

FLIGHT SAFE 260® AIRCRAFT WIRE

***A high temperature, fire resistant wire where abrasion, moisture, oil and fluid resistance are required.
Meets all the performance requirements of Mil-W-25038/1B.***



Contains no asbestos. Meets or exceeds all requirements of Mil-W-25038/1B.

- Teflon tape and Teflon impregnated glass braid for high temperature operation to provide moisture-impervious and solvent-resistant barrier.
- Advance design composite layer for high temperature operation and resistance to flame and vibration.
- Inorganic fiber-glass silicone saturated for high temperature operation and resistance to flame, radiation, abrasion, and cut-through.
- Stranded nickel clad copper conductors for flexibility, ease of installation, and high temperature operation.

WHAT IT IS

FlightSafe 260® is a specially designed high temperature, fire resistant aircraft wire for use under emergency conditions involving exposures to flame with temperatures up to 2000°F.

ADVANTAGES

1. Provides critical high temperature fire resistance.
2. Retains insulation integrity for a minimum of 5 minutes at 2000°F.
3. Gives unexcelled resistance to abrasion, moisture, and aviation fluids.
4. Available in multi-conductor, shielded and jacketed constructions.
5. Withstands grueling vibration and flexing.

CONSTRUCTION SPECIFICATIONS

Conductors: 27% nickel-coated copper, concentric stranding per Mil-W-25038.

***Insulation:** Composite consisting of silicone impreg-

nated inorganic fiber and composite layer TFE tape with a Teflon impregnated glass braid overall.

Color Code: White, unless specified.

* One hundred percent (100%) of the finished wire passes a 2500 V.RMS spark test.

OPERATING CHARACTERISTICS PHYSICAL PROPERTIES

Temperature Rating: -54°C to 260°C

Voltage Rating: 600 V. RMS

Cold Bend Qualification Tests: Passes -65°F

Thermal Shock Qualification Test: Passes cycling -67°F to 500°F

Flame Resistance: Integrity of 2000°F for 5 minutes at 125 V. RMS

Wet Dielectric: Passes 1500 V.RMS after conditioning in 5% NaCl solution

Fluid Immersion: After conditioning in fluids ranging from aviation gasoline to hydraulic fluid, wire passes bend tests and wet dielectric tests.

ENGINEERING FOR TOMORROW

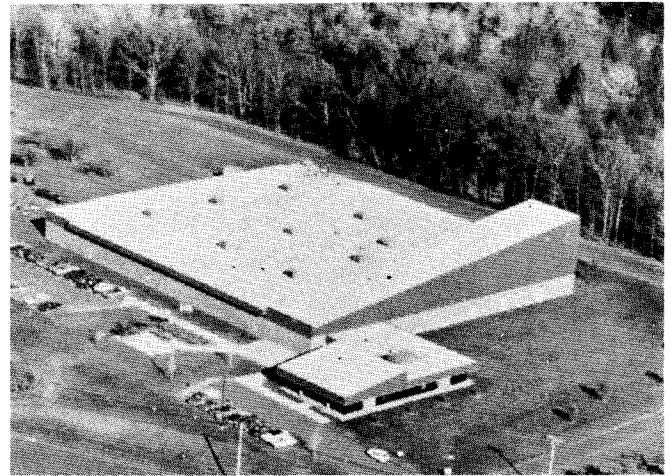
ISO - 9001 CERTIFIED

FINISHED WIRE CONSTRUCTION DETAILS

| FlightSafe 260 Wire Size | Stranding | Max. Resistance at 20°C (68°F) Ohms/1000Ft. | Finished Diameter (Inches) | Weight lbs./1000Ft. (Max.) |
|-----------------------------|------------|---|----------------------------------|----------------------------------|
| 22 | 19/34 | 23.7 | .108 ± .008 | 10 |
| 20 | 19/32 | 14.6 | .117 ± .008 | 12 |
| 18 | 19/30 | 9.14 | .127 ± .008 | 15 |
| 16 | 19/29 | 6.85 | .137 ± .010 | 19 |
| 14 | 19/27 | 4.32 | .160 ± .010 | 25 |
| 12 | 19/25 | 2.78 | .175 ± .010 | 35 |
| 10 | 49/.0142 | 1.68 | .220 ± .010 | 55 |
| 8 | 133/.0113 | .936 | .268 ± .012 | 85 |
| 6 | 133/.0142 | .591 | .330 ± .012 | 127 |
| 4 | 133/.0179 | .375 | .395 ± .012 | 192 |
| 2 | 665/.010 | .241 | .472 ± .012 | 291 |
| 1 | 817/.010 | .196 | .515 ± .018 | 347 |
| 1/0 | 1,045/.010 | .153 | .555 ± .018 | 415 |
| 2/0 | 1,330/.010 | .120 | .615 ± .020 | 520 |
| 3/0 | 1,672/.010 | .096 | .680 ± .020 | 648 |
| 4/0 | 2,109/.010 | .077 | .750 ± .020 | 793 |

CROSS REFERENCE PART NUMBER GUIDE

| Part # | Gauge Size | Mil Spec Ref. # |
|-------------|------------|---------------------|
| 814-4987665 | 22 | Mil-W-25038/1-22-9 |
| 814-4981957 | 20 | Mil-W-25038/1-20-9 |
| 814-4987573 | 18 | Mil-W-25038/1-18-9 |
| 814-4982224 | 16 | Mil-W-25038/1-16-9 |
| 814-4987558 | 14 | Mil-W-25038/1-14-9 |
| 814-4982232 | 12 | Mil-W-25038/1-12-9 |
| 814-4987541 | 10 | Mil-W-25038/1-10-9 |
| 814-4982240 | 8 | Mil-W-25038/1-8-9 |
| 814-4982257 | 6 | Mil-W-25038/1-6-9 |
| 814-4982265 | 4 | Mil-W-25038/1-4-9 |
| 814-4987566 | 2 | Mil-W-25038/1-2-9 |
| 814-4982273 | 1 | Mil-W-25038/1-1-9 |
| 814-4982281 | 1/0 | Mil-W-25038/1-1/0-9 |
| 814-4982229 | 2/0 | Mil-W-25038/1-2/0-9 |
| 814-4982315 | 3/0 | Mil-W-25038/1-3/0-9 |
| 814-4982323 | 4/0 | Mil-W-25038/1-4/0-9 |



Modern 65,000 square foot manufacturing facility located in Wallingford, Connecticut.

Trademarked FlightSafe 260 cable is available exclusively from Specialty Cable. The custom design that created it and the proprietary technology that makes FlightSafe 260® unique in hostile environment conditions comes from the research, engineering design and testing facilities available only to Specialty Cable clients.

SPECIAL DESIGNS: The cable designs in this table represent our standard product line. If you require special modifications or unique design, Specialty's design and testing facilities can produce special cables for the most demanding applications.

For further information or additional copies of this technical data sheet, call or or write:

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