

Control/Instrumentation

Cicoil® Flat Cables

Cicoil® Flat Cables are manufactured for ultra-flexibility and withstand tens of millions of flex cycles. Industrial automation systems demand cables that are flexible, lightweight, and fit into increasingly tight spaces. Many times, standard round cable cannot meet these needs. Cicoil flat cables feature Flexx-Sil™ technology providing high flexibility, long life, and can withstand temperature extremes from -104°C to 260°C.

Used in thousands of demanding automation applications, these patented flat cables can be tailored to meet your exact needs. Virtually any configuration can be created using wire gauges from 4 to 44 AWG. The patented Cicoil extrusion process also allows the placement of multiple conductors in a single flat cable with precise spacing and insulation thickness.



Ratings

Class 1 Clean Room Rating

Performance Characteristics

- ✓ Operating Temperature: -104°C to 260°C
- ✓ Meets Mil-HDBK-454 Fungus resistant
- ✓ Meets Mil-Std-810 Fungus resistant
- ✓ Meets RTCA DO-160G Fungus resistant
- ✓ Exceeds ASTM E-595 Outgassing requirements

Engineered to Resist

- Flexing
- High Temperature
- Cold Temperature
- Chemicals

Features & Benefits

Ultra-Fine Stranded Copper Conductors

Fine stranding improves flex-life and reduces conductor fatigue and breakage. Bare and tinned conductors offered.

EZ-Flex™

EZ-Flex jacket is used externally on conductors that provides creep resistance, and thermal stability. EZ-Flex jacketing is color-coded and visible through the Flexx-Sil jacket to provide quick visual guide to conductor coding.

Flexx-Sil™

The Flexx-Sil™ jacket operates from -104°C to +260°C, and under exposure to water, sunlight, radiation, and most chemicals. Halogen free, flame retardant and self-extinguishing.



Notes

*Ampacity is based on ambient temperature of 40°C and conductor temperature of 200°C per the IEEE Standard 835 Power Cable Ampacity Table.

**Grip-Seals® Aluminum straight cable gland part number listed. Sizing based on nominal cable O.D. Due to process tolerances, a smaller/larger gland size may be required. Confirm NPT Fitting Size matches application.