



## Siechem AERO 44 600V Single Core Unsheathed Primary Wires

**AERO 44**

### Application

- ✓ Hook up and signal wire and cable used in aircraft, avionics, military electronics, satellites helicopters, ships, mass transit, offshore platforms, and automobiles.

### Features

- ✓ Insulation does not shrink in hostile working environment .
- ✓ AERO 44 wires have 40% greater cut through resistance than some of the thickly insulated wires.
- ✓ Dual wall constructions.
- ✓ 600, 1000 and 2500 voltage rating.
- ✓ 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 available with low outgassing characteristics for use in an environment of high vacuum and high temperature.
- ✓ Outstanding electrical arc tracking resistance in wet and dry conditions.
- ✓ Very low toxic.
- ✓ Prevents cold flow of the insulations.
- ✓ Excellent scrape abrasion.
- ✓ Good flexibility.
- ✓ RoHS Compliant.

### Product Construction

- ✓ Conductor : Annealed Tinned Copper Conductor (Optional : Silver Coated Copper Conductor / Nickel Coated Copper Conductor)
- ✓ Insulation : Radiation Cross-Linked Specially Formulated Polyalkene Extruded
- ✓ Single core
- ✓ 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 (Thin wall) : 600V, light weight
- ✓ Tensile Strength : 28 N/mm<sup>2</sup>
- ✓ Elongation of Insulation : 230%
- ✓ Shrinkage, 200°C : < 1%
- ✓ Low Temperature Bend : -65°C [-85°F]
- ✓ Flammability : Pass
- ✓ Resistance : Pass (fuels, oils, solvents)
- ✓ Smoke/Toxicity Index
  - i) Smoke index : 6 per meter of wire
  - ii) Toxicity index : 0.8 per meter of wire
  - iii) Oxygen index : 30% Oxygen
  - iv) Temperature index : > 300°C [572°F]

### Standards

- ✓ MIL-W-81044, MIL-C- 27500, MIL-C 7078 MIL -W- 16878, MIL-W-22759 MIL-STD-104, MIL-STD-681, MIL-STD-1916
- ✓ VG 95218 Parts 20, 21, 22, 23 and 1000.
- ✓ MSV34401
- ✓ BS G210, BS 4066
- ✓ TDE 74/P/74 and TDE 75/R/6
- ✓ S424 14751
- ✓ Def - Stan. 61-12 Part 18 Issu4/Part 26 Issue 3
- ✓ NFC 32070
- ✓ NES 714, NES 715
- ✓ ASTM E 595
- ✓ NEMA WC 27500

**ISO 9001**

**ISO 14001**

**ISO/TS 16949**

**OHSAS 18001**



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 (Max.) (kg/km)
44G00087XX	30	0.051	7	0.10	0.70	1.06
44G00086XX	28	0.08	7	0.13	0.78	1.43
44G00085XX	26	0.13	19	0.10	0.88	2.08
44G00084XX	24	0.20	19	0.13	1.04	2.98
44G00083XX	22	0.33	19	0.16	1.21	4.46
44G00082XX	20	0.52	19	0.20	1.42	6.70
44G00081XX	18	0.82	19	0.25	1.67	10.12
44G00080XX	16	1.31	19	0.29	1.85	12.80
44G00079XX	14	2.08	19	0.36	2.28	19.64
44G00078XX	12	3.31	37	0.32	2.76	30.06
44G00077XX	10	5.26	37	0.40	3.30	46.28

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