



**Siechem**  
Wires & Cables

## Siechem AERO 55 600 V Insulated Twisted Twin Core Airframe Cables

**AERO 55**

### Application

- ✓ Hook up signal wire & cables used in aircraft, avionics, military electronics, satellites, helicopters, missiles, automobiles and appliances.

### Features

- ✓ Insulation does not shrink in hostile working environment.
- ✓ Better cut through resistance characteristics
- ✓ Single or dual wall constructions.
- ✓ Small size and light weight.
- ✓ No melting or dripping due to prolonging excess heat because of EBXL process.
- ✓ Resistance to soldering iron & over load.
- ✓ Excellent chemical resistance to many acids, carbon solvents, fuels, lubricants, missile fuels, oxidizers etc.
- ✓ Temperature rating -65°C to +200°C [-85°F to +392°F], stable installed performance in very hot, extremely cold and high vacuum conditions
- ✓ Outstanding electrical arc tracking resistance in wet and dry conditions.
- ✓ Very low toxic.
- ✓ Mechanical ruggedness.
- ✓ Good flexibility.
- ✓ Excellent scrape abrasion.
- ✓ RoHS Compliant.

### Product Construction

- ✓ Conductor : Annealed Tinned Copper Conductor (Optional : Silver Coated Copper Conductor / Nickel Coated Copper Conductor)
- ✓ Insulation : Radiation Cross-Linked Specially Formulated ETFE (Ethylene Tetrafluoroethylene)
- ✓ No. of cores : 2
- ✓ Colour : As Per Customer Order.

### Technical Data

- ✓ Temperature Rating
  - i) Tin Plated Conductor : -65°C to +150°C
  - ii) Silver or Nickel Plated Conductor : -65°C to +200°C
- ✓ Voltage Rating : 600V, Normal weight, airframe
- ✓ Scrape Abrasion : >100 cycles
- ✓ Flexing Endurance : >1000 cycles
- ✓ Shrinkage : <1%
- ✓ Thermal Endurance : 200°C, 10000h
- ✓ Permittivity at 1KHz : 2.7
- ✓ Dissipation Factor : 0.001

### Standards

- ✓ SAE AS227759/32-35 and / 41 to / 46
- ✓ NEMA-WC-27500(Cables)
- ✓ Def-Stan 61-12 Part 33 Issue 5
- ✓ VDE 9426, 9427, 9428
- ✓ British Standard 3G233
- ✓ Boeing BMS 13-48
- ✓ Airbus ABS 0820 to 0826
- ✓ ASTM D150

ISO 9001	ISO 14001	OHSAS 18001	AS 9001	ISO 45001	REACH COMPLIANT	RoHS COMPLIANT	CE
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Part Number	Wire Size (AWG)	Cross Section Area (Sq.mm)	No. of Cores (Nos.)	No. of Strands (Nos.)	Diameter of Single Wire (Nom.) (mm)	Overall Diameter (Nom.) (mm)	Cable Weight (Approx.) (kg/km)
55G1408502	26	0.13	2	19	0.10	2.12	5.06
55G1408402	24	0.20	2	19	0.13	2.35	6.84
55G1408302	22	0.33	2	19	0.16	2.66	9.98
55G1408202	20	0.52	2	19	0.20	3.09	14.73
55G1408102	18	0.82	2	19	0.25	3.65	21.88
55G1408002	16	1.31	2	19	0.29	4.08	27.53
55G1407902	14	2.08	2	19	0.36	4.92	42.26
55G1407802	12	3.31	2	37	0.32	5.82	63.00
55G1407702	10	5.26	2	37	0.40	7.12	98.96



Siechem Wires & Cables Meet EU RoHS Directive

Lead Free	Hg Free	Cd Free	Cr <sup>6+</sup> Free	PBB Free	PBDE Free
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