

NAVIGATION COMMUNICATION SYSTEMS
COUNTER MEASURES
ELECTRONIC SYSTEMS
FORWARD-LOOKING INFRA-RED SYSTEMS
MISSILES
HELMET MOUNTED DISPLAYS
RETROFIT OF AIRCRAFT
GIMBALS
ELECTRONIC BOXES
TWIST CAPSULES
EJECTION SEATS

ETC.



### **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: AXOTRESS: 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



# axon'

# **EXPERTISE IN AEROMIL**

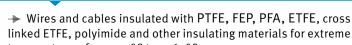




# REQUIREMENTS OF AEROMIL **APPLICATIONS**

- → FLEXIBILITY, WEIGHT SAVING, MINIATURISATION, HIGH FREQUENCY, HIGH DATA RATE, EMC PERFORMANCE, EXTREME TEMPERATURES.
- → APPLICATIONS: RADARS, ANTENNAS, NAVIGATION COMMUNICATION SYSTEMS, COUNTER MEASURES, ELECTRONIC SYSTEMS, FORWARDLOOKING 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

- 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, SSQ 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.



## REFERENCES

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.





# CONNECTORS

⇒ 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.







#### >> FRANCE

AXON' CABLE S.A.S.

2 RTE DE CHALONS-EN-CHAMPAGNE 51210 MONTMIRAIL TEL: +33 3 26 81 70 00 FAX: +33 3 26 81 28 83 sales@axon-cable.com www.axon-cable.com

#### >> BRAZIL

#### AXON' CABLE IND. E COM. LTDA.

Av. Afonso Arinos de Melo Franco, 222 sala 276 bloco2B Barra da Tijuca - CEP.: 22631-455 RIO DE IANEIRO - RI TEL: +55 21 3596-8002 I.moreira@axon-cable.com

#### >> CANADA

#### **AXON' CABLE CANADIAN OFFICE**

4578 rue Chabot H2H 1Y3 MONTREAL, QUEBEC TEL.: +1 514 898 2044 g.hannequin@axoncable.com

#### » CHINA

#### **AXON' INTERCONNECT LIMITED**

HIGH TECH INDUSTRIAL PARK, CHANG BAO XI ROAD RONGGUI, 528306 SHUNDE, GUANGDONG TEL: +86 757 2838 7200 FAX: +86 757 2838 7212 sales@axon-interconnect.com

### » GERMANY POSTFACH 1131

#### AXON' KABEL GmbH

71201 LEONBÉRG HERTICHSTR. 43 71229 LEONBERG TEL: +49 7152 97992-0 FAX: +49 7152 97992-7 sales@axon-cable.de

#### >> HUNGARY

#### AXON' KÁBELGYÁRTÓ KFT.

Külső-Szegedi út 104. KECSKEMÉT, H-6000 TEL.: +36 76 508 195 FAX: +36 76 508 196 axon@axon-cable.hu

#### » INDIA

#### **AXON' INTERCONNECTORS** AND WIRES PVT LTD

#117, Neil Rao Towers Suite No. 1W, Road No. 3 EPIP, Whitefield BANGALORE 560066 TEL: +91 804 091 8186 FAX: +91 804 091 8185 sales@axon-cable.in

#### >> JAPAN

#### **AXON' CABLE JAPAN OFFICE**

TEL/FAX: +81 26 244 2261 axon-japan@axon-cable.com

#### >> LATVIA

#### **AXON' CABLE SIA**

VIŠKU IELA, 21C DAUGAVPILS - LV-5410 TEL: +371 6540 78 91 FAX: +371 6540 78 93 axon@axoncable.lv

#### » MEXICO

#### AXON' INTERCONEX, S.A. DE C.V

Av. Peñuelas 21-A1. Industrial San Pedrito Peñuelas Querétaro Park 76148 QUERÉTARO, QRO. TEL: +52 442 215 2713 FAX: +52 442 220 6464 axon-mexico@axoncable.com

#### » SPAIN

#### **AXON' CABLE SPANISH OFFICE**

C/CAPITÁN HAYA, Nº 1, PLANTA 15 28020 MADRID TEL: +34 91 418 43 46 FAX: +34 91 556 28 80 sales@axon-cable.com

#### >> UNITED KINGDOM

#### **AXON' CABLE Ltd**

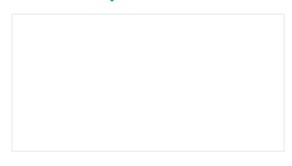
Axon' Agora Admiralty Park - ROSYTH DUNFERMLINE - FIFE KY11 2YW TEL: +44 1383 421500 FAX: +44 8715 282789 sales@axon-cable.co.uk

#### » USA

#### **AXON' CABLE INC.**

1314 N PLUM GROVE ROAD SCHAUMBURG, IL. 60173 TEL: +1 847 230 7800 FAX: +1 847 230 7849 sales@axoncable.com

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