperature Range -40°F to +165°F

Vacuum Rating 85A-95A: To 28" Hg. 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

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

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

Any Other Tubing Would Kink

olyurethane 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.

There are two general classes of polyurethane and both are commonly found in the market: ether-base and esterbase. Chemically, these are made from two different polyol alcohols that cause similar, but different reactions in the isocyanate. From the user's standpoint, the esterbased polymer is less expensive. However, it degrades when exposed to moisture. Because of this, we manufacture our Fre-Thane® polyurethane tubing using the etherbased 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. It remains our flasgship product today. It is available in 28 standard 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



Fre-Thane Polyurethane Colors

n order to better serve our customers with even easier ordering and faster deliveries, we've changed the way we stock our tubing. The colors shown for each size of Fre-Thane are promised to be in stock. If you need any of our other standard colors (shown below), there will now be no additional charge, however we will require seven days to fulfill your order.









































Fre-Thane® 95A Polyurethane

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Guaranteed In-Stock Colors	Working 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
1J-157 50' Bag 1L-157 250' Box 1C-157 500' Reel 1B-157 1000' Reel 1A-157 2500' Reel	1/8"	.066"	.030"	① 04 05 05 07 08 10 11 12 14 25 26 27 28	255 PSI	100 PSI	.44	1/4"	B, PI
1J-156 100' Bag 1C-156 500' Reel 1B-156 1000' Reel 1A-156 2500' Reel	5/32"	3/32"	.031"	0) 02 05 03 07 08 05 10 11 12 25 26 27 28 37	210 PSI	85 PSI	.62	3/8"	B, PI
1J-107 100' Bag 1B-107 1000' Reel 1A-107 2000' Reel	3/16"	.107"	.040"	① ⑦ 08 ① 37	220 PSI	90 PSI	.92	3/8"	B, PI
1J-169 100' Bag 1B-169 500' Reel 1A-169 1000' Reel	1/4"	1/8"	.062"	0 6 6 7 8 6 11 25 26 27 29	265 PSI	105 PSI	1.83	1/2"	B, PI
1J-151 100' Bag 1B-151 500' Reel 1A-151 1000' Reel	1/4"	.160"	.045"	① 04 05 03 07 08 07 10 11 25 26 27 28	1 <i>75</i> PSI	70 PSI	1.44	1/2"	B, PI, FX
1J-152 100' Bag 1A-152 500' Reel	3/8"	.245"	.065"	0 05 05 07 08 10 11 25 27 28 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"	000000000000000000000000000000000000000	155 PSI	60 PSI	4.83	1-1/8"	B, PI
1J-166 50' Bag 1A-166 250' Reel	1/2"	.320"	.090"	000002	175 PSI	70 PSI	5.77	1-1/8"	B, PI
1J-163 50' Bag 1A-163 200' Reel	9/16"	3/8"	.094"	0 00002	155 PSI	60 PSI	6.85	1-3/8"	B, FX
1A-176 150' Reel 1E-176 Cut Length	3/4"	.467"	.142"	0 0002	175 PSI	70 PSI	13.47	1-1/2"	B, FX

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.

								Metri	c Sizes
Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Wall mm	Guaranteed In-Stock Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-171 100' Bag 1C-171 500' Reel 1B-171 1000' Reel 1A-171 2500' Reel	3	1.8	.6	0 0	230 PSI	90 PSI	.35	6.4 mm	B, PI
1J-156 100' Bag 1C-156 500' Reel 1B-156 1000' Reel 1A-156 2500' Reel	4	2.4	.8	① (4 (5 (5 (7 (8 (7 (1) 1) 1) 2 25 (26 (27 28 37	210 PSI	85 PSI	.62	9.5 mm	B, PI
1J-158 100' Bag 1B-158 500' Reel 1A-158 1000' Reel	6	4	1	0 05 06 07 08 09 10 11 25 27 37	160 PSI	65 PSI	1.21	12.7 mm	B, PI
1J-159 100' Bag 1A-159 500' Reel	8	5	1.5	0 05 07 08 10 11 25 27 37	190 PSI	75 PSI	2.36	19 mm	B, PI
1J-160 50' Bag 1A-160 500' Reel	10	6.5	1.75	0 000000	170 PSI	70 PSI	3.51	22.2 mm	B, PI
1J-161 50' Bag 1A-161 250' Reel	12	8	2	0 00000000000000000000000000000000000	155 PSI	60 PSI	4.83	28.6 mm	B, PI
1J-162 50' Bag 1A-162 200' Reel	16	11	2.5	o	150 PSI	60 PSI	4.85	76.2 mm	B, PI
Variations Available	e:			Coiling • Colors • Cutting	• Bondi	ng • Print	ing • F	Packaging •	Sizes

Fre-Thane® 90A Polyurethane

Part Number & Packaging Color Code Unit Size		ID	Wall	Guaranteed In-Stock Colors	Working 75°F/25°C	Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-132 100' Ba 1B-132 500' Re 1A-132 1000' Re	el 1/4"	.159"	.046"	① 07 08 10 14 25 27	135 PSI	55 PSI	1.43	5/8"	В
1J-045- 100' Ba 1B-045- 500' Re 1A-045- 1000' Re	el 1/4"	.170"	.040"	o ®	11 <i>5</i> PSI	45 PSI	1.29	3/4"	B Low Pressure Only
1J-153 100' Ba 1A-153- 1000' Re	1/4"	3/16"	.031"	10	90 PSI	35 PSI	1.06	1-1/8"	B Low Pressure Only
1J-005- 100' Ba 1B-005- 250' Re 1A-005- 500' Re	el 3/8"	.245"	.065"	00000112527	125 PSI	50 PSI	3.1	3/4"	В
1J-111- 50' Ba	1/2"	3/8"	.062"	000	90 PSI	35 PSI	4.2	2"	B Low Pressure Only
Variations Availab	le:			Coiling • Colors • Cutting • Bo	onding • I	Printing •	Pack	aging	Sizes

Fre-Thane® 85A Polyurethane

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Guaranteed In-Stock Colors	Working 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
1J-013 1L-013 1C-013 1 1B-013 1	250' Box 500' Reel	1/8"	.066"	.030"	① ② 4 05 06 ② 08 02 05 (1) (2) 14 25 26 27 28 29 32 45 46	135 PSI	55 PSI	.43	3/16"	В
1J-134 1C-134 1A-134 2	500' Reel	5/32"	3/32"	.031"	0 0	115 PSI	45 PSI	.60	3/8"	В
1J-030 1C-030 1 1B-030 1	500' Reel	5/32"	5/64"	.039"	0 660002	1 <i>55</i> PSI	60 PSI	.70	3/8"	В
1J-194 1B-194 1A-194 2	500' Reel	3/16"	1/8"	.031"	0 0	85 PSI	35 PSI	.74	1/2"	B Low Pressure Only
1J-025 1D-025 1B-025 1	100' Box 500' Reel	1/4"	1/8"	.062"	① (4 (5 (6 (7 (8 (9 10 1) 25 (26 27 28	145 PSI	60 PSI	1.8	1/2"	В
1J-149 1A-149	100' Bag 500' Reel	5/16"	3/16"	.062"	0 0	110 PSI	45 PSI	2.4	5/8"	B Low Pressure Only
	100' Bag 500' Reel	3/8"	1/4"	.062"	10 25 26 27	90 PSI	35 PSI	3.0	3/4"	В
Variations A	Available	:			Coiling • Colors • Cutting • Bo	nding • I	Printing •	Pack	aging •	Sizes

Fre-Thane® 70A Polyurethane

	Packaging Unit Size	OD	ID	Wall	Guaranteed In-Stock Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-133 1B-133 1A-133 1		1/4"	1/8"	.062"	① 10 14 25 26 27 29	60 PSI	30 PSI	1.69	1/2"	В
1J-170 1A-170	100' Bag 500' Reel	3/8"	1/4"	.062"	0 0	50 PSI	25 PSI	2.82	3/4"	В
Variations A	Available				Coiling • Colors • Cutting • Bo	onding •	Printing •	Packo	aging •	Sizes

reelin-Wade's non-reinforced flexible PVC uses a non-phthalate plasticizer. We pioneered the use of this environmentallyfriendly material in the plastic tubing industry.

Freelin-Wade's PVC has a smooth interior and exterior which prevents sediment accumulation, making it well-suited for the food & beverage, medical and pharmaceutical industries.

Our reinforced PVC hose has 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.

Flexible PVC Colors

Flexible PVC is stocked only in clear. If you need any of our non-reinforced PVC in one of our other standard colors (shown below), there will now be no additional charge. We will however, require three weeks to fulfill your order.





Flexible PVC

Specifications

Temperature Range All Diameters: -30°F to +150°F

Vacuum Rating Reinforced PVC: To 18" Hg.

Hardness 80A Durometer

Working Pressure 3:1 Safety Factor

Resin Compliance
FDA for Food Contact
CA Prop. 65
*Meets USPVI
Testing Requirements

Suggested Fittings

Non-Phthalate Polyvinyl Chloride: PVC

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Guaranteed In-Stock Color		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-700-10*	100' Bag	1/8"	1/16"	.031"	10	145 PSI	20 PSI	.51	3/8"	В
1A-700-10*	2500' Reel	1/0	1/10	.031	:U	145 P31	20 P31	.51	3/0	D
1J-701-10*	100' Bag	1/4"	1/8"	.062"	10	1 / F DCI	25 PSI	_	1 /0"	n
1A-701-10*	1000' Reel	1/4"	1/8"	.062"	10/	165 PSI	25 PSI	2	1/2"	В
1J-703-10*	100' Bag	E /1 / II	0 /1 / 11	0.4011		110 001	1.5 DCI	0.7	5 /OII	
1A-703-10*	500' Reel	5/16"	3/16"	.062"	10	110 PSI	15 PSI	2.6	5/8"	В
1J-704-10*	100' Bag	0 (011	2 / 48	0.40"	<i>2</i> 2.	100 001	15 001	0.05	7 (0"	
1A-704-10*	500' Reel	3/8"	1/4"	.062"	10	100 PSI	15 PSI	3.25	7/8"	В
1J-705-10	100' Bag	1/2"	3/8"	.062"	10	70 PSI	10 PSI	4.55	1-3/4"	В
1J-706-10	100' Bag	3/4"	1/2"	.125"	10	100 PSI	15 PSI	13.01	1-1/4"	В
Variations	. Available	e:			Colors •	Cutting •	Printing •	Pack	aging •	Sizes

Reinforced Polyvinyl Chloride: PVC

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Available Only in Clear		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-750-10	100' Length	.438"	1/4"	.094"	10	250 PSI	125 PSI	5.38	1"	В
1J-751-10	100' Length	.594"	3/8"	.110"	10	225 PSI	110 PSI	8.83	1-1/4"	В
1J-752-10	100' Length	.750"	1/2"	.125"	10	200 PSI	100 PSI	13.01	2-1/4"	В
1J-753-10	100' Length	1.025"	3/4"	.137"	10	150 PSI	75 PSI	20.32	3-1/4"	В
1J-754-10	100' Length	1.312"	1"	.156"	10	125 PSI	60 PSI	30.01	5"	В
1J-755-10	100' Length	1.656"	1-1/4"	.203"	10	100 PSI	50 PSI	49.11	6-1/2"	В
1J-756-10	100' Length	1.937"	1-1/2"	.218"	10	100 PSI	50 PSI	62.52	8-1/2"	В
1J-757-10	100' Length	2.5"	2"	.250"	10	75 PSI	35 PSI	93.66	10"	В
Variations	s Available	:				Cutting •	Printing •	Pack	aging •	Sizes

Polyethylene, Polypropylene & Liquiflex−POE™

Specifications

Temperature Range LLDPE & Liquiflex:

-40°F to +150°F PP:

-100°F to +400°F

Vacuum Rating

All: To 28" Hg.

Diameter Tolerance LLDPE: ±.004"

Liquiflex & PP: ±.005"

Hardness

LLDPE: 50 Shore D Liquiflex: 92A PP: 95R

Tube Markings LLDPE & Liquiflex:

FW Specifications PP: None

Working Pressure LLDPE & Liquiflex:

3:1 Safety Factor PP: 4:1 Safety Factor

Resin Compliance

LLDPE: FDA, NSF51 Liquiflex & PP: FDA

Linear Low Density Polyethylene - LLDPE

LDPE's greatest advantage over low density polyethylene is its superior environmental stress crack resistance (ESCR). 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 comply with FDA regulation 21 CFR 177.1520(c) for food contact applications. Freelin-Wade has chosen to standardize on linear low density polyethylene and no longer offers low density polyethylene.

Features

- Greater tensile strength
- High burst pressure
- Superior stress and crack resistance
- Tasteless and odorless

- Puncture resistance
- Impermeable to gasses and moisture
- Superior dielectric properties
- Lightweight
- * Due to LLDPE manufacturing restrictions, color variations require a 3,000 foot minimum.

Polypropylene

Defies staining, holds out moisture & resists stress cracking. Our stock color is bright white but we can match virtually any color as a variation. When colored, the polypropylene holds its color extremely well in all kinds of environments, including under UV light sources, like bright sunlight. Our polypropylene plastic tubing is both extremely strong and lightweight. The tubing is available coiled, cut to length and in your requested packaging.



Liquiflex-POE™

Similar to LLDPE with:

- Greater flexibility
- Outstanding fluid handling

- Makes an excellent coil
- Can be bonded

Freelin-Wade has developed a new polyolefin tube that is more flexible than the polyethylene that you've seen before. It has all of the chemical resistant properties of LLDPE and is an excellent choice for conveying liquids. Note that it has low pressure ratings, particularly in warm environments.

Liquiflex-POETM

1J-961 100' Bag 1C-961 500' Reel 1								
1A-961 1000' Reel	/4" 1/8"	.062"	0000	125 PSI	75 PSI	1.52	.75"	B, PI, C
1J-962 100' Bag 1C-962 500' Reel 1, 1A-962 1000' Reel	/4" .170"	.040"	0000	80 PSI	20 PSI	1.08	1.375"	B, PI, C
1J-963 100' Bag 1A-963 500' Reel 3,	/8" .245"	.062"	0000	75 PSI	35 PSI	2.56	1.5"	B, PI, C
1J-964 50' Bag 1A-964 250' Reel	/2" 3/8"	.062"	0000	60 PSI	25 PSI	3.52	2.75"	B, PI, C

Variations Available: Coiling • Colors • Cutting • Bonding • Printing • Packaging • Sizes

Polypropylene

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-051 100' Bag 1A-051 1000' Reel	1/4"	.170"	.040"	(II)	325 PSI	150 PSI	1.5	1.25"	PI, C
1J-052 100' Bag 1A-052 1000' Reel	3/8"	1/4"	.063"	\mathfrak{v}	350 PSI	135 PSI	3.0	1.75"	PI, C
1J-053 100' Bag 1A-053 1000' Reel	1/2"	3/8"	.063"	11)	250 PSI	125 PSI	4.0	3.25	PI, C
Variations Available	:			Coiling • Col	ors • Cutt	ing • Pac	kagin	g • Jack	ceting

Polyethylene (Linear Low Density: LLDPE)

Part Number & Packag Color Code Unit S	jing ize	OD	ID	Wall	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-109 100' 1L-109 250' 1C-109 500' 1B-109 1000' 1A-109 2500'	Box Reel Reel	1/8"	.062"	.031"	0 00000000000000000000000000000000000	305 PSI	120 PSI	.40	1/2"	PI, C
1J-189 100' 1L-189 500' 1B-189 1000' 1A-189 2500'	Box Reel Reel	5/32"	.106"	.025"	0 68986	175 PSI	70 PSI	.46	1"	PI, C
1J-048 100' 1B-048 500' 1A-048 1000'	Reel	1/4"	.170"	.040"	000000000000000000000000000000000000000	200 PSI	80 PSI	1.2	1-1/4"	PI, C
1J-077 100' 1A-077 500'	•	5/16"	.187"	.062"	0 0500000	230 PSI	90 PSI	2.5	1-1/2"	PI, C
1J-074 100' 1A-074 500'	Bag	3/8"	.250"	.062"	000000000000000000000000000000000000000	190 PSI	75 PSI	2.76	2"	PI, C
1J-076 100' 1A-076 250' 1AA-076 500'	Reel	1/2"	.375"	.062"	0 00000000000000000000000000000000000	135 PSI	55 PSI	3.87	2-1/2"	PI, C
1A-086 100' 1AA-086 300'		5/8"	.500"	.062"	00	100 PSI	40 PSI	5	3"	PI, C
									Metric	Sizes
Part Number & Packag Color Code Unit S		OD mm	ID mm	Wall mm	Standard Colors	Working 75°F/25°C	Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-189 100' 1L-189 250' 1C-189 500' 1B-189 1000' 1A-189 2500'	Box Reel Reel	4	2.7	.65	0 66 67 68 10	175 PSI	70 PSI	.46	25.2 mm	PI, C
1J-071 100' 1B-071 500' 1A-071 1000'	Reel	6	4	1	000	1 <i>75</i> PSI	70 PSI	1.1	31.8 mm	PI, C
1J-072 100' 1A-072 500'		8	6	1	00000	140 PSI	55 PSI	1.5	38 mm	PI, C
1J-073 100'	•	10	8	1	000	115 PSI	45 PSI	2.1	51 mm	PI, C
1J-075 100' 1A-075 250' 1AA-075 500'	Bag Reel	12	9	1.5	000	135 PSI	55 PSI	3.44	63 mm	PI, C
Variations Avail	able:				Colors • (Cutting •	Printing •	Pack	aging •	Sizes

Nylon

Specifications

Temperature Range -60°F to +200°F

Vacuum Rating To 28" Hg

Diameter Tolerance +.002"/ -.004" +.051 mm/ -.1 mm

Hardness

78 Rockwell R

Tube Markings FW Specifications

Working Pressure 4:1 Safety Factor

UV Stabilized

Resin Compliance Meets UL94HB **Testing Requirements**

Suggested Fittings Push-In, Compression

cientists at DuPont's Experimental Station in Delaware invented nylon in 1931. It was invented as a synthetic replacement for silk. Heralded as "the miracle fiber" because unlike previous manufactured fibers, 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 synonomous with "stockings."*

There are five main formulas of nylon: Nylon 6/6, Nylon 6, Nylon 6/12, Nylon 11, and Nylon 12. Freelin-Wade manufactures nylon tubing from a variety of resins and there are any number of variations possible. We're happy to match any color you need, configure a coil, bond multiple tubes, print it and cut it to length. Freelin-Wade can make a nylon 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 Colors

e stock Nylon tubing in a limited number of colors. If you need any of our other standard colors (shown below), there will be no additional charge, however we will require three weeks to fulfill your order.



















Bend Radius

Working Pressure 75°F/25°C 150°F/65°C

1J-247 2						75°F/25°C	150°F/65°C	100'	Radius	9
	ŭ	1/8"	.079"	.023"	0 0	420 PSI	250 PSI	.35	3/8"	PI, C
1J-200										
1C-200 1 1B-200 1		1/8"	.093"	.016"	00 05 00 07 08 10	270 PSI	160 PSI	.25	1/2"	PI, C
1A-200 2	2500' Reel									
1J-201 1C-201										
1B-201 1	000' Reel	5/32"	.106"	.025"	0) 03 05 06 07 08 09 10 12	350 PSI	210 PSI	.51	1/2"	PI, C
1A-201 2 1J-202										
1B-202		3/16"	.138"	.025"	000000000000000000000000000000000000000	260 PSI	160 PSI	.55	5/8"	PI, C
1A-202 2										
1J-214 1 1A-214 1		1/4"	.125"	.062"	0 ®	590 PSI	350 PSI	1.77	3/8"	PI, C
1J-203				0.40	0) 03 05 00 07 08 09 10				0.7.48	
1B-203 1A-203 1		1/4"	.170"	.040"		330 PSI	200 PSI	1.27	3/4"	PI, C
1J-204	100' Bag									
1B-204 1 1A-204 1		1/4"	.180"	.035"	0000000000	290 PSI	170 PSI	1.13	1"	PI, C
1J-205	100' Bag	5/16"	.232"	.040"	000000000000000000000000000000000000000	240 PSI	140 PSI	1.64	1-1/2"	PI, C
1A-205		<u> </u>							,	, -
1A-206	•	3/8"	.275"	.050"	0 05000000	250 PSI	150 PSI	2.45	1-1/2"	PI, C
1J-207 1A-207	•	1/2"	.375"	.062"	0 0500000000	240 PSI	140 PSI	4.12	2-1/4"	PI, C
1AA-207 <u>-</u>		1/2	.07.5	.002		240101	140101	7,12	2-1/-	11, 0
1J-213 1AA-213	50' Bag 250' Reel	5/8"	1/2"	.062"	00	170 PSI	100 PSI	5.30	3-1/4"	PI, C
1AA-2 10 <u>-</u>										
17A-210 <u>-</u>									Metric	Sizes
Part Number & Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Metric Bend Radius	Sizes Fitting
Part Number & Color Code	Packaging Unit Size 100' Bag				Standard Colors				Bend	
Part Number & Color Code	Packaging Unit Size 100' Bag 500' Reel				Standard Colors				Bend	
Part Number & Color Code 1J-246 1C-246 1B-246 1A-246 2	Packaging Unit Size 100' Bag 500' Reel 000' Reel 500' Reel	mm	mm	mm		75°F/25°C	150°F/65°C	100'	Bend Radius	Fitting
Part Number & Color Code 1J-246 1 1C-246 1 1A-246 2 1J-201	Packaging Unit Size 100' Bag 500' Reel 000' Reel 500' Reel 100' Bag	3	mm 1.8	.6	0 0	75°F/25°C 410 PSI	150°F/65°C 240 PSI	.33	Bend Radius	Fitting PI, C
Part Number & Color Code 1J-246 1C-246 1B-2462 1J-201 1C-201 1B-2011	Packaging Unit Size 100' Bag 500' Reel 000' Reel 500' Reel 100' Bag 500' Reel 000' Reel	mm	mm	mm		75°F/25°C 410 PSI	150°F/65°C	.33	Bend Radius	Fitting PI, C
Part Number & Color Code 1J-246 1B-246 1A-246 1J-201 1B-201 1A-201	Packaging Unit Size 100' Bag 500' Reel 500' Reel 100' Bag 500' Reel 000' Reel 500' Reel	3	1.8	.6	00 00 00 00 00 00 00 00 00 00 00 00	75°F/25°C 410 PSI 350 PSI	240 PSI 210 PSI	.33	Bend Radius 6.3 mm	PI, C
Part Number & Color Code 1J-246 1 1C-246 1 1A-246 2 1J-201 1 1C-201 1 1A-201 2 1J-241 1 1A-241 1	Packaging Unit Size 100' Bag 500' Reel 500' Reel 100' Bag 500' Reel 000' Reel 500' Reel 100' Bag 000' Reel	3	mm 1.8	.6	0 0	75°F/25°C 410 PSI	150°F/65°C 240 PSI	.33	Bend Radius 6.3 mm	PI, C
Part Number & Color Code 1J-246 1 1C-246 1 1A-246 2 1J-201 1 1C-201 1 1A-201 2 1J-241 1 1A-241 1 1J-242	Packaging Unit Size 100' Bag 500' Reel 500' Reel 100' Bag 500' Reel 000' Reel 500' Reel 100' Bag 000' Reel	3	1.8	.6	00 00 00 00 00 00 00 00 00 00 00 00	75°F/25°C 410 PSI 350 PSI	240 PSI 210 PSI	.33	Bend Radius 6.3 mm 12.7 mm 9.5 mm	PI, C
Part Number & Color Code 1J-246 1C-246 1B-2462 1J-201 1C-201 1B-2011 1A-2411 1J-242 1J-2431	Packaging Unit Size 100' Bag 500' Reel 500' Reel 100' Bag 500' Reel 000' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag	3 4 5 6	1.8 2.7 3	.6 .65	000 0000000000000000000000000000000000	350 PSI 420 PSI 340 PSI	240 PSI 210 PSI 250 PSI 200 PSI	.33 .51 .94	Bend Radius 6.3 mm 12.7 mm 9.5 mm 17 mm	PI, C PI, C PI, C
Part Number & Color Code 1J-246	Packaging Unit Size 100' Bag 500' Reel 500' Reel 100' Bag 500' Reel 100' Reel 100' Reel 100' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag 000' Reel	3 4	1.8 2.7	.6 .65	000 0000000000000000000000000000000000	75°F/25°C 410 PSI 350 PSI 420 PSI	240 PSI 210 PSI 250 PSI	.33	Bend Radius 6.3 mm 12.7 mm 9.5 mm 17 mm	PI, C
Part Number & Color Code 1J-246	Packaging Unit Size 100' Bag 500' Reel 500' Reel 100' Bag 500' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag 500' Reel 100' Bag 500' Reel 100' Bag 500' Reel	3 4 5 6	1.8 2.7 3	.6 .65	000 0000000000000000000000000000000000	350 PSI 420 PSI 340 PSI	240 PSI 210 PSI 250 PSI 200 PSI	.33 .51 .94	Bend Radius 6.3 mm 12.7 mm 9.5 mm 17 mm	PI, C PI, C PI, C
Part Number & Color Code 1J-246	Packaging Unit Size 100' Bag 500' Reel 000' Reel 100' Bag 500' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag 500' Reel 100' Bag 500' Reel 100' Bag 500' Reel	3 4 5 6 8 10	1.8 2.7 3 4 6	.6 .65 1 1 1	000 0000000000000000000000000000000000	350 PSI 420 PSI 340 PSI 250 PSI 190 PSI	240 PSI 240 PSI 210 PSI 250 PSI 200 PSI 150 PSI 110 PSI	.33 .51 .94 1.17 1.64 2.11	Bend Radius 6.3 mm 12.7 mm 9.5 mm 17 mm 38 mm 51 mm	PI, C PI, C PI, C PI, C PI, C
Part Number & Color Code 1J-246	Packaging Unit Size 100' Bag 500' Reel 500' Reel 100' Bag 500' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag 000' Reel 100' Bag 500' Reel	3 4 5 6	1.8 2.7 3 4	.6 .65	000 0000000000000000000000000000000000	350 PSI 420 PSI 340 PSI 250 PSI	240 PSI 210 PSI 250 PSI 200 PSI 150 PSI	.33 .51 .94 1.17 1.64 2.11	Bend Radius 6.3 mm 12.7 mm 9.5 mm 17 mm 38 mm	PI, C PI, C PI, C PI, C

Part Number & Color Code

Packaging Unit Size

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

Specifications

Temperature RangeHP: -60°F to +200°F
SS: -40°F to +180°F
DOT: -40°F to +200°F

Vacuum Rating
All: To 28" Hg.

Hardness

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

Tube Markings HP & SS: FW S

HP & SS: FW Specs DOT: DOT Specs

Working Pressure HP & SS: 4:

Safety Factor

UV StabilizedAll: Yes

Resin Compliance Meets UL94HB Testing Requirements

Suggested Fittings Push-In, Compression

High Pressure Nylon

reelin-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

reelin-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 with a tighter bend radius.
- Heat and light stabilized.





D.O.T. Nylon

O.T. tubing is made with Freelin-Wade's Nylon. Type "A" Air Brake tubing is ideal for use on vehicles for instrumentation and pneumatic accessories connected to the air brake system. Type "A" Air Brake tubing is non-reinforced. D.O.T. tubing is available on easy-to-dispense reels. A variety of colors are available. It is heat and light stabilized.

D.O.T. Tubing

Part Number & Packaging Color Code Unit Size	OD	Wall	Standard Colors	Burst Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
1J-220 100' Bag 1A-220 2000' Reel	1/8"	.023	000000	1000 PSI	.34	3/8"	PI, C
1J-221 100' Reel 1A-221 2000' Reel	5/32"	.032	0 00000000	1200 PSI	.57	1/2"	PI, C
1J-222 100' Bag 1A-222 2000' Reel	3/16"	.036	00000000	1200 PSI	.77	3/4"	PI, C
1J-223 100' Bag 1A-223 1000' Reel	1/4"	.040	0 000000000	1200 PSI	1.21	1"	PI, C
1J-225 100' Bag 1A-225 500' Reel	5/16"	.040	00000000	1000 PSI	1.57	1-1/4"	PI, C
Variations Available	e:		Coiling • Colors • Cutting	• Bonding • Pri	nting • P	ackaging	• Sizes

Nylon - High Pressure

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
1J-280-10	100' Bag				, energy				
1B-280-10	500' Reel	1/8"	.073"	.026"	10	800 PSI	.39	5/16"	PI, C
1A-280-10	2500' Reel								
1J-281-10	100' Bag				_				
1B-281-10	500' Reel	3/16"	.109"	.039"	10	800 PSI	.88	7/16"	PI, C
1A-281-10	2000' Reel								
1J-282	100' Bag								
1B-282	500' Reel	1/4"	.150"	.050"	0 0	800 PSI	1.51	9/16"	PI, C
1A-282	1000' Reel				,				
1J-283	100' Bag	3/8"	.225"	07511	a 10	000 DCI	2.20	1"	DI C
1A-283	500' Reel	3/8"	.225	.075"	O 10	800 PSI	3.39	1	PI, C
1A-284-10	250' Reel	1 /0"	2501	075"	10	500 PCI	4.01	0.11	DI C
1AA-284-10	500' Reel	1/2"	.350"	.075"	U.	530 PSI	4.81	2"	PI, C
Variations	Available	:			Coiling • Colors • C	utting • Printing	• Pack	aging •	Sizes





Nylon 11 - Super Soft

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors	Working 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
1J-260 100' Bag 1A-2602500' Reel	1/8"	.093"	.016"	0 0	200 PSI	120 PSI	.25	9/16"	PI, C
1J-261 100' Bag 1A-2612500' Reel	5/32"	.106"	.025"	0 0	220 PSI	130 PSI	.45	9/16"	PI, C
1J-264 100' Bag 1A-2641000' Reel	1/4"	.180"	.035"	o ®	180 PSI	110 PSI	1.04	1"	PI, C
1J-265 100' Bag 1A-265 500' Reel	5/16"	.232"	.040"	o •	170 PSI	100 PSI	1.52	1-1/4"	PI, C
1J-266 100' Bag 1A-266 500' Reel	3/8"	.275"	.050"	0 0	160 PSI	90 PSI	2.26	1-5/8"	PI, C
1J-267 100' Bag 1AA-267 500' Reel	1/2"	3/8"	.062"	0 0	140 PSI	80 PSI	3.80	2-1/2"	PI, C
								Metric	Sizes
Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working 75°F/25°C		lbs./ 100'	Metric Bend Radius	Sizes Fitting
				Standard Colors				Bend	
Color Code Unit Size 1J -271 100' Bag	mm	mm	mm		75°F/25°C	150°F/65°C	100'	Bend Radius	Fitting
Color Code Unit Size 1J -271- 100' Bag 1A-271- 1000' Reel 1J-272- 100' Bag	mm 5	3	mm 1	0 0	75°F/25°C 310 PSI	150°F/65°C 180 PSI	.95	Bend Radius	Fitting PI, C
Color Code Unit Size 1J -271 100' Bag 1A-271 1000' Reel 1J-272 1000' Reel 1J-273 100' Bag	5 6	3 4	1 1	0 :0	75°F/25°C 310 PSI 240 PSI	180 PSI 140 PSI	.95 1.10	Bend Radius 12.7 19.0	PI, C
Color Code Unit Size 1J -271- 100' Bag 1A-271- 1000' Reel 1J-272- 100' Bag 1A-272- 1000' Reel 1J-273- 100' Bag 1J-273- 500' Reel 1J-274- 100' Bag	5 6 8	3 4 6	1 1 1	0	75°F/25°C 310 PSI 240 PSI 160 PSI	150°F/65°C 180 PSI 140 PSI 100 PSI	.95 1.10 1.70	Bend Radius 12.7 19.0 23.8	PI, C PI, C PI, C

Kynar[®] PVDF & FEP

Specifications

Temperature Range -40°F to +180°F

Vacuum Rating To 28" Hg

Diameter Tolerance +.005"

Hardness

65 Shore D

Tube Markings

Working Pressure 4:1 Safety Factor

Resin Compliance FDA, USPVI CFR 177.2600 UL 94 VO, NSF-51

Suggested Fittings Push-In, Compression

Kynar[®] PVDF

ynar® 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 a flexible grade.

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
- Aromatics
- Halogen
- Radiation

Kynar

- Alcohol Mild Bases
- Fungus
- UV Light

- Aliphatics
- Chloride
- Out-gassing
- Sterilizable by Gamma Radiation or Ozone.
- Resists fungal growth per MS 810B, Method 508 testing.







Specifications

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

Vacuum Rating To 28" Hg

Diameter Tolerance <3/16": ±.004" >1/8": ±.005"

Hardness

57 Shore D

Tube Markings

Working Pressure 4:1 Safety Factor

Resin Compliance FDA Food Contact UL 94 VO, USP VI

Suggested Fittings Flare, Compression, Push-In

ASTM D 3296-03

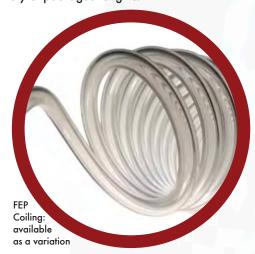
Fluorinated Ethylene Propylene – FEP

reelin-Wade's FEP tubing (compare to DuPont's® Teflon®) is one of the most durable and versatile flexible plastic tubes 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.

Applications include chemical processing, laboratory applications, medical devices, water purification, food processing and automotive paint spray.

Features

- 100% virgin grade high performance resins designed to resist stress cracking
- Low permeability
- High thermal stability
- Non-flammable/Self-extinguishing
- · Superior electrical insulation properties
- Chemically inert to most industrial chemicals and solvents



Kynar® PVDF

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors	Working 75°F/25°C	Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-681 100' Bag 1A-6812500' Reel	1/8"	1/16"	.030"	10	300 PSI	125 PSI	0.71	3/16"	PI, C
1J-682 100' Bag 1B-682 500' Reel 1A-6821000' Reel	1/4"	.170"	.040"	(0)	165 PSI	70 PSI	2.03	3/4"	PI, C
1J-683 100' Bag 1A-683 500' Reel	3/8"	1/4"	.062"	10	165 PSI	70 PSI	4.72	1-1/4"	PI, C
1J-684 100' Bag 1A-684 250' Reel 1AA-684 500' Reel	1/2"	3/8"	.062"	(0)	130 PSI	55 PSI	6.61	2-1/8"	PI, C
								Metric	Sizes
Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Wall mm	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Metric Bend Radius	Sizes Fitting
				Standard Colors	75°F/25°C	150°F/65°C		Bend	
Color Code Unit Size 1J-692 100' Bag 1B-692 500' Reel	mm	mm	mm		75°F/25°C	150°F/65°C	1.88	Bend Radius	Fitting PI, C
Color Code Unit Size 1J-692 100' Bag 1B-692 500' Reel 1A-692 1000' Reel 1J-693 100' Bag	mm 6	mm 4	mm 1	(0)	75°F/25°C 195 PSI	150°F/65°C 115 PSI	1.88 2.63	Bend Radius 15.9 mm	PI, C

Fluorinated Ethylene Propylene - FEP

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors	Working Pressure 75°F/25°C 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-900-10	100' Bag								
1C-900-10	500' Reel	1 /01	1/16"	020"	42.	300 PSI	1.0	1/2"	PI, FX
1B-900-10	1000' Reel	1/8"	1/10"	.030"	10	300 P31	1.0	1/2"	С
1A-900-10	2500' Reel								
1J-901-10	100' Bag								D. EV
1B-901-10	500' Reel	1/4"	3/16"	.030"	10	150 PSI	2.0	1"	PI, FX C
1A-901-10	2500' Reel								C
1J-902-10	100' Bag	1 / 4"	1 /0"	.062"	40	300 PSI	4.0	1/2"	PI, FX
1A-902-10	1000' Reel	1/4"	1/8"	.062"	10	300 P31	4.0	1/2"	С
1J-903-10	100' Bag	2 /01	1 / 411	0/0"		207 DCI		1"	PI, FX
1A-903-10	1000' Reel	3/8"	1/4"	.062"	10	207 PSI	6.0	1"	С
1J-904-10	100' Bag	1 /0"	2 /011	0/0"	10	1.5.5 DCI	0.5	2"	PI, FX
1A-904-10	500' Reel	1/2"	3/8"	.062"	10	155 PSI	8.5	Ζ	С

								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	lbs./ 100'	Bend Radius	Fitting
1J-941-10 1A-941-10	100' Bag 2500' Reel	4	2	1	10	450 PSI	1.88	1.5"	PI, FX C
1J-942-10 1A-942-10	100' Bag 2500' Reel	6	4	1	10	350 PSI	2.63	1.75"	PI, FX C
1J-943-10 1A-943-10	100' Bag 1500' Reel	8	6	1	10	250 PSI	4.07	2.5"	PI, FX C
1J-944-10 1A-944-10	100' Bag 1500' Reel	10	8	1	(0)	200 PSI	2.63	2.75"	PI, FX C
Variation	s Available	:			Coil	ing • Cutting • Pac	kagin	g • Jacl	keting

Multi-Colored Ribbon (MCR)

Specifications

Temperature Range -40°F to +165°F

Vacuum Rating

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

Diameter Tolerances

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

Tube Markings

None

Working Pressure 3:1 Safety Factor

UV Stabilized 95A & 85A

Resin Compliance

95A: NSF61 Meets UL94HB 90A: NSF61, FDA

85A: NSF61 Meets UL94HB USPVI

70A: Meets UL94HB

Suggested Fittings

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

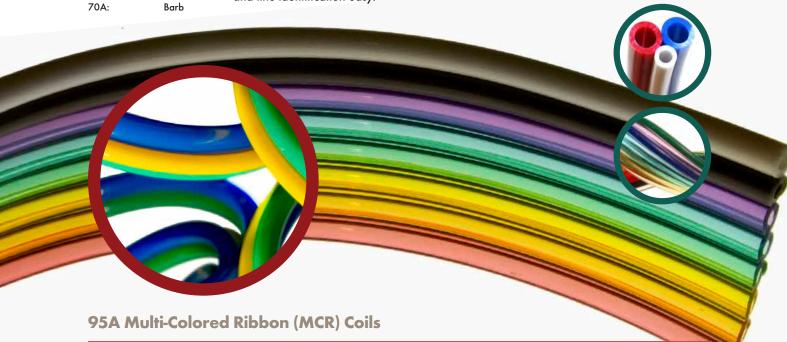
MCR is available in a wide range of stock configurations which are listed to the right. In addition, variations are easy. Freelin-Wade will make MCR to suit your needs. Our unique manufacturing process enables us to bond up to 20 tubes, mixing and matching colors, sizes and configurations.

Features

Common MCR Variations

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.



Part Number & Color Code	OD	ID	Tail Length	Color Arrangement		Pressure 150°F/65°C	Material Length	Working Length	Retracted Length	Coil ID
2MC-156-5	5/32"	3/32"	8"	0507	190 PSI	75 PSI	5'	3.75'	3.75"	1"
2MC-156-10	3/32	3/32	0	3	190 P31	/5 P3I	10'	7.5'	9"	1"
2MC-151-5	1/4"	.160"	8"	05 07	155 PSI	60 PSI	5'	3.75'	5.6"	1"
2MC-151-10	1/4	.100	0	5	133 131	00 131	10'	7.5'	13.25"	1"
2MC-152-5	3/8"	.245"	8"	0507	150 PSI	60 PSI	5'	3.75'	5"	1.75"
2MC-152-10	3/0	.245	0		130 F31	00 131	10'	7.5'	11.5"	1. <i>75</i> "

Variations Available: Coiling • Colors • Cutting • Packaging • Sizes

85A Standard Multi-Colored Ribbon (MCR)

Part Number & Color Code	Packaging Unit Size	OD	ID	Color Arrangement	Working Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
2M-013-01-10	100' Bag	1/8"	.066"	000	135 PSI	.86	3/16"	В
2ME-013-01-10	Cut Length	1/0	.000		133 131	.00	3/10	D
4M-013-26-28-29-25	100' Bag	1/8"	.066"	26 28 29 25	135 PSI	1.72	3/16"	В
4ME-013-26-28-29-25	Cut Length	1/0	.000	20 20 27 25	133131	1.7 2	3/10	
6M-013-06-07-05-08-09-12	100' Bag	1/8"	.066"	060705080912	135 PSI	2.58	3/16"	В
6ME-013-06-07-05-08-09-12	Cut Length	1/0	.000		133 131	2.50	3/10	D
8M-013-11-04-32-27-26-28-29-25	100' Bag			(11)(24)(32)(27)(26)(28)(29)(25)				
8ME-013-11-04-32-27-26-28-29-25	Cut Length	1/8"	.066"		135 PSI	3.44	3/16"	В
8M-013-10-10-10-10-10-10-10	100' Bag	,		10/10/10/10/10/10/10/10			,	
8ME-013-10-10-10-10-10-10-10	Cut Length							
2M-025-01-10	100' Bag	1/4"	1/8"	00	145 PSI	3.60	1/2"	В
2ME-025-01-10	Cut Length	1/4	1/0		145 131	3.00	1/2	ь
4M-025-26-28-29-25	100' Bag			26 28 29 25				
4ME-025-26-28-29-25	Cut Length							
4M-025-01-01-01	100' Bag	1/4"	1/8"	0000	145 PSI	7.20	1/2"	В
4ME-025-01-01-01	Cut Length	,	,	9999			,	
4M-025-10-10-10	100' Bag			10/10/10/10				
4ME-025-10-10-10	Cut Length			10/10/10/10/				
6M-025-06-07-05-08-09-12	100' Bag			6607 05 08 09 12				
6ME-025-06-07-05-08-09-12	Cut Length	1/4"	1/8"		145 PSI	10.80	1/2"	В
6M-025-10-10-10-10-10	100' Bag	., -	., 0	an an an an an an	143 1 01	10.00	.,_	
6ME-025-10-10-10-10-10	Cut Length			10/10/10/10/10				
8M-025-11-04-32-27-26-28-29-25	100' Bag	1 / 411	1 /0"		145 PSI	1.4.40	1 /0"	
8ME-025-11-04-32-27-26-28-29-25	Cut Length	1/4"	1/8"	11) 04 32 27 26 28 29 25	143 731	14.40	1/2"	В

95A Standard Multi-Colored Ribbon (MCR)

Part Number & Color Code	Packaging Unit Size	OD	ID	Color Arrangement	Working Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
2M-157-05-07	100' Bag	1/8"	.066"	0507	255 PSI	.88	1/4"	B, PI
2ME-157-05-07	Cut Length	1/0	.000		233 1 01	.00	1/4	Б, 11
4M-157-05-07-11-10	100' Bag	1/8"	.066"	0507(1):10	255 PSI	1.72	1/4"	B, PI
4ME-157-05-07-11-10	Cut Length	1/0	.000		233 1 01	1.7 2	1/4	Б, 11
6M-157-08-06-05-07-11-10	100' Bag	1/8"	.066"	08 06 05 07 11 10	255 PSI	2.60	1/4"	B, PI
6ME-1 <i>57</i> -08-06-0 <i>5</i> -0 <i>7</i> -11-10	Cut Length	1/0	.000		255 1 51	2.00	1/4	Б, 11
8M-157-25-27-08-06-05-07-11-10	100' Bag	1/8"	.066"	25 27 08 06 05 07 11 10	255 PSI	3.52	1/4"	B, PI
8ME-157-25-27-08-06-05-07-11-10	Cut Length	1/0	.000		255 F31	3.32	1/4	Б, ГІ
2M-156-05-07	100' Bag	5/32"	3/32"	0507	210 PSI	1.24	3/8"	B, PI
2ME-156-05-07	Cut Length	3/32	3/32		210131	1.24	3/0	Б, ГТ
4M-156-05-07-11-10	100' Bag	5/32"	3/32"	0507(11)(10)	210 PSI	2.48	3/8"	B, PI
4ME-156-05-07-11-10	Cut Length	3/32	3/32		210131	2.40	3/0	Б, ГІ
6M-156-08-06-05-07-11-10	100' Bag	5/32"	3/32"	08 06 05 07 (1) (10)	210 PSI	3.72	2 /0"	B, PI
6ME-156-08-06-05-07-11-10	Cut Length	3/32	3/32		210 P31	3.72	3/8"	Б, ГІ
2M-151-05-07	100' Bag	1/4"	.160"	65 07	175 PSI	2.88	1/2"	B, PI, FX
2ME-151-05-07	Cut Length	1/4	.100		1/3 /31	2.00	1/2	D, ГІ, ГА
4M-151-05-07-11-10	100' Bag	1/4"	.160"	0507(11)(10)	175 PSI	5.76	1/2"	B, PI, FX
4ME-151-05-07-11-10	Cut Length	1/4	.100		1/5 F31	3.76	1/2	D, РI, ГА
6M-151-08-06-05-07-11-10	100' Bag	1 / 411	.160"	08 06 05 07 (11) 10	175 DCI	0.74	1 /0"	D DI EV
6ME-151-08-06-05-07-11-10	Cut Length	1/4"	.100		175 PSI	8.64	1/2"	B, PI, FX
8M-151-25-27-08-06-05-07-11-10	100' Bag	1 / 411	1.40"	25 27 08 06 05 07 (1) 10	175 DCI	11.50	1 /0"	D DI EV
8ME-151-25-27-08-06-05-07-11-10	Cut Length	1/4"	.160"		175 PSI	11.52	1/2"	B, PI, FX
2M-152-05-07	100' Bag	3/8"	1/4"	65 07	170 PSI	6.30	7/0"	D DI EV
2ME-152-05-07	Cut Length	3/8"	1/4"		1/0 251	0.30	7/8"	B, PI, FX
4M-152-05-07-11-10	100' Bag	2 /0"	1 / 4"	00 00 10 10 10 10 10 10 10 10 10 10 10 1	170 PSI	12.40	7/0"	D DI EV
4ME-152-05-07-11-10	Cut Length	3/8"	1/4"	05071110	170 P31	12.60	7/8"	B, PI, FX
Variations Available:				Coiling • Co	lors • Cutting	• Pack	aging	• Sizes

Static Dissipative Polyurethane

Specifications

Temperature Range -40°F to +165°F

Vacuum Rating To 28" Hg.

Diameter Tolerances ±.005"

Tube Markings

Dissipative Values: per EIA Std 541

Volume Resistivity: 85A: 4x1010 ohms-cm 90A:9.9x109 ohms-cm

Surface Resistivity: 85A: 1x1011 ohms/sq 90A:9.9x109 ohms/sq

Working Pressure 3:1 Safety Factor

Resin Compliance FDA

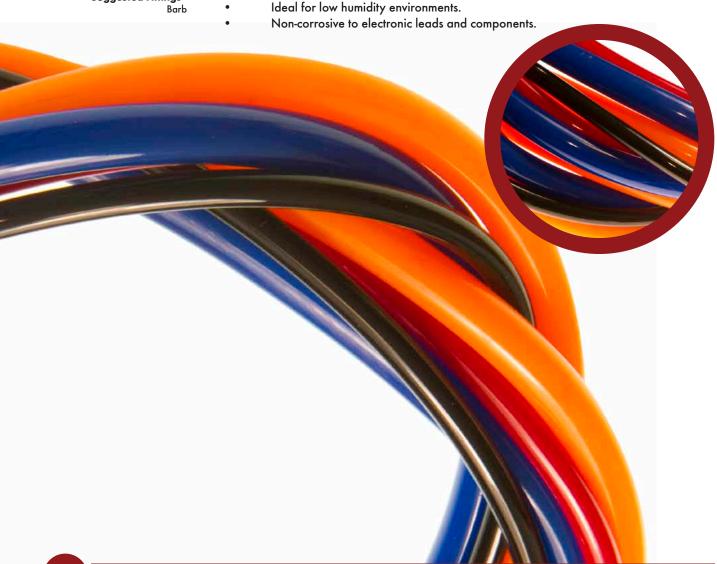
Suggested Fittings Barb

tatic 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.

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.

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.



85A Static Dissipative Polyurethane

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors	Working 75°F/25°C	Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-413 100' Bag 1C-413 500' Reel 1B-413 1000' Reel 1A-413 2500' Reel	1/8"	1/16"	.031"	(3) 81	115 PSI	55 PSI	48	3/16"	В
1J-430 100' Bag 1C-430 500' Reel 1B-430 1000' Reel 1A-430 2500' Reel	5/32"	5/64"	.039"	0) 04 07 09 25 27 28 45 46 81	125 PSI	60 PSI	.74	3/8"	В
1J-425 100' Bag 1B-425 500' Reel 1A-425 1000' Reel	1/4"	1/8"	.062"	(1) 81	120 PSI	60 PSI	1.91	1/2"	В
1J-405 100' Bag 1A-405 500' Reel	3/8"	.245"	.065"	① 81	90 PSI	45 PSI	3.29	3/4"	В
								Metric	Sizes
Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working 75°F/25°C	Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-458 100' Bag 1A-458 1000' Reel	6	4	1	81	70 PSI	35 PSI	1.27	9.5 mm	В
1J-472 100' Bag 1A-472 500' Reel	9	6	1.5	① 81	80 PSI	40 PSI	2.84	19 mm	В
Variations Availabl	e:			Coiling • Colors • Cutting • Bo	onding • I	Printing •	Pack	aging •	Sizes

90A Static Dissipative Polyurethane

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors	Working 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
1J-457-90 100' Bag 1C-457-90 500' Reel 1B-457-90 1000' Reel 1A-457-90 2500' Reel	1/8"	.066"	.030"	o	135 PSI	70 PSI	.44	1/4"	В
1J-486-90 100' Bag 1C-486-90 500' Reel 1B-486-90 1000' Reel 1A-486-90 2500' Reel	5/32"	3/32"	.031"	0) 02 02 02 02 81	105 PSI	50 PSI	.61	3/8"	В
1J-451-90 100' Bag 1B-451-90 500' Reel 1A-451-90 1000' Reel	1/4"	.160"	.045"	000	115 PSI	60 PSI	1.46	3/4"	В
1J-452-90 100' Bag 1A-452-90 500' Reel	3/8"	.245"	.065"	0 00	100 PSI	50 PSI	3.18	1"	В
								Metric	Sizes
Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working 75°F/25°C		lbs./ 100'	Metric Bend Radius	Sizes Fitting
				Standard Colors				Bend	
Color Code Unit Size 1J-486-90 100' Bag	mm	mm	mm		75°F/25°C	150°F/65°C	100'	Bend Radius	Fitting
Color Code Unit Size 1J-486-90- 100' Bag 1A-486-90- 2500' Reel 1J-488-90- 100' Bag	mm 4	2.4	.8	1 0 0 0 0 0 0 0 81	75°F/25°C 105 PSI	50 PSI	.8	Bend Radius 9.5 mm	Fitting B
Color Code Unit Size 1J-486-90 100' Bag 1A-486-90 2500' Reel 1J-488-90 1000' Reel 1J-489-90 100' Bag	4	2.4 4	.8 1	0) 02 05 07 02 81 0) 07 02 81	75°F/25°C 105 PSI 90 PSI	50 PSI 45 PSI	.8 1.3	Bend Radius 9.5 mm 12.7 mm	Fitting B B
Color Code Unit Size 1J-486-90- 100' Bag 1A-486-90- 2500' Reel 1J-488-90- 1000' Bag 1A-488-90- 1000' Reel 1J-489-90- 1000' Reel 1J-489-90- 500' Reel 1J-490-90- 50' Bag	4 6 8	2.4 4 5	.8 1 1.5	0 0 0 0 81 0 0 0 81	75°F/25°C 105 PSI 90 PSI 100 PSI	50 PSI 45 PSI 50 PSI	1.3 2.6 3.9	Bend Radius 9.5 mm 12.7 mm 19 mm	B B

Multi-Bore Polyurethane & Weld Spatter Resistant

Multi-Bore Polyurethane

See page 20 for more information about MCR.

push-in fittings.

Specifications

Temperature Range $-40^{\circ}F$ to $+165^{\circ}F$

Vacuum Rating
To 28" Hg.

Diameter Tolerances ±.005"

Tube Markings None

Working Pressure 3:1 Safety Factor

UV Stabilized

85A

Resin Compliance
See Fre-Thane®
compliances on page 8

Suggested Fittings





ulti-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

If you require more colors than are listed here, consider using our Multi-Colored Ribbon (MCR).

Specifications

Temperature Range -40° F to $+165^{\circ}$ F

Vacuum Rating
To 28" Hg.

Diameter Tolerances ±.005" Inner

Tube Markings FW Specs

Working Pressure 3:1 Safety Factor

Resin Compliance

Outer Jacket: UL94VO Inner Tube: UL94HB

Suggested Fittings Push-In, Compression, Barb

Weld-Spatter Resistant

eld-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.



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.

85A Multi-Bore Polyurethane

Part Number & Packaging Color Code Unit Size	OD	ID	Configuration	Standard Colors	Working Pressure 75°F/25°C 150°F/65°C	lbs./ 100'	Fitting
3J-028 100' Bag 3A-028 1000' Reel	1/8"	.066"	Triple Tube	10 14	125 PSI 50 PSI	1.7	В
4J-026 100' Bag 4A-026 500' Reel	1/8"	.066"	Quad Tube	(ii)	125 PSI 50 PSI	2.2	В
2J-016 100' Bag 2A-016 500' Reel	1/4"	1/8"	Twin Tube	000002	150 PSI 60 PSI	4.1	В
3J-022 50' Bag 3A-022 350' Reel	1/4"	1/8"	Triple Tube	o	150 PSI 60 PSI	6.3	В
4J-023 50' Bag 4A-023 250' Reel	1/4"	1/8"	Quad Tube	00	150 PSI 60 PSI	8.4	В

90A Multi-Bore Polyurethane

Part Number & Packaging Color Code Unit Size	OD	ID	Configuration	Standard Colors	Working Pre 75°F/25°C 15		lbs./ 100'	Fitting
2J-006 100' Bag								
2B-006 1000' Reel	1/8"	1/16"	Twin Tube	0 10 14	190 PSI 7	75 PSI	1.1	В
2A-006 2000' Reel								
2J-013 100' Bag	1/4"	.159"	Twin Tube	14	130 PSI 3	50 PSI	2.9	В
2A-013 500' Reel	., -		1111111000	4	100101			
2J-024 50' Bag	3/8"	1/4"	Twin Tube	00 10	120 PSI 3	50 PSI	6.8	В
2A-024 250' Reel	3/0	1/4	TWIII TODE		120101	30 1 31	0.0	
Variations Available	e:			Coiling • Cutting • Bond	ding • Printing	• Pack	aging	• Sizes



Variations Available:

Also known as Spark-Lin®

Weld-Spatter Resistant

Part Number & Packaging Color Code Unit Size	OD	ID	Standard Colors	Working 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
1J-356-07 _ 100' Bag 1B-356-07 _ 500' Reel 1A-356-07 _ 1000' Reel	5/32"	.093"	0 00008	210 PSI	85 PSI	1.58	3/8"	PI, C B
1J-351-07 _ 100' Bag 1B-351-07 _ 250' Reel 1A-351-07 _ 1000' Reel	1/4"	.160"	0 00000000000000000000000000000000000	175 PSI	70 PSI	2.89	1/2"	PI, C B
1J-352-07 _ 100' Bag 1A-352-07 _ 500' Reel	3/8"	.245"	000000	170 PSI	70 PSI	5.25	7/8"	PI, C B
1J-366-07 _ 50' Bag 1A-366-07 _ 200' Reel	1/2"	.320"	o	1 <i>75</i> PSI	70 PSI	8.52	1-1/8"	PI, C B
							Metri	c Sizes
Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Standard Colors	Working 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
			Standard Colors	•			Bend	
Color Code Unit Šize 1J-358-07 100' Bag 1B-358-07 250' Reel	mm	mm		75°F/25°C	150°F/65°C	100'	Bend Radius	Fitting
Color Code Unit Size 1J-358-07 _ 100' Bag 1B-358-07 _ 250' Reel 1A-358-07 _ 1000' Reel 1J-359-07 _ 100' Bag	mm 6	mm 4	0	75°F/25°C	65 PSI	2.59	Bend Radius 12.7 mm	Fitting PI, C B

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

Purflex[®], Flexi-Corr[™] & Asepsi-Flex[®]

Specifications

Purflex

Temperature Range $-40^{\circ}F$ to $+165^{\circ}F$

Vacuum Rating
To 28" Hg.

Durometer

85A

Diameter Tolerances ±.005"

Tube Markings FW Specifications

Working Pressure 4:1 Safety Factor

UV Stabilized

Yes

Resin Compliance NSF61, USPVI, Meets UL94HB

Suggested Fittings
Barl

urflex[™] is a clear, heavy-wall, 85A durometer polyurethane hose reinforced with a tough nylon 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.

Purflex



Flexi-CorrTM

lexi-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.

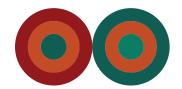


Asepsi-Flex®

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

Purflex[®] Reinforced Polyurethane Hose

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Available Only in Clear		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1A-800-10 1E-800-10	100' Reel	.470"	1/4"	.110"	(0)	230 PSI	150 PSI	6.0	3/4"	В
1A-801-10	Cut Length 100' Reel	.630"	3/8"	.127"	<u>(0</u>)	1 <i>55</i> PSI	100 PSI	9.9	1-1/2"	В
1E-801-10	Cut Length	.030	3/6	.127	, io	133 F31	100 F31	7.7	1-1/2	ь
1A-802-10	100' Reel	.750"	1/2"	.125"	10	125 PSI	80 PSI	12.0	2"	В
1E-802-10	Cut Length	.750	1/2	.125	••••••••••••••••••••••••••••••••••••••	123 101	00131	12.0		
1A-803-10	100' Reel	.905"	5/8"	.140"	(10)	105 PSI	70 PSI	16.4	2-3/4"	В
1E-803-10	Cut Length	.703	3/0	.140	<u></u>	103101	70131	10.4	2-5/4	
1A-804-10	100' Reel	1.025"	3/4"	.137"	10	90 PSI	60 PSI	18.6	3"	В
1E-804-10	Cut Length	1.023	3/4	.137		70 131	00 131	10.0	3	ь
1A-805-10	100' Reel	1.300"	1"	.150"	(10)	75 PSI	50 PSI	26.2	5"	В
1E-805-10	Cut Length	1.300	'	.130	····	/ J P31	30 P31	20.2	J	
Variations	. Available	:			Coiling • Cutting • B	onding •	Printing •	Pack	aging •	Sizes





Flexi-CorrTM Corrugated Hose

Part Number & Packaging Color Code Unit Size	ID	Standard Colors	Working Pressure 75°F/25°C	lbs./ 100'	Max Vacuum	Part Number for Cuffs
1E-047 25' Length 1F-047 250' Box 5 @ 50'	1/2"	04 54 72 92	1 <i>5</i> PSI	6.8	29 Hg	N/A
1E-053 25' Length 1F-053 150' Box 3 @ 50'	5/8"	2 54 72 2	1 <i>5</i> PSI	8.7	29 Hg	0C-058
1E-054 25' Length 1F-054 50' Length	3/4"	04 54 72 92	1 <i>5</i> PSI	10.0	29 Hg	0C-034
1E-055 25' Length 1F-055 50' Length	1"	04 54 72 92	1 <i>5</i> PSI	14.0	29 Hg	0C-100
1E-056 25' Length 1F-056 50' Length	1-1/4"	04 54 72 92	13 PSI	20.0	29 Hg	0C-114
1E-057 25' Length 1F-057 50' Length	1-1/2"	04 54 72 92	9 PSI	26.0	29 Hg	0CH-112
1E-058 25' Length 1F-058 50' Length	1-3/4"	04 54 72 92	7 PSI	34.0	28 Hg	N/A
1E-093 25' Length 1F-093 50' Length	2"	O4 54 72 92	5 PSI	52.0	20 Hg	0C-200
Variations Available:					Cuttin	g • Packaging

Asepsi-Flex® PVC Vacuum Hose

Part Number & Color Code	Packaging Unit Size	ID	Standard Colors	Maximum Vacuum
1E-501	25' Length 100' Length	1/2"	14 54 72 92	29 Hg.
1E-625 1F-625	25' Length 100' Length	5/8"	14 54 72 92	29 Hg.
Variations A	Available:			Cutting • Packaging



Specifications

Temperature Range -40°F to +165°F

Pressure Rating 70°F 200 P.S.I.

Vacuum Rating
To 28" Hg.

Diameter Tolerances 1/4" - 5/16" ±.005" 3/8" - 1/2" ±.010"

Working Pressure 4:1 Safety Factor

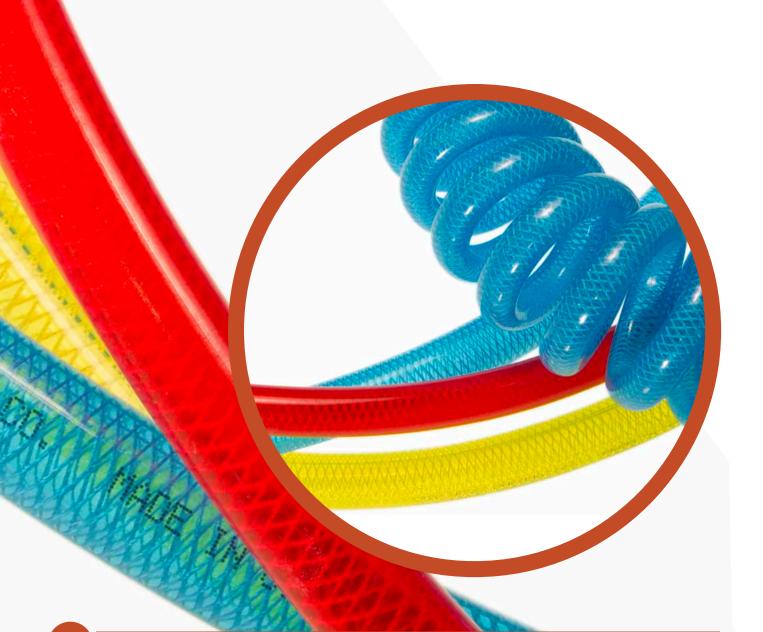
UV Stabilized Ye

Resin Compliance NSF61, USPVI, UL94HB

Suggested Fittings Reusable with Strain Relief lexeel® 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.

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





Available in:

- Transparent Blue
- Transparent Red
- Transparent Yellow

Flexeel® Polyurethane Straight Hose

'					3 SAMMA	TAKE	6
Part Number & Color Code	Packaging Unit Size	OD	ID	Standard Colors	Fitting		
PFE4025 PFE40254 PFE40256	- _ 25'	3/8"	1/4"	T TR TY	None Reusable Strain Relief Reusable Strain Relief		MPT MPT
PFE4050 PFE40504 PFE40506	- _ 50'	3/8"	1/4"	T ® T	None Reusable Strain Relief Reusable Strain Relief	1/4	MPT MPT
PFE4100 PFE41004 PFE41006	100'	3/8"	1/4"	T TR TY	None Reusable Strain Relief Reusable Strain Relief		MPT MPT
PFE4500	500'	3/8"	1/4"	T TR TY	None		
PFE42000_	2000'	3/8"	1/4"	T TR TY	None		
PFE5025 PFE50254	25'	.473"	5/16"	T TR TY	None Reusable Strain Relief	1/4	MPT
PFE5050 PFE50504	50'	.473"	5/16"	T TR TY	None Reusable Strain Relief	1/4	MPT
PFE5100 PFE51004	100'	.473"	5/16"	T TR TY	None 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 PFE60254 PFE60256	- _ 25'	9/16"	3/8"	T TR TY	None Reusable Strain Relief Reusable Strain Relief	1	MPT MPT
PFE6050 PFE60504 PFE60506	50'	9/16"	3/8"	T R Y	None Reusable Strain Relief Reusable Strain Relief	•	MPT MPT
PFE6100 PFE61004 PFE61006	100'	9/16"	3/8"	T TR TY	None Reusable Strain Relief Reusable Strain Relief	1	MPT MPT
PFE6200	200'	9/16"	3/8"	T TR TY	None		
PFE61000	1000'	9/16"	3/8"	T TR TY	None		
PFE8025 PFE80258	25'	.700"	.440"	T	None Reusable Strain Relief	1/2	MPT
PFE8050	50'	.700"	.440"	0	None Reusable Strain Relief	1/2	MPT
PFE8100 PFE81008	100'	.700"	.440"	•	None Reusable Strain Relief	1/2	MPT
PFE8200	200'	.700"	.440"	1	None		
PFE8500	500'	.700"	.440"	T	None		
Variations	s Available	e:		Coiling • Colors • Cutting • Bone	ding • Printing • Packe	ging	Size

Flexeel® Coils

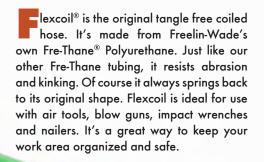




Flexeel® Polyurethane Coiled Hose

Revsable Fitti	ngs – with Strain	Relief								
Part Number, Fitting & Color Code	Fitting Options	Standard Colors	Material Length	Working Length	Retracted Length	OD	ID	Coil OD	Working Pressure	Weight
PUF14-10 -	_= (2) 1/4" Rigid A= (1) 1/4" Rigid & (1) 1/4" Swivel B= (2) 1/4" Swivel 6= (2) 3/8" Rigid	T TR TY	10' 15' 20' 25'	8.5 ' 12.5 ' 17 ' 21 '	9" 14.5" 19.5" 26.5"	3/8"	1/4"	1 3/4"	200 PSI	.41 lbs. .59 lbs. .74 lbs. .88 lbs.
PUE516-10 PUE516-15 PUE516-20 PUE516-25	_= (2) 3/8" Rigid A= (1) 3/8" Rigid & (1) 3/8" Swivel B= (2) 3/8" Swivel	TRY	10' 15' 20' 25'	8.5 ' 12.5 ' 17 ' 21 '	9.5" 15.5" 21" 26.5"	.473"	5/16 "	2 3/16"	200 PSI	.68 lbs. .89 lbs. 1.11 lbs. 1.32 lbs.
DITESS 15	4= (2) 1/4" Rigid _= (2) 3/8" Rigid A= (1) 3/8" Rigid & (1) 3/8" Swivel B= (2) 3/8" Swivel	T TR TY	10' 15' 20' 25'	8.5 ' 12.5 ' 17 ' 21 '	10.5" 16.7" 23" 29"	9/16"	3/8"	2 7/8"	200 PSI	1.00 lbs. 1.40 lbs. 1.85 lbs. 2.25 lbs.
Reusable Fittin	gs — No Strain Re	elief								
PRE14-10 PRE14-15 PRE14-20 PRE14-25 -	_= (2) 1/4" Rigid A= (1) 1/4" Rigid & (1) 1/4" Swivel B= (2) 1/4" Swivel	T TR TY	10' 15' 20' 25'	8.5 ' 12.5 ' 17 ' 21 '	9" 14.5" 19.5" 26.5"	3/8"	1/4"	1 3/4"	200 PSI	.41 lbs. .59 lbs. .74 lbs. .88 lbs.
	4= (2) 1/4" Swivel B= (2) 3/8" Swivel	TRY	10' 15' 20' 25'	8.5 ' 12.5 ' 17 ' 21 '	9.5" 15.5" 21" 26.5"	.473"	5/16"	2 3/16"	200 PSI	.68 lbs. .89 lbs. 1.11 lbs. 1.32 lbs.
PRE38-10 PRE38-15 PRE38-20 PRE38-25	4= (2) 1/4" Rigid A= (1) 1/4" Rigid & (1) 1/4" Swivel 4B= (2) 1/4" Swivel = (2) 3/8" Rigid A= (1) 3/8" Rigid & (1) 3/8" Swivel	T TR TY	10' 15' 20' 25'	8.5 ' 12.5 ' 17 ' 21 '	10.5" 16.7" 23" 29"	9/16"	3/8"	2 7/8"	200 PSI	1.00 lbs. 1.40 lbs. 1.85 lbs. 2.25 lbs.
Variations Avai	lable:		Coiling •	Colors	Cutting	• Bondii	ng • Prir	nting • Po	ackaging	• Sizes





Specifications

Temperature Range -40°F to +125°F

Vacuum Rating To 28" Hg.

Diameter Tolerances 1/4" - 9/16" ±.005"

Working Pressure 3:1 Safety Factor

Working Length 80-90% of Material

Variations

Flexcoil 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.



Rigid Fitting with Strain Relief

Swivel Fitting with Strain Relief

Available in:









Transparent Blue

Flexcoil® Coiled Polyurethane Straight Hose with Reusable Strain Relief Fittings

Part Number, Fitting & Color Code	Fitting Options	Standard Colors	Material Length	Working Length	Retracted Length	OD	ID	Coil OD	Working Pressure	Weight
PU316-5	- (0) 1/4"P: :1		5'	4'	2"					.23 lbs.
PU316-10	= (2) 1/4" Rigid A= (1) 1/4" Rigid &	000	10'	8'	6"					.34 lbs.
PU316-15	A= (1) 1/4" Rigid & (1) 1/4" Swivel	BGR	15'	12.5'	10 1/4"	5/16"	3/16"	1 7/8"	160 PSI	.46 lbs.
PU316-20	B= (2) 1/4" Swivel	10	20'	1 <i>7</i> '	14 1/2"					.56 lbs.
PU316-25	B- (2) 1/4 Swivei		25'	20'	18 1/2"					.68 lbs.
PU14-5			5'	4'	2 1/2"					.23 lbs.
PU14-10	= (2) 1/4" Rigid		10'	8'	6"					.41 lbs.
PU14-15	A= (1) 1/4" Rigid	000	15'	12.5'	9 1/2"					.59 lbs.
PU14-20	(1) 1/4" Swivel	BGR	20'	1 <i>7</i> '	13"	3/8"	1/4"	2 1/2"	130 PSI	.74 lbs.
PU14-25	B= (2) 1/4" Swivel	YT	25'	20'	16"					.88 lbs.
PU14-30	6= (2) 3/8" Rigid		30'	25.5'	19"					1.05 lbs.
PU14-50			50'	42.5'	32 1/2"					1.50 lbs.
PU516-10	= (2) 3/8" Rigid		10'	8'	7 1/2"					.68 lbs.
PU516-15	,, ,	000	15'	12.5'	11 1/2"					.89 lbs.
PU516-20	(., -,g	BGR	20'	1 <i>7</i> '	15"	15/32"	5/16"	2 15/16"	130 PSI	1.11 lbs.
PU516-25	(1) 3/8" Swivel	10	25'	20'	19"					1.32 lbs.
PU516-30	B= (2) 3/8" Swivel		30'	25.5'	23"					1.52 lbs.
PU38-10	4= (2) 1/4" Rigid		10'	8'	5 1/2"					1.00 lbs.
PU38-15	=		15'	12.5'	8 1/2"					1.40 lbs.
PU38-20	(-/ -/g	BGR	20'	1 <i>7</i> '	11"	0/1/1	3/8"	4 1/8"	10 E DCI	1.85 lbs.
PU38-25	A= (1) 3/8" Rigid	YT	25'	20'	14"	9/16"	3/8"	4 1/8"	135 PSI	2.25 lbs.
PU38-30	(1) 3/8" Swivel		30'	25.5'	1 <i>7</i> "					2.63 lbs.
PU38-50	B= (2) 3/8" Swivel		50'	42.5'	27 1/2"					3.23 lbs.
Variations Avai	lable:						Colo	rs • Printi	ng • Pa	ckaging

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

Flexcoil®

See page 35 for Fre-Thane $^{\! @}$ coils without fittings.

Available in:

Blue

© Neon Green

Red

Y Yellow

Transparent Blue

Flexcoil® Coiled Polyurethane Hose with Reusable Fittings

	_									
Part Number, Fitting & Color Code	Fitting Options	Standard Colors	Material Length	Working Length	Retracted Length	OD	ID	Coil OD	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	BGR	20'	1 <i>7</i> '	12 1/2"	1/4"	.160"	1 1/2"	150 PSI	.46 lbs.
PR532-25		YT	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	BGR	15'	12.5'	10 1/4"	5/16"	3/16"	1 7/8"	160 PSI	.46 lbs.
PR316-20		YT	20'	1 <i>7</i> '	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	= (2) 1/4" Rigid		10'	8'	6"					.41 lbs.
PR14-15	, , ,	BGR	15'	12.5'	9 1/2"					.59 lbs.
PR14-20	A= (1) 1/4" Rigid (1) 1/4" Swivel	YT	20'	1 <i>7</i> '	13"	3/8"	1/4"	2 1/2"	130 PSI	.74 lbs.
PR14-25	B= (2) 1/4" Swivel	• •	25'	20'	16"					.88 lbs.
PR14-30	D (2) 1/4 5WIVE		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	BGR	15'	12.5'	11 1/2"					.89 lbs.
PR516-20	B= (2) 3/8" Swivel	YT	20'	1 <i>7</i> '	15"	15/32"	5/16"	2 15/16"	130 PSI	1.11 lbs.
PR516-25	b (2) 5/5 5/1/6/		25'	20'	19"					1.32 lbs.
PR516-30			30'	25.5'	23"					1.52 lbs.
	4= (2) 1/4" Rigid									
PR38-10	4A= (1) 1/4" Rigid		10'	8'	5 1/2"					1.00 lbs.
PR38-15	(1) 1/4" Swivel		15'	12.5'	8 1/2"					1.40 lbs.
PR38-20	4B= (2) 1/4" Swivel	BGR	20'	1 <i>7</i> '	11"	9/16"	3/8"	4 1/8"	135 PSI	1.85 lbs.
PR38-25	= (2) 3/8" Rigid	Y	25'	20'	14"	•	·	·		2.25 lbs.
PR38-30	A= (1) 3/8" Rigid		30'	25.5'	17"					2.63 lbs.
PR38-50	(1) 3/8" Swivel		50'	42.5'	27 1/2"					3.23 lbs.
221010	B= (2) 3/8" Swivel		4.01							2.4.11
PR12-10			10'	8'	7"					2.14 lbs.
PR12-15		000	15'	12.5'	11 3/4"					2.95 lbs.
PR12-20	B= (2) 1/2" Swivel	BGR	20'	17'	16 1/2"	3/4"	.467"	5"	155 PSI	3.77 lbs.
PR12-25		YT	25'	20'	23"					4.60 lbs.
PR12-30			30'	25.5'	28" 40"					5.35 lbs.
PR12-50	:1l.1		50'	42.5'	40"				B-	7.75 lbs.
Variations Ava	ilable:						Colo	rs • Printi	ng • Pa	ckaging

Nylon Coiled Hose

reelin-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 (pictured below) 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.



Features

- 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"



Nylon Self-Storing Hose

Part Number & Color Code	OD	ID	Working 75°F/25°C	Pressure 150°F/65°C	Material Length	Working Length	Retracted Length	Coil OD	MPT Fitting	Approx. Weight
N14-12B					12'	9'	5-1/4"		1/4"	.375 lbs.
N14-25B	.309"	1/4"	185 PSI	110 PSI	25'	19'	10"	2 1 /2"	1/4"	.62 lbs.
N14-50B	.309	1/4	100 101	110 P31	50'	37.5'	19-3/4"	3-1/2"	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	.470"	3/8"	165 PSI	100 PSI	25'	19'	9"	5-5/8"	3/8"	1.62 lbs.
N38-50B	.470	3/0	100 101	100 P31	50'	37.5'	18-1/4"	5-5/6	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	425"	1/2"	170 DCI	110 DCI	25'	19'	8-1/2"	9"	1/2"	.562 lbs.
N12-50B	.625"	1/2"	170 PSI	110 PSI	50'	37.5'	15-1/2"	7"	1/2"	.937 lbs.
N12-100					100'	75'	31-1/2"		none	1.37 lbs
Variation A	vailable:								P	ackaging

Nylon Mini Coils

Specifications

Temperature Range -40°F to +180°F

Vacuum Rating
To 28" Hg.

Tube Diameter
Tolerances

±. 002 to ±.005"

Tube MarkingsFW Specifications

reelin-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 and offer a working pressure over 300 PSI.

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		Pressure 150°F/65°C	Material Length	Working Length	Retracted Length	Coil OD
N1063						3"	4.4'	3-1/2'	
N1066	5/32"	.106"	01 03 05 06 07 08 09	350 PSI	210 PSI	6"	8.8'	7'	1.312"
N10612	3/32"	.106		350 PSI	210 P31	12"	17.5'	14'	1.312"
N10624						24"	35'	28'	
N1706						6"	5'	4'	
N1709						9"	6.9'	5-1/2'	
N17012	1/4"	.170"	01 03 05 06 07 08 09	330 PSI	200 PSI	12"	9.4'	<i>7</i> -1/2'	1.750"
N17024						25"	19.4'	15-1/2'	
N17036						36"	28'	22-1/2'	
24 1 -1					0.1				

/ariations Available:

Colors • Printing • Packaging • Sizes

Coil Terminology

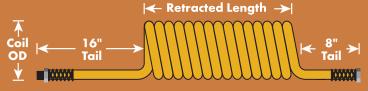
oil Diameter plays a very significant role in retractability. The smaller and tighter the coil diameter, the snappier and more retractable the coil becomes.

Working Length is based on how far a coil can be stretched and used comfortably. Tail length is factored into 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 Pigtails) make it easier to use a coil. Our standard tail lengths are 8" and 16". Coils with longer or shorter tails are available.





Fre-Thane® Polyurethane Coils



re-Thane® 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.

Specifications

Temperature Range -40°F to +165°F

Vacuum Rating
To 28" Hg.

Diameter Tolerances

Working Pressure 3:1 Safety Factor

UV Stabilized

85A

Resin Compliance See Page 8 for Fre-Thane Compliances

Suggested Fittings Barb, Push-In (95A)

Fre-Thane® Single Tube Polyurethane Coils

Part Number & Color Code	OD	ID	DUR	Standard Colors		Pressure 150°F/65°C	Material Length	Working Length	Retracted Length	Coil ID
1W-013	1/8"	.066"	85A	① 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	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	125 PSI	50 PSI	10'	8'	5"	3/4"
1W-132	1/4"	.159"	90A	① 07 08 10 14 25 27	11 <i>5</i> PSI	45 PSI	10'	8'	9.25"	3/4"
1W-005	2 /01	0.45"	004		105 DCI	40 DCI	10'	8'	7.5"	1 1 / 411
1Z-005	3/8"	.245"	90A	0 0 0 0 1 2 2	105 PSI	40 PSI	25'	20'	22"	1-1/4"
1W-151	1/4"	.16"	95A				10'	8'	7"	
1X-151	1/4"	.16"	95A	01 04 05 06 07 08 09 10 11 25 26	1 <i>55</i> PSI	60 PSI	15'	12.5'	9.5"	1"
1Y-151	1/4"	.16"	95A	27 28	133 131	00 131	20'	1 <i>7</i> '	12.5"	'
1Z-151	1/4"	.16"	95A				25'	20'	15.5"	
1W-152	3/8"	.245"	95A				10'	8'	6"	
1X-152	3/8"	.245"	95A		150 PSI	60 PSI	15'	12.5'	9.5"	1 2 / 4"
1Y-152	3/8"	.245"	95A	00 05 06 07 08 10 11 25 27 28 46	150 P31	00 131	20'	1 <i>7</i> '	13"	1-3/4"
1Z-152	3/8"	.245"	95A				25'	20'	16"	
Variations	Avail	able:		Colors	• Cuttin	g • Bondi	ng • Pri	nting • P	ackaging	• Sizes

Fre-Thane® Multi-Bore Polyurethane Coils

Part Number & Color Code	OD	ID	Bore/ DUR	Standard Colors		Pressure 150°F/65°C	Material Length	Working Length	Retracted Length	Coil ID
2V-006	1/8"	1/16"	Twin 90A	O) (i) 14	160 PSI	65 PSI	<i>7</i> '	5'	6"	3/4"
2W-016	1/4"	1/8"	Twin 85A	0 0 0 0 0 27	130 PSI	50 PSI	10'	8'	12.5"	1"
3W-022	1/4"	1/8"	Triple 85A	0	130 PSI	50 PSI	10'	8'	16"	1-1/4"
4W-023	1/4"	1/8"	Quad 85A	0 10	130 PSI	50 PSI	10'	7'	21"	1-1/4"
Variations	Avail	able:					Cuttir	ng • Print	ting • Pac	:kaging

Jacketing & Accessories



acketing your tubing lines is an attractive and easy way to organize your tubing. Save time over tie wrapping and it makes line tracing easier and more safe.



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.

Hose Cutter Part Number	Packaging Unit Size	OD	ID	Bundled Colors	lbs./ 100'	Fitting
10J-013-00	50' Bag	1/8"	.066"	02040506070809(0.11)12	7.0	р
10A-013-00	200' Reel	1/8"	.000		7.0	В
10A-025-00	100' Bag	1 / 411	1/8"	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.0	n
10E-025-00	Cut Length	1/4"	1/8"		21.0	В
Variations Available:				Bundle your own choice of	ubing ar	nd wire.

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



Spiral Wrap

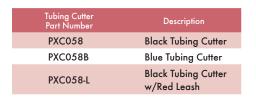
Spiral Wrap is made from a spiral cut of linear low density polyethylene (LLDPE) material. It easily wraps around tubing and allows for easy branching of contents.

Part Number	Packaging Unit Size	OD	ID	Standard Colors	lbs./100'
1J-078	25' Bag				
1D-078	100' Box	1/2"	3/8"	010	3.4
1A-078-	250' Reel				



Tubing Cutters & Replacement Blades

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



Description
Single Blade
5-Pack
10-Pack



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



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
TMC-02	1/8"
TMC-04	1/4"

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



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 (3/16"). 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
HTC-156-200	.156"200"
HTC-201-325	.201"325"
HTC-326-400	.326"400"
HTC-401-485	401" - 485"

"H" Clip Part Number	Fits Tubing Size
HTC-486-575	.486"575"
HTC-576-675	.576"675"
HTC-676-825	.676"825"
HTC-826-1000	.826" - 1.00"



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 OD	Number of Channels
PTC6-7	3/8	7
PTC6-10	3/8	10
PTC8-6	1/2	6

Small Channel Part Number	Tubing Size OD	Number of Channels	
TC5-10	5/32	10	
TC3-10	3/16	10	
TC4-10	1/4	10	



Resource Guide-Chemical Resistance Chart

his 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	Nylon	Kynar
Acetic Acid, Glacial	4	2	4		1
Acetic Acid, 30% Acetone	4	2	4	1	1
Acetylene Alkazene	1 4	4	1	1	1
Aluminum Chloride (aq) Aluminum Nitrate (aq)	3	2	1		1
Ammonia Anhydrous	4	2	1	-	4
Ammonia Gas (cold) Ammonia Gas (hot)	4		3	1 1	4
Ammonium Chloride (aq) 40% Ammonium Sulfate (aq)	2 1	1	1	1	1
Amyl Alcohol Amyl Naphthalene	4	2	1	-	1
Animal Fats	1				-
Aqua Regia Arsenic Acid	3	2	3 1	-	1
Asphalt ASTM Fuel A	2	1	1		1
ASTM Fuel B	3	1	4		-
ASTM Fuel C Barium Chloride (aq)	1	2	1	1	1
Beer Beet Sugar Liquors	2 4	2 1	1	1	1
Benzene Benzine	3	4	3	1	1
Blast Furnace Gas	4	-	-	-	-
Bleach Solutions Borax	1	1	1	-	1
Boric Acid Brake Fluid	1	1	1		1
Brine	2	-	3	4	1
Bromine Water Bunker Oil	2	-	-	-	1
Butane Butter	1	3	3	1	1
Butyl Alcohol (Butanol)	3	1	3	1	1
Butylene Calcium Chloride (ag)	1	1	3	1	1
Calcium Hydroxide (aq) Calcium Nitrate (aq)	2	1 -	2	1	1
Calcium Sulfide (aq) Cane Sugar Liquors	1	-	i		i
Carbolic Acid	3	4	3	-	-
Carbon Dioxide Carbonic Acid	4	2	1	-	1
Carbon Monoxide Carbon Tetrachloride	1	2	1	3	1
Castor Oil	1 4	1 3	1 4	- 4	1
Chlorine (dry) Chlorine (wet)	4	3	-	4	1
Chloroform Chlorox	4	4	4	3	1
Chlorox Chromic Acid 50%	4	1	4	4	1
Citric Acid Coal Tar (Creosote)	3	-	-	-	-
Coconut Öil Cod Liver Oil	2 1	1	1	-	1
Coke Oven Gas Copper Chloride (aq)	4 1	2	1		1
Copper Cyanide (aq) Corn Oil	1	2	1 2		1
Cotton Seed Oil	1	1	2	-	1
Creosol (Methyl Phenol) Cychlohexane	4 1	4	4	4 1	1
Denatured Alcohol Detergent Solution	4	1	1		
Diesel Oil	2	3	1	-	4
Dioxane Dowtherm Oil	3	3	-	-	-
Dry Cleaning Fluids Ethane	4 1		1		-
Ethyl Acrylate	4	2	3	3	1 1
Ethyl Alcohol (Ethanol) Ethyl Benzine	4	-	-	-	-
Ethyl Cellulose Ethyl Chloride	2	4	4		1
Ethyl Ether Ethylene Chloride	3	4	4		1
Ethylene Glycol ⁵ (Anti-Freeze)	2	1	1	1	1
Ethylene Oxide Ethylene Trichloride	4	3 4	3	1	1
Ferric Chloride (aq) Ferric Nitrate (aq)	1	2	1		1
Ferric Sulfate (aq)	2	1	1	- 4	1
Fluroine (Liquid) Formaldehyde (RT)	4	3 2	1	1	1
Formic Acid Freon 11	4	2	1	4	1
Freon 12 Freon 22	1 4	1	1	1	
Fuel Oil (Bunker 'C')	2	3	1	-	1
Gasoline (100 Octane, High Test) Glue	3 1	4 1	3	1	1
Glycerin (Glycerol) Glycols	1	1	1	1 1	1
Green Sulfate Liquor	1	-	- 02	-	-
Hexane Hydraulic Oil	2 1	4 ¹ 1-3	2 ²	-	1
Hydrochloric Acid (cold) 37% Hydrochloric Acid (hot) 37%	4	2	2	4	1
Hydrofluroic Acid (Conc.) (cold) Hydrofluroic Acid (Conc.) (hot)	4	2	- :	-	1
Hydrogen Gas	1	1	1	1	1
Isobutyl Alcohol Isooctane	3 2	1 3	1		1
Isopropyl Acetate Isopropyl Alcohol (Isopropanol)	4	3	4	- 1	1
Isopropyl Ether	2	- 1	2	-	1
Kerosene	1	4	2	1	1

	PUR	PE	PVC	Nylon	Kynar
Lacquers	4	1	4		-
Lacquer Solvents Lard	- 1	i	1		1
Lavender Oil Lead Acetate (aq)	4	1	1		1
Linseed Oil	2	3	- 1	1	1
Liquified Petroleum Gas Lubricating Oils	1 1-2 ³	4	2	1	1
Lye Magnesium Chloride (aq)	4	1-4 ⁴	1-2	1	1
Magnesium Hydroxide (aq)	4	2	1	-	1
Mercury Methane	3	1	1 2	1	1
Methyl Acetate	4	2	4	1	1
Methyl Acrylate Methyl Alcohol (Methanol)	4	1	1	1	1
Methyl Butyl Ketone Methyl Chloride	4	4	1	1	1
Methylene Chloride Methyl Ethyl Ketone	4	4	4	-	i
Methyl Ethyl Ketone Methyl Isobutyl Ketone	4	2	4	1	4
Milk	4	1	1	1	1
Mineral Oil Motor Oil 20W, 10W40	1	3	1	1	1
Naphtha (Lighter Fluid) Naphthalene (Moth Repellent)	2	2	1	1	1
Natural Gas	2	÷	ī	- :	i
Neatsfoot Oil Nitric Acid 70%	4	2		4	ī
Nitric Acid (Dilute) 10%	3	2	- 1	4	1
Nitroethane N-Octane	4	i	-	•	1
Oleic Acid	2	1	3	1	1
Oleum Spirits Olive Oil	1	1	-		1
Oxygen (cold) Oxygen (200-400F)	1	-		1	1
Paint Thinner, Duco Perchloric Acid	4	- ;	-	-	ī
Perchloroethylene	4	1	3	3	1
Petroleum - Below 250F Petroleum - Above 250F	2	3		4	1
Phenol (Carbolic Acid) Phenyl Ethyl Ether	3	2	3-4	4	1
Phenyl Ethyl Ether Phosphoric Acid - 45%	4	1	2	2	1
Pickling Solution Picric Acid	4 2	1	-	-	-
Potassium Acetate (aq)	4	-	-	3	1
Potassium Chloride (aq) Potassium Cyanide (aq)	1	2	1		1
Potassium Hydroxide (aq)	4	1	1	3	4
Producer Gas Propane	1	1	1	1	1
Propyl Alcohol (Propanol)	4	1	1 2	•	1
Propylene Propylene Glycol (Anti-Freeze)	3	1	3	2	1
Propylene Oxide	4	2	-		4
Propylene Glycol (Anti-Freeze) Propylene Oxide Pydraul, 10E, 29 ELT Pydraul 30E, 50E, 65E	4	-	-		-
Pydraul, 115E Pydraul 230E, 312C, 540C	4				
Rapeseed Oil RJ-1 (MIL-F-23338 B)	2	4	-		-
RP-1 (MIL-F-25576 C)	- 1	-	-	-	-
Salt Water Sewage	2	1	1	1	1
Silicate Esters	į				- :
Silicone Oils Silver Nitrate	1	1	1		1
Skydrol 500 Skydrol 700	4	-	-	•	-
Soap Solutions	3	4	1	i	-
Sodium Chloride (aq) Sodium Hydroxide (aq)	1	1	1	1	4
Sodium Peroxide (aq)	4	1	2	-	1
Sodium Phosphate (aq) Sodium Sulfate (aq)	1	1	1		1
Sodium Sulfate (aq) Soy Bean Oil Stoddard Solvent	2	1 3	1 3	-	1
Styrene (Monomer) Sucrose Solution	4	-	4	1	1
Sucrose Solution Sulfuric Acid (Dilute Battery Acid)	3	2	1		1
Sulfuric Acid (Dilute Battery Acid) Sulfuric Acid (Conc) Sulfuric Acid (20% Oleum)	4	2	4		1
Sulfurous Acid Sulfurous Acid	4	2	4 1		4
Tannic Acid	4	1 2	1		1
Tetrochlorethylene Toluene (Toluol)	4	3	4	i	1
Transformer Oil Transmission Fluid Type A	2		2		
Trichloroethane	4	4	3	3	1
Trichloroethylene Turbine Oil	4 1	3	4 1	3 1	1
Turpentine	4 3	4	4	1	1
Varnish Vinegar	2	1	- 1	i	1
Vinul Chlarida	4	4	4	1	1
Whiskey, Wines	2	1	1	1	1
Water Whiskey, Wines White Oil Wood Oil Xylene	1 3				
Xylene	4	4	4	i	į
Xylene Zinc Acetate (aq) Zinc Chloride (aq)	2	1	1	1	1
2 3 (44)				_	
1 Petroleum Base 2 Synthetic	Base =	1, Petr	oleum	Base =	= 3

Rating Scale

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

3 SAE 10, 20, 30, 40, 50 = 1, Petroleum Base = 3

4 Calcium Hydroxide & Potassium (Hydroxide=1, Sodium Hydroxide=4) 5 See Propylene Glycol 6 See Ethylene Glycol

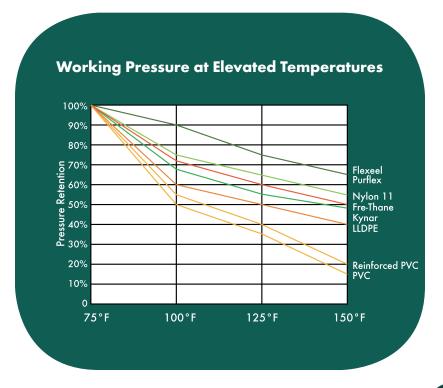
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