



**Siechem AERO 55 600V Single Core Statistical Process Controlled Shielded Airframe Wires**

**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 though 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)
- ✓ Shielding : Annealed Tinned Copper.
- ✓ Outer sheath: Radiation Cross-Linked Specially Formulated ETFE (Ethylene Tetrafluoroethylene)
- ✓ Single core
- ✓ Colour : As Per Customer Order.

**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

**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, Medium weight
- ✓ Scrape Abrasion : >100 cycles
- ✓ Flexing Endurance : >1000 cycles
- ✓ Shrinkage : < 1 %
- ✓ Thermal Endurance : 200°C, 10000h
- ✓ Permittivity at 1KHz : 2.7
- ✓ Dissipation Factor : 0.001

<b>ISO 9001</b>	<b>ISO 14001</b>	<b>OHSAS 18001</b>	<b>AS 9001</b>	<b>ISO 45001</b>			
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Part Number	Wire Size (AWG)	Cross Section Area (Sq.mm)	No.of Strands (Nos.)	Diameter of Single Wire (Nom.) (mm)	Overall Diameter (Nom.) (mm)	Cable Weight (Approx.) (kg/km)
55P41085XXYY	26	0.13	19	0.10	1.54	6.54
55P41084XXYY	24	0.20	19	0.13	1.67	7.86
55P41083XXYY	22	0.33	19	0.16	1.82	9.81
55P41082XXYY	20	0.52	19	0.20	2.02	12.83
55P41081XXYY	18	0.82	19	0.25	2.25	17.01
55P41080XXYY	16	1.31	19	0.29	2.46	20.36
55P41079XXYY	14	2.08	19	0.36	2.81	28.69
55P41078XXYY	12	3.31	37	0.32	3.32	40.73
55P41077XXYY	10	5.26	37	0.40	4.00	59.90

Note : XX\* & YY\* : Please add last two digits in the part number as per the colour code given hereunder replacing XX & YY while ordering.

Red - 01	Yellow - 02	Blue - 03	Black - 04	Green - 05	Grey - 07	Brown - 08	White - 09	Orange - 10	Violet - 11
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**Siechem Wires & Cables Meet EU RoHS Directive**

<b>Lead Free</b>	<b>Hg Free</b>	<b>Cd Free</b>	<b>Cr<sup>6+</sup> Free</b>	<b>PBB Free</b>	<b>PBDE Free</b>
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www.siechem.com