SHF-260 HIGHLY FLEXIBLE WIRE

Excellent Flexibility for Easier Routing in Power Feeder Applications with a High-Temperature and High-Performance Wire



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SHF-260 HIGHLY FLEXIBLE WIRE

Excellent Flexibility in a High-Performance Wire



HIGHLY FLEXIBLE

- Down to 6x bending radius
- Tight routing and bending
- No wrinkling or cracking of insulation
- Reduces contact stress and mating/unmating forces

HIGH PERFORMANCE

- Outstanding chemical and fluid resistance
- Meets FAR Part 25 flammability requirements
- Excellent high temperature performance: 260°C (10,000 hours); 290°C (500 hours)

EXCELLENT ELECTRICAL PERFORMANCE

- Corona resistant
- Arc track resistant
- All extruded single or dual wall fluoropolymer insulation system

SHF-260 highly flexible wire satisfies the need for high temperature and high performance in large-diameter power feeder applications where easy routing and durability are key.

The cable's high flexibility allows it to be routed in extremely tight spaces—often shortening the required run—with no wrinkling or cracking of the insulation.

Flexibility of the SHF-260 wire serves to reduce stress on the contact and to reduce the mating and unmating forces normally associated with large circular connectors, such as MIL-DTL-5015 and MIL-DTL-83723 connectors.

The ability to route the cable in tight spaces may allow you to increase gauge size and eliminate the need to split power.

Available in 24 AWG to 4/0 AWG sizes, typical uses for SHF-260 wire include both primary and secondary power distribution applications where high current is needed and where routing in tight spaces is essential.

In addition to excellent flexibility and routability, SHF-260 wire provides outstanding chemical and fluid resistance, excellent electrical properties, and high-temperature performance to 260°C.

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MATERIALS

- **Insulation:** Modified PFA
- **Conductors:** Nickel-coat copper

ENVIRONMENTAL/MECHANICAL PERFORMANCE

- **Temperature Range:** -65°C to +260°C
- **Life Cycle:** 290°C for 500 hours
- **Cold Bend:** -65°C for 4 hours
- **Thermal Shock Resistance:** AS22759 using an oven temperature of 260°C
- **Insulation Elongation:** 150% min.
- **Tensile Strength:** 2000 psi min.
- **Min. Bend Radius:** 290°C for 500 hours around a mandrel
- **Wrap Test:** Accordance with AS22759 using an oven temperature of 290°C
- **Flammability, 60° Flame:** Exceeds test requirements
- **Smoke:** Smoke resistance test specified in AS22759 using an oven temperature of 290°C

ELECTRICAL PERFORMANCE

- **Voltage Range:** 1000 V_{rms}
- **Insulation Resistance:** 50,000 MΩ/1000 ft min.
- **Corona Resistance:** ASTM D1868
- **Arc Track Resistance:** SAE AS22759

WIRE PRINTING

- **UV Laser Marking:** Excellent mark contrast (available in 10 AWG and smaller only)

SPECIFICATIONS

- **Product Specification:** WCD3111

Part Numbering/Ordering Information

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