



Siechem AERO 44 600V Single Core Dual Wall Insulated Airframe Wires

AERO 44

Application

Features

✓ Dual wall constructions.

environment.

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

✓ Insulation does not shrink in hostile working

✓ AERO 44 wires have 40% greater cut though

Product Construction

✓ Conductor : Annealed Tinned Copper Conductor (Optional : Silver Coated Copper Conductor / Nickel Coated Copper Conductor)

> Specially Formulated Polyalkene Extruded & Radiation Cross-Linked

> > Fluoride)

Single core:

Insulation : Dual Wall Radiation Cross-Linked Improved PVDF (Polyvinylidene

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, Medium Weight,

Airframe

√ Tensile Strength : 28 N/mm² ✓ Elongation of Insulation : 230% ✓ Shrinkage,200°C : < 1% : -65°C [-85°F] ✓ Low Temperature Bend

√ Flammability : Pass ✓ Resistance

: Pass (fuels, oils, √ Smoke/Toxicity Index solvents) i) Smoke index : 6 per meter of wire

ii) Toxicity index : 0.8 per meter of wire iii) Oxygen index : 30% Oxygen

: > 300°C [572°F] iv) Temperature index

No melting or dripping due to prolonging excess heat,

because of EBXL process. ✓ Resistance to soldering iron & over load.

resistance than some of the thickly insulated wires.

√ 600, 1000 and 2500 voltage rating.

Small size and light weight.

✓ 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.

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
- MSV34401
- BS G210, BS 4066
- TDE 74/P/74 and TDE 75/R/6

Issu4/Part 26 Issue 3 NFC 32070

- VG 95218 Parts 20, 21, 22, 23 and 1000.

- S424 14751

✓ NES 714, NES 715

✓ Def - Stan. 61-12 Part 18

✓ ASTM E 595

NEMA WC 27500

ISO **ISO** 9001

ISO/TS OHSAS 14001 16949 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)
44A23085XXYY	26	0.13	19	0.10	1.24	2.98
44A23084XXYY	24	0.20	19	0.13	1.39	3.87
44A23083XXYY	22	0.33	19	0.16	1.59	5.65
44A23082XXYY	20	0.52	19	0.20	1.80	8.04
44A23081XXYY	18	0.82	19	0.25	2.05	11.91
44A23080XXYY	16	1.31	19	0.29	2.28	14.73
44A23079XXYY	14	2.08	19	0.36	2.76	22.17
44A23078XXYY	12	3.31	37	0.32	3.22	32.59
44A23077XXYY	10	5.26	37	0.40	3.96	52.08
44A23076XXYY	8	8.37	133	0.29	5.46	93.46

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



Siechem Wires & Cables Meet EU RoHS Directive **PBDE** PBB

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