

EN-NAME: REV: 007-0230 Engineering NC

Engineering Note

SUBJECT: CICOIL MIL CABLE AND CABLE ASSEMBLIES

CICOIL cable assemblies operate in the most sophisticated missile, fighter aircraft, commercial aviation, and space applications. CICOIL cables are ideal for mission-critical military and aerospace applications.

CICOIL Cable performance specifications:

PHYSICAL PROPERTIES:

Physical and mechanical, per ZZ-R-765E

| Property | Unit Test M | lethod Value | |
|-----------------------|---------------|--------------|------------|
| Temperature range | ºC | ASTM D2137 & | -65 to 260 |
| | | UL 94HB | |
| Hardness | Shore A | ASTM D2240 | 68-70 |
| Water Absorption | % vol. change | ASTM D471 | <+5 |
| Tensile Strength | PSI | ASTM D412 | >800 |
| Elongation at Break | % | ASTM D412 | >400 |
| Tear Strength | lb/in Die B | ASTM D624 | 280 |
| Brittle Point | ∘C | ASTM D2137 | -70 |
| Flame Retardant Temp. | ∘C | UL94HB & IEC | 260 min |
| | | 332 | |
| Decomposition Temp. | ºC | PTL 13057 | 446.2 |
| Combustion Temp. | ºC | PTL 13057 | 710.3 |

CHEMICAL RESISTANCE:

http://www.cicoil.com/PDF/chemc2.pdf

OUTGASSING:

| Certified to: TML (Total Mass Loss) | ≤1.00% |
|---|-------------|
| CVCM (Collected Volatile Condensable Materials) | .≤0.10% |
| Vacuum bake (PSI) | .≤10-6 torr |
| Vacuum bake (Temp) | |
| Vacuum Duration (h) | .48 hours |

OTHER RATINGS:

| NASA Outgassing specification | Spec 1124 |
|---------------------------------------|--------------|
| Standard Test Method for TML and CVCM | ASTM E595-93 |



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ELECTRICAL CICOIL CABLE AND CABLE ASSEMBLY PERFORMANCE:

CICOIL cable and cable assemblies offer the highest electrical performance available. CICOIL cables and cable assemblies meet or exceed various MIL and other specifications listed below:

MIL-STD-202

Department Of Defense Test Method Standard: Electronic And Electrical Component Parts

MIL-T-81490

Transmission Lines Transverse Electromagnetic Mode

MIL-PRF-39012

Performance Specification Connectors Coaxial Radio Frequency

MIL-T-81490

Transmission Lines Transverse Electromagnetic Mode

ASTM B117

Standard Practice For Operating Salt Spray (Fog) Apparatus

ASTM B196

Standard Specification For Copper-Beryllium Alloy

SAE AMS 2700

Passivation Of Corrosion Resistant Steels

MIL-STD-171

Manufacturing Process Finishing Of Metal

MIL-HDBK-454, Guideline 3

Guidelines For Electronic Equipment

Identification Marking Of U.S. Military Property

MIL-DTL-17

Cables, Radio Frequency, Flexible And Semirigid Specification

ISO 14644-1 (ISO 3 - 8)

Cleanrooms And Associated Controlled Environments

FED-STD-209E

Airborne Particulate Cleanliness Classes In Cleanrooms And Cleanzones

Standard For Safety Of Flammability Of Plastic Materials For Parts In Devices



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MIL CUSTOMERS USING CICOIL CABLE AND CABLE ASSEMBLIES:

CICOIL supplies cable assemblies directly to the military and to all major military/aerospace priome contractors. A partial list of military/aerospace customers/programs:

- Boeing
- Raytheon
- Northrop Grumman
- Lockheed Martin
- BAE Systems
- Goodrich Aerospace
- General Dynamics
- Honeywell
- Hughes
- L-3 Communications
- NASA
- Pratt & Whitney
- Rafael
- United Technologies
- The US Navy

...and others.