SHF-260 Highly Flexible Wire

Product Facts

- **260˚C rated (10K hours); 290˚C rated (500 hours)**
- **Handles down to a 6X bend radius**
- **All extruded fluoropolymer based insulation system**
- **Outstanding chemical and fluid resistance when tested to SAE-AS-22759/41**
- **Corona resistant when tested to ASTM D1868**
- **Arc track resistant to the current SAE-AS-22759 specification**
- **Currently available from 2/0-12 AWG sizes**
- **Meets FAR Part 25 Flammability**

TE is pleased to announce the introduction of its new SHF-260 highly flexible wire. The need for a combination of high temperature and high performance in wire insulation has become a critical factor in today's platforms. This is especially true in large diameter power feeder applications where temperature and durability are key.

Its highly flexible characteristic allows the cable to be bent and routed in extremely tight areas with no wrinkling or cracking of the insulation.This results in being able to run shorter distances, reducing the stresson the contact, and reducing the mating and demating forces normally associated with large shell diameter circular connectors - such as MIL-C-5015 and MIL-C-83723 connectors.

Its ability to route in tight spaces may allow the user to go "up" in AWG sizes and eliminate the need to split power, where routing and bending previously prevented the user from doing so.

Applications

Typical uses include both primary and secondary power distribution applications where high amperage is needed

Materials

Fluoropolymer based material

Standards & Specifications

TE Specification WCD3111

Ordering Information

Contact TE

Thermal Properties

Temperature Rating:
-65˚C to +260˚C

Life Cycle:
290˚C for 500 hours

Cold Bend:
-65˚C for 4 hours

Thermal Shock Resistance:
Accordance with ASS22759 using an oven temperature of 260˚C

Physical Properties

Weight and Dimensions:
See TE Specification Control Drawings

Insulation Elongation:
150% elongation minimum

Tensile Strength:
2000 lbf/inch2 minimum

Minimum Bend Radius:
290˚C for 500 hours around a mandrel having a diameter as specified in the applicable specification sheet

Wrap Test:
Accordance with ASS22759 using an oven temperature of 290˚

Fire Hazard Properties

Flammability - 60˚ Flame:
Exceeds test requirements

Smoke: Smoke resistance test specified in ASS22759 using an oven temperature of 290˚C

Electrical Properties

Voltage: 600V - 2000V

Insulation Resistance:
Minimum 50,000 Mohms/kft

Wire Printing

UV Laser Marking:
Excellent mark contrast

Catalog 1654025
Revised 5-12

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

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