





Siechem AERO 44 600V Twisted Twin Core Shielded 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 though 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 ✓ Temperature Rating (Optional : Silver Coated Copper Conductor /

Nickel Coated Copper Conductor)

✓ Insulation : Radiation Cross-Linked Specially Formulated Polyalkene Extruded

√ Shielding : Annealed Tinned Copper.

Outer sheath: Radiation Cross-Linked Improved PVDF (Polyvinylidene Fluoride)

√ No. of cores : 2

: As Per Customer Order. Colour

Technical Data

i) Tin Plated Conductor : -65°C to + 150°C

ii) Silver or Nickel Plated

Conductor : -65°C yo +200°C ✓ Voltage Rating(Thin wall) : 600V, light weight

✓ 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

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

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- √ NFC 32070
- √ NES 714, NES 715
- ✓ ASTM E 595
- ✓ NEMA WC 27500

ISO 9001

ISO 14001

16949

ISO/TS OHSAS









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)
44G5008502	30	0.051	2	7	0.10	2.25	8.63
44G5008402	28	0.08	2	7	0.13	2.40	9.82
44G5008302	26	0.13	2	19	0.10	2.61	12.05
44G5008202	24	0.20	2	19	0.13	3.00	16.82
44G5008102	22	0.33	2	19	0.16	3.37	21.57
44G5008002	20	0.52	2	19	0.20	3.78	27.97
44G5007902	18	0.82	2	19	0.25	4.34	38.24
44G5007802	16	1.31	2	19	0.29	4.69	44.94
44G5007702	14	2.08	2	19	0.36	5.55	64.28
44G5007602	12	3.31	2	37	0.32	6.52	91.51



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

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