FreelinWade
A COILHOSE COMPANY

Introduction to Tethers

We make tethers and lanyards for a million reasons. If it might break when it is dropped, or you need to have it close at hand, or it is just something that might "walk away," then it needs a tether.

Our tethers are made from Fre-Thane®, a high-quality ether-based polyurethane. This abrasion resistant material is highly flexible and has excellent "memory." Fre-Thane will stretch and flex but will return to its original shape, even after continuous use.

On pages 4 & 5 of this catalog, you will find our standard line of tether solutions. These items are in-stock and ready to ship within 24 hours. Along with these standard products, there are thousands of additional possibilities with tethers. On pages 6 & 7, we feature our Build-A-Tether program. We've built our tether business around meeting our customer's special requests, and Build-A-Tether makes this process easy.

Freelin-Wade makes more than just tethers. We're also the leading manufacuturer of plastic tubing in the U.S. We make all types of tubing for applications as diverse as pneumatics, medical and food & beverage production. Whatever your tubing needs, Freelin-Wade has a tube for you.

Items in this catalog may vary in appearance from what is pictured. Always request a manufactured product sample to assure accuracy. Product descriptions and specifications may change without notice.

Assemblies

Our flexible manufacturing process was designed around your creativity. Our experts will work with you to develop an efficient manufacturing plan to build your product. You can expect the highest quality finished products, manufactured in a cost effective lean environment. Call us at 888-373-9233.

Novelty items

Personal electronic devices

Tether your tools

Fishing and water sports

Colors

Most of the tethers that we make are either black, white or clear. Those are the standard colors but we extrude a rainbow of opaque, transparent and neon colors for our customers every day. It's easy to get exactly the color you want. For custom colors, just provide us with the color ID from the Pantone®* color directory or send us a color swatch for us to match. We pride ourselves at being the fastest in the industry at turning color variations around.

Hardware

A tether becomes useful when it is attached to something. This catalog shows our most popular hardware options but that is only the beginning. There are nearly as many ways to connect tethers as there are uses for them. Some ideas are below. Call us and we'll help with your design questions.

Plastic swivel hook

Lanyard hook

Alligator clip

Trigger snap hook

Variations
3

Solutions

iKeeper™ Personal Electronic Device Tether

An adhesive button on one end and a badge clip on the other. The iKeeper will catch your cell phone, digital camera or PDA before it hits the ground. Black only.

Part Number	O.D.	Retracted Length	Working Length
1T-090-SAB-01-3	.090"	3"	1.7'

Ends: 1 adhesive button, 1 snap swivel & 1 badge clip

iKeeper

Shopper Stopper

A heavy duty tether designed for termporarily restricting access to an area. These are most commonly seen at retail check stands across North America. On one end, there's a split ring for connecting to an anchor point. On the other end is a snap swivel hook with an easy to slide lever. The tether is made from a quarter-inch tube, making it both very durable and lightweight. Black only.

Part Number	O.D.	Retracted Length	Working Length
1S-025-01	.250"	14.75"	9.3'

Ends: One 1.25" split ring, one 3/8" snap swivel

Tool Tethers

Our small tool tether comes with 4.5" perpendicular tails on each end and no hardware. The medium tool tether has a 1" split ring on one end and a snap swivel on the other. The large tool tether, with the .187" O.D. material, comes with a 3/4" split ring on each end. Black only.

Part Number	O.D.	Retracted Length	Working Length
Small Tool Tether			
0S-090-01	.090"	3.5"	1.7'
Ends: Two 4.5" perpidicular tails, no hardware			
Medium Tool Tether			
1T-156-RS-01-10	.156"	10"	8.2'
Ends: One 1" split ring, one snap swivel			
Medium Tool Tether			
0S-115-01	.115"	6"	3.8"
Ends: Two 6" straight tails			
Large Tool Tether			
0T-187-01	.187"	7.5"	3.2'
Ends: Two 3/4" split rings			

Bulk Tethers

Bulk tethers are tethers with no hardware fittings or looped ends.

Part Number	Colors	O.D.	Working Length
0Z-080-01	01	.080"	17.4'
0Z-090-01	01 10 11	.090"	15.9'
0Z-115-01	01 03 05 06 07 08 09 10 11 12 25 26 27 29 32 37 45 46 48 49 66	.115"	13.4'
0Z-156-01	01	.156"	24.8'
0Z-187-01	01	.187"	13.1'

90° weld with badge clip

90° weld with trigger hook

Lanyards

A lanyard is a tether with a tail. The tail allows for a looped end or your own custom connections.

These lanyards also have a nylon reinforcement string inside for added strength.

Description	Part Number	Colors	O.D.	Retracted Length	Working Length
2.5" & 4.5" Tails with Crimped Loops	0TA-131-__	01 05	.125"	3"	4'
Two 4" Tails with Crimped Loops & Split Rings	0TT-131-__	01 05	.125"	3"	3.5'
Two 4" Straight Tails	1R-131-__	01 05	.125"	3"	3.5'
5" & 22" Straight Tails	1S-131-__	01 05	.125"	3"	6'

Split Ring & Adhesive Button Tethers

These are our most popular tethers for point-of-purchase display use. They are available in two standard material diameters and in working lengths up to 6.4'. Our standard products are only available in black, white and clear. There are other configurations and colors available so if you don't see what you need here, check the Build-A-Tether program on the next page.

Description	Part Number	Colors	O.D.	Retracted Length	Working Length
Adhesive Buttons Ends: Two adhesive buttons	1T-090-AA-01	01 10 11	.090"	4.5"	2.6'
Button & Split Ring Ends: 1 adhesive button & 3/4" split ring	1T-090-AR-01	01 10 11	.090"	4.5"	2.6'
1/2" Split Rings Ends: Two 1/2" split rings	1T-090-RR-01	01 10 11	.090"	4.5"	2.6'
3/4" Split Rings Ends: Two 3/4" split rings	1T-115-RR-01	01 10 11	.115"	4.5"	2.2'
3/4" Split Rings Ends: Two 3/4" split rings	1T-115-RR-01-85	01 10 11	.115"	8.5"	4.2'
3/4" Split Rings Ends: Two 3/4" split rings	1T-115-RR-01-13	01 10 11	.115"	13"	6.4'

Crimped Loop

Flat weld with split ring

90º weld with adhesive button

Build-A-Tether

We developed the Build-A-Tether program as an easy way to get you started thinking about all of the options with tethers. By no means are these all of the options. There are countless ends, welds, colors, lengths and tails that we can build. We can even make them hollow.

1. Pick a Color

Color Key

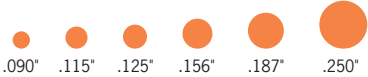|	
01 Black	26 Transparent Green
03 Silver	27 Transparent Blue
05 Red	29 Transparent Orange
06 Green	32 Transparent Purple
07 Blue	37 Transparent Ice Blue
08 Yellow	45 Neon Pink
09 Orange	46 Neon Green
10 Clear	48 Neon Yellow
11 White	49 Neon Orange
12 Purple	66 Hunter Green
25 Transparent Red	

* Only black, clear and white are available in the .090" material

Color Variations:

The colors listed above are the standard colors available in the Build-A-Tether program. Tethers are also available in the entire range of standard tubing colors as well as virtually any color. Simply pick your color from the Pantone® Color Library or just send us a swatch of what you want us to match. The process is easy, and we're the fastest in the industry at turning color variations around.

2. Pick a Size

Tether material size is described by the outside diameter (O.D.) of the material. Generally, the bigger the material O.D., the more weight the tether can support as well as the tighter the "snap-back" or coil retention. Our standard sizes are:

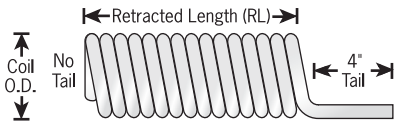.090" .115" .125" .156" .187" .250"

The .090 size is ideal for attaching small, light objects, like an informational card, pen or small point-of-purchase display samples.

3. How Long Should It Be?

We describe tethers in two ways, by their working length and their retracted length. The working length is the distance that the tether can be comfortably stretched. The retracted length is the length of the coil when relaxed. See the illustration below.

Tether Terms

Retracted Length (RL)

Coil O.D.   No Tail   4" Tail

4. The Ends

Tails   Usually having a tail means that you want a lap fused loop or crimped loop end.

Hardware   We have many hardware options in-stock, but even more are available. Ask about availability, pricing and minimums.

Welds   Freelin-Wade uses two basic welds: a 90° Fused Loop and a Flat Weld. The 90° is probably better for most applications because it means the tether will hang straight while providing optimum mobility for most attachments. Alternatively, the flat weld is a slightly more secure method of attaching your hardware.

Lap fused loop

Crimped loop

90˚ weld

Flat weld with book ring

90˚ weld with split ring (.34" to 1.25" available)

90° weld with snap swivel

90˚ weld with adhesive button (3/4" & 1.5" available)

Ring terminal

5. Call Us!

Now that you've designed your tether, give us a call. We'll make a sample and send it right out to you. 888-373-9233

Your Tether

1. Pick a Color
   Color: _____

2. Pick a Size
   .090" ◯   .115" ◯   .125" ◯
   .156" ◯   .187" ◯   .250" ◯

3. How Long Should It Be?
   Working Length: _____

4. The Ends
   Tail: End 1: _____   End 2: _____

   Hardware: End 1: _____
                  End 2: _____

   Weld: End 1: _____
                  End 2: _____

Build-A-Tether
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