



EXPERTISE IN AEROMIL





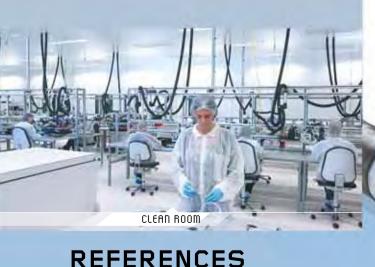
- **→** FLEXIBILITY, WEIGHT SAVING, MINIATURISATION, HIGH FREOUENCY, HIGH DATA RATE, EMC PERFORMANCE, EXTREME TEMPERATURES.
- **APPLICATIONS**: RADARS, ANTENNAS, NAVIGATION COMMUNICATION SYSTEMS, COUNTER MEASURES, ELECTRONIC SYSTEMS, FORWARD-LOOKING INFRA-RED SYSTEMS, MISSILES, HELMET MOUNTED DISPLAYS, RETROFIT OF AIRCRAFT, GIMBALS, ELECTRONIC BOXES, TWIST CAPSULES, ETC...

AXON' CABLE has brought its expertise in the manufacture of precision conductors, wires, cables and assemblies together with its knowledge of overmoulding techniques and EMI protection to be able to offer solutions to civil and military aeronautics.

WIRES AND CABLES

- Wires and cables insulated with PTFE, FEP, PFA, ETFE, cross linked ETFE, polyimide and other insulating materials for extreme temperatures: from -90°C to + 260°C.
- Flexible wrapped cables insulated with PTFE.
- ESA wires, aluminium.
- → AXALU® aluminium round wires and cables for weight saving
- > Very Flexible high stranded conductor Wires (FW) for ease of installation or long flexlife.
- → UV laser markable extruded wires (including PTFE version).
- → VITAX[™] composite cables insulated with fluorinated elastomers: high flexibility, high resistance to aggressive chemical environments and high temperature performance up to 230°C.
- → MIL-STD-1553B databus cables: a good compromise between electrical characteristics, space and weight. Standards: MIL-C-17/176-00002, pr EN 3375, PANAVIA 6421, ECS 0700, SSO 21655.
- → Coaxial cables and low loss microwave coaxial assemblies. The dielectric can be made with CELLOFLON® (porous PTFE) for lighter, smaller and more flexible cables with better electrical characteristics.
- → High speed wires: militarised IEEE 1394 480 mbits/s.
- On board Ethernet 100 base T 100 mbits/s.
- → Fibre Channel links 2.2 gbits/s.
- → Flat Flexible Cables for board-to-board interconnections and display interconnect
- Custom designed wires and cables.
- SILFORM®, flat silicone cables with hybrid construction for inner elements.

Tiger (Eurocopter), Eurofighter, Stormshadow, Tornado, Nimrod, C27J, NH90, EH101, ASTOR, JSF, Lynx, F18, Gripen, M346, A129, DIRCM, Rafale, Airbus, Meteor (European missile), FV430 armoured vehicle, VT1 missile, Indra, MBDA, CESA, ISS, Columbus, etc...





→ Different types of connectors and triaxial contacts designed for MIL-STD-1553B databus applications.

Qualifications and design according to EN3716.

Miniature single way connector available with 4 different keyways; will mate with Raychem DK621 and Trompeter 450 series.

→ Micro-D connectors for space, weight saving and miniaturisation: BS, BR, CBR, etc... Standard and custom designed metal and plastic shells, strip and saver, circular Micro-D. Characteristics: twist-pin contact (3 Amp)

Standard: MIL-DTL-83513

→ Plastic and metal NANO-D connectors for extreme miniaturisation Nano-D backshells, custom designed Nano-D shells.







EXPERTISE IN EMC

- → Dedicated development team: from simulations to the manufacture of braided cables and harnesses.
- → Approved laboratory to carry out transfer impedance.
- → Shield efficiency measurement up to 18 GHz in mode stirred chamber.
- Overbraiding of multi-branched assemblies.
- → Connector backshells to protect the assembly from EMI problems or mechanical damage.
- -> D-Sub or Micro-D halorings to facilitate termination of the wire shields.
- → Shield band termination: AXOCLAMP® to connect braid to backshells.
- → Shielding braid: AXOTRESSE®: copper and/or silver plated aluminium braids with guaranteed transfer impedance.

EXPERTISE IN PLASTICS TECHNOLOGY

- → Custom designed solutions for mechanical protection of the cable/connector interface: shaping, airtightness, mechanical strength, chemical resistance, protection of shielding termination, etc...
- → Mould design and overmoulding techniques: low pressure, hot melt, high pressure.
- → Potting.

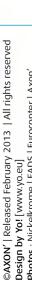
TESTING CAPABILITIES AND QUALITY ASSURANCE

- ⇒ **Electrical characteristics:** automatic testing for electrical continuity, insulation resistance, dielectric strength, electromagnetic compatibility, eye pattern.
- **⇒ Environmental characteristics:** thermal shock, humid heat, life duration, flame, accelerated ageing, salt spray, etc...
- → **Mechanical characteristics:** combined flex/torsion, winding, folding, vibration, shock, etc...

QUALITY ASSURANCE

ISO 9001 / ISO 14001 / AS/EN/JISQ 9100 / ISO/TS 13485 / OHSAS 18001







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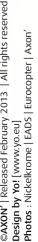
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AXON' AGENT