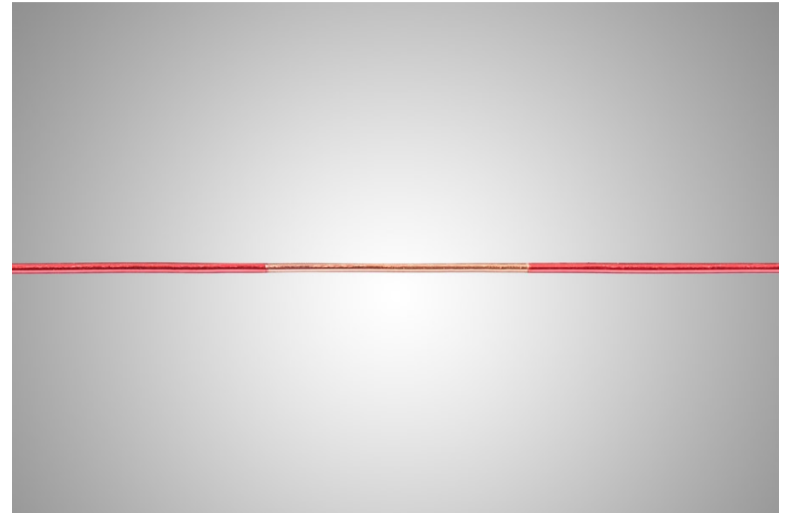


Laser Processing

Laser Wire Stripping

Our wire-stripping process removes sections of insulation or shielding without making physical contact with the conductor, enabling the processing of delicate wires and cables.

Contact Us >



About

Wire stripping removes sections of insulation or shielding from wires and cables to provide electrical contact points for termination. Conventional wire-stripping methods make physical contact with the conductor, which can damage the wire and slow down processing speed. Laser wire stripping is much faster, provides excellent precision and process control, and eliminates contact with the wire, allowing for the processing of gauges up to 46 AWG (0.0015 inches in diameter).

No Secondary Processing

With the right combination of laser type, wavelength, and beam shaping, insulation can be stripped through ablation without leaving a heat-affected zone or residue that must be cleaned and removed. We can handle both reel-to-reel and reel-to-cut applications. Stripping can be programmed to remove insulation at any point along the wire, enabling high-precision mid-span removals.

Precision Programming

Because we precisely program the beam pattern, a variety of cable cross-sections can be stripped, including O-, T-, H-shaped wires that cannot be stripped with mechanical or thermal processes. In addition, real-time inspection monitoring and automated handling allow us to deliver higher volumes of product at cost-effective rates.

Other Advantages

Other advantages of laser wire stripping include:

- Reel-to-reel processing
- Reel-to-cut processing
- Customized strip patterns
- Strip multi-conductor wires simultaneously
- We can process 99% of all insulation types
- Sensitive materials such as Nitinol
- Tight tolerances (+/- 0.001 inch)
- Low electromagnetic interference
- Custom machine configuration

Applications Abound

Our highly experienced engineers, technicians, and staff can wire-strip virtually any type of insulation or shielding to meet your most challenging production or assembly needs—including complex wire geometries for miniaturized components.

High-precision applications include:

- Catheter wiring
- Pacemaker electrodes
- Motors and transformers
- High-performance windings
- Hypodermic tubing coatings
- Micro-coaxial cables
- Thermocouples
- Stimulation electrodes
- Bonded enamel wiring
- High-performance data cables

Precision Matters

As new products become smaller and more complex, so does the circuitry. Manufacturers are using thinner wires made from a wider range of metals, advanced insulation materials and patterns for wires and shielding, and more complicated configurations and assemblies. This increases the importance of maintaining the highest-precision cuts, tight tolerances, and inspections to ensure performance and quality.

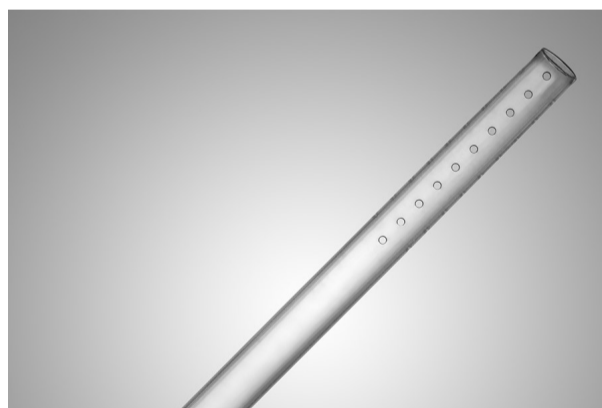
Related



Components & Secondary Operations

We're a trusted, full-service partner to the medical tubing and medical device industry, providing comprehensive solutions with a broad range of secondary and finishing operations to serve your needs across many markets.

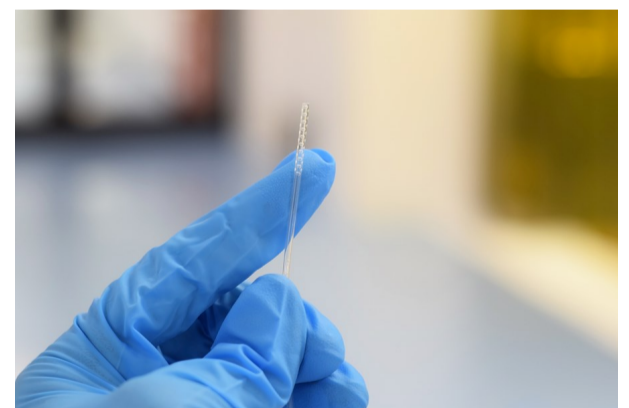
[More info >](#)



Laser Processing

As a full-service laser solutions provider, we manufacture high-precision parts to exact specifications, in the most efficient and cost-effective way. We excel at turning even seemingly impossible designs into high-value products that exceed customer expectations.

[More info >](#)



Spectrum Plastics Group Acquires Laser Light Technologies

Spectrum Plastics Group adds advanced laser processing capabilities with the acquisition of assets of Laser Light Technologies.

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