

Aerospace Interconnect Solutions



SOURIAU - SUNBANK
Connection Technologies

SOURIAU-SUNBANK in the Aerospace Market

SOURIAU entered the aeronautical market in the 1940's, with the invention of the bayonet coupling connectors.

Ever since, we provide interconnect products, and we are now recognised as a reliable and leading partner by airframers and related equipment manufacturers thanks to:

- Products qualified by the aviation standards
- Highly knowledgeable sales engineers
- Excellent quality and supply chain
- Worldwide locations, as well as a world wide distributor network

The environment is also a point of focus, and we propose solutions compliant to **REACH** and **RoHS** regulations.



Finally, the **SUNBANK** portfolio completes the **SOURIAU** offer, with backshells, conduits and other interconnect accessories.

SOURIAU-SUNBANK Values

**EXCELLENCE IN
SERVICE**

RELIABILITY

QUALIFIED



Composite Connectors
MIL-DTL-38999 compliant
2000 hours salt spray
1500 mating cycles



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Space & Weight Saving

Connectors designs to address space and weight constraints

Designed for applications where size is critical

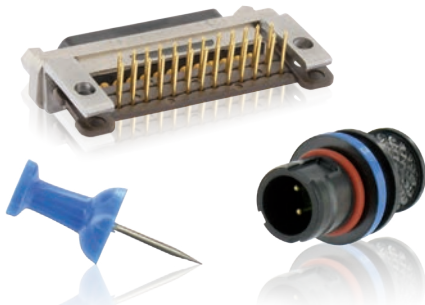
Provides flexibility according to your application

New connector designs to offer innovative lightweight solutions



High Density Layouts

Twice the contacts in the same shell size
#26 removable crimp contacts
Tested to 38999 MIL specification



Miniature Connectors

High vibration withstanding
Circular connectors shell sizes 3, 5 and 7
Rectangular version from 7 to 104 ways



Reinforced Locking Plug

Conductivity and EMI protection are guaranteed in the highest vibration levels



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Robustness

Harsh environment and vibration withstanding

SOURIAU encourages an “engineer to engineer” work process to better understand and meet our customer’s harshest needs:

- Superior strength in vibration, high temperature and corrosion performances
- EMI and lightning resistance



Stainless Steel Connectors

Screw coupling with self locking mechanism
MIL-DTL-38999 Series III, EN3645 and BACC63DB-DC qualified



Engine Connectors

Qualified per EN2997 and ESC standards
High vibration resistance, up to 260°C/fireproof
Integrated backshell version available



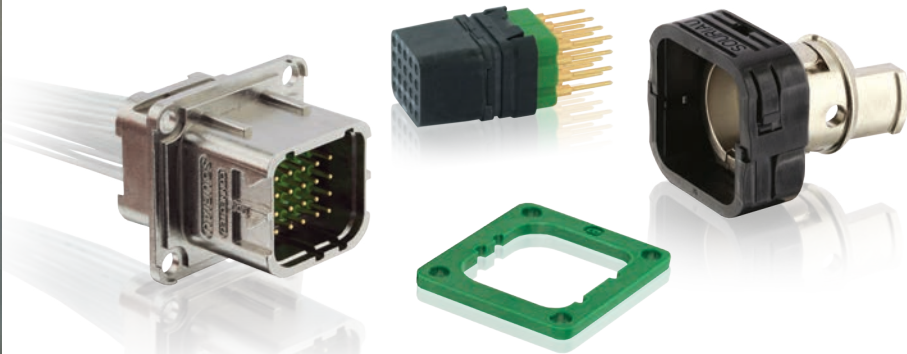
ARINC Rack & Panel
Up to 800 signal contacts
Up to 56 high speed and/or optical contacts
Blind mate, easy repairable

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Modularity

Build the connector that matches your exact requirements

Based on modular design and a wide range of contact technologies, SOURIAU is offering a high development capability for your specific needs. Get the opportunities to build custom to certified interconnection solutions.



Miniature Push-Pull Rectangular

MQuick modules and contacts fit your requirements for a flexible solution
Fast and secure latching system
EN4165, BACC65 and ARINC809 compliant



Coax Contacts

On board wireless network
High Frequency DC to 18Ghz
MIL-STD-348A/321 qualified



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High Speed Data Rate

Contacts for all networks

Today's technology for aeronautic equipment is more and more complex, requiring the management of an increasing flow of information at greater speeds:

- Electrical and fiber optic solutions for high speed networks
- A wide and flexible range available



Optical Connectors

2 worldwide standards: EN4531 and ARINC 801
Expanded beam solutions
Optical hermetics. Advanced harnessing

Quadrax Contacts

EN3155 qualified
Full duplex ethernet link
Up to Cat6



Feeder EN6047

Crimp contacts size 4/0
260A per contact at 120°C
ASNE compliant



© Ch. Ferreira

Power Transmission

High current and high voltage

Connectors with robust design and materials to meet the harshest requirements where high power and shielding are needed:

- Resistant to fluids, high shock and vibration
- Superior contact technology



Power and High Power Contacts

Contact #4 (80A) and #8 (45A)
All shell materials and platings
High power singleway version available up to 850A

230 Volts Connectors

EN3645 and EN2997 derived connectors
Avoid short circuit. ABS22-19, ABS22-20,
ABS22-21 and ABS22-22 qualified



Pressure Seal

Cable routing feedthrough
Low leak rate
No attenuation loss



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Bulkhead Feedthrough

Save time during design, final assembly and maintenance.

These products enable to cross bulkheads while conveying signal or power
Whether you are looking to increase the modularity of your system, maintain pressure boundaries or convey high electrical power, we have the right solutions



Double Ended Receptacle

For use with MIL-DTL-38999 Series III plugs
Pressure delta up to 1 bar. Leak rate $<10^{-6}$ atm.cm³/s
Male/female or male/male contacts



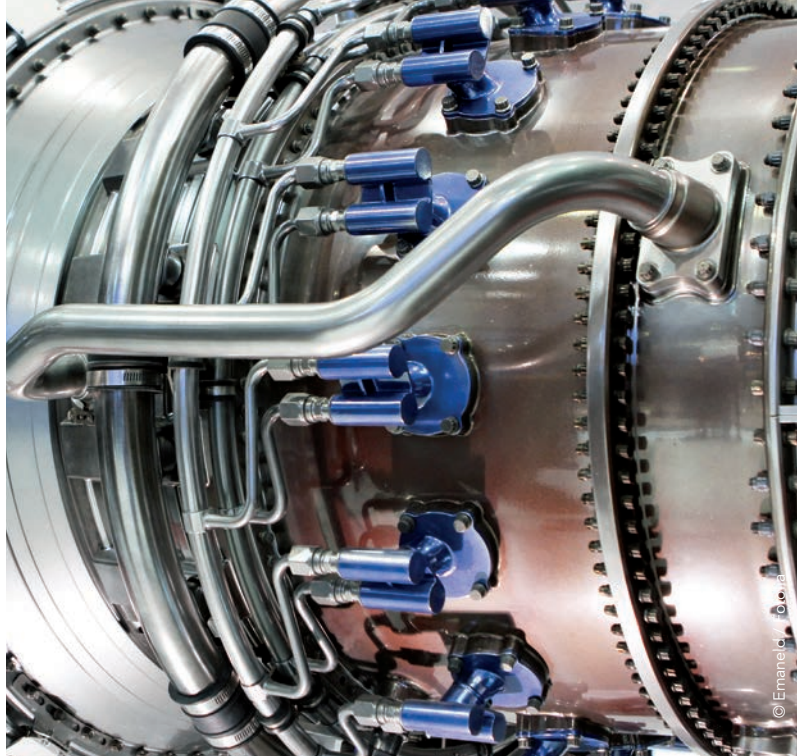
Fire Resistant Seal

Feedthrough to prevent fire propagation
High temperature, up to 350°C
Ceramic insulator



Alternative Sealing

- Full plastic hermetic
- Resin sealed flexible low weight hermetic



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Hermetic Solutions

High sealing in any extreme conditions

Hermetic connectors are used to maintain enclosure integrity in safety critical applications or harsh environments where the reliability and performance of electrical connectors and systems are mandatory:

- Higher sealing level over time than traditional environmental connectors
- Compact low profile and good performance in vibration (no loose part)



Standard Glass Sealed

MIL-DTL-38999, EN2997, EN3646 and MIL-DTL-26482 qualified
Leak rate $<10^{-7}$ atm.cm³/s. Temperature from -65°C to +260°C
30% more compact than traditional sealed connectors

Glass Sealed Extensions

Crimped removable contacts for fuel tank
Thermocouple contacts
Grounded contacts, shunted contacts



Conduits

Wire protection: mechanical and chemical
Metallic braided shielding
EMI/RFI protection



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Backshells & Accessories

Reliable interconnect solutions for all your needs

SUNBANK brand covers a large variety of interconnect solutions to vector and secure the cable routing. This includes connector backshells and protective caps, conduits, as well as many other accessories.



Backshells

Large termination types: strain relief, EMI/RFI shielding, ...
Various Standards: MIL-DTL-38999, M28840, AS85049, ...
Various materials and platings. Circular and rectangular

Accessories

Full protective caps offer
Shield termination band
Shield support ring



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Reliable People, Reliable Solutions

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