



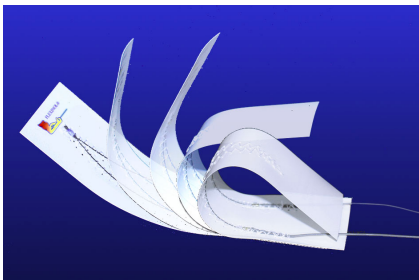
*Flexinol® actuator wires are small diameter wires that contract like muscles when electrically driven. Smaller than motors or solenoids, less expensive and generally easier to use, these wires perform physical movement for an extremely wide variety of applications.*

## Just Wired In

### **Silent. Efficient. Life-Like Movement.**

*Turning Concepts into SMarT® Products with Flexinol® Actuator Wires.*

“Bendsofts™” are created by sewing Flexinol® actuator wires onto a bendable piece of plastic in the formation of an upside down “V”. This creates multiple anchor points giving the rigid plastic a very life-like curl as the Flexinol® wire actuates.



*Bendsoft™ Actuator*

Dynalloy, Inc. is developing a Moving Hand Kit using these Bendsofts™ to give a latex glove a full 3-dimensional real hand appearance.

These Moving Hand Kits come equipped with a selection of Bendsofts™, an 8-bit controller to power the fingers, and a latex glove.

Bendsoft™ users can use knowledge and understanding of principles to explore and develop alternative concepts and products.

For example, Bluetooth/Wi-Fi control, positioning with PWM and using motion sensors are all possibilities that Bendsofts™ can respond to.



*Moving Hand Kit*

There are a lot of ways to configure, strengthen, and move the fingers. Flexinol® wires contract less than human muscles, but by being smaller it can be attached closer to pivots and give similar travel to human fingers.

## Redefining Circuit Protection

**Exciting new possibilities looking for interested users.**

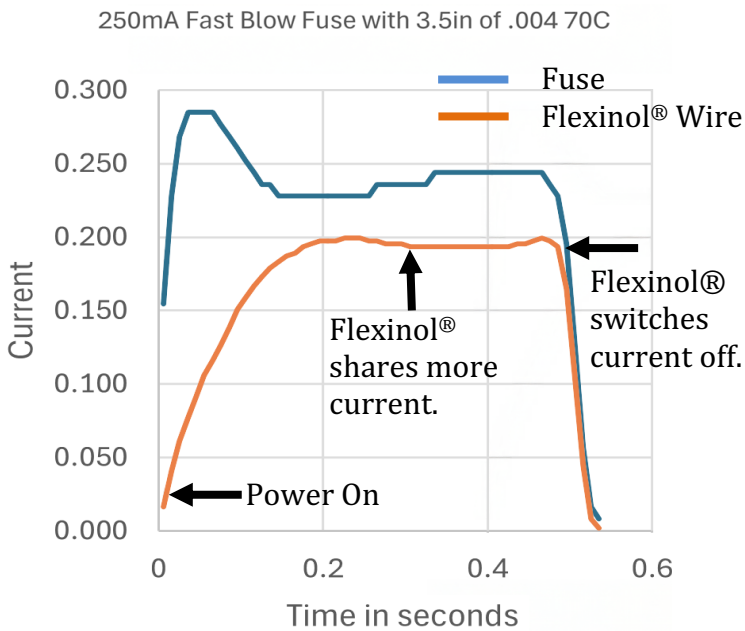
Dynalloy, Inc. welcomes collaboration with individuals and organizations exploring new product applications and safety solutions to redefine circuit protection using Flexinol® actuator wires.

Recently, we have found a way to make nickel titanium Flexinol® wires respond to precise currents at molecular speeds. In short, if there is too much current in a circuit that has been specified with Flexinol® actuator wires, integrated with a switch that physically breaks the circuits connection it can break the circuit at incredible speeds, saving the circuit and preventing electrical fires.

To validate, we have been testing our Flexinol® actuator wires in parallel with a circuit and a fuse. As a result of small resistance changes, the fuse heats up, causing the Flexinol® wire to contract breaking the circuit at molecular speeds.

Not only can we prevent the circuit from melting, but we can even save the fuse before it gets to a damaged state (where the fuse's cold resistance gets altered for both fast and slow acting fuses). We have rigorously tested our Flexinol® actuator wires to be able to withstand tens of thousands of cycles. Meaning that with the proper specifications, our Flexinol® actuator wires have the capability to save the fuse unchanged every time!

This opens a new door into the future of



This graph displays the Flexinol® actuator wire in parallel with a circuit and a fuse that share the current. Once the wire and the circuit reach their optimal levels, the Flexinol® actuator wire heats faster and the circuit starts cooling. When the Flexinol® actuator wire reaches its perspective activation temperature, it breaks the connection with the circuit.

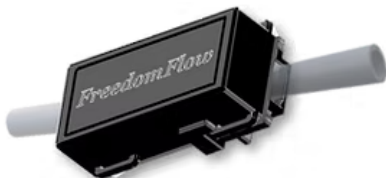
circuit protection as the predicted speed in which Flexinol® actuator wires react ultimately can improve safety in lithium batteries and other devices making the world a safer place. Because of Flexinol®'s actuator wire's ability to move remarkably fast under overload conditions, it may enable not only electrical cutoffs but also move other objects such as valves and switches simultaneously.

**Dynalloy, Inc. is currently looking for parties interested in joint development efforts where Flexinol® Solutions are called for.**

## What's New?

### *Freedom Flow™ II goes International.*

Freedom Flow™ is a small, silent, and low power wireless leg bag drainage valve that allows individuals with limited mobility to have more independence for their private moments.



Originally, Freedom Flow™ was designed by USC professor, Dr. Behrokh Khoshnevis, as a way to improve the quality of life for one of his students. Dr. Behrokh was able to successfully create a prototype wireless bag emptier system using Flexinol® Actuator wire benefits.

Recently Freedom Flow™ II was represented by Vanessa Osman, a voice-over artist, actress, model and writer, at the October 2025 Access Abilities and Accessible Travel & Tourism International Conference Expo in Dubai with over 1,500 attendees from more than 70 countries.



Image source: Screenshot from "Discovering Freedom Flow at the AccessAbilities Expo" by Vanessa Osman, YouTube, timestamp 0:21. <https://www.youtube.com/watch?v=K9A1z7e9SJ8>

*"I now truly understand why it carries the name "Freedom Flow," because it has genuinely given that freedom back to me." ~ Vanessa Osman*

Continuing the spirit of collaboration Dynalloy, Inc. welcomes the efforts of Hisham Masad, Managing Director of Petra Mobility People of Determination Equipment Trading LLC.

*"From day one we started this business we are always looking for everything possible to improve peoples lives and be more independent." – Hisham Masad*

Dynalloy, Inc. believes everyone benefits from life changing products. Our contribution to the process and production of concepts and products using Flexinol® actuator wires not only improves the success of product development, but also helps individuals and organizations achieve their goals.

Courtesy of:  
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