

## Engineering Note

**SUBJECT: CICOIL HIGH FLEX CABLES AND MEDICAL APPLICATIONS**

CICOIL medical-grade cables are designed for use in applications where biocompatibility with the human body is paramount and where autoclaving and thermal stability is required.

### **Contact with the human body**

CICOIL's high flex cables naturally conform to the movements and curves of the human body. Our cables do not adhere to any surface and can be placed upon the skin and removed with no trauma to the human body. In addition, CICOIL cables are waterproof, hypoallergenic and resistant to bacteria.

### **Biocompatibility of Flexx-Sil™ rubber compound**

CICOIL medical cables utilize our proprietary medical-grade Flexx-Sil™ rubber compound. Flexx-Sil™ is formulated for applications where extended contact with the human body is expected. Flexx-Sil™ is biocompatible and will not result in toxic or injurious effects to human skin. Flexx-Sil™ meets the cytotoxicity, irritation and sensitization requirements in ISO 10993-5 and ISO 10993-10.

### **Cleaning and disinfecting**

CICOIL's medical cables with Flexx-Sil™ rubber meet ANSI/AAMI EC53 standards for the cleaning and disinfection of cables. Flexx-Sil™ is 100% compatible with cleaning agents such as Bleach, Isopropyl Alcohol and Cidex.

### **Medical Sterilization**

CICOIL's Flexx-Sil™ rubber compound is suitable for steam, low-temperature and H2O2 autoclave sterilization. CICOIL medical-grade cables are rated for hundreds of sterilization cycles with no degradation of the physical properties of our Flexx-Sil™ rubber compound

Please see <https://www.cicoil.com/applications/medical> for more details.

Please contact CICOIL for more information.



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