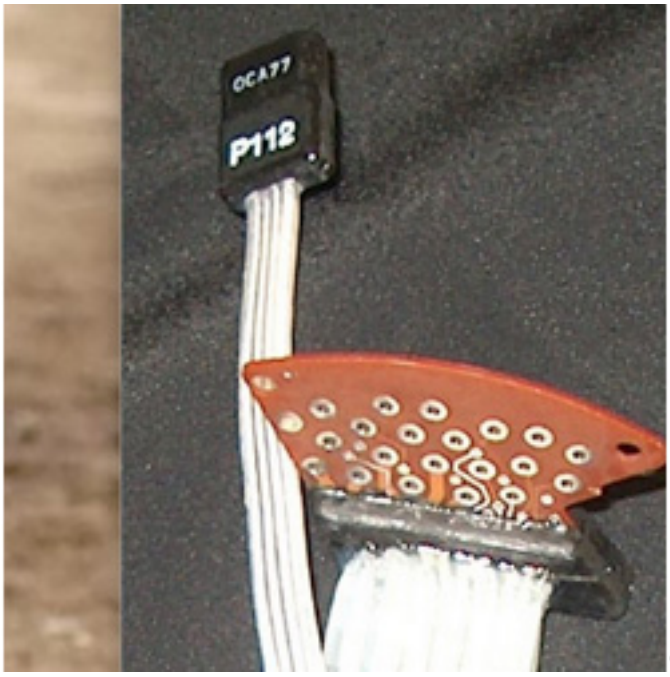
Silicone Encased Cables Provide Absolute Reliability in Military Robotic Applications



Cicoil’s highly flexible and durable flat silicone cables are designed for use on Unmanned Ground Based Military Robotic Vehicles that require absolute reliability in Mission Critical and Extreme Environment Conditions. Unlike bulky and stiffer round cables, Cicoil’s flat silicone cables provide space and weight savings, enhanced flexibility, greater current carrying capacity, reduced skewing effects and better electrical characteristics.

Cicoil utilizes a process of encapsulating conductors in silicone that renders them unaffected by exposure to severe vibration, G-forces, shaking motion, abrasion, water, coarse sand, extreme temperatures (-65°C to +260°C), flames and harsh weather conditions. Cicoil’s specialized silicone jacket functions as a shock absorbing material, completely surrounding and supporting each individual component. Unlike PVC, Polyurethane or Teflon jacketed cables, Cicoil cable does not require a clamping system because the conductors can not creep out of the silicone encasing them.

Each Cicoil cable can incorporate a variety of elements including power conductors, shielded single conductors & signal pairs for superior EMI/RFI suppression, video and coax conductors, and other design elements like Cicoil's patented StripMount™ fastening strip, all in a single compact cable design. Cables are available in continuous lengths, cut to order, or as assemblies, complete with connectors of your choice, 100% tested and inspected.

Cicoil now has thousands of cable assemblies operating in the most demanding military/aerospace applications, such as missile gimbal & guidance systems, commercial aviation fuel control systems, fighter aircraft precision navigation &

targeting systems, ground vehicle mounted combat systems and space vehicle flight control & communication systems. All these applications are mission-critical, requiring Cicoil cable assemblies to perform flawlessly during exposure to harsh operating conditions.

Cicoil's UL Recognized, RoHS Compliant & CE Conforming cables are manufactured in an automated, climate controlled environment. In addition, Cicoil offers anti-friction coating options and custom shaped cable designs by request.

Visit www.cicoil.com [1]

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