

axon 

SPACE

CONNECTORS, CABLES AND INTERCONNECT SOLUTIONS FOR DEFENSE

AIR

LAND

SEA

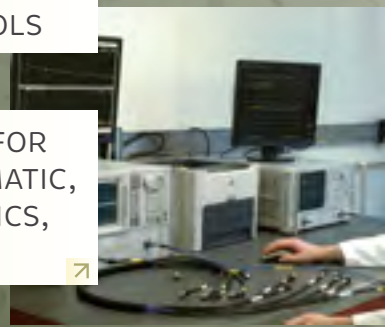
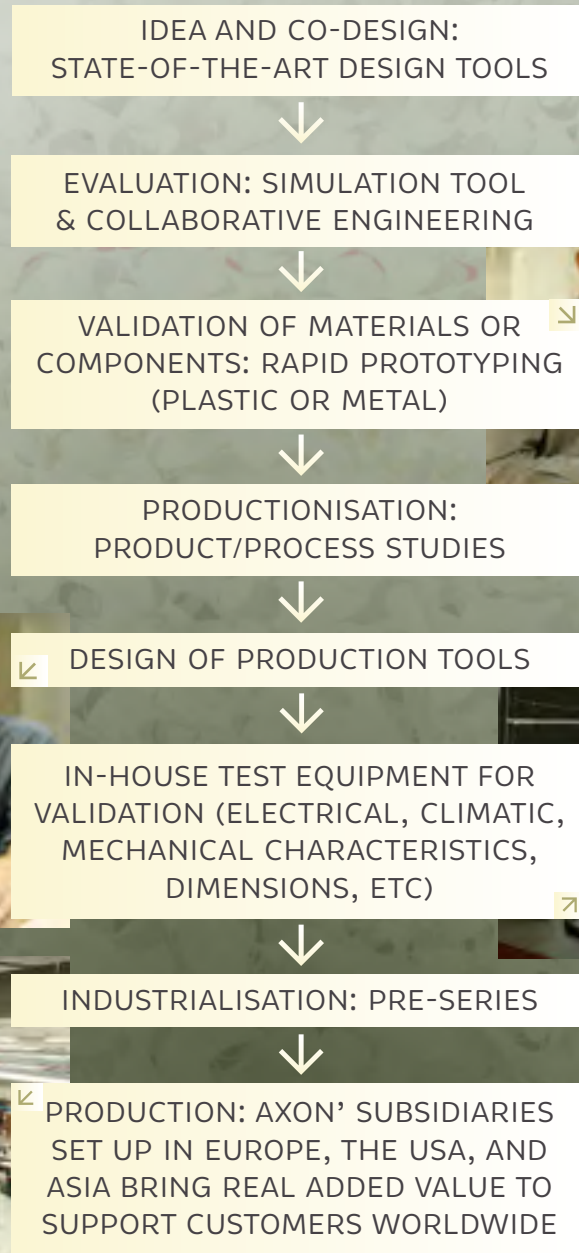
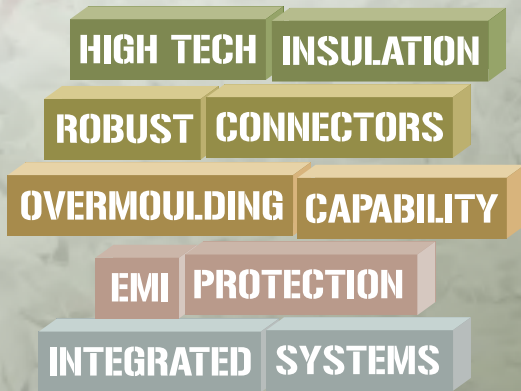


CO-ENGINEERING

Our sales and design teams can help you to define the very solution you need to meet all your requirements

UPGRADE YOUR OWN DEFENSE

Create and build your own solution to fit with your specific needs



VERTICAL INTEGRATION

To be resilient and optimize the supply chain, Axon' has vertically integrated several technologies including:



CONDUCTORS & CABLES

plating, drawing, insulating, assembling, shielding, potting, jacketing



CONNECTORS

plating, machining, milling, molding & overmolding and design of manufacturing tools

WEIGHT AND SPACE SAVING – MINIATURISATION

Connectors based on the reliable technology of twist pin:

- **Micro-D:** contact spacing: 1.27mm, operating temperatures: -55°C up to 260°C
- **Nano-D:** contact spacing 0.635mm, operating temperatures: -55°C up to 200°C
- **Circular connectors:** operating temperatures: -55°C up to 200°C
- **Large range of standard and custom-designed connectors**

MULTI-SKILLS HARNESSES

Integrated systems with combination of Axon' expertise

OPTRONIC SYSTEMS

- **Twist capsule:** high flex life in restricted space
- **Ultra flexible wires**

DATA TRANSMISSION

MIL-STD-1553: signal integrity and security of data

TRIAxon

Triaxial crimpable contacts: signal integrity

WATERPROOF

- **Overmolding:** waterproofness and resistance to fluids
- **IP micro and nano connector range**

EMI PROTECTION

- **Overbraiding:** tin, silver or nickel >single or double braid
- **Axoclamp®:** 360° shielding
- **Backshells:** modular or multi-part version > easy cabling

OUR SOLUTIONS FOR DEFENSE

HIGH VOLTAGE

Axovolt®: high voltage miniature wires – up to 22KV

INTEGRATION OF PCB

Time saving and cost-effective solution : PCB are directly integrated in the interconnect. Evolutions are made on the Axon' product which limits iterations for the customer

FAST INTEGRATION

- **D-Click® fast latching connectors**
Based on MIL-DTL-83513. One click and you're done!
- **Versatys®**
Current rating 40 A max , 33% smaller, 40% lighter than a D-Sub. Easy maintenance: lines are dismountable
- **Circular connectors**
Three lug bayonet or breakaway version for quick connect/disconnect

OVERMOLDING

- **Overmolding assemblies** with various raw materials for all defense applications
- **Development of new materials**

HIGH FREQUENCY

Microwave assemblies: radar, antennas, surveillance systems – from 1 to 50 GHz

HIGH DATA RATE

- **High data rate links:** reliable transmission between on-board devices, terminated with Axon' Micro-D connectors
- **Various protocols:** IEEE 1394, Ethernet, BUS 1553...
- **Coaxial cables:** signal transmission with a minimum loss
- **LVDS cables:** high speed transmission up to 2Gbps

POWER DISTRIBUTION

- **Flexforce:** high flex power cable | High current | Operating voltage : 600 VAC, 1000 VAC, depending on the construction. Higher voltage ratings on request.
- **Bus bar:** electrical power distribution

OPTICAL DEVICES

- **Optical connectors**
- High temperatures: +125°C -1000 hours
- High resistance: vibration, shocks & humidity
- Optical cables for harsh environments

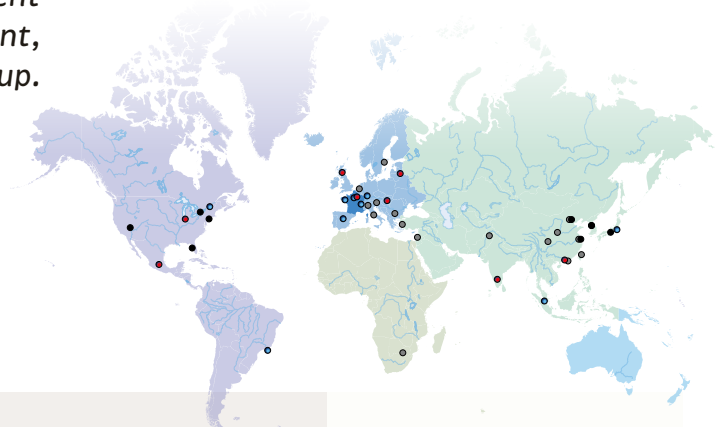
AXON' CABLE'S EXPERTISE IN CABLING ENGINEERING

Axon' Cable is a world leader in interconnect systems. The company excels in the design and manufacture of **wires, cables, harnesses, connectors** and **integrated systems** for demanding applications in high technology markets such as oil & gas, aeronautics, military, space, medical electronics, research centers, automotive and consumer electronics.

Axon' Cable's engineers are equipped with the latest simulation and co-design tools to assist customers at every stage of the development of a product: **idea, concept, prototypes, industrialization, volume ramp-up** and **mass production**. Axon' Cable will bring cost-effective solutions based on Lean Engineering and Lean Manufacturing principles. With an annual investment of 10% of its turnover into Research & Development, innovation is clearly what drives the Axon' Cable Group.



A GLOBAL PRESENCE



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