



Siechem
Wires & Cables

Siechem AERO 44 600V Twisted Twin Core Cables

AERO 44

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.
- ✓ 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
- ✓ 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 (Thin wall) : 600V, light weight
- ✓ Tensile Strength : 28 N/mm²
- ✓ 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 Cores (Nos.)	No.of Strands (Nos.)	Diameter of Single Wire (Nom.) (mm)	Overall Diameter (Nom.) (mm)	Cable Weight (Max.) (kg/km)
44G108502	30	0.051	2	7	0.10	1.39	2.38
44G108402	28	0.08	2	7	0.13	1.54	3.13
44G108102	26	0.13	2	19	0.10	1.75	4.47
44G108202	24	0.20	2	19	0.13	2.05	6.69
44G108102	22	0.33	2	19	0.16	2.40	9.82
44G108002	20	0.52	2	19	0.20	2.81	14.73
44G107902	18	0.82	2	19	0.25	3.32	22.32
44G107802	16	1.31	2	19	0.29	3.67	28.42
44G107702	14	2.08	2	19	0.36	4.54	44.35
44G107602	12	3.31	2	37	0.32	5.50	69.00



Siechem Wires & Cables Meet EU RoHS Directive

Lead Free	Hg Free	Cd Free	Cr ⁶⁺ Free	PBB Free	PBDE Free
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