


**Siechem AERO 55 600V Single Core Shielded 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, light 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

**ISO  
9001**
**ISO  
14001**
**OHSAS  
18001**
**AS  
9001**
**ISO  
45001**


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)
55G40087XXYY	30	0.051	7	0.10	1.52	5.06
55G40086XXYY	28	0.08	7	0.13	1.61	5.80
55G40085XXYY	26	0.13	19	0.10	1.73	6.85
55G40084XXYY	24	0.20	19	0.13	1.86	8.19
55G40083XXYY	22	0.33	19	0.16	2.01	10.27
55G40082XXYY	20	0.52	19	0.20	2.22	13.40
55G40081XXYY	18	0.82	19	0.25	2.47	17.86
55G40080XXYY	16	1.31	19	0.29	2.69	21.73
55G40079XXYY	14	2.08	19	0.36	3.12	30.36
55G40078XXYY	12	3.31	37	0.32	3.57	42.41
55G40077XXYY	10	5.26	37	0.40	4.22	62.65
55G40076XXYY	8	8.37	133	0.29	5.82	110.42

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**

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