

免拖鏈扁排線

Flexible Flat Cables

CAPABILITIES OVERVIEW



 **CICOIL**[®]
The Clear Choice

The **Future** of **Cabling** is Here...

Combine power, signal, video, air & liquid in a crystal-clear flat cable.

Cicoil high-flex flat cables are the Future of Cabling. Our patented extrusion technology produces the most high performance flat cables available with the superior attributes you're looking for:

- **Ultra flexible:** Tens of millions of flex cycles in the tightest bend radius applications
- **Unlimited variation:** Micro size to 400mm wide cables, wires from 4 to 44 gauge, also including fiber optics, tubing, or coax, so you can get the exact cable you need
- **Extreme Environments:** Our cables perform from -65°C to +260°C, and under exposure to water, steam, chemicals, and oils



Built-In Flexibility

In addition to the strong, flexible cable jacketing, every Cicoil cable incorporates finely stranded, ultra-flexible wire conductors. Conductors and shields are also specially heat-treated and plated to maximize their flexibility, while providing extremely long flex life in the most demanding applications. Cicoil flat cables are rated for over ten million cycles, and our cables have performed for hundreds of millions of flexing cycles in some of the most demanding robotic, continually flexing equipment applications.



Standard 24 AWG wire has 7 base strands, flexible wire has 19 base strands, while Cicoil High-Flex wire has 66 base strands. All Cicoil wire has base stranding of 40 AWG minimum, versus 36 AWG and larger in other flexible wires.

Standard or Custom Cables

Cicoil's patented extrusion process makes custom cables easy, so you can quickly get the exact cable you want. Try our Online Configurator, where you can design your own cable in minutes and get an immediate drawing and quote!

Check out our many standard cables and assemblies, all available from stock for immediate delivery.

Complete Cable Assemblies

Cicoil can provide complete cable assemblies, with any connectors required by the customer. Every cable assembly is 100% tested by our automated test equipment, so reliability and performance is guaranteed. Our award-winning quality system is certified to ISO 9001 standards, including the strict AS9100 aerospace specification. Cicoil cable assemblies are used on the space shuttle, supersonic missiles, and industrial robotics, in some of the most demanding applications possible. So you can rest assured that your cable assembly will receive the same dedication and care, ensuring reliable, high performance operation.



AS9100
CERTIFIED



REACH
COMPLIANT
FAA
FLAME TESTED

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Standard Cables and Assemblies



High Performance Motion Control Cables

Ideal for high performance motion applications, shielded power and signal conductors are combined into a single, high-flexibility cable. Available in 1, 2 or 3 servo axis versions, in multiple power ratings for all standard rotary and linear servo motors.

- **Motion Series Cable:** Designed for 1 KW, 2 KW and 3 KW Servo Motors; Shielded power and signal wires for 1, 2 or 3 Servo Axes
- **Motion Series Plus Cable:** Signal Pairs for 1, 2 or 3 Servo Axes
- **Hi-Flex Motor Power Cable:** Shielded and Unshielded 4 Conductor Servo Power Cables
- **Hi-Flex Shielded Signal Cable:** High Performance Twisted Shielded Pairs for Data Transmission applications

Data & Video Cables & Assemblies

Video/data communications cables using standard industry protocols in a flat, flexible package. Due to Cicoil's patented Flexx-Sil™ jacketing, these cables feature superior durability in harsh environments and long cycle life in dynamic, flexing applications.

- **Ethernet Cables:** Cat 5e and Cat 6A
- **Camera Link Cable**
- **Controlled Impedance Cable:**
- **USB Cables:** 2.0 and 3.0
- **Flexible Coax Cable:** 50 ohm & 75 ohm
- **FireWire Cable**
- **HDMI Cable**

Unshielded Cables: Multi and Single Conductor

Cicoil has multiple variations of high flex, unshielded cables and assemblies in flat, flexible configurations. Ranging from 1 to 64 conductors in flexible flat cables, standard IDC, festoon or thermocouple variations, Cicoil's selection of standard cables provides the highest variety available anywhere.

- **Hi-Flex Unshielded Multi-conductor Cable for Power and Control Applications**
- **Hi-Flex, Hi-Temp IDC Ribbon Cable**
- **Hi-Temp Festoon Cable**
- **Hi-Flex Unshielded Single Conductor Cable for High Voltage Applications**
- **Type J & Type K Thermocouple Cables**

All cables are jacketed in Cicoil's exclusive, clear Flexx-Sil™ engineered rubber, delivering the highest flexibility in the most extreme environments.

Cables are available in continuous lengths, or as cable assemblies, complete with connectors.

Custom versions of Cicoil's standard catalog cables are offered. When cables need to be stacked together, or where a lower friction surface is desired, there are two different cable finishes available: GlideRite™ and SlideRite™.

Cicoil has been the leader in high performance flat cable technology for over fifty years. Our cables are used in thousands of demanding applications, in a multitude of industries. Whenever high performance flat cables are needed, Cicoil is The Clear Choice.

Military/Aerospace



Cicoil has thousands of cable assemblies operating in the most sophisticated missile, fighter aircraft, commercial aviation, and space applications. Cicoil's Flexx-Sil™ cables are ideal for mission-critical military and aerospace applications.

Semiconductor Equipment



Cicoil Flexx-Sil™ Cables and Cable Assemblies have been used by most major semiconductor equipment manufacturers, in some of the most demanding applications in the industry. Wafer robots, deposition equipment, cleaning robots, and wafer inspection are some of the applications that use Cicoil cables.

Medical



Our cables and cable assemblies are used in a wide variety of medical applications, including automated medical equipment, medical robotics, testing equipment, and also human medical devices like hearing aids.

Industrial Automation/Motion Control



Our high performance cable assemblies are used in a wide variety of extremely demanding motion control and industrial automation applications. Linear motor stages, multi-axis motion systems, robotic equipment, servo axes, and packaging equipment all use Cicoil flexible cables to achieve optimum, reliable performance.

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