

Kerrigan-Lewis™ Specialty Wire



Kerrigan-Lewis™ Specialty Wire



Alpha Wire's Kerrigan-Lewis brand of specialty wire is designed and manufactured to stringent standards of quality and performance. From expertise in fine copper wire and insulations to an exact understanding of your most rigorous application requirements, we can help you increase efficiency, reduce size, and achieve higher levels of productivity.



We offer the lowest minimum order levels in the industry. Save money by ordering only what you need.

Our products are custom configured for specific applications. Call us at 773-772-7208 to discuss your application requirements for Kerrigan-Lewis specialty wire.

Litz wire

Litz wire reduces AC losses in conductors from skin and proximity effects at high frequencies to make transformers and motors more efficient. It consists of individually insulated strands woven or twisted in a specific pattern so that each tends to occupy all possible positions in the cross section. This equalizes flux linkages and reactances so that current is evenly divided among the strands for increased current-carrying efficiency.



Applications

- High-frequency inductors and transformers
- Motors
- Relays
- Inverters
- Power supplies
- Ultrasonic and sonar equipment
- Heat-induction equipment
- High-twist applications, up to 300 turns per foot

Kerrigan-Lewis litz wire is available in a wide range of configurations to meet specific operating frequencies, voltages, and current-carrying capacities. Individual strands range from 50 to 16 AWG, with anywhere from a few strands to thousands in the wire. Besides traditional round conductors, we also offer space-saving square and rectangular cross sections for maximum copper density.

Some popular configurations include:

- 60 strands of 36 AWG
- 100 strands of 38 AWG
- 2100 strands of 36 AWG

	Variations	Advantages
Insulations/Servings	NEMA-approved films	To 105°C, 155°C, 200°C Single and heavy coatings
	Cotton	To 105°C Abrasion resistant
	Nylon	To 130°C Abrasion resistant Good high-frequency properties
	Celanese synthetic yarn	To 105°C Excellent high-frequency properties Chemically soluble
	Nylon/Celanese mix	To 105°C Excellent high-frequency properties Chemically soluble
	Fluorocarbon textile	To 200°C Abrasion resistant Excellent high-frequency properties Excellent handling properties
	Teflon FEP extrusion	To 200°C Waterproof Abrasion resistant Excellent high-frequency properties Excellent handling properties
	PVC	To 105°C
Strand Range	50 to 16 AWG	Flexibility in meeting application goals
Configurations	Round Square Rectangular	Configurable for maximum operating and space efficiencies

Resistance wire

Kerrigan-Lewis resistance wire achieves high-tolerance resistive values with a copper-nickel alloy. Standard configurations are:

- **55% copper/45% nickel for a resistance of 294 ohms per circular mil-foot**
- **78% copper/22% nickel for a resistance of 180 ohms per circular mil-foot**

Other configurations are also available.

We offer the wire in sizes from 40 AWG to 25 AWG to meet specific resistance and current-carrying needs.

Make AlphaWire.com your destination for all your cabling needs!

AlphaWire
1-800-52-ALPHA

Language English

Search GO!

Advanced Search

Products Innovative Solutions Online Tools Engineer's Room Regulations & Compliance News Site Support About AlphaWire

Explore the new Chinese version of our website!

Custom Made Simple
See how fast and easy custom cable is.

Master the Possibilities
Check out the new Alpha Wire Master Catalog.

Your Cable, Your Way
Online Cable Design Center makes custom easy.
Configure and specify a custom cable quickly and easily.
Then get it delivered fast!

LEARN MORE

CUSTOM FOR YOU MADE

New Products at AlphaWire

Series XM LEARN MORE

A Tougher Cable for Continuous Flex Control Applications

Series XM Flexible Control Cable is the ideal choice for medium-to-high-flex applications. Featuring a premium-grade PVC jacket, Series XM offers a durable, oil-resistant construction that prevents contamination from hazardous fluids and protects against abrasion. Plus, its optimum flexibility and performance allows it to support a variety of industrial applications, including:

- High-speed pick-and-place robotic systems
- Automated material handling equipment
- Conveyors and transfer shuttles
- Flex track installations

Available shielded or unshielded in a variety of gauge sizes, jacket colors, and conductor counts.

Series XM Product Breakdown:

- Meets NFPA Standard 79 for industrial machinery
- Stranded conductors for better flexibility

News View Archive

4.1.11
Alpha Wire Launches Chinese-language Website
Alpha Wire has launched a Chinese-language version of its website designed to make AlphaWire.com available to an increasingly diversified customer base.

Subscribe to our Newsletter

SUBSCRIBE

Easy to use, full of information, and designed to make the selection of wire, cable, tubing, and wire management fast and easy—the Alpha Wire website is the only source you need.

- Search products by parameters
- View complete product listing
- Download specs
- Read white papers written by our industry experts
- Request a sample (or two!)
- Learn about our market-specific solution sets
- Download literature
- Look around our “Engineer’s Room”
- Build your own cable with our powerful Cable Design Center®