

## **Flat cables ideal for guided missile and fire control systems**

Cicoil's highly durable flat cables are designed for guided missile and fire control systems, where unparalleled performance is critical and cable failure is not an option. Their compact, silicone encased flat cable solutions are engineered to provide consistent electrical characteristics, space & weight savings, optimum cable flexibility and are well suited to meet the stringent demands of mission-critical applications.



Unlike other types of cables, such as Teflon or Polyurethane, Cicoil utilizes an exclusive process of encapsulating individual components in a shock absorbing silicone jacket that renders them unaffected by repeated exposure to severe vibration, compressive force, flames, ice, fog, ozone, steam, humidity, extreme temperatures (-65°C to +260°C), harsh weather, operational stress, chemicals and the rigors of turbulent flight. This combination of features makes Cicoil cables the ideal alternative to formed flat cables, wire harnesses and bulky round cables in missile applications.

Each Cicoil flat silicone cable can incorporate a variety of components including power conductors, controlled impedance pairs, shielded control wires, video conductors and Cicoil's patented StripMount fastening strip, all combined in a single condensed cable design, precisely controlling the inner component spacing, jacket thickness and the overall cable shape. Cables are available in continuous lengths,

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break-outs, custom shapes for very tight spaces, cut to order, or as assemblies, complete with connectors of your choice, 100% tested and inspected for peak electrical performance, quality and reliability

Cicoil's unique crystal-clear silicone encapsulation needs no external "armor" or conduit for protection, is tear-resistant and will not deform or wear during a lifetime of more than 10 million cycles, even under tight bending radius and high speed flexing conditions. Cicoil's highly durable silicone is "self-healing" from small punctures and cable jacket damage can easily be repaired in the field. For applications that require resistance to friction and adhesion, Cicoil offers coating options by request.

Cicoil's Cables are UL Recognized, CE Conforming, RoHS & REACH Compliant and are manufactured in an automated, climate controlled environment. In addition, these environment-friendly cables are 100% contaminant-free and exceed the outgassing requirements of ASTM E-595.

Visit [www.cicoil.com](http://www.cicoil.com) [1] for more information, or call 661-295-1295 to speak to an application engineer.

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### **Links:**

[1] <http://www.cicoil.com>