

# High Performance Connectors

To provide customer with customized solutions, SOURIAU have developed an expertise in the use of new technologies for extreme environment. The SOURIAU products from this catalogue have been developed in close cooperation and partnership with our customers. For that purpose, the specification of requirement remains the first important step. From this, we can choose the best technology available, be new or existing.

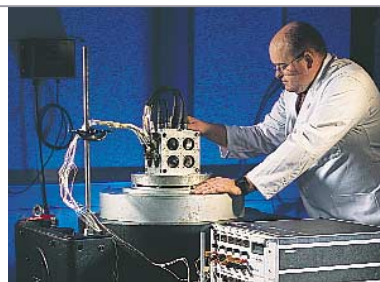


*Environmental vacuum test bench*

From the coldest to the warmest, in high voltage or high speed transmission fields, or why not in miniaturized version, our teams are ready for your challenge.



*Accurate force/displacement bench*



*40 kN electrodynamic shaker*



Extreme Temperature



High Voltage



High Transmission



Rack and Panel



Pyrotechnic



Miniaturized



Hermetic

Considers SOURIAU...

# High Performance Connectors



## High Voltage

### Connectors



JHV-HTN

- This connectors feature high voltage performances and extreme robustness coupling



SN 2509 K

- Miniature connectors with bayonet coupling for high voltage cables (3kV)



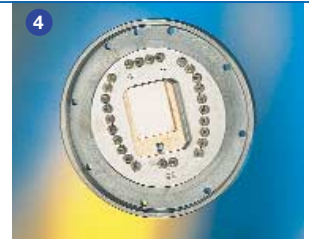
SN 1339 K

- Miniature connectors with bayonet coupling for high voltage cables (3kV)



## Hermetic

### Connectors



SN 2245

- Feed through hermetic connector



SN 1740

- Mini phi hermetic connector feed through



## Rack and Panel

### Connectors



SN 253/353

- Rack & panel floating connector compensating for misalignment of  $\pm 1$  mm



SN 1807

- Blind mating rack and panel connector



SN 1458

- Blind mating low cost rack and panel connectors



SN 2428

- Miniaturized



SN 2550-23

- Rack and panel power connectors

# High Performance Connectors



## Pyrotechnic Connectors



■ This hermetic feed through features a triaxial contact used as a pyrotechnic connector. Its glass to metal seal can withstand pyrotechnic shocks with pressure up to 1000 bar



SN 1803

■ Using the most advanced technologies and materials



SN 236

■ Fire protective feed through with ceramic insulator



SN 634

■ Packing gland fire protective feed through with thermo set and elastomer insulator



8972

■ This hermetic feed through withstands high thermal shocks from 20° C to -269° C



## High Performance Data Transmission Connectors



SN 1767 K  
SN 2297 K

■ Single way connectors with triaxial interface according to MIL-STD 1553 B



SN 1922

■ Elbow hermetic feed through 11 GHz



SN 2076

■ Hermetic feed through 18 GHz with



## Miniaturized Connectors



SN 855

■ Nuclear hardened miniature screw coupling connectors



■ Highly miniaturized Quick disconnect components with safe locking



**SOURIAU**  
Connection Technology



8 spindle automatic lathe



Automatic tool setting bench



11 spindle automatic lathe










Altitude dielectric withstanding test bench

# Compliance Table

## Performances

### SOURIAU Connectors

Description	Features	Applications	SOURIAU high performance connectors type
 Rack and Panel	till 6° of freedom	Umbilicals, missiles	SN 1807 – SN 253/353 SN 1458 – SN 2550 SN 2428
 Hermetic	Pressure, temperature, vacuum, high frequency	Missiles, radars, satellites, launchers	SN 2245 – SN 1740
 Pyrotechnic	Shocks and pressure	Offshore, sensors, military weapons system	See our product data sheet
 Miniaturized	Low volume	Drones, missiles, launchers, military weapons system	SN 855 and see our product data sheet
 Extreme Temperature	More than 900°C (cycle)	Engines, helicopters, submarines	SN 634 – SN 236
	More than 250°C (continuous)	Jet engines, offshore	SN 1803
	Till -269°C (cycle)	Cryogenic tanks, Satellites	8972
 High Voltage	From 3 kV to 50 kV	Lasers, radars	JHV/HTN-SN1339 – SN 2509
 High performance Data Transmission	From 10 GHz to 20 GHz	Radars	SN 1922 – SN 2076
	MIL-STD-1553/1760	Missiles, military weapons system, launchers	SN 1767 – SN 2297