



reelin-Wade[®] Company sets the standard for quality plastic tubing. All of our tubing is extruded 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.

New in this catalog:

- 65A Non-Phthalate PVC
- Colored FEP

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

Virtually

On the cover: Abuse-Proof Fre-Thane® Polyurethane Multi-Colored Ribbon (MCR)

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

All Freelin-Wade tubing is extruded in the USA.



other regulations, Freelin-Wade encourages user testing, especially for manufacturers of products and/or devices used in food, drug and biological applications as regulations and criteria for certification of these products and/or devices vary widely. The responsibility for determining the validity and suitability of use of a Freelin-Wade product in any product or device application is that of the user. We will gladly provide samples for user testing.

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.

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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.

Table of Contents



Variations

This catalog describes our wide selection of standard tubing, hose and accessories. 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. Let us engineer a custom size, shape or color for your specific application.

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 tubing organized and out of the way. We offer several standard coils in this catalog but it's easy for us to make a variation. Refer to page 33 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.

Forming

An excellent alternative to the high cost of injection molded parts. Formed shapes can eliminate problems such as kinking and space constraints and often makes installation easier.

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 and Labeling

Our standard packaging process is to put short lengths in bags while longer lengths come on reels or in boxes. Other packaging options, custom reels, header cards and labels are available. 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.



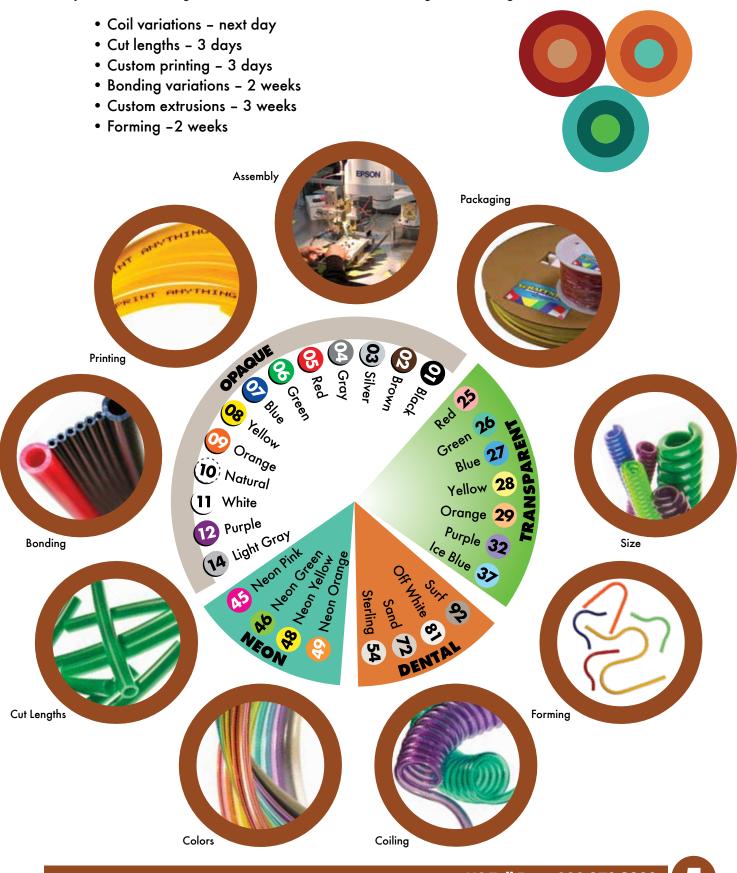
Freelin-Wade sets the industry standard for fast turnaround.



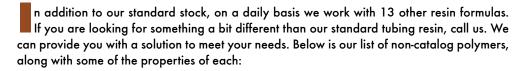


Variation Lead Times

he majority of our catalog items are available for shipment within 24 hours of your order. Our general lead times for variations using stock tubing are:



Off-Catalog Plastics



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

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

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

PUR 58D - F/R: This is a fire-retardant grade of Polyurethane in 58D durometer.

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

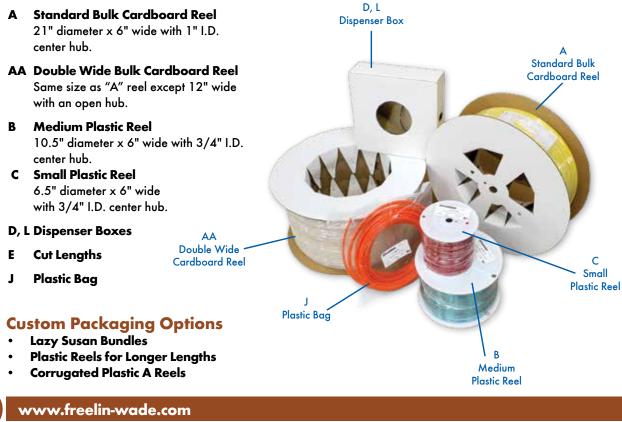
PUR 55D: This Shore-D durometer polyurethane is significantly stiffer than our PUR 95A.

PVC 70A, 85A: These are non-phthalate PVC materials.

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

TPE 80A: A thermoplastic alternative to rubber.

Standard Packaging Options





Formed Tubing Variations

A n excellent alternative to the high cost of creating an injection molded part. Freelin-Wade can rapidly develop formed tubing and hose parts for your prototype or production needs. Formed shapes can eliminate problems such as kinking and space constraints and often makes installation easier.

Some common requests we receive include:

- Elbows
- Curves
- Multiple Bends

Reasons to use a formed tube

- Reduced chance of machine down time due to kinking or improper assembly.
- Allows tube to be shaped very closely to be placed tightly within machine design requirements.
- Reduced assembly time, no measuring and cutting or associated potential errors.
- Uniform, professional appearance with a higher perceived value.
- Allows easy maintenance with factory formed parts, identifiable by part number.
- Allows very tight placement of components in an assembly with predictable results.
- Offered in 2-D configurations.



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 toward 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 then 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.

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

Contaminated Plastic Materials: Freelin-Wade recycles waste plastic with licensed plastic recycling companies.

Fre-Thane® Polyurethane

Specifications

Temperature Range -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

 Resin Compliance

 95A:
 NSF61

 Meets
 UL94HB

 90A:
 NSF61, FDA,

 USPVI
 USFVI

 70A:
 Meets

 UL94HB
 USPVI

Suggested 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 a lightweight, stretchable fabric, called 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 Esterbase polymer is less expensive. However, it degrades when exposed to moisture. Because of this, we manufacture our Fre-Thane[®] polyurethane tubing using the Etherbase 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 flagship product today. It is available in 23 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

ny of our polyurethane tubing products listed on pages 9 and 10 are available in the colors shown below. If not shown as a standard item, please allow 3 weeks to fulfill your order.

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard 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"	0 04 05 06 07 08 00 11 12 14 25 26 27 28 29	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"	0022656078020112 252627282937	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"	07 08 (i)	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 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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"	0) 04 05 06 07 08 09 10 11 12 25 26 27 28 46	175 PSI	70 PSI	1.44	1/2"	b, pi, FX
1J-152 100' Bag 1B-152 250' Reel 1A-152 500' Reel	3/8"	.245"	.065"	0] 02 05 05 07 <mark>08</mark> (0) 11 25 26 27 28 37 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"	00000802	155 PSI	60 PSI	4.83	1-1/8"	B, PI
1J-166 50' Bag 1A-166 250' Reel	1/2"	.320"	.090"		175 PSI	70 PSI	5.77	1-1/8"	B, PI
1J-163 50' Bag 1A-163 200' Reel	9/16"	3/8"	.094"	0000002	155 PSI	60 PSI	6.85	1-3/8"	B, FX
1A-176 150' Reel 1E-176 Cut Length	3/4"	.467"	.142"	00	175 PSI	70 PSI	13.47	1-1/2"	B, FX

Fre-Thane® 95A Polyurethane

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.

								Mein	c 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-171- 100' Bag 1C-171- 500' Reel 1B-171- 1000' Reel 1A-171- 2500' Reel	3	1.8	.6	00	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	00 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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 0 0 05 00 07 08 09 10 11 25 26 27 28 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] 03 03 07 08 (0 (1) 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	000000000	170 PSI	70 PSI	3.51	22.2 mm	B, PI
1J-161 50' Bag 1A-161 250' Reel	12	8	2	00000000000000000000000000000000000000	1 <i>55</i> PSI	60 PSI	4.83	28.6 mm	B, PI
1J-162 50' Bag 1A-162 200' Reel	16	11	2.5	0	150 PSI	60 PSI	4.85	76.2 mm	B, PI
Variations Available	:			Coiling • Colors • Cutting	• Bondi	ng • Print	ing • P	Packaging	• Sizes

Fre-Thane® 90A Polyurethane

	aging t Size	OD	ID	Wall	Standard Colors	Working 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
1B-132- 500	D'Bag D'Reel D'Reel	1/4"	.159"	.046"	0 0 08 10 14 25 27	135 PSI	55 PSI	1.43	5/8"	В
1B-045- 500	D'Bag D'Reel D'Reel	1/4"	.170"	.040"	000	115 PSI	45 PSI	1.29	3/4"	B Low Pressure Only
	D'Bag D'Reel	1/4"	3/16"	.031"	(10)	90 PSI	35 PSI	1.06	1-1/8"	B Low Pressure Only
1B-005- 250	D'Bag D'Reel D'Reel	3/8"	.245"	.065"	000000022	125 PSI	50 PSI	3.1	3/4"	В
	D'Bag D'Reel	1/2"	3/8"	.062"	000	90 PSI	35 PSI	4.2	2"	B Low Pressure Only
Variations Ava	ailable:				Coiling • Colors • Cutting • Bo	nding • F	Printing •	Packo	iging '	Sizes

Fre-Thane® 85A Polyurethane

Part Number & Packag Color Code Unit Si		D ID	Wall	Standard Colors	Working 75°F/25°C	Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-013- 50' 1L-013- 250' 1C-013- 500' 1B-013- 1000' 1A-013- 2500'	lox leel 1/8 leel	8" .066"	.030"	0 0 04 05 06 07 08 07 06 11 12 14 25 26 27 28 29 32 45 46	135 PSI	55 PSI	.43	3/16"	В
1J-134 100' 1C-134 500' 1A-134 2500'	leel 5/3	2" 3/32"	.031"	00	115 PSI	45 PSI	.60	3/8"	В
1J-030- 100' 1C-030- 500' 1B-030- 1000' 1A-030- 2500'	teel 5/3 teel	2" 5/64"	.039"	0 <mark>680080001122</mark>	1 <i>55</i> PSI	60 PSI	.70	3/8"	В
1J-194 100' 1B-194 500' 1A-194 2000'	leel 3/1	6" 1/8"	.031"	00	85 PSI	35 PSI	.74	1/2"	B Low Pressure Only
1J-025- 50' 1D-025- 100' 1B-025- 500' 1A-025- 1000'	iox leel 1/2	4" 1/8"	.062"	0 (2 04 (5 06 07 08 (9 10 11) 12 25 26 27 28 29 32 46	145 PSI	60 PSI	1.8	1/2"	В
1J-149 100' 1A-149 500'	° 5/1	6" 3/16"	.062"	00002	110 PSI	45 PSI	2.4	5/8"	B Low Pressure Only
1J-015 100' 1A-015 500'	° 3/8	8" 1/4"	.062"	0 0 25 26 27	90 PSI	35 PSI	3.0	3/4"	В
Variations Avail	ıble:			Coiling • Colors • Cutting • Bo	nding •	Printing •	Pack	aging ·	Sizes

Fre-Thane® 70A Polyurethane

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-133 1B-133 1A-133	500' Reel	1/4"	1/8"	.062"	0 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"	000	50 PSI	25 PSI	2.82	3/4"	В
Variations	Available	:			Coiling • Colors • Cutting • Bo	onding •	Printing •	Packo	iging •	Sizes

reelin-Wade's non-reinforced flexible PVC uses a non-phthalate plasticizer. We pioneered the use of this environmentally friendly 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

Specifications

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

Vacuum Rating Reinforced PVC: To 18" Hg.

Hardness 65A Durometer 80A Durometer

Working Pressure 3:1 Safety Factor

Resin Compliance Non-Reinforced Only FDA for Food Contact CA Prop. 65 Meets USPVI Testing Requirements

Suggested Fittings Barb

Flexible PVC Colors

Our Non Reinforced PVC tubing products listed on this page are also available in the colors shown below. Please allow three weeks to fulfill your order.

0 04 05 06 07 08 09 11 26 27 28

Non-Phthalate Polyvinyl Chloride: 65A PVC

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard Color		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-721-10	100' Bag	1 /0"	1 /1 / 1	02.1#	10		10.001	51	1 / 411	n
1A-721-10	2500' Reel	1/8"	1/16"	.031"		85 PSI	10 PSI	.51	1/4"	В
1J-722-10	100' Bag	1 / 41	1 /0"	0/0"	10			2	2 /0"	р
1A-722-10	1000' Reel	1/4"	1/8"	.062"		70 PSI	10 PSI	2	3/8"	В
1J-723-10	100' Bag	5/16"	2/1/1	0/0"	10		5 PSI	24	5 /0"	P
1A-723-10	500' Reel	5/16"	3/16"	.062"		50 PSI	5 151	2.6	5/8"	В
Variation	s Available	*			Colors • Cutting • Bo	onding・	Printing •	Pack	aging •	Sizes

Non-Phthalate Polyvinyl Chloride: 80A PVC

Part Number & Color Code	Packaging Unit Size	OD	ID	Wall	Standard 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	1/8	1/10	.031"		145 251	20 251	.51	3/8	в
1J-701-10	100' Bag	1/4"	1/8"	.062"	10	165 PSI	25 PSI	2	1/2"	В
1A-701-10	1000' Reel	1/4	1/0	.062		105 131	25 831	Z	1/2	D
1J-702-10	100' Bag	1/4"	0.17"	0.04	10	95 PSI	10 PSI	1.75	1"	В
1A-702-10	1000' Reel									
1J-703-10	100' Bag	E /1 / II	2/1/#	.062"	10	110 001		2 4	5 /01	Р
1A-703-10	500' Reel	5/16"	3/16"	.062		110 PSI	15 PSI	2.6	5/8"	В
1J-704-10	100' Bag	3/8"	1/4"	.062"	10	91 PSI	15 PSI	3.25	7/8"	В
1A-704-10	500' Reel	3/8	1/4	.062		91 151	12 121	3.25	//8	в
1J-705-10	100' Bag	1/2"	3/8"	.062"	10	57 PSI	10 PSI	4.55	1-3/4"	В
1A-705-10	200' Reel	,							,	
1A-706-10	100' Reel	3/4"	1/2"	.125"	10	63 PSI	15 PSI	13.01	1-1/4"	В
Variation	s Available	•:			Colors • Cutting • B	onding•	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
Variation	s Available	:			Cutting • P	rintina •	Bondina	Pack	aaina •	Sizes

Polyethylene & Liquiflex−POE[™]

Specifications

Temperature Range LLDPE & Liquiflex: -40°F to +150°F Vacuum Rating All: To 28" Hg. **Diameter Tolerance** LLDPE: ±.004" ±.005" Liquiflex: Hardness 50 Shore D LLDPE: Liquiflex: 92A **Tube Markings** LLDPE & Liquiflex: **FW Specifications** Working Pressure LLDPE & Liquiflex: 3:1 Safety Factor **Resin Compliance** LLDPE: FDA, NSF51

FDA

Liquiflex:

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, 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

- Superior stress and crack resistance
- Tasteless and odorless

- Impermeable to gasses and moisture
- Superior dielectric properties

Polyethylene (Linear Low Density: LLDPE)

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-109- 100' Bag 1L-109- 250' Box 1C-109- 500' Reel 1B-109- 1000' Reel 1A-109- 2500' Reel	1/8"	.062"	.031"	000<mark>000080</mark>00	305 PSI	120 PSI	.40	1/2"	PI, C
1J-189- 100' Bag 1L-189- 250' Box 1C-189- 500' Reel 1B-189- 1000' Reel 1A-189- 2500' Reel	5/32"	.106"	.025"	00000000	175 PSI	70 PSI	.46	1"	PI, C
1J-048 100' Bag 1B-048 500' Reel 1A-048 1000' Reel	1/4"	.170"	.040"	000 <mark>0000000000000000000000000000000000</mark>	200 PSI	80 PSI	1.2	1-1/4"	PI, C
1J-077 100' Bag 1A-077 500' Reel	5/16"	.187"	.062"	00000000000000000000000000000000000000	230 PSI	90 PSI	2.5	1-1/2"	PI, C
1J-074 100' Bag 1A-074 500' Reel	3/8"	.250"	.062"	0 04050607 0 090	190 PSI	75 PSI	2.76	2"	PI, C
1J-076 100' Bag 1A-076 250' Reel 1AA-076 500' Reel	1/2"	.375"	.062"	0000000 00	135 PSI	55 PSI	3.87	2-1/2"	PI, C
1A-086 100' Reel 1AA-086- 300' Reel	5/8"	.500"	.062"	00	100 PSI	40 PSI	5	3"	PI, C

Polyethylene Colors

Any of our polyethylene tubing products are available in the colors shown below. If not shown as a standard item, please allow three weeks to fulfill your order.

000405060708021012

Polyethylene (Linear Low Density: LLDPE)

									Metric	Sizes
Part Number & P Color Code	Packaging Unit Size	OD mm	ID mm	Wall mm	Standard Colors		g Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-189 1	00' Bag									
1L-189 2	250' Box									
1C-189 5	500' Reel	4	2.7	.65	01 05 06 07 08 10	175 PSI	70 PSI	.46	25.2 mm	PI, C
1B-18910	000' Reel									
1A-18925	00' Reel									
1J-071 1	00' Bag									
1B-071 5	500' Reel	6	4	1	000010	175 PSI	70 PSI	1.1	31.8 mm	PI, C
1A-07110	000' Reel									
1J-072 1	00' Bag	8	6	1	00000	140 PSI	55 PSI	1.5	38 mm	DI C
1A-072 5	500' Reel	0	0	1		140 131	33 731	1.5	30 mm	ri, C
1J-073 1	00' Bag	10	8	1	0000	115 PSI	45 PSI	2.1	51 mm	
1A-073 5	500' Reel	10	0	I		113 731	45 151	2.1	JIMM	ri, C
1J-075 1	00' Bag									
1A-075 2	250' Reel	12	9	1.5	000710	135 PSI	55 PSI	3.44	63 mm	PI, C
1AA-075 <u>-</u> 5	500' Reel									
Variations A	vailable:					Colors • Cutting •	Printing •	Pack	aging •	Sizes



Liquiflex–POE™

- Greater flexibility
- UV Resistant

- 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

Part Number & Packagin Color Code Unit Size		D ID	Wall	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-961 100' B 1B-961 500' R 1A-961 1000' R	eel 1/	4" 1/8	3" .062"	0	125 PSI	75 PSI	1.52	.75"	B, PI, C
1J-962- 100' B 1C-962- 500' R 1A-962- 1000' R	eel 1/	4".170	0" .040"	00	80 PSI	20 PSI	1.08	1.375"	B, PI, C
1J-963- 100' B 1A-963- 500' R	- 3/	8" .24	5" .062"	00	75 PSI	35 PSI	2.56	1.5"	B, PI, C
1J-964- 50' B 1A-964- 250' R	ag 1/: eel	2" 3/8	.062"	00	60 PSI	25 PSI	3.52	2.75"	B, PI, C
				Coiling • Colors • Cutting • Bo	ondina •	Printing •	Pack	aaina •	Sizes

Nylon

Specifications

Temperature Range -60°F to +200°F

Vacuum Rating To 28" Hg Diameter Tolerance

<1/2"± .004" >1/2"± .005"

Hardness 78 Rockwell R

Tube Markings FW Specifications

Working Pressure 4:1 Safety Factor

UV Stabilized

Yes Resin Compliance Meets UL94HB Testing Requirements

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

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

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

Nylon Colors

Any of our nylon tubing products listed on page 15 are available in the colors shown below. If not shown as a standard item, please allow 3 weeks to fulfill your order.

Nylon

								N	ylon
Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-247- — 100' Bag 1A-247- — 2500' Reel	1/8"	.079"	.023"	00	420 PSI	250 PSI	.35	3/8"	PI, C
1J-200- — 100' Bag 1C-200- — 500' Reel 1B-200- — 1000' Reel 1A-200- — 2500' Reel	1/8"	.093"	.016"	000000	270 PSI	160 PSI	.25	1/2"	PI, C
1J-201- — 100' Bag 1C-201- — 500' Reel 1B-201- — 1000' Reel 1A-201- — 2500' Reel	5/32"	.106"	.025"	0) 03 05 05 07 <mark>08</mark> 09 10 12	350 PSI	210 PSI	.51	1/2"	PI, C
1J-202- — 100' Bag 1B-202- — 500' Reel 1A-202- — 2000' Reel	3/16"	.138"	.025"	000000	260 PSI	160 PSI	.55	5/8"	PI, C
1J-214- — 100' Bag 1A-214- — 1000' Reel	1/4"	.125"	.062"	00	590 PSI	350 PSI	1.77	3/8"	PI, C
1J-203- — 100' Bag 1B-203- — 500' Reel 1A-203- — 1000' Reel	1/4"	.170"	.040"	000000000000000000000000000000000000000	330 PSI	200 PSI	1.27	3/4"	PI, C
1J-204- — 100' Bag 1B-204- — 500' Reel 1A-204- — 1000' Reel	1/4"	.180"	.035"	0000000	290 PSI	170 PSI	1.13	1"	PI, C
1J-205- — 100' Bag 1A-205- — 500' Reel	5/16"	.232"	.040"	000000	240 PSI	140 PSI	1.64	1-1/2"	PI, C
1J-206- — 100' Bag 1A-206- — 500' Reel	3/8"	.275"	.050"	000000000	250 PSI	1 <i>5</i> 0 PSI	2.45	1-1/2"	PI, C
1J-207- — 100' Bag 1A-207- — 250' Reel 1AA-207- — 500' Reel	1/2"	.375"	.062"	000000	240 PSI	140 PSI	4.12	2-1/4"	PI, C
1J-213 50' Bag 1AA-213 250' Reel	5/8"	1/2"	.062"	00	170 PSI	100 PSI	5.30	3-1/4" Metric	PI, C
Part Number & Packaging	OD	ID	Wall	Standard Colors	Working	Pressure	lbs./	Bend	Fitting
Color Code Unit Size	mm	mm	mm		75°F/25°C	150°F/65°C	100'	Radius	' ming
1J-246 100' Bag 1C-246 500' Reel 1B-246 1000' Reel 1A-246 2500' Reel	3	1.8	.6	0	410 PSI	240 PSI	.33	6.3 mm	PI, C
1J-201 100' Bag 1C-201 500' Reel 1B-201 1000' Reel 1A-201 2500' Reel	4	2.7	.65	00000000000000000000000000000000000000	350 PSI	210 PSI	.51	12.7 mm	PI, C
1J-241 100' Bag 1A-241 1000' Reel	5	3	1	000000	420 PSI	250 PSI	.94	9.5 mm	PI, C
1J-242 100' Bag 1B-242 500' Reel 1A-242 1000' Reel	6	4	1	00000000	340 PSI	200 PSI	1.17	17 mm	PI, C
1J-243 100' Bag 1A-243 500' Reel	8	6	1	000000	250 PSI	150 PSI	1.64	38 mm	PI, C
1J-244 100' Bag 1A-244 500' Reel	10	8	1	000	190 PSI	110 PSI	2.11	51 mm	PI, C

 1A-244-_____500' Reel
 500' Reel

 1J-245-_____100' Bag

 1A-245-_____250' Reel
 12

 1A-245-_____500' Reel

 Variations Available:

15

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

Specifications

Vacuum Rating All: To 28" Hg.

Hardness

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

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

Working Pressure 4:1 Safety Factor

UV Stabilized All: Yes

Resin Compliance Meets UL94HB Testing Requirements

Suggested Fittings Push-In, Compression

D.O.T. Nylon 11

O.T. tubing is made using our standard Nylon. Type "A" Air Brake tubing is ideal for use on vehicles for instrumentation and pneumatic accessories connected to the air brake system. Type "A" Air Brake tubing is non-reinforced and meets SAE J844 specifications and is available in a variety of colors.



High Pressure Nylon 11

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 tubing. This advantage makes our Super Soft Nylon 11 the ideal choice where media and environmental conditions make polyurethane impractical.

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

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 1C-220- 500' Reel 1B-220- 1000' Reel 1A-220- 2000' Reel	1/8"	.023	0 05 07 08 09	1000 PSI	.34	3/8"	PI, C
1J-221 100' Reel 1C-221 500' Reel 1B-221 1000' Reel 1A-221 2000' Reel	5/32"	.032	000000	1200 PSI	.57	1/2"	PI, C
1J-222 100' Bag 1B-222 500' Reel 1A-222 2000' Reel	3/16"	.036	0 05 06 08 09	1200 PSI	.77	3/4"	PI, C
1J-223 100' Bαg 1B-223 500' Reel 1A-223 1000' Reel	1/4"	.040	000000000	1200 PSI	1.21	1"	PI, C
1J-225 100' Bag 1A-225 500' Reel	5/16"	.040	00000	1000 PSI	1.57	1-1/4"	PI, C
Variations Available:			Coiling • Colors • Cuttin	ng • Bonding • Pr	rinting •	Packaging	• Siz

D.O.T. Tubing

High Pressure Nylon 11

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors	Working Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
1J-280- — 100' Bag 1B-280 500' Reel	1/8"	.073"	.026"	<u>10</u>	800 PSI	.39	5/16"	PI, C
1A-2802500' Reel								
1J-281 100' Bag 1B-281 500' Reel	•	.109"	.039"	(10)	800 PSI	.88	7/16"	PI, C
1A-2812000' Reel								
1J-282 100' Bag 1B-282 500' Reel 1A-2821000' Reel		.150"	.050"	00	800 PSI	1.51	9/16"	PI, C
1J-283 100' Bag 1A-283 500' Reel	3/8"	.225"	.075"	Ô	800 PSI	3.39	1"	PI, C
1A-284 250' Reel 1AA-284 500' Reel	1/2"	.350"	.075"	(10)	530 PSI	4.81	2"	PI, C
Variations Available	e:			Coiling • Colors • C	utting • Printing	• Pack	aging •	Sizes
					6	6 6		
					Supe	r Sot	+ Nvlc	on 11



Super Soft Nylon			-			Super	Sot	r Nylc	on II
Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-260- 100' Bag 1C-260- 500' Reel 1B-260- 1000' Reel 1A-260- 2500' Reel	1/8"	.093"	.016"	00	200 PSI	120 PSI	.25	9/16"	PI, C
1J-261- 100' Bag 1C-261- 500' Reel 1B-261- 1000' Reel 1A-261- 2500' Reel	5/32"	.106"	.025"	00	220 PSI	130 PSI	.45	9/16"	PI, C
1J-264 100' Bag 1B-264 500' Reel 1A-2641000' Reel	1/4"	.180"	.035"	00	180 PSI	110 PSI	1.04	1"	PI, C
1J-265 100' Bag 1A-265 500' Reel	5/16"	.232"	.040"	00	170 PSI	100 PSI	1.52	1-1/4"	PI, C
1J-266- — 100' Bag 1A-266- — 500' Reel	3/8"	.275"	.050"	00	160 PSI	90 PSI	2.26	1-5/8"	PI, C
1J-267 100' Bag 1AA-267 500' Reel	1/2"	3/8"	.062"	00	140 PSI	80 PSI	3.80	2-1/2"	PI, C
								Metri	: Sizes

Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Wall mm	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-271 100' Bag									
1B-271 500' Reel	5	3	1	10	310 PSI	180 PSI	.95	12.7	PI, C
1A-271- — 1000' Reel									
1J-272 100' Bag									
1B-272 500' Reel	6	4	1	00	240 PSI	140 PSI	1.10	19.0	PI, C
1A-2721000' Reel									
1J-273 100' Bag	8	6	1	00	160 PSI	100 PSI	1.70	23.8	PI, C
1A-273 500' Reel	Ŭ	Ŭ	•		100101	100101	1.70	20.0	11, C
1J-274 100' Bag	10	8	1	00	120 PSI	70 PSI	2.20	28.6	PI, C
1A-274 500' Reel	10	U	•		120101	70101	2.20	20.0	11, C
1J-275 100' Bag	12	10	1	00	90 PSI	50 PSI	2.80	38.0	PI, C
1AA-275 500' Reel	12	10	1		70 - 51	50751	2.00	55.0	н, с
Variations Availables	;			Coiling • Colors • Cutting • Be	onding •	Printing •	Pack	aging •	Sizes

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Kynar[®] PVDF & FEP

Specifications

Temperature Range -40°F to +180°F **Vacuum Rating**

To 28" Hg **Diameter Tolerance**

 $\pm .005'$ Hardness

65 Shore D **Tube Markings**

None **Working Pressure**

4:1 Safety Factor **Resin Compliance**

FDA, USPVI UL 94 V0, NSF-51

Suggested Fittings Push-In, Compression

Kynar[®] Polyvinylidene Fluoride – 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 38.

Features

Resists:

Alcohol

Aliphatics

- Acids Aromatics
 - Mild Bases
 - Chloride
- Halogen • Fungus
- Radiation UV Light
- Out-gassing
- Sterilizable by Gamma Radiation or Ozone.
- Resists fungal growth per MS 810B, Method 508 testing.

Specifications

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

Vacuum Rating To 28" Hg **Diameter Tolerance**

±.005" Hardness

57 Shore D

Tube Markings None

Working Pressure 5:1 Safety Factor

Resin Compliance FDA Food Contact UL 94 VO, USP VI ASTM D 3296-03

Suggested Fittings Flare, Compression, Push-In



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 resin designed to resist stress cracking
- Low permeability
- High thermal stability and UV resistant
- Non-flammable/Self-extinguishing
- Superior electrical insulation properties
- Chemically inert to most industrial chemicals and solvents
- Available in colors



Kynai

Kynar[®] PVDF

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-681 100' Bag 1C-681 500' Reel 1B-6811000' Reel 1A-6812500' Reel	1/8"	1/16"	.030"	Ô	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"	00	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" Metric	•
Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Wall mm	Standard Colors		Pressure 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-692 100' Bag 1B-692 500' Reel 1A-6921000' Reel	6	4	1	Ô	195 PSI	115 PSI	1.88	15.9 mm	PI, C
Variations Available	:			Coiling • Colors • (Cutting •	Printing •	Pack	aging •	Sizes

Fluorinated Ethylene Propylene - FEP

Part Number & Packaging Color Code Unit Size	OD	ID	Wall	Standard Colors	Working Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
1J-900 100' Bag								
1C-900- 500' Reel	1 /0"	1 /1 / 1	020"		(00 PCI	0.0	1 /01	
1B-900- 1000' Reel	1/8"	1/16"	.030"	10	420 PSI	0.9	1/2"	PI, C
1A-900 2500' Reel								
1J-901 100' Bag								
1B-901 500' Reel	1/4"	3/16"	.030"	10	210 PSI	2.0	1.75"	PI, C
1A-901 3000' Reel								
1J-902 100' Bag								
1B-902 500' Reel	1/4"	1/8"	.062"	10	455 PSI	3.4	1/2"	PI, C
1A-902 1000' Reel								
1J-903 100' Bag	3/8"	1/4"	.062"		300 PSI	5.7	1"	
1A-903 1000' Reel	3/0	1/4	.062	10	300 P31	5.7	I	PI, C
1J-904 100' Bag	1/2"	2 /0"	.062"	10	010 DCI	0.0	2"	
1A-904- 1000' Reel	1/2	3/8"	.062	10	218 PSI	8.0	2	PI, C

							Metric	Sizes
Part Number & Packaging Color Code Unit Size	OD mm	ID mm	Wall mm	Standard Colors	Working Pressure 75°F/25°C	lbs./ 100'	Bend Radius	Fitting
1J-941 100' Bag 1C-941 500' Reel 1B-941 1000' Reel 1A-941 2500' Reel	4	2	1	(jō)	450 PSI	1.4	1.5"	PI, C
1J-942- 100' Bag 1B-942- 500' Reel 1A-942- 2500' Reel	6	4	1	10	301 PSI	2.3	1"	PI, C
1J-943 100' Bag 1A-943 1500' Reel	8	6	1	0	225 PSI	3.2	2.5"	PI, C
1J-944 100' Bag 1A-944 1500' Reel	10	8	1	(i)	125 PSI	4.1	2.75"	PI, C

Variations Available:

Coiling • Colors • Cutting • Packaging • Jacketing



Multi-Colored Ribbon (MCR)

Specifications

Temperature Range -40°F to +165°F

Vacuum Rating 85A-95A: To 28" 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 85A: NSF61

Meets UL94HB USPVI

Suggested Fittings

95A:	Barb, Push-	In, FX
85A:		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 any 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 below and 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

- Bond 2 to 20 tubes, up to 3.5" wide
- 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.



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"	00	135 PSI	.86	3/16"	В
2ME-013-01-10	Cut Length	.,.			100101		0,10	2
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	,					,	
6M-013-06-07-05-08-09-12	100' Bag	1/8"	.066"	06 07 05 08 09 12	135 PSI	2.58	3/16"	В
6ME-013-06-07-05-08-09-12	Cut Length	.,.					5,15	-
8M-013-11-04-32-27-26-28-29-25	100' Bag			(11) 04 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-013-10-10-10-10-10-10-10-10	100' Bag			10 10 10 10 10 10 10				
8ME-013-10-10-10-10-10-10-10-10	Cut Length			~~~~~~~~~				
2M-025-01-10	100' Bag	1/4"	1/8"	010	145 PSI	3.60	1/2"	В
2ME-025-01-10	Cut Length	., 4	1/0		140101	0.00	.,_	2
4M-025-26-28-29-25	100' Bag			26 28 29 25				
4ME-025-26-28-29-25	Cut Length							
4M-025-01-01-01-01	100' Bag	1/4"	1/8"	0000	145 PSI	7.20	1/2"	В
4ME-025-01-01-01-01	Cut Length	•						
4M-025-10-10-10-10	100' Bag			10 10 10 10				
4ME-025-10-10-10-10	Cut Length							
6M-025-06-07-05-08-09-12	100' Bag			06 07 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-025-10-10-10-10-10-10	100' Bag	., .	., -				.,_	
6ME-025-10-10-10-10-10-10	Cut Length			10 10 10 10 10 10				
8M-025-11-04-32-27-26-28-29-25	100' Bag	1/4"	1/8"	(11) 04 32 27 26 28 29 25	145 PSI	14.40	1/2"	В
8ME-025-11-04-32-27-26-28-29-25	Cut Length	1/4	1/0		143 53	14.40	1/2	D
Variations Available:				Coiling • Co	olors • Cutting	• Pack	aging •	Sizes



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	Fittin
2M-157-05-07	100' Bag	1/8"	.066"	0.507	255 PSI	00	1/4"	DD
2ME-157-05-07	Cut Length	1/8	.000		200 101	.88	1/4"	B, F
4M-157-05-07-11-10	100' Bag	1 /0"	0.4.4			1 70	1 / 41	
4ME-157-05-07-11-10	Cut Length	1/8"	.066"	05071110	255 PSI	1.72	1/4"	B, F
6M-157-08-06-05-07-11-10	100' Bag	1 /0"	0//"			0 (0	1 / / 11	
6ME-157-08-06-05-07-11-10	Cut Length	1/8"	.066"	<mark>08 06 05 07 11 1</mark> 0	255 PSI	2.60	1/4"	B, F
BM-157-25-27-08-06-05-07-11-10	100' Bag							
BME-157-25-27-08-06-05-07-11-10	Cut Length	1/8"	.066"	25 27 08 03 05 07 11 10	255 PSI	3.52	1/4"	B, F
2M-156-05-07	100' Bag							
2ME-156-05-07	Cut Length	5/32"	3/32"	0507	210 PSI	1.24	3/8"	B, F
4M-156-05-07-11-10	100' Bag							
4ME-156-05-07-11-10	Cut Length	5/32"	3/32"		210 PSI	2.48	3/8"	B, F
6M-156-08-06-05-07-11-10	100' Bag							
6ME-156-08-06-05-07-11-10	Cut Length	5/32"	3/32"	<mark>08 06 05 07 11 1</mark> 0	210 PSI	3.72	3/8"	B, F
2M-151-05-07	100' Bag							
2ME-151-05-07	Cut Length	1/4"	.160"	0507	175 PSI	2.88	1/2"	B, PI,
4M-151-05-07-11-10	100' Bag							
4ME-151-05-07-11-10	Cut Length	1/4"	.160"	05071110	175 PSI	5.76	1/2"	B, PI,
6M-151-08-06-05-07-11-10	100' Bag							
6ME-151-08-06-05-07-11-10	Cut Length	1/4"	.160"	<mark>08</mark> 0605071110	175 PSI	8.64	1/2"	B, PI,
3M-151-25-27-08-06-05-07-11-10	100' Bag							
BME-151-25-27-08-06-05-07-11-10	Cut Length	1/4"	.160"	25 27 08 06 05 07 11 10	175 PSI	11.52	1/2"	B, PI,
2M-152-05-07	100' Bag							
2ME-152-05-07	Cut Length	3/8"	.245"	0507	170 PSI	6.30	7/8"	B, PI,
4M-152-05-07-11-10	100' Bag							
4ME-152-05-07-11-10	Cut Length	3/8"	.245"	05071110	170 PSI	12.60	7/8"	B, PI,
	cor rengin						Metri	- Ci-
Part Number & Color Code	Packaging	OD	ID	Color Arrangement	Working Pressure	lbs./	Bend	Fittir
2M-156-05-07	Unit Size 100' Bag				75°F/25°C	100'	Radius	
2ME-156-05-07	Cut Length	4mm	2.4mm	05 07	210 PSI	1.24	9.5mm	B, I
4M-156-05-07-11-10	100' Bag							
4ME-156-05-07-11-10	Cut Length	4mm	2.4mm	03071110	210 PSI	2.48	9.5mm	B, I
6M-156-08-06-05-07-11-10	100' Bag							
6ME-156-08-06-05-07-11-10	Cut Length	4mm	2.4mm	<mark>08 06 05 07 11</mark> 10	210 PSI	3.72	9.5mm	B, I
2M-158-09-01	100' Bag							
2ME-158-09-01	Cut Length	6mm	4mm	<u>0</u> 201	160 PSI	2.42	12.7mm	B, I
4M-158-09-01-11-10	100' Bag							
4ME-158-09-01-11-10	Cut Length	6mm	4mm	02011110	160 PSI	4.84	12.7mm	B, I
2M-159-06-08	100' Bag							
2ME-159-06-08	Cut Length	8mm	5mm	<mark>08</mark> 08	190 PSI	4.72	19mm	B, I
4M-159-06-08-11-10	100' Bag							
4ME-159-06-08-11-10	Cut Length	8mm	5mm	<mark>06 08 (1)</mark> 10	190 PSI	9.44	19mm	B, F
4/11-137-00-00-11-10	Cor Length							
				<u> </u>			•	
Variations Available:				Coiling • Co	olors • Cutting	• Pacl	caging ·	• Siz

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"	05 07	190 PSI	75 PSI	5'	3.75'	3.75"	1"
2MC-156-10	5/32	3/32	o		190 - 51 75 - 51		10'	7.5'	9"	1"
2MC-151-5	1 / 41	1.40	0"				5'	3.75'	5.6"	1"
2MC-151-10	1/4"	.160"	8"	05 07	155 PSI	60 PSI	10'	7.5'	13.25"	1"
2MC-152-5	0 /01	0.45"	0"		1.50 001		5'	3.75'	5"	1.75"
2MC-152-10	3/8"	.245"	8"	0507	150 PSI	60 PSI	10'	7.5'	11.5"	1.75"
Variations	Variations Available: Colors • Cutting • Packaging • Sizes									

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Spatter Guard SRT

Specifications

Temperature Range -40°F to +165°F

Vacuum Rating To 28" Hg.

Diameter Tolerances ±.005"

Hardness:

58D Tube Markings FW Specifications

Working Pressure 3:1 Safety Factor

Resin Compliance Meets UL94V0

Suggested Fittings Push-In & Compression Spatter Guard SRT is made from a 94V0 polyurethane resin that has been specifically formulated to resist against weld spatter without the need of an outer jacket. While this new tubing can be used in any application where you are currently using the jacketed version, it has a higher working pressure making it even better suited for industrial applications. This resin resists oils, greases, heat-aging, ultra-violet light, and is silicone and halogen free. And because it is polyurethane, it is kink resistant, abrasion resistant, and it can also be bonded and formed into retractable coils. Spatter Guard SRT works with push to connect and compression fittings without the need for boots or skiving saving you time and money.

Features

- Protects tube from incidental weld spatter contact.
- No skiving necessary
- Resistant to kink damage.
- Broad range of chemical resistance.
- Can be formed into retractable coils.



Spatter Guard SRT

Part Number & Color Code	Packaging Unit Size	OD	ID	Standard Colors	Working Pressure 75°F/25°C 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-376 1C-376 1B-376 1A-376	100' Bag 500' Reel 1000' Reel 2500' Reel	5/32"	.093"	000000	215 PSI 105 PSI	0.68	9/16″	PI,C
1J-371 1B-371 1A-371	100' Bag 250' Reel 1000' Reel	1/4"	.160"	00000	180 PSI 90 PSI	1.59	1"	PI,C
1J-372 1A-372	100' Bag 500' Reel	3/8"	.245"	000000	170 PSI 85 PSI	3.48	1"	PI,C
1J-386 1A-386	50' Bag 200' Reel	1/2"	.320"	000000	170 PSI 80 PSI	6.37	1-1/8" Ma	PI,C etric Sizes
Part Number & Color Code	Packaging Unit Size	OD	ID	Standard Colors	Working Pressure 75°F/25°C 150°F/65°C	lbs./ 100'	Bend Radius	Fitting
1J-376 1C-376 1B-376 1A-376	100' Bag 500' Reel 1000' Reel 2500' Reel	4	2.4	000001	215 PSI 105 PSI	0.68	.562mm	PI,C
1J-398 1B-398 1A-398	100' Bag 250' Reel 1000' Reel	6	4	00000	160 PSI 80 PSI	1.34	25.4mm	PI,C
1J-399 1A-399	100' Bag 500' Reel	8	5	0000000	190 PSI 85 PSI	2.61	23.8mm	PI,C
1J-390 1A-390	50' Bag 500' Reel	10	6.5	000000	170 PSI 85 PSI	3.86	25.4mm	PI,C
1J-391 1A-391	50' Bag 250' Reel	12	8	0000000	150 PSI 70 PSI	5.34	28.6mm	PI,C
Variations Availa	ble:		Coilir	ng • Colors • Cutting •	Bonding • Printing	• Pac	caging •	Sizes



Weld Spatter Resistant Tubing

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 resists incidental weld spatter contact. The outer cover base resin meets UL94V0 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.

Specifications

Temperature Range -40°F to +165°F

Vacuum Rating To 28" Hg.

Diameter Tolerances ±.005"

Tube Markings FW Specs

Working Pressure 3:1 Safety Factor

Resin Compliance Outer Jacket: UL94V0 Inner Tube: UL94HB

Suggested Fittings Push-In, Compression, Barb



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

	ckaging nit Size	OD	ID	Standard Colors	Working I 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
1J-356-07 _ 10 1B-356-07 _ 50 1A-356-07 _ 100	00' Reel	5/32"	.093"	65 07	210 PSI	85 PSI	1.58	3/8"	PI, C B
	50' Reel	1/4"	.160"	06800811	175 PSI	70 PSI	2.89	1/2"	PI, C B
1J-352-07 _ 10 1A-352-07 _ 50	•	3/8"	.245"	00	170 PSI	70 PSI	5.25	7/8"	PI, C B
—	50' Bag 00' Reel	1/2"	.320"	0	175 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 Pressure 75°F/25°C 150°F/65°	lbs./ C 100'	Bend Radius	Fitting
1J-358-07 _ 100' Bag 1B-358-07 _ 250' Reel 1A-358-07 _ 1000' Reel	6	4	Ø	160 PSI 65 PSI	2.59	12.7 mm	PI, C B
1J-359-07 _ 100' Bag 1A-359-07_ 500' Reel	8	5	001	190 PSI 75 PSI	4.15	19 mm	PI, C B
1J-360-07 _ 100' Bag 1A-360-07 _ 500' Reel	10	6.5	00	170 PSI 70 PSI	5.71	22.2 mm	PI, C B
1J-361-07 _ 50' Bag 1A-361-07_ 250' Reel	12	8	0	155 PSI 60 PSI	7.43	28.6 mm	PI, C B
Variations Available:			Coiling • Colors • Cuttin	ng • Bonding • Print	ng•Pa	ckaging •	Sizes

Also known as Spark-Lin®

US Toll Free: 888-373-9233



Static Dissipative Polyurethane

Specifications

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

Surface Resistivity: 85A: 1x10¹¹ ohms/sq 90A: 9.9x10° ohms/sq

Working Pressure 3:1 Safety Factor UV Stabilized 90A & 85A Resin Compliance

85A: FDA Suggested Fittings

Barb

Static electricity is a stationary charge of electricity resting on an object's surface. With plastic tubing, the charge is usually generated 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, please 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.
- Ideal for low humidity environments.
- Non-corrosive to electronic leads and components.

85A 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-413- 100' Bag 1C-413- 500' Reel 1B-413- 1000' Reel 1A-413 2500' Reel	1/8"	1/16"	.031"	() 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"	O O O O 25 27 28 49 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"	() 81	120 PSI	60 PSI	1.91	1/2"	В
1J-405 100' Bag 1A-405 500' Reel	3/8"	.245"	.065"	() 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		lbs./ 100'	Bend Radius	Fitting
1J-458 100' Bag 1B-458 500' Reel 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	() 81	80 PSI	40 PSI	2.84	19 mm	В
Variations Available	e:			Coiling • Colors • Cutting • Bo	onding • I	Printing •	Pack	aging •	Sizes

90A Static Dissipative Polyurethane

Part Number & Packagin Color Code Unit Size		ID	Wall	Standard Colors	Working I 75°F/25°C		lbs./ 100'	Bend Radius	Fitting
1J-486-90 _ 100' Bo 1C-486-90 _ 500' Ro 1B-486-90 _ 1000' Ro 1A-486-90 _ 2500' Ro	el 5/32" el	3/32"	.031"	000000	105 PSI	50 PSI	.61	3/8"	В
1J-451-90 _ 100' Bo 1B-451-90 _ 500' Ro 1A-451-90 _ 1000' Ro	el 1/4"	.160"	.045"	o	115 PSI	60 PSI	1.46	3/4"	В
1J-452-90 _ 100' Bo 1A-452-90 _ 500' Re	3/8"	.245"	.065"	•	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 P 75°F/25°C 1		lbs./ 100'	Bend Radius	Fitting
1J-486-90 _ 100' Bag 1A-486-90 _2500' Reel	4	2.4	.8	000000	105 PSI	50 PSI	.80	9.5 mm	В
1J-488-90 100' Bag 1B-488-90 500' Reel 1A-488-901000' Reel	6	4	1	0 0 0 0 81	90 PSI	45 PSI	1.3	12.7 mm	В
1J-489-90 _ 100' Bag 1A-489-90 _ 500' Reel	8	5	1.5	00	100 PSI	50 PSI	2.6	19 mm	В
1J-490-90 _ 50' Bag 1A-490-90 _ 500' Reel	10	6.5	1.75	6 307	100 PSI	50 PSI	3.9	22.3 mm	В
1J-491-90 _ 50' Bag 1A-491-90 _ 250' Reel	12	8	2	0	90 PSI	45 PSI	5.3	28.6 mm	В
Variations Available:				Coiling • Colors • Cutting • B	onding • P	rinting •	Pack	aging •	Sizes

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

Specifications

Temperature Range Purflex -40°F to +165°F Flexi-Corr -20°F to +160°F Asepsi-Flex -30°F to +150°F Vacuum Rating To 28" Hg.

Diameter Tolerances Purflex ±.005"

Working Pressure Purflex 4:1 Safety Factor

UV Stabilized Purflex Yes Flexi-Corr Yes

Resin Compliance Purflex NSF61, USPVI, Meets UL94HB Flexi-Corr FDA

Suggested Fittings Purflex Barb 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-Corr[™]

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.

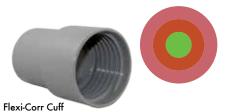
Asepsi-Flex[®]

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 Cut Length	.470"	1/4"	.110"	0	230 PSI	150 PSI	6.0	3/4"	В
1A-801-10 1E-801-10	100' Reel Cut Length	.630"	3/8"	.127"	10	1 <i>55</i> PSI	100 PSI	9.9	1-1/2"	В
1A-802-10 1E-802-10	100' Reel Cut Length	.750"	1/2"	.125"	(10)	125 PSI	80 PSI	12.0	2"	В
1A-803-10 1E-803-10	100' Reel Cut Length	.905"	5/8"	.140"	10	105 PSI	70 PSI	16.4	2-3/4"	В
1A-804-10 1E-804-10	100' Reel Cut Length	1.025"	3/4"	.137"	(D)	90 PSI	60 PSI	18.6	3"	В
1A-805-10 1E-805-10	100' Reel Cut Length	1.300"	1"	.150"	10	75 PSI	50 PSI	26.2	5"	В
Variations	- U	:			Coiling • Cutting • B	onding •	Printing •	Pack	aging •	Sizes





Flexi-Corr™ 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 50' Length	1/2"	04 54 72 92	1 <i>5</i> PSI	6.8	29 Hg	0C-012
1E-053 25' Length 1F-053 50 Length	5/8"	C 54 72 92	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"	04 54 72 92	5 PSI	52.0	20 Hg	0C-200
					Cuttin	g • Packaging

Asepsi-Flex[®] PVC Vacuum Hose

Part Number & Color Code	Packaging Unit Size	ID	Standard Colors	Maximum Vacuum
1E-501 1F-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.
				Cutting • Packaging

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.

Flexeel® Polyurethane Straight Hose



Flexeel[®] 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 Yes

Resin Compliance NSF61, UL94HB Suggested Fittings Reusable with Strain Relief

Part Number & Color Code	Packaging Unit Size	OD	ID	Standard Colors	Bend Radius	Fitting		
PFE4025						None		
PFE40254	25'	3/8"	1/4"	T IR TY	7/8"	Reusable Strain Relief	1/4	MPT
PFE40256						Reusable Strain Relief	3/8	MPT
PFE4050						None		
PFE40504	50'	3/8"	1/4"	TRT	7/8"	Reusable Strain Relief	1/4	MPT
PFE40506						Reusable Strain Relief	3/8	MPT
PFE4100						None		
PFE41004	100'	3/8"	1/4"	T TR TY	7/8"	Reusable Strain Relief	1/4	MPT
PFE41006						Reusable Strain Relief	3/8	MPT
PFE4500	500'	3/8"	1/4"	TRT	7/8"	None		
PFE42000	2000'	3/8"	1/4"	T TR TY	7/8"	None		
PFE5025		(70)				None		
PFE50254	25'	.473"	5/16"		1 1/4"	Reusable Strain Relief	1/4	MPT
PFE5050		(=0"				None		
PFE50504	50'	.473"	5/16"	TRTY	1 1/4"	Reusable Strain Relief	1/4	MPT
PFE5100						None		
PFE51004	100'	.473"	5/16"		1 1/4"	Reusable Strain Relief	1/4	MPT
PFE5250	250'	.473"	5/16"		1 1/4"	None		
PFE51500	1500'	.473"	5/16"	TIRIT	1 1/4"	None		
PFE6025			·			None		
PFE60254	25'	9/16"	3/8"		1 1/2"	Reusable Strain Relief	1/4	MPT
PFE60256						Reusable Strain Relief	3/8	MPT
PFE6050						None		
PFE60504	50'	9/16"	3/8"	TRT	1 1/2"	Reusable Strain Relief	1/4	MPT
PFE60506			,		,	Reusable Strain Relief	•	MPT
PFE6100						None		
PFE61004	100'	9/16"	3/8"		1 1/2"	Reusable Strain Relief	1/4	MPT
PFE61006		·			·	Reusable Strain Relief	3/8	MPT
PFE6200	200'	9/16"	3/8"	TRT	1 1/2"	None	•	
PFE61000	1000'	9/16"	3/8"	TRT	1 1/2"	None		
PFE8025		•	•		·	None		
PFE80258	25'	.700"	.440"	T	1 5/8"	Reusable	1/2	MPT
PFE8050						None		
PFE80508	50'	.700"	.440"		1 5/8"	Reusable	1/2	MPT
PFE8100						None		
PFE81008	100'	.700"	.440"	T	1 5/8"	Reusable	1/2	MPT
PFE8200	200'	.700"	.440"		1 5/8"	None	.,-	
PFE8500	500'	.700"	.440"	T	1 5/8"	None		
		.,		-	, .			

Variations Available:

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





Flexeel[®] Coiled Polyurethane Hose

Part Number, Fitting & Color Code	Fitting Options	Standard Colors	Material Length	Working Length	Retracted Length	OD	ID	Coil OD	Working Pressure	Weight
PUE14-10 / PUE14-15 / PUE14-20 PUE14-25	_= (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 lb .59 lb .74 lb .88 lb
PUE516-20	_= (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 lb. .89 lb. 1.11 lb 1.32 lb
PUE38-10 PUE38-15 PUE38-20 PUE38-25	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 lb 1.40 lb 1.85 lb 2.25 lb
Reusable Fitting	gs – No Strain Re = (2) 1/4" Pigid	lief	10'	8.5 '	9"					.41 lb
	(2) 1/4 Rigid		15	12.5	145"					501

PRE14-10= (2) 1/4" Rigid 10" 8.5"	9" .41 lbs.
PRE14-15 A= (1) 1/4" Rigid & T TR TY 201 12.5"	" 14.5"
PRE14-20 (1) 1/4" Swivel 20' 17'	19.5" 578 174 1 574 200 F31 .74 lbs.
PRE14-25 B= (2) 1/4" Swivel 25' 21'	26.5" .88 lbs.
PRE516-10 10' 8.5 '	9.5" .68 lbs.
PRE516-154B= (2) 1/4" Swivel 15' 12.5'	' 15.5" .473" 5/16" 2 3/16" 200 PSI
PRE516-20 B= (2) 3/8" Swivel TRT 20' 17'	21"
PRE516-25 25' 21'	26.5" 1.32 lbs.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10.5" 1.00 lbs. 16.7" 9/16" 3/8" 27/8" 200 PSI 1.40 lbs. 23" 1.85 lbs. 29" 2.25 lbs.

Colors • Cutting • Bonding • Printing • Packaging • Sizes • In addition to color choice, select fittings for both ends of the coil.

Variatio<u>ns Available:</u>

US Toll Free: 888-373-9233

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. Standard sized coils have two straight "tails" (8" and 16") to position tubing away from tools.

Flexcoil[®]

Specifications

Temperature Range -40°F to +125°F

Vacuum Rating To 28" Hg.

Diameter Tolerances ±.005"

Hardness 95A

Working Pressure 3:1 Safety Factor

Working Length 80-90% of Material Length

Resin Compliance 95A: NSF61 Meets UL94HB

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.

🕝 Neon Green

Yellow

Available in:

- Blue
- 🖪 Red

Transparent Blue

Rigid Fitting with Strain Relief

Standard Tail Lengths 8" and 16"

Swivel Fitting with Strain Relief

Flexcoil[®] Coiled Polyurethane 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	- (2) 1/4"D:		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		20'	1 <i>7</i> '	14 1/2"					.56 lbs.
PU316-25	D- (2) 1/4 Swiver		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'	17'	13"	3/8"	1/4"	2 1/2"	145 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	A= (1) 3/8" Rigid	000	15'	12.5'	11 1/2"					.89 lbs.
PU516-20	(1) 3/8" Swivel	BGR	20'	1 <i>7</i> '	15"	15/32"	5/16"	2 15/16"	130 PSI	1.11 lbs.
PU516-25	B= (2) 3/8" Swivel	YT	25'	20'	19"					1.32 lbs.
PU516-30	D- (2) 3/0 Swiver		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	= (2) 3/8" Rigid A= (1) 3/8" Rigid	BGR	20'	17'	11"	9/16"	3/8"	4 1/8"	135 PSI	1.85 lbs.
PU38-25		ΥΤ	25'	20'	14"	7/10	3/0	4 1/0	133 131	2.25 lbs.
PU38-30			30'	25.5'	17"					2.63 lbs.
PU38-50	B= (2) 3/8" Swivel		50'	42.5'	27 1/2"					3.23 lbs.

Variations Available:

Colors • Printing • Packaging

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



 Available in:

 B Blue
 © Neon Green

 Red
 Y Yellow

 T Transparent Blue

See page 34 for Fre-Thane $\ensuremath{^{\textcircled{\tiny B}}}$ coils without fittings.

Standard Tail Lengths 8" and 16"

Flexcoil[®] Coiled Polyurethane with Reusable Fittings

										1.0
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'	17'	12 1/2"	1/4"	.160"	1 1/2"	150 PSI	.46 lbs.
PR532-25		Y T	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		ΥΤ	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	000	15'	12.5'	9 1/2"					.59 lbs.
PR14-20	A= (1) 1/4" Rigid	BGR	20'	17'	13"	3/8"	1/4"	2 1/2"	145 PSI	.74 lbs.
PR14-25	(1) 1/4" Swivel	Y T	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	(D- (O) 1/40 C 1	000	15'	12.5'	11 1/2"					.89 lbs.
PR516-20	4B=(2) 1/4" Swivel	BGR	20'	17'	15"	15/32"	5/16"	2 15/16"	130 PSI	1.11 lbs.
PR516-25	B= (2) 3/8" Swivel	YT	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'	17'	11"	9/16"	3/8"	4 1/8"	135 PSI	1.85 lbs.
PR38-25	= (2) 3/8" Rigid	Y T	25'	20'	14"	7/10	3/0	4 1/0	155 551	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.
	B= (2) 3/8" Swivel									
PR12-10			10'	8'	7"					2.14 lbs.
PR12-15			15'	12.5'	11 3/4"					2.95 lbs.
PR12-20	B= (2) 1/2" Swivel	BGR	20'	17'	16 1/2"	3/4"	447"	4.5"	155 PSI	3.77 lbs.
PR12-25	D- (Z) 1/Z JWIVEI	YT	25'	20'	23"	3/4	.467"	4.5	100 801	4.60 lbs.
PR12-30			30'	25.5'	28"					5.35 lbs.
PR12-50			50'	42.5'	40"					7.75 lbs.

Colors • Printing • Packaging

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

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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. Contact Customer Service for more information.

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 -60°F to +180°F

Vacuum Rating To 28" Hg.

Diameter Tolerances ±.004"

Working Pressure 4:1 Safety Factor

Tube Markings FW Specifications

Resin Compliance Meets UL94HB Testing Requirements

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 / 41	185 PSI	110 001	25'	19'	10"	2.1./2#	1/4"	.62 lbs.
N14-50B	.309	1/4"	100 101	110 PSI	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"	2 /0"	165 PSI	100 001	25'	19'	9"	E E /01	3/8"	1.62 lbs.
N38-50B	.4/0	3/8"	100 101	100 PSI	50'	37.5'	18-1/4"	5-5/8"	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	.625"	1 /2"	170 PSI	110 001	25'	19'	8-1/2"	9"	1/2"	.562 lbs.
N12-50B	.025	1/2"	170 PSI	110 PSI	50'	37.5'	15-1/2"	Y	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 -60°F to +180°F Vacuum Rating

To 28" Hg. Tube Diameter Tolerances

±. 004 **Tube Markings** FW Specifications

Standard Tail Lengths 2" on each end 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.

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						4.4'	3-1/2'	3"	
N1066	5/32"	.106"	0] 03 05 06 07 08 09 10	298 PSI	179 PSI	8.8'	7'	6"	1.312"
N10612	5/32"	.100		298 851	179 251	17.5'	14'	12"	1.312
N10624						35'	28'	24"	
N1706						5'	4'	6"	
N1709						6.9'	5-1/2'	9"	
N17012	1/4"	.170"	0] 03 05 06 07 08 0 2 10	280 PSI	170 PSI	9.4'	7-1/2'	12"	1.750"
N17024						19.4'	15-1/2'	25"	
N17036						28'	22-1/2'	36"	
Variations	Available	e:			Colo	ors • Priu	nting • Po	ackaging	• Sizes

🗲 Retracted Length 🔶

Coil Terminology

Coil 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.

16" Tail



Tail



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.

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.

Standard Tail Lengths

8" and 16"

Specifications

Temperature Range -40°F to +125°F

Vacuum Rating To 28" Hg.

Diameter Tolerances ±.005"

Working Pressure 3:1 Safety Factor

UV Stabilized 95A & 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	0 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	00200000000000000000000000000000000000	125 PSI	50 PSI	10'	8'	5"	3/4"
1W-132	1/4"	.159"	90A	0 07 08 10 14 25 27	115 PSI	45 PSI	10'	8'	5"	3/4"
1W-005	2 /0"	245"	004	0000000022	105 PSI	40 PSI	10'	8'	7.5"	11/4
1Z-005	3/0	.245	90A		105 -51	40 131	25'	20'	22"	1-1/4'
1W-151	1/4"	.16"	95A				10'	8'	7"	
1X-151	1/4"	.16"	95A	0] 04 05 06 07 08 09 10 11 12	150 PSI	60 PSI	15'	12.5'	9.5"	1"
1Y-151	1/4"	.16"	95A	25 <mark>26 27</mark> 28 46	150 - 51	00 - 51	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		120 001		15'	12.5'	9.5"	1 2 / 41
1Y-152	3/8"	.245"	95A		130 PSI	60 PSI	20'	17'	13"	1-3/4
1Z-152	3/8"	.245"	95A	27 28 37 46			25'	20'	16"	
Variations	Avail	able:		Colors	• Cuttin	g • Bondi	ng • Pri	nting • P	ackaging	• Size

Metric 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	Tail Length
1W-156	4mm	2.4mm	95A	0 00000000			3.05 M	2.6 M	133.4mm		
1X-156	4mm	2.4mm	95A	01 02 04 05 06 07 08 0	2 10 165 PSI	85 PSI	4.57 M	3.8 M	216mm	10.1	.99/33.9mm
1Y-156	4mm	2.4mm	95A	11 12 25 26 27 28 29 3	7	05 1 51	6.1 M	5.2 M	292mm	17.11111110	.77/55.711111
1Z-156	4mm	2.4mm	95A				7.62 M	6.4 M	381mm		
1W-158	6mm	4mm	95A				3.05 M	2.6 M	139.7mm		
1X-158	6mm	4mm	95A	000000000000000000000000000000000000000	0 135 PSI	65 PSI	4.57 M	3.8 M	241.3mm	25 Amm 16	.9/33.9mm
1Y-158	6mm	4mm	95A	(11) 25 26 27 28 37	100101	00101	6.1 M	5.2 M	330mm	23.41111110	.7/00.71111
1Z-158	6mm	4mm	95A				7.62 M	6.4 M	419mm		
1W-159	8mm	5mm	95A				3.05 M	2.6 M	152.4mm		
1X-159	8mm	5mm	95A	000000000000000000000000000000000000000	5 160 PSI	75 PSI	4.57 M	3.8 M	254mm	21 0	.99/33.9mm
1Y-159	8mm	5mm	95A	27 37 46	100 - 51	75 - 51	6.1 M	5.2 M	343mm	51.0mm 10	.77/33.711111
1Z-159- —	8mm	5mm	95A				7.62 M	6.4 M	444.5mm		
1W-160	10mm	6.5mm	95A				3.05 M	2.6 M	139.7mm		
1X-160	10mm	6.5mm	95A	0003030708 10 27	135 PSI	70 PSI	4.57 M	3.8 M	228.6mm	44.5mm 16	.9/33.9mm
1Y-160	10mm	6.5mm	95A		155 F31	70 131	6.1 M	5.2 M	317.5mm	44.Jinm 10	.7/33.7mm
1Z-160	10mm	6.5mm	95A				7.62 M	6.4 M	406.4mm		

Variations Available:

Colors • Cutting • Bonding • Printing • Packaging • Sizes



Multi-Bore Polyurethane

Specifications

Temperature Range -40°F to +125°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 Barb

Standard Tail Lengths 8" and 16"



Multi-Bore Polyurethane

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 push-in fittings.

If you require more colors than are listed here, consider using our Multi-Colored Ribbon (MCR). See page 20 for more information about MCR.



85A Multi-Bore Polyurethane

	aging t Size	OD	ID	Configuration	Standard Colors	Working 75°F/25°C		lbs./ 100'	Fitting
3J-028 100 3A-028 1000		1/8"	.066"	Triple Tube	10 14	125 PSI	50 PSI	1.7	В
4J-026 100 4A-026 500)'Bag)'Reel	1/8"	.066"	Quad Tube	10	125 PSI	50 PSI	2.2	В
2J-016 100 2A-016 500		1/4"	1/8"	Twin Tube	000027	150 PSI	60 PSI	4.1	В
4J-023 50 4A-023 250)'Bag)'Reel	1/4"	1/8"	Quad Tube	10	150 PSI	60 PSI	8.4	В

90A 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
2J-006 100' Bag 2B-006 1000' Reel 2A-006 2000' Reel	1/8"	1/16"	Twin Tube	0 10 14	190 PSI 75 PSI	1.1	В
2J-013 100' Bag 2A-013 500' Reel	1/4"	.159"	Twin Tube	14	130 PSI 50 PSI	2.9	В
Variations Available				Coiling • Cutting • Bo	nding • Printing • Pack	aging	• 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	0 10 14	160 PSI	65 PSI	7'	5'	6"	3/4"
2W-016	1/4"	1/8"	Twin 85A	00002	130 PSI	50 PSI	10'	8'	12.5"	1"
4W-023	1/4"	1/8"	Quad 85A	0	130 PSI	50 PSI	10'	7'	21"	1-1/4"
Variations	Avail	able:					Cuttir	ng • Prin	ting • Pa	kaging

Jacketing & Accessories



PVC Jacketed Bundles

Freelin-Wade's PVC Jacketed Bundles are an excellent way to color code a pneumatic system in a neat flexible package. Jacketing your tubing lines is an attractive and easy way to organize your tubing. It saves time over tie wrapping and creates a more user friendly assembly.

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	250' 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- <u></u>	100' Box	1/2"	3/8"	00	3.4
1A-078-	250' Reel				

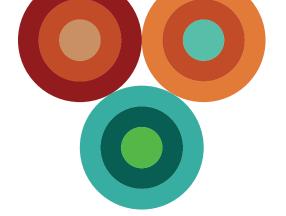


Tubing Cutters & Replacement Blades

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

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
PXC058-L	Black Tubing Cutter w/Red Leash	PXC059-P10	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



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.

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 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	"H" Clip Part Number	Fits Tubing Size
HTC-156-200	.156" – .200"	HTC-486-575	.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"



Tube Channels

10 10 10

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		l Channel Number	Tubing Size OD
PTC6-7	3/8	7	TC	C5-10	5/32
PTC6-10	3/8	10	TC	C3-10	3/16
PTC8-6	1/2	6	TC	C4-10	1/4



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.

Rating Scale

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

			-		
Acetic Acid, Glacial	PUR 4	PE 2	PVC 4	Nylon	Kynar 1
Acetic Acid, 30%	4	1	4	2	i
Acetone Acetylene	4	2 4	4	1	4
Alkazene	4	-		-	-
Aluminum Chloride (aq) Aluminum Nitrate (aq)	3	2	1		1
Ammonia Anhydrous	4	2	1	:	4
Ammonia Anhydrous Ammonia Gas (cold) Ammonia Gas (hot)	3 4	-	3	1	4
Ammonium Chloride (ag) 40%	2	1	1	-	1
Ammonium Sulfate (aq)	1	1	1	1	1
Amyl Alcohol Amyl Naphthalene	4	2	1	-	1
Animal Fats	1	-		-	-
Aqua Regia Arsenic Acid	4	2	3	-	1
Asphalt	2	ī	1	-	i
ASTM Fuel A	2	-	-	-	-
ASTM Fuel B ASTM Fuel C	3	i	4	-	-
Barium Chloride (aq)	1	2	1	1	1
Beer Beet Sugar Liquors	2 4	2	1	1	1
Benzene	3	4	3	1	1
Benzine	2	•	-	-	
Blast Furnace Gas Bleach Solutions	4	1	1	-	1
Borax	1	1	1	-	1
Boric Acid Brake Fluid	1	1	1		1
Brine	2	-	3	-	1
Bromine Water Bunker Oil	4	-	3	4	1
Bunker Oil Butane	1	3	3	1	1
Butter	1	•	-	-	-
Butyl Alcohol (Butanol) Butylene	3 4	1	3	1	1
Calcium Chloride (aq)	1	1	3	1	1
Calcium Hydroxide (aq)	2	1	2	;	1
Calcium Nitrate (aq) Calcium Sulfide (aq)	1	-	1	1	1
Cane Sugar Liquors	4	-	1	-	1
Carbolic Acid Carbon Dioxide	3	4	3	-	i
Carbon Dioxide Carbonic Acid	4	2	i	-	1
Carbon Monoxide Carbon Tetrachloride	1	2	1	- 3	1
Castor Oil	1	1	1	-	i
Chlorine (dry)	4	3	4	4	1
Chlorine (wet) Chloroform	4	3 4	- 4	4	1
Chlorox	4	-	-	-	-
Chromic Acid 50%	4	1	4	4	1
Citric Acid Coal Tar (Creosote)	1	1	- 2	1	1
Coal Tar (Creosote) Coconut Oil	2	1	1	-	1
Cod Liver Oil Coke Oven Gas	1	1	1		-
Coke Oven Gas Copper Chloride (aq) Copper Cyanide (aq)	ī	2	1	-	1
Copper Cyanide (aq) Corn Oil	1	2	1 2	-	1
Cotton Seed Oil	1	1	2	-	1
Creosol (Methyl Phenol)	4	4	4	4	1
Cychlohexane Denatured Alcohol	1	4	4	1	1
Detergent Solution	3	1	1	-	-
Diesel Oil	2	3	1	•	-
Dioxane Dowtherm Oil	3	3			4
Dry Cleaning Fluids	4	-	-	-	-
Ethane Ethyl Acrylate	1	-	1	-	1
Ethyl Alcohol (Ethanol)	4	2	3	3	i
Ethyl Benzine Ethyl Cellulose	4	-	-	-	-
Ethyl Cellulose Ethyl Chloride	2	4	4		1
Ethyl Ether	3	4	4	•	1
Ethylene Chloride Ethylene Glycol⁵ (Anti-Freeze)	4	4	4	-	-
thylene Oxide	4	3	3	i	i
thylene Oxide Thylene Trichloride Ferric Chloride (aq)	4	4	1	-	1
Ferric Nitrate (aq)	1	2	1	-	1
Ferric Nitrate (aq) Ferric Sulfate (aq)	2	1	1	-	1
luroine (Liquid) ormaldehyde (RT)	4	3 2	4	4	1
ormic Acid	4	2	1	4	1
Freon 11	4	3	1	-	-
Freon 12 Freon 22	1 4	1	1	1	-
⁻ uel Oil (Bunker 'C')	2	3	1	-	1
Gasoline (100 Octane, High Test) Glue	3 1	4	3 3	1	1
Glycerin (Glycerol)	1	1	1	1	i
Glycols Green Sulfate Liquor	4	•	•	1	•
Hexane	1 2	4 ¹	- 2 ²		- 1
Hydraulic Oil	1	1-3	1	-	-
Hydrochloric Acid (cold) 37% Hydrochloric Acid (hot) 37%	4	2	2	4	1
Hydrofluroic Acid (Conc.) (cold)	4	2	-	-	1
Hydrofluroic Acid (Conc.) (cold) Hydrofluroic Acid (Conc.) (hot)	4	-	-	-	1
Hydrogen Gas Isobutyl Alcohol	1 3	1	1	1	1
sooctane	2	3	1		1
sopropyl Acetate sopropyl Alcohol (Isopropanol)	4	3	4	-	-
sopropyl Alconol (Isopropanol) Isopropyl Ether	2	1	2	-	1
Kerosene	1	4	2	1	1

	PUR	PE	PVC	Nylon	Kynar
acquers	4	1	4	-	- Andr
Lacquer Solvents	4	1	3	-	-
Lard Lavender Oil	1	1	1	•	1
Lavender Oil Lead Acetate (aq)	4	- 1	- 1		-
Linseed Oil	2	3	1	1	1
Liquified Petroleum Gas	1 1-2 ³	4	2	1	1
Lubricating Oils Lye	4	1-44	∠ 1-2	•	•
ye Magnesium Chloride (aq) Magnesium Hydroxide (ag)	1	2	1	1	1
Magnesium Hydroxide (aq) Mercury	4	2 1	1	1	1
Methane	3	-	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	-	1		•
Methyl Chloride	4	4	4	1	1
Methylene Chloride Methyl Ethyl Ketone	4		4	1	4
wernyi isoburyi kerone	4	2	4	1	4
Milk Mineral Oil	4 1	1	1	1	1
Motor Oil 20W, 10W40	2	3	2	1	1
Naphtha (Lighter Fluid)	2	4	1	1	1
Naphthalene (Moth Repellent) Natural Gas	2	2	4		1
Natural Gas Neatsfoot Oil	1	-	-	-	-
Nitric Acid /0%	4	2	i	4	1
Nitric Acid (Dilute) 10% Nitroethane	3 4	2	1	4	1
N-Octane	4	1	-	-	1
Oleic Acid	2 3	1	3	1	1
Oleum Spirits Olive Oil	3	4	4		4
Oxygen (cold) Oxygen (200-400F) Paint Thinner, Duco	1	-	-	1	1
Oxygen (200-400F)	4	•	•	-	•
rerchioric Acid	4	1	3	-	1
Perchloroethylene	4	4	3	3	1
Petroleum - Below 250F Petroleum - Above 250F	2	3	-	4	1
Phenol (Carbolic Acid)	3	2	3-4	4	i
Phenyl Ethyl Ether	4	-	-	-	-
Phosphoric Acid - 45% Pickling Solution	4	1	2	2	1
	2	1	4	3	1
Potassium Acetate (aq)	4	-	-	-	1
Potassium Critoriae (aq)	1	2	1		1
Protassium Acetate (aq) Potassium Chloride (aq) Potassium Cyanide (aq) Potassium Hydroxide (aq) Producer Gas	4	ī	1	3	4
	1	1	1	-	-
Propane Propyl Alcohol (Propanol)	4	4	1	1	1
Propylene	4	-	2	-	-
Propylene Glycol (Anti-Freeze)	3 4	1	3	2	1
Pydraul, 10E, 29 ELT	4	-	-	-	-
Pydraul, 10E, 29 ELT Pydraul 30E, 50E, 65E Pydraul, 115E Pydraul, 230E, 312C, 540C Ropeseed Oil B11 (MI E 22228 B)	4	•	-		
Pydraul 230E, 312C, 540C	4			-	•
Rapeseed Oil	2	4	-	-	-
KJ-1 (MIL-1-23330 B)	1	•	-	•	•
RP-1 (MIL-F-25576 C) Salt Water	1	-	-	1	- 1
Salt Water Sewage	1	-	-	-	1
Silicate Esters Silicone Oils	1	1	i	-	i
Silver Nitrate	1	1	1		1
Skydrol 500 Skydrol 700	4	-	-	-	-
Soan Solutions	4	4	1	1	•
Soap Solutions Sodium Chloride (aq)	1	1	1	1	•
Sodium Hydroxide (aa)	4	1	1	2	4
Sodium Peroxide (aq) Sodium Phosphate (aq)	4	1	2		1
Sodium Sulfate (aq) Soy Bean Oil	1	1	1	•	•
Soy Bean Oil Stoddard Solvent	2 1	1	1	-	1
Stoddard Solvent Styrene (Monomer)	4	3	3	1	1
Sucrose Solution	4	2	-	•	•
Sulfuric Acid (Dilute Battery Acid)	3 4	1	1		1
Sulfuric Acid (Conc) Sulfuric Acid (20% Oleum)	4	-	4		4
Sulturous Acid	4	2	1		•
Fannic Acid Fetrochlorethylene	4	1 2	1		1
Toluene (Toluol)	4	3	4	1	1
Transformer Oil	2		2	•	•
Transmission Fluid Type A Trichloroethane	2	- 4	- 3	- 3	- 1
Trichloroethylene	4	4	4	3	1
Turbine Oil	1	3	1	1	
Turpentine Varnish	4 3	4 3	4	1	1
Vinegar	2	1	1	1	1
Vinyl Chloride Water	4	4	4	1	1
Whiskey, Wines	2	1	1	1	1
Whiskey, Wines White Oil	1	-	-	-	-
Wood Oil Xvlene	3 4	4	4	1	1
Wood Oil Xylene Zinc Acetate (aq)	4			-	1
Zinc Chloride (aq)	2	1	1	1	1

1 Petroleum Base 2 Synthetic Base = 1, Petroleum Base = 3

3 SAE 10, 20, 30, 40, 50 = 1, Petroeum = 2

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



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A-214-	15	1B-20	15	9	20% —		<hr/>				
-22	16	1B-22	16		30%						
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4-26	17	1B-26	17	57	70%				<u> </u>	- Flexeel	
\-27 <u>-</u> -	17	1B-27	17		70% 50%					Purflex	
\-28 <u>-</u> -	17	1B-2810	17	ete	50%					Nylon 1	1
4-3507	23	1B-3507	23	25	50%					Fre-Than	
4-3607	23	1B-37	22	nre	50% — 40% — 30% —					Kynar	
A-37	22	1B-39	22	ess	40%			\sim		LĹDPE	
4-37	22	1B-413-	25	Press Break	30%				$ \rightarrow -$		
	22	1B-425-	25						\sim		
4-38		1B-430-	25	2	20%						ed P∖
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Doing everything we can to say "YES" to your tubing needs

For more than 33 years our customers have looked to Freelin-Wade to solve their specific tubing requirements. We manufacture and stock more than 4,000 tubing products made from polyurethane, nylon, LLDPE, PVC and many other plastic resins. Many options are FDA, USPVI, NSF51 and/ or NSF61 compliant. Much of our business is comprised of taking this stock tubing and adapting it to meet our customers' needs. We call these "Variations." Variations can come in many forms including:

- Assembly
- Bonding
- Coiling
- Colors
- Cutting

- Forming
- Jacketing
- Packaging
- Printing
- Sizes

We provide design expertise and rapid prototyping options. We set the industry standard for tubing that fits and arrives on time.



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