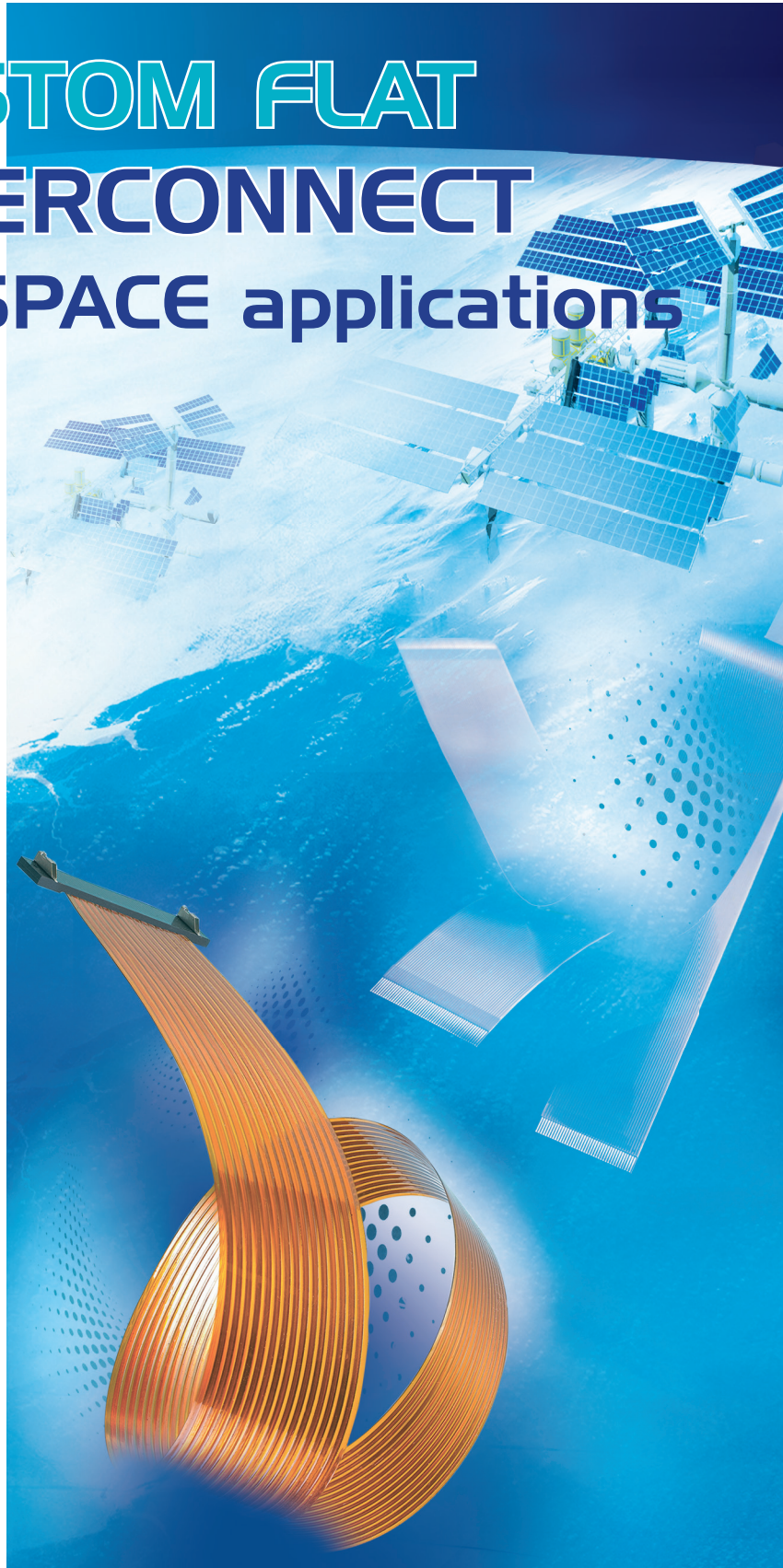




**CUSTOM FLAT
INTERCONNECT**
for **SPACE** applications



Custom Flat interconnect solutions

FOR SPACE APPLICATIONS

By combining multiple areas of expertise, Axon' Cable is able to study and develop flat interconnects for space applications. Axon's success for 50 years can be explained by its capacity to design and manufacture innovative links and electrical interconnects for severe environments. Axon' faces many technological challenges for various applications including automotive, avionics, defence, space, medical, industry, scientific research and oil exploration.

The range of products and services offered by the company is extensive: equipment wires, round or composite cables, flat flexible cables, cable assemblies, mini-systems, miniature connectors. The company's extensive production capabilities cater to both small and large volumes.



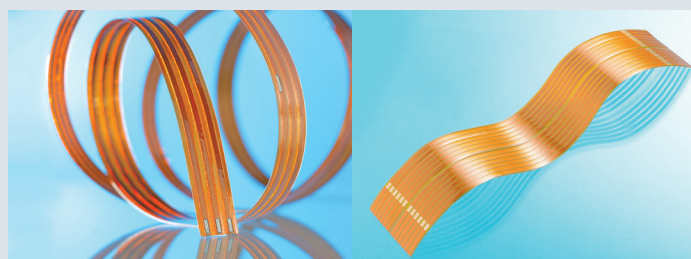
axon'
cables & connectors

FLIGHT HERITAGE

Involved in numerous space projects in orbit and beyond for over 20 years, Axon' Cable is particularly well versed with the space industry. Lightweight, small, reliable and resistant to radiation and high temperatures: these are just some of the challenges Axon' products are able to cope with. From the choice of material to the design, routing, manufacturing and qualification of products, Axon' can offer a complete service. The company is equipped with ISO7 and ISO8 clean rooms. Axon' offers an enviable range of high specification interconnect for space applications:

- Spacecraft cabling: ESA wires,
- Cable assemblies and harnesses,
- High data rate links,
- Databus harnesses,
- Bus bars for power distribution,
- Bespoke interconnect solutions.

A MULTI COMPETENCE EXPERTISE



Cables make the link

- High precision conductors: expertise in silver plating, tin plating, drawing and assembling.
- In-house plating production lines for conductors : silver, gold or nickel plating.
- A wide range of single-stranded or multi-stranded precision conductors made with bare copper, silver plated copper, tin plated copper, silver plated aluminium and special copper alloys.
- Manufacturing of flat or round conductors.
- High performance insulating materials (FEP, ETFE, PFA), PEEK, Polyimide, Polyester film.
- Radiation resistant materials.
- High temperature resistant jackets.

Miniature connectors

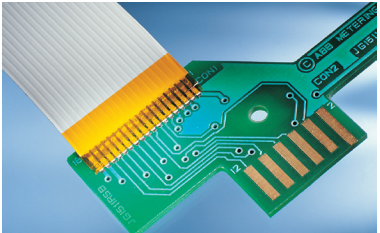
- Micro connectors (ESCC)
- Miniature connectors
- In-house connectors
- Axon' connectors

MINIATURISATION

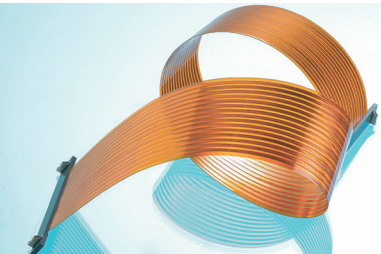
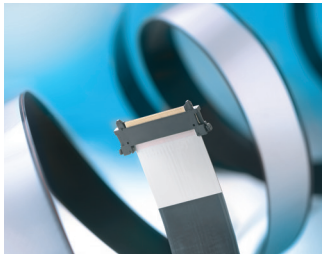
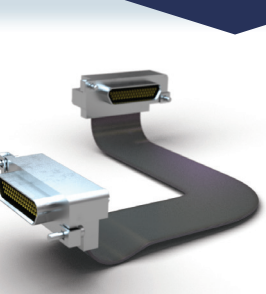
Axon' Cable has been manufacturing Flat Flexible Cables for 30 years for numerous application areas. These ranges from computers in the 1980s to present day technologies including infotainment in automotive and avionics, 3D printers, scanners, HD displays, switch rotary connectors, military electronics, household equipment, space electronics and many more.

From standard flat cables to custom designed assemblies, Axon' optimizes its expertise to meet your requirements, offering a complete range of flat cables and assemblies:

- Flat Flexible Cables : from 0.30 mm to 2.54 mm pitch,
- Flat cables with round pins,
- Bulk Flat Flexible Cables used for any application where space reduction and flexibility are paramount,
- Flat Display Connections for board to display interconnections,
- Hybrid flat cables.



FROM CONDUCTOR TO CABLES ASSEMBLIES



Miniature connectors weight and space saving

- Micro-D connectors for on-board electronics in space (ESCC3401/029 EPPL2 and other versions).
- Manufacture of Twist Pin contacts for Micro-D connectors.
- In-house plating production lines for connectors.
- Axon' innovative connectors for Flat Flexible Cables.

Cable assemblies: ready to plug interconnect

- Highly skilled operators.
- Expertise in wiring systems and cabling assemblies terminated with any kind of connectors.
- Expertise in overmoulding techniques.
- Accessories to facilitate shield grounding.

Co-engineering

With extensive experience in both flat cable and space requirements, Axon' can work with customers to develop custom flat interconnect solutions for specific applications including:

Solar Panel connection

Spacecraft cabling

Power distribution

Internal cabling

High data rate transmission

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