

MONDO•TRONICS

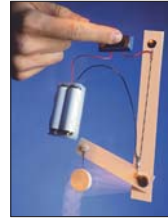
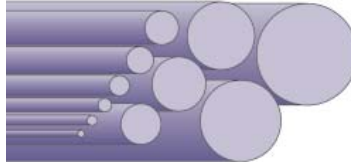
Flexinol Muscle Wires®

These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight.

How it works...

Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract, raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.

Includes: Instructions



* Web Code: **WAU**

Part No.	Mfr. P/N	Length (meter)	Wire Dia. (microns)	Linear Resistance (Ω/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Pricing	
									1	5
357561	025HT	5	25	1770	20	2	7	—	\$54.95	\$52.95
357456	025LT	1	25	1770	20	2	7	—	21.95	20.95
357931	075LT	1	75	200	100	815	80	40	18.95	16.95
357595	100HT	1	100	150	180	28	150	43	17.95	15.95
141321	100LT	1	100	150	180	28	150	33	19.95	17.95
357472	100LT	5	100	150	180	28	150	33	64.95	59.95
141874	150LT	1	150	50	400	62	330	20	17.95	15.95
160055	375LT	1	375	8	2750	393	2000	4	22.95	20.95
357712	375HT	1	375	8	2750	393	2000	5	24.95	21.95

* Multiply by 0.0098 to get force in Newtons ** Cycles per minute, in still air, at 20° Centigrade

liquidware Compass Module

* Web Code: **ARD**

- 2-axis magneto-resistive sensor with analog and digital support circuits, MCU, and algorithms for heading computation
- Assembled with 4-pin male header
- Voltage supply range: 2.7-5.2V
- Heading resolution: 0.5°
- Heading accuracy: 2.5°
- I2C 2-wire serial interface
- 3 output modes: Standby, Query & Continuous



Part No.	Description	1	5
2127689	Compass module	\$39.95	\$37.95

PNI Vector 2X Compass Module

- Pin selectable BCD or binary output format (compatible with Motorola SPI and National Microwire)
- 2° accuracy, 1° resolution
- 3-wire serial output format
- Raw uncalibrated magnetometer output optional
- Hard iron calibration • 5Hz sampling rate
- Master or slave capability for data clock generation



Part No.	Description	1	5
126703	Compass module	\$24.95	\$22.95

MONDO•TRONICS

Shape Memory Alloy Kits, Book and Accessories

These unique metals are made from a combination of two or more elements that exhibit hardness and elasticity properties that change radically at distinct temperatures. SMAs can be formed into a shape and set to that shape by a high heat treatment.

When cooled, they may be bent, stretched or deformed (within limits) and then with subsequent moderate heating, they can recover some or all of the deformation. Shape Memory Alloys have found use in everything from space missions to floral arrangement, to actuators for miniature robots, cell phone antennas, and even eyeglasses.



141313

Muscle Wire Kits

* Web Code: **WAU**

Part No.	Product No.	Description	1	5
141313	3-001	Space Wings kit	\$19.95	\$17.95
357827	3-619	Solar Space Wings kit	23.95	21.95
357659	3-141	Project Book Sample kit (20cm of 50µm flexinol wire; 40cm of 100µm and 150µm LT wire)	34.95	31.49
357641	3-136	Muscle Wire Super Sampler kit (20cm each of 037µm, 050µm, 100µm, 150µm, 250µm)	35.95	32.49
357528	3-102	Muscle Wire R & D kit (5 meters each of 0.050µm, 100µm LT wire; 1 meter each of 250µm Flexinol LT wire)	225.95	199.95

Book

Part No.	Product No.	Description	1	5
141330	3-133	Muscle Wire Project Book, 3rd Edition	\$19.95	\$17.95

Wires and Springs

Part No.	Product No.	Description	1	5
357798	3-401	Nitinol SMA wire (1 meter L x 500µm Dia.)	\$18.95	\$16.95
357801	3-402	Nitinol SMA wire (1 meter L x 1000µm Dia.)	27.95	25.95
2132402	3-642-1	Nitinol tension spring (1 pc.) 6.5mm OD x 26.5mm L x 750µm, black	11.95	10.95
2132411	3-657-1	Nitinol compression spring (1 pc.) 8mm OD x 36mm L x 950µm, black	11.95	10.95
357835	3-642	Nitinol tension springs (4pk.) 6.5mm OD x 26.5mm L x 750µm, black	39.95	37.95
357843	3-657	Nitinol compression springs (4pk.) 8mm OD x 36mm L x 950µm, black	42.95	39.95



Starter Kits

These kits include manuals, equipment, and sample projects to learn the fundamentals. Once you have the basics down, and your confidence up, challenge yourself with any one of the more advanced kits, or use your skills and create something completely new.

Microcontroller Starter Kits

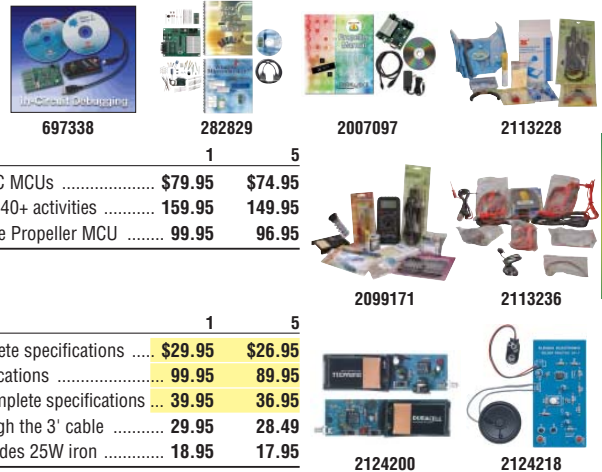
Part No.	Mfr. Part No.	Description	1	5
697338	DV164120	PICKit 2 starter kit, easy to use interface for programming 8/14/20-pin flash type PIC MCUs	\$79.95	\$74.95
282829	27207	BASIC Stamp 2 educational starter kit, includes text and parts to guide you through 40+ activities	159.95	149.95
2007097	32300	Propeller starter kit, step-by-step introduction to programming the robust multi-core Propeller MCU	99.95	96.95

See more Electronic and Starter Kits on pages 173-177, and more Microcontrollers on pages 7, 10

Test, Tools & Measurement

Part No.	Mfr. Part No.	Description	1	5
2113228	Solder Starter	Includes all the equipment necessary to get started soldering, see pg 153 for complete specifications	\$29.95	\$26.95
2099171	DMM Starter	Everything you need to get started with electronics, see pg 134 for complete specifications	99.95	89.95
2113236	Test lead starter	Includes the most popular test leads for your testing applications, see pg 143 for complete specifications	39.95	36.95
2124200	FO-30K	Learn the fundamentals of fiber optics and transmit your voice or 1kHz signal through the 3' cable	29.95	28.49
2124218	AK-100	Learn to solder and assemble a flashing siren, teaches the basics of soldering, includes 25W iron	18.95	17.95

See more Tool Kits on pages 143 & 144



* For Complete Specs & Additional Product Listings Search www.Jameco.com/More and Enter Web Code Listed Above