

Innovation by SOURIAU Aerospace Market



The Most Innovative Connector Supplier in the Aerospace Market



Decades of Know-how and Expertise have allowed SOURIAU to become a Preferred Partner to Worldwide Air Framers and Major Equipment Manufacturers in the Aerospace Industry.





Lightweight Hermetic

- Hermetic aluminum circular connectors with copper or fiber optic contacts.
- D-Sub, Micro-D, Nano-D and microComp[®] connectors in aluminum shell, laser weldable housing on equipment box.







Filtering/Lightning Protection

- Unique know-how in filtering (EMI-RFI and ESD), in lightning and electromagnetic pulse (EMP) protection.
- High performance composite lightweight filtered connectors.
- All major MIL-STD ranges (ARINC, 38999...) available with filtering and lightning protection.







Miniaturization/High-Density

- World's smallest circular connectors (38999 type) with crimp contacts.
- The first Micro-D range in composite with gauge 26 removable contacts. Lightweight and high reliability solutions for replacing metal Micro-D or D-Sub.









High Speed Network

- Creator of Ethernet Quadrax for harsh environments. A patented SOURIAU design widely used in aerospace industry.
- ELIO[®] Fiber Optic butt-joint technology. Leading technology in aerospace industry. The «most-flown» fiber optic contacts in commercial aviation.







Power Transmission

- Full range of power connectors for «All-Electric Aircraft»: electro-hydraulic actuators, power supplies, generators, motors....
- Power contact design enabling high-vibration, high-temperature from 40 to 1,000 Amp.









Composite/Weight Saving

- World leader in high-performance 38999 Series
 III with composite shells.
- In-house mastery of plating adhesion for outstanding shielding effectiveness and lightning protection.
- Proven and qualified by all major Airframers (Boeing, Airbus...).





Quick Connect/Disconnect

- 38999 blind mate series for rack and panel.
- 38999 push-pull or quick release with a lanyard.
- Next generation of MIL-STD-1760, field repairable, improved design for high vibration +20° angle of separation.



Micro-Packaging Housing

- Fully laser-weldable and lightweight with aluminum / titanium / kovar.
- Thermal management fully integrated with heat-sink elements.





Firewall/High-Temperature

- Fire resistant feedthrough up to 1,000°C.
- Power or signal cable bulkhead with ceramic insert.







Robotics & Deep Space Activity

- Pioneer of connection / disconnection in space environment.
- Supplier of remote handling interconnects for Space Station robotic arms.
 Mission proven umbilicals in the most prestigious planet exploration programs: Mars, Titan and Mercury.







Complex Interconnect Solution

- Pioneer of umbilical connectors for launch vehicles throughout the world.
- Complex interconnect integrating electric, air cooling, fluids, in a single system.









RoHS Solution

- The first cadmium free QPL supplier.
- SOURIAU's superior black zinc nickel plating process proven in mass production.
- Available in all SOURIAU connector ranges.









Airframe

ARINC Series
Bus Bar
Bulkhead Connectors
Composite MIL-DTL 38999 Series III
D-Subminiature Connectors
EN 3646
Fiber Optic ARINC 801 ELIO[®]
Filter & Lightning Protection
Grounding Modules
MIL-DTL-38999 Series I, II, III
Modular Interconnect Solutions
PCB Terminal Blocks
Pressure Seal Connectors
Power Distribution Systems
RoHS Connectors

Terminal Junction Modules

Power & Actuation

Backshells EN 2997 Feeder Filter & Lightning Protection High Vibration 38999 Series III Hermetics Firewall Lightweight Hermetics MIL-C-26482 Series 1, 2 MIL-C-83723 Series MIL-DTL-38999 Series I, II, III Power Connectors

Aircraft Cabin & IFE

ARINC Series
Blind Mate
Composite MIL-DTL 38999 Series III
Data Bus Interconnects & Couplers
D-Subminiature Connectors
Fiber Optic ARINC 801 ELIO®
High Speed Ethernet Quadrax
Lighting Connectors
Micro D Connectors, microComp®
Modular Interconnect Solutions
Push Pull Connectors
Terminal Blocks
Terminal Junction Modules

Radar & Detection

Fiber Channel Data Bus Filter & Lightning Protection Lightweight Hermetics Micro Packaging Boxes NAFI Connectors

Avionics & Flight Management

ARINC Series Blind Mate Data Bus Interconnects & Couplers **D-Subminiature Connectors** Fiber Channel Data Bus Fiber Optic ARINC 801 ELIO® Filter & Lightning Protection **Grounding Modules** High-Density Rectangular Connectors **High-Speed Ethernet Quadrax** Lightweight Hermetics Micro D Connectors, $\textit{micro} \mathsf{Comp}^{\mathbb{R}}$ Modular Interconnect Solutions NAFI Connectors **RF Connectors** Rugged RJ45, USB **Terminal Junction Modules**

Engines & Controls

Backshells
EN 2997
ESC 10, 11, 15, 16
FADEC Shorting Plugs
Feeder (Power)
Filter & Lightning Protection
Firewall Feedthrough
Hermetic Connectors
High-Speed Ethernet Quadrax
High Vibration 38999 Series III
Lightweight Hermetics
MIL-C-83723 Series
MIL-DTL-38999 Series I, II, III
Power Connectors



Advanced Interconnect Technologies for Military Aerospace



Blind Mate
Composite MIL-DTL- 38999 Series III
Data Bus Interconnect 1553B
D-Subminiature Connectors
Fiber Channel Data Bus
High-Speed Ethernet Quadrax
Micro D Connectors, microComp
MIL-STD-1760
Push-Pull Connectors
Quick Connect Disconnect
RoHS Connectors
Umbilical Connectors

Radar & Detection

Fiber Channel Data Bus
Filter & Lightning Protection
Lightweight Hermetics
Micro D Connectors, microComp®
Micro Packaging Boxes
NAFI Connectors

Power & Actuation

Backshells EN 2997 High Vibration 38999 Series III Feeder (Power) Filter & Lightning Protection Hermetics Firewall Lightweight Hermetics MIL-C-26482 Series 1, 2 MIL-C-83723 Series MIL-DTL-38999 Series I, II, III Power Connectors



Airframe

ARINC Series Bus Bar **Bulkhead Connectors** Composite MIL-DTL 38999 Series III **D-Subminiature Connectors** EN 3646 Fiber Optic ARINC 801 ELIO® Filter & Lightning Protection **Grounding Modules** MIL-DTL-38999 Series I, II, III Modular Interconnect Solutions **PCB Terminal Blocks** Pressure Seal Connectors Power Distribution Systems **RoHS Connectors Terminal Junction Modules**

Avionics & Flight Management

ARINC Series Blind Mate Data Bus Interconnects & Couplers **D-Subminiature Connectors** Fiber Channel Data Bus Fiber Optic ARINC 801 ELIO® Filter & Lightning Protection **Grounding Modules** High-Density Rectangular Connectors High-Speed Ethernet Quadrax Lightweight Hermetics Micro D Connectors, *micro*Comp[®] Modular Interconnect Solutions **NAFI Connectors RF Connectors** Rugged RJ45, USB **Terminal Junction Modules**





Engines & Controls

Backshells
EN 2997
ESC 10, 11, 15, 16
FADEC Shorting Plugs
Feeder (Power)
Filter & Lightning Protection
Firewall Feedthrough
Hermetic Connectors
High-Speed Ethernet Quadrax
High Vibration 38999 Series III
Lightweight Hermetics
MIL-C-83723 Series
MIL-DTL-38999 Series I, II, III
Power Connectors



Advanced Interconnect Technologies for Space

- ► Launcher
- ➤ Satellite

- Space Station
- Planet Exploration









✓ Circular Space Grade



✓ Remote Handling





✓ Air Cooling







✓ Rectangular Space Grade





Advanced Interconnect Technologies for Airframe



Advanced Interconnect Technologies for Avionics & Flight Management

- ➤ Navigation
- Communications

- Computers
- ► Electronic Boxes
- ✓ Ethernet Quadrax



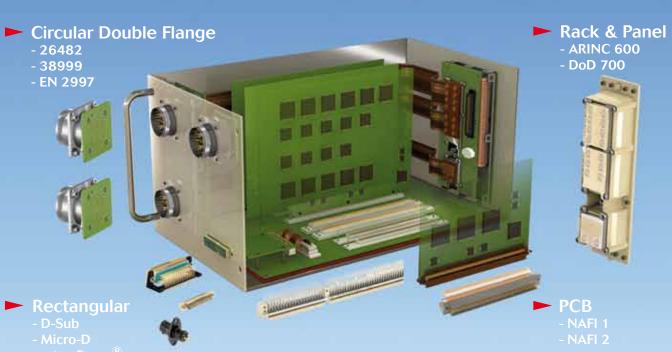


Box Interconnect Solutions Inside/Outside

- ► Input/Output Front Panel
- ➤ PCB & Board Level Connectors
- ➤ Rack & Panel Connectors
- ➤ Blindmate Connectors







- *micr*oComp^ա
- Nano-D
- Microminiature 38999

✓ PCB Contact Terminations



90° Contact



Straight Signal



Surface Mount



Tin Plated



Power



Ethernet Quadrax



Advanced Interconnect Technologies for Engines & Controls

- ► FADEC
- Control Units

- Detection
- ► Ignition Boxes
- ✓ Engine Connectors







8535 - 8536 Series

✓ Hermetics



✓ Power Supply





✓ Filter/Lightning

✓ Titanium/Stainless Steel



✓ Ethernet Quadrax



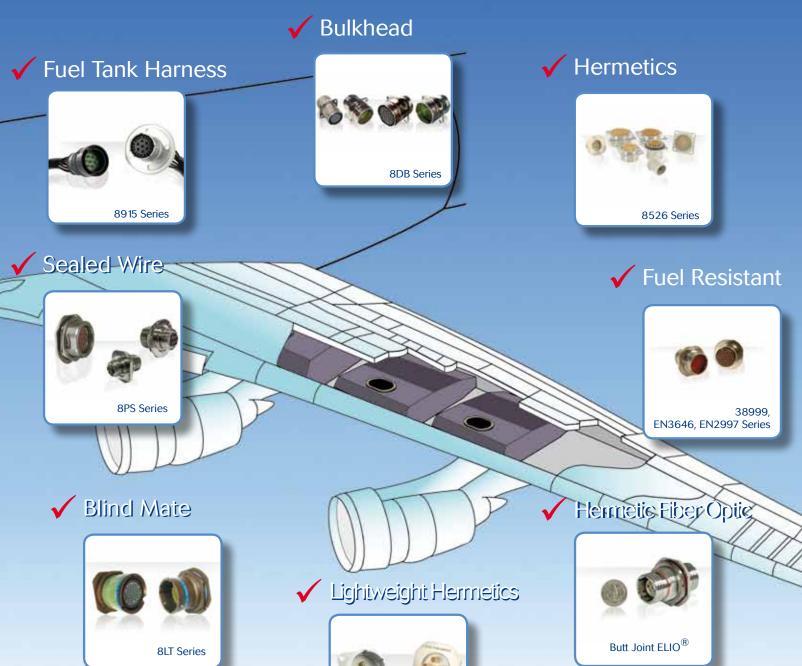




Advanced Interconnect Technologies for Fuel Management

- ➤ Fuel Tank & Circulation
- ► Refueling System

- ➤ Pump & Valve
- ► Gages & Sensors



Power Circular



Advanced Interconnect Technologies for Power & Actuation

- ➤ Servo Valves
- ➤ Electro-Hydraulic Actuators
- ► Landing Gear
- ► Flight Control Surface









✓ Servovalve Connector







Power Supply





√ Filter/Lightning



Ethernet Quadrax



√ Titanium/Stainless Steel



✓ Rack & Panel





Advanced Interconnect Technologies for Aircraft Cabin/IFE

- ► Galley
- ► IFE Network

- ➤ Seat Interconnect
- Lighting
- ✓ Rack & Panel
- ✓ Power Supply





√ Fiber Optic



✓ Ethernet Quadrax



✓ D-Subminiature



✓ Miniature Rectangular





Advanced Interconnect Technologies for Radar & Detection

- ► Active Radars
- ▶ Digital Detection

- ► Electronic Boxes
- ► Electromagnetic Seekers
- ✓ Thermal Management







✓ Hermetics



✓ Lightweight



✓ Miniaturization



✓ Filter/Lightning



✓ Fiber Channel Data Bus





Advanced Interconnect Technologies for Weapon Systems

- ➤ Mission/Stores Interface
- ➤ Infrared Seekers

- ➤ Aircraft/Stores Interface
- ► Microelectronics Hermetic Packaging





The SOURIAU R&D Leading Edge

From its origin SOURIAU's strategy is based on innovative interconnect solutions. The company growth is driven by innovation and consequently a high percentage of its revenues is allocated to R&D.

150 people in R&D, mastering capabilities in:

- Contacts for Signal & Power transmission
- Network protocols and physical layers
- Fiber Optic contacts and transceivers
- Shielding, crosstalk
- Standardization know how (Mil Spec.)
- Composite raw materials

- Simulation SW for Mechanics, Molding
- Radiation, High pressure
- Corrosion, sealing
- Hermeticity
- High temperature, fire resistant
- RoHS plating

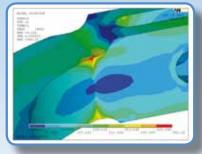
50 people in Process Engineering:

New products, industrialization, continuous improvements, total quality

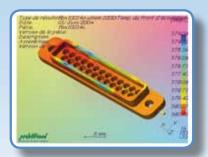
CAD and simulation tools operating in a worldwide network offer an efficient access to our Databases and unique source of know-how.

SOURIAU has over 60 years of existence in interconnect solutions and has created many original concepts such as the bayonet coupling in 1942 or the first RoHS-QPL in 2009.

SOURIAU offers more than 100.000 product configurations designed for complex, integrated aerospace and defense systems, with the ability to provide customized solutions as required.



Stress test



Thermal dissipation

Examples of enhanced solutions matching technological trends:



Truly hermetic receptacle with butt joint ELIO® contacts in aluminum shell



Filtered ARINC with removable contacts



Integrated electronics as TVS diodes in composite connectors for lightning protection



Global Supplier of International Standards

70 years of active participation in creating norms in international committees



SOURIAU offers the complete catalog of major international ranges (table of equivalence)

CIRCULAR	SOURIAU Series	Mil-Spec	EN	BACC	Others VG, HE, CECC, JN, JSF, ESC
	851	MIL-C-26482 G Series 1	_	_	VG 95328, HE 301B
	8525	OPL CALLED —	EN 3646	-	HE 302
	8526	MIL-C-26482 Series 2	_	-	CECC75 201001, HE 312
	8LT	MIL-DTL-38999 Series I	_	_	HE 308
	8ST	OPL ocume	EN 3372	_	VG 96912, JN 1003
	8T	MIL-DTL-38999 Series II	_	_	VG 96912, HE 309
	8D Aluminum	MIL-DTL-38999 Series III Class: F, W	EN 3645	_	JN 1034
	8D Composite	MIL-DTL-38999 Series III Class: J, M, X	EN 3645	BACC 63CT-CU	JSF C51
	8D Stainless Steel	MIL-DTL-38999 Series III Class: K, S	EN 3645	BACC 63DB-DC	-
	8D Titanium	_	_	_	JSF C114, JSF C116
	8D Hermetic	MIL-DTL-38999 Series III Class: Y	EN 3645	_	-
	8D Bronze (JVS)	_	_	_	CECC 75.201.00
	8533 Series	_	EN 2997	BACC 63CM-CN	ESC 10, JN 1024
	8534-8535-8536 Series	_	_	_	ESC 11, ESC 15, ESC 16
RECTANGULAR	8630-8635 Series	MIL-DTL-24308	_	_	-
	ARINC 600 Series	ARINC	_	_	-
	S700 Series	MIL-C-83527	EN 3682	_	_
REC	8602 NAFI	MIL-C-28754	_	-	_



Thermal Dissipation





Hermetic Micro-Packaging with Heat Sinks

Hermetic micro-packages with embedded heat sinks provide excellent thermal dissipation properties to enhance the reliability of the electronics even in extreme mechanical and thermal environments.

Truly hermetic



Leak rate $\leq 10^{-9}$ atm.cm $^{-3}$.s $^{-1}$

Enhanced reliability



Dissipate heat through hermetically brazed heat sinks

Wide array of combinations available



Titanium + CuMo, Titanium + CuW, Kovar+Cuw

Laser weldable connectors



No solder joint fatigue for an enhanced reliability Easy maintenance

Versatility of I/O connectors



All type of hermetic feedthroughs: signal, power, RF, D-Sub, Micro-D, Nano-D.



38999 Series III Hermetic Fiber Optic ELIO[®] Feedthrough





The First Truly Hermetic Aluminum 38999 Butt Joint ELIO® Feedthrough

Hermetic aluminum 38999 butt joint feedthrough with a leak rate less than 10⁻⁹ atm.cm³/s. A dB loss of 0.3 dB: very superior performance compared to lens beam design.

Truly hermetic



Leak rate < 10⁻⁹ atm.cm³/s

Weight saving



Aluminum shell Save 30 to 40 % of weight vs. Stainless Steel Revolution to save weight!

Single and Multi Mode



Unique multiway hermetic fiber optic feedhrough in the world

Intermateable with SOURIAU's butt joint ELIO® connectors



Airbus A380 spec ABS1379 qualified Intermateable with ARINC 801 and EN4531 standards







The Only Laser Weldable Hermetic Micro-D with Copper Contacts

Ultra rugged, compact lightweight hermetic micro-Ds with copper alloy contacts with a leak rate less than 10⁻⁹ atm.cm³/s. These connectors are capable of performing at extreme temperature and are built to exceed the requirement of MIL-PRF-83513.

Truly hermetic Leak rate < 10⁻⁹ atm.cm³/s

Weight saving

Aluminum shell

Save 30 to 50 % of weight vs. Stainless Steel

Titanium shells also available

Laser weldable No solder joint fatigue for an enhanced reliability

Outstanding conductivity

Built with copper alloy contacts
Conductivity 5 times better than regular Fe/Ni
contacts



MIL-DTL-38999, EN3646, EN2997 Fuel Tank Connectors





Hermetic Fuel Tank Connector with Removeable Contacts

Removeable crimp contacts associated with hermetic design and with materials suitable for continuous fuel immersion makes the connector ideal for tank wall applications.

High hermeticity performance

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Glass to metal sealing: leakage of less than 10⁻⁹ atm. cm³/s



Removeable crimp contacts



A technology combining crimp contacts with glass beads

RoHS: no lead used

Long lifetime: superior to solder cup contacts in

kerosene immersion

Easy MRO: contact replacement.

Long term fuel immersion materials



Performances guaranteed for minimum 90.000 hours in fuel immersion.

Wide availability:



EN3646 (Airbus Qualified Products) EN2997, EN3645, MIL-DTL-38999.



38999 Series III Bulkhead 8DB



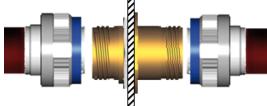


Economic Solution for Panel Bulkhead

Easy integration



Standard 38999 mounting interface (Square Flange, Jam Nut).



Easy modular assembly and connection. Time saving for maintenance. The ideal interconnect solution for aircraft pressurized/non pressurized panels.





Feedthrough sealing even when unmated $(10^{-6} \text{ atm.cm}^3.\text{s}^{-1})$.

Permanent sealing barrier on panel (O rings).

Reinforced sealing



Glass fused hermetic version available (<10⁻⁸ atm.cm³.s⁻¹) for fuel tanks/ space systems.

A large platform available



All 38999 Series III layouts (signal and power contacts).



38999 Series Resin Sealed





Cost Effective Sealing Solution

The best value for money.

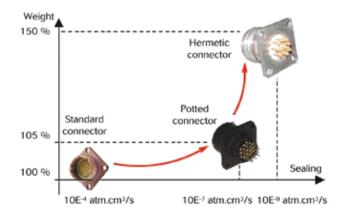
Weight saving



Lightweight compared with hermetic versions.

Reinforced sealing





Excellent shock resistance



Better than hermetic glass seals.

Socket contact



Sealing with female contacts available.





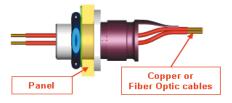


Economic & Superior Sealed Wire Feedthrough

Easy installation



Allows a bundle of cables to cross through the bulkhead without any contact junction. All cables are individually sealed inside the feedthrough



A full range available



38999 shell sizes from # 9 to 25



Reinforced sealing



Gas environment: from 10^{-4} to 10^{-6} atm.cm³/s depending on cable diameter.

Liquid environment: $<< 10^{-6}$ atm.cm³/s depending on cable diameter.







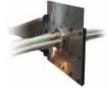
Cable Routing Fire Resistant Feedthrough

Safety cable routing thanks to a fire stop design.

Ceramic insulator



Fire resistant: 1000°C during 20 min. under vibrations



Front of the fireseal during test



Rear of the fireseal after test

Space saving



Compared to standard bulkhead connectors

Airbus ABS 0681



Proven design with floating nuts for blind mating (ABS 1536)





8535 - 8536 Integrated Backshell Connector





Integrated Backshell Fire Proof Connector

Stainless steel screw coupling connector designed for use in aviation harsh environments. Perfect for engines and landing gear.

Harsh environment connector



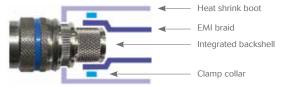
High vibration resistance. High temperature resistance (260° C). Fire proof (1100° C).

Integrated backshell



Compact and light weight.

Direct connection of the EMI braid and heat shrink boot on connector:



Blind mate connection possibility (8536 Series / ESC16 Series).

Fully interchangeable and intermateable



8535 Series with BACC 63 CM-CN, EN2997, MIL-C-83723 Series III & ESC10 connectors. 8536 Series with ESC11 connectors.







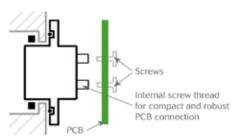
Firewall Connector for Power Supply Adapted to PCB Solutions

Power contacts are attached directly to the board with screws for an optimized connection. Available in size 6 contacts (Ø 4.6mm) and size 4 contacts (Ø 5.74mm).

Safe & Quick



Avoid soldering of contacts: no heat applied - no risk of damaging the connector; quicker fit in the equipment.



Robust



True mechanical link between PCB and contacts.

Compact



Tapped contacts for direct and low profile connections.



38999 Series Power Contacts





Power Supply in Harsh Environments

Designed to be used in severe environments, and resistant to fluids, high shock and vibration.

A wide range

/

From composite to steel, all shell materials and platings. Hermetic version available.

Contact performance



High current: 20% more intensity compared to standard contacts. Operating at high vibration and temperature levels.

User friendly



Easy maintenance with removeable contacts.

High power offer



High power available up to 600 AMP.

A wide range available



In all circular (38999, EN2997) and rectangular (ARINC ...) ranges with #8 cavities. Same cavity for power, coax, triax and ELIO® fiber optic.



38999 Series III High Power Contacts





38999 High Power (up to 600 A)

Designed to meet the harshest military requirements where high power and shielding are requested.

Superior contact technology

/

Proven contacts design with a silver plated braid. High contact endurance; low contact resistance. No microcut under vibration.

Modular design for easy installation



Removable backshell: straight, right angle or bar bus. Backshell termination: for thread or shrink boot. Possible to crimp various cables (Ø from 50 to 240 mm).

Smart safety equipment



Pin contact is equipped with a plastic cap to avoid electrical shocks.

Recessed engagement point to avoid any electric arc during mating/unmating.

Shell sizes available



Size 19 (250A); size 23 (400A); size 25 (600A).







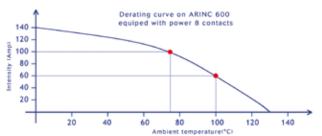
Up to 100 Amp. per Contact in Standard ARINC

Designed to bring high power transmission into standard rack & panel rectangular connectors.

Up to 100 Amp.



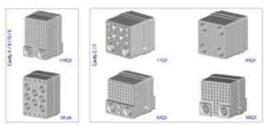
At 100 Amp., the allowed maximum ambient temperature is 75° C



A wide range available



In both ARINC 600 and 700, all planforms with #8 cavities





38999 Series Ethernet Quadrax Contacts





Quadrax for Full Duplex Ethernet Link

Quadrax contacts with robust MIL-DTL-38999 compliant screw coupling system for networks and high vibration environments.

High speed



One Quadrax contact replaces two Twinax contacts. Data rate up to 1 Gbit/sec.



A wide range available



In all circular (38999, EN 2997...) and rectangular (ARINC...) ranges with #8 cavities. Same cavity for power, coax, triax and ELIO® fiber optic.

A flexible range



Available in 100 and 150 ohms (grounded or not).



38999 Series ELIO[®] Fiber Optic Contacts





ELIO® Fiber Optic Contact

Easy mounting optical link for severe applications.

Flight proven

/

The only Airbus qualified fiber optic technology: ABS 1379, ABS 1213. ARINC 801 and EN4531 qualified.

Robust connection



Withstanding the most severe vibrations with excellent optical performance (0.3 dB).

User friendly contact



Easy cleaning: no part to remove. No tool needed for insertion / extraction of the contacts in the connector.

A wide range available



In all planforms with # 8 cavities. Up to 24 ELIO® contacts in 38999 size 25.







Ethernet Connectors for Harsh Environments

Rugged RJ45 / USB-A / USB-B solutions.

RJ45 / USB connectors



A & B types, connectors available on MIL-C-26482 Series I, MIL-DTL-38999 Series III.

IP 67 sealing



In mated conditions.

USB data transmission



USB - A & B types - according to the «Bus» specification, Rev 2.0.

RJ45 data transmission

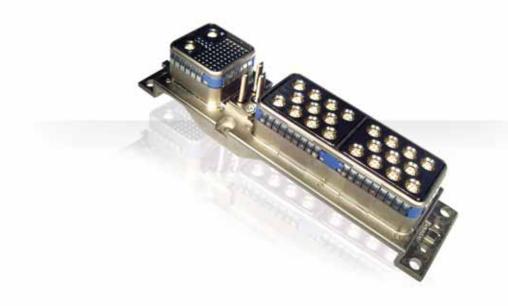


RJ45 - 10 BaseT, 100 BaseTX and 1000 BaseT networks, CAT 5E per TAI/EIA 568B and ClassD per ISO/IEC 11801.

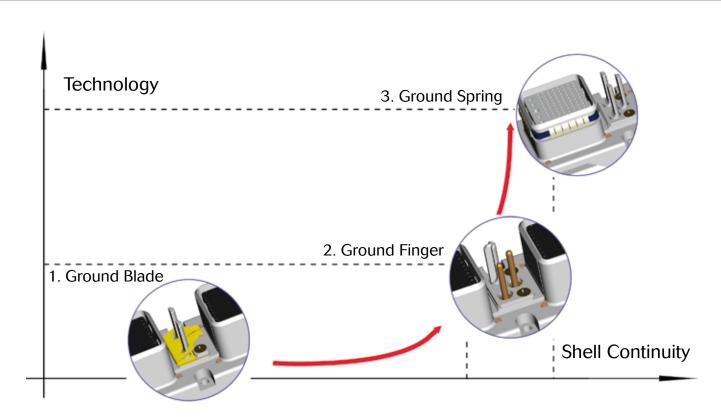


ARINC 600 Shielded





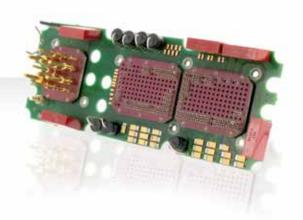
Shell to Shell Solutions for Shielding Effectiveness











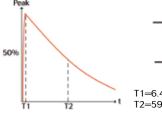
Lightning Protection - Re-movable Contacts

The signal integrity solution: EMI-RFI/Transient Protection/Noise Free Data signal.

Protection from indirect effect of lightning or NEMP

/

Integration of extra signal processing components as TVS diodes or Transorb DO160 section 22, MIL-C-461E.



Output voltage

Transorb

Over voltage

T1=6.4 microseconds ± 20%

Custom shell design



To house electronic components.

Re-moveable contacts



In case of damage to reduce maintenance costs.

Intermateable with standard plugs



Available in ARINC and DoD (MIL-C-83527) ranges.



Filtered Engine Connector with TVS Diodes





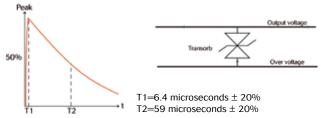
Lightning Protection - Rigid PCB Mount

The signal integrity solution: EMI-RFI/Transient Protection/Noise Free Data signal.

Protection from indirect effect of lightning or NEMP



Integration of extra signal processing components as TVS diodes or Transorb DO160 section 22, MIL-C-461E.



Safe PCB mount



Double flange receptacle design to secure PCB mount.

Custom shell design



To house electronic solutions with PCB design.

Intermateable with standard plugs



Available in all EN 2997 range«Engine Connectors».



38999 Series III Filter Connector 8TFD





EMI-RFI Filters and Lightning Protection in Composite Shell

Save weight



Composite shells are light-weight.

Save space



Complete filter solution in standard shell. No need for filter PCBs inside equipment. Smaller equipment envelope required.

Excellent filter performance



Excellent performance, comparable to aluminum shell EMI-RFI filter connectors.

Highly corrosion resistant



2000 hours salt spray in either Nickel or Olive-Drab finish.

Wide range of layouts available



SOURIAU EMI-RFI Filter 38999 Series III connectors are available in aluminum, marine bronze, and stainless steel shells.







Sealed Rack & Panel for Blind Connection

A quick connection in hard-to-reach areas.

Blind connection



Easy & fast connection without any coupling/ uncoupling between a float-mounting unit & a fixed unit.

Float-mounting unit: Rack

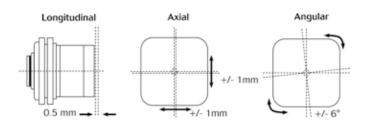


Female contacts - crimp Angular orientation with a key



Misalignment catching







38999 Series III Push-Pull Connector 8D8







Push-Pull with High Vibration Performance

Easy to connect-disconnect





Ideal for restricted space mating

High performance locking system



Very high performance coupling with ball locking concept, check of locking by free ring when mated.

High vibration performance



Up to 44g — ideal for mil-aero and space applications.



38999 Series Lanyard Release 8D9





High Performance 38999 Quick Release

Easy to connect & disconnect



Simple push to connect - pull to disconnect.



Safe release



With \pm 10° range angle of separation.

Mechanical locking confirmation



When the connector is mated the coupling ring rotates providing confirmation of a secure connection.

High performance locking system



With ball locking device, no risk of jamming or damage of the locking mechanism.

High vibration performance



Up to 44g - ideal for missiles, inter-stage separation, space probes, UAVs.





Field Repairable / MIL-STD-1760 Umbilical

Self-alignment / blind connector mating / safe operational solution to weapon releases.

Safe quick disconnect at high speed



Robust unlocking system : 9.15m/s \pm 10%.



Field repairable



Damaged coupling mechanism can be removed and fully replaced without need to disassemble the electric harness or cable backshell.



High vibration performances



Random: 44 G RMS, Sine: 60G with angular separation up to 20° (maximum)



8BA Series Miniature Connectors





Miniature Connector with Break Away Release

Connector ideally designed for quick disconnecting under harsh environment.

Excellent properties

Proven design ensures a perfect shielding and is vibration resistant (30g at 125°C).

Design flexibility

/

3 different sizes and 6 different layouts available with #22 and #26 contacts (up to 9#26 in shell 6).

Robustness

/

Stainless Steel shell available (1500 matings) together with aluminum.

Cadmium free alternative



Zinc nickel plating available together with Nickel and Cadmium.

Integrated backshell



Cost and space saving (PCB backshell available).



38999 Series Bayonet Connector 8LTA





The Smallest 38999 with Bayonet Coupling

Design derived from the MIL-DTL-38999, the 8LTA is ideal where both space saving and high density are required.

A compact solution



The smallest connector available on the market (shell size 03) with integrated backshell.



A high density solution



Up to 5 contacts in 38999 size 03. 9 contacts in size 07.

Cadmium free



IP67 on mated connector, Available in Zinc Nickel.









Composite micro Ds with Crimp Contacts

Composite rectangular shells & inserts



60% lighter than a high density D-Sub



Miniature design



40% smaller than a high density D-Sub

Removable # 26 contacts



Ensure repairability unlike current micro D offerings. Increased prototyping flexibility in harness manufacturing

High vibration performance



Vibration performance exceeds micro D 8 hours 44g random vibration

A full product range available



9 layouts, from 7 to 104 contacts



8525/EN3646 Range & Extension





8525 / EN3646 Range & Extension

Hermetic version Hermeticity: 1.10⁻⁷ ATM cm³/s



Stainless steel



Passivated

Shunted version



Standard shell EN3646





available: 16-26; 14-19; 10-06

PC Tail version



Standard





Potted version Hermeticity: 1.10⁻⁷Atm cm³/s

Fuel tank version Immersion in kerosene (JP5)



Spec: 053





Spec: 022

Ethernet version



Qualified ABS1054, ABS1057







38999 Series III Composite 8D





38999 Series III Composite Connector

The only connector combining weight saving, high corrosion resistance and RoHS.

Qualified by major Airframers



Excellent lightning strike performances thanks to high shielding effectiveness.

In-house plating



Fully automated process with large volume capacity guaranties best in class quality.

Robust connector



Suitable for applications with high vibration. High corrosion resistance: 2000 hours salt spray withstanding.



SN1252/SN1862/SN1083/SN201F Fixing Plates





Easy Mount Re-usable Fixing Plates

«Cost saving solution.»

User friendly



1 fixing plate replaces 8 fixing elements (nuts+washers). Front or rear mounting on panel. Special «open» shape for connector mounting with harness.



Safe mounting



Fixing plates with self locking nuts.

Easy maintainance



No risk of loosing elements (Foreign Object Detection).

A complete offer



3 different versions: 2,3 or 4 holes, several finishes available.







Clinch Nut Solution for Box Mount

Equivalent mounting retention of the receptacle ensured with only 4 clinch nuts. Designed for severe applications.

User friendly



Easy to install.

Less fixing parts



Elimination of nuts and washers.



(4 screws + 4 nuts + 4 washers)

(4 screws)

A wide range available



In major circular ranges (38999, 26482, EN 2997 and also in ARINC rectangular rack & panel.



38999 Series Double Flange





Double Flange Solution for PCB Mount

Specially designed for PCB applications in harsh environment, decoupling vibration from the board.

Excellent mechanical performance



Standoffs integrated into the connector. No risk of breaking contacts and no risk of micro-cuts.

Design flexibility



Square flange or Jam nut versions available. Versatile contact length options.

A wide range



Available in aluminum from shell size 9 to 25.

User friendly



Easy to assemble & time saving.









The RoHS Alternative to Replace Cadmium

The best value for money solution.



Souriau Zn Ni



Alternate to cadmium.





A unique SOURIAU plating process compliant with RoHS regulation for cadmium and Cr6+restriction.



The first QPL qualified



The first solution which has been qualified by US Defense authority (DSCC).





500 hours salt spray.





Available for the whole 38999 Series III aluminum range.



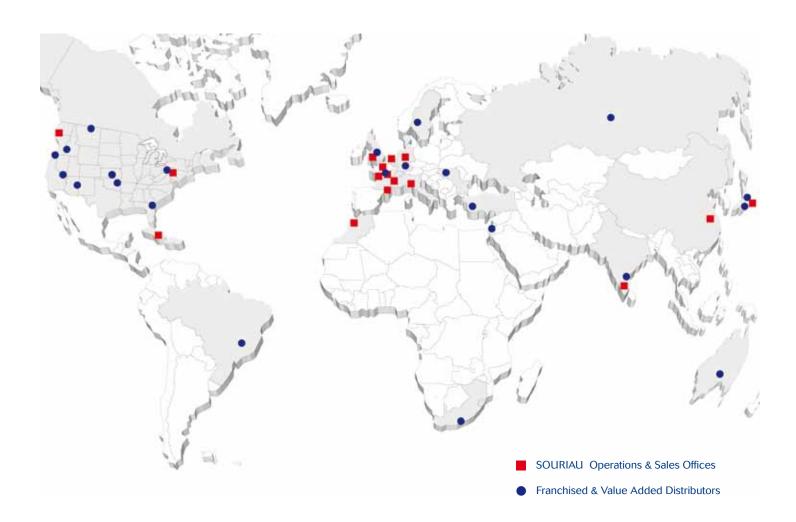
Customer Coverage through Worldwide Sales Network

SOURIAU is recognized as one of the top international manufacturers of connectors for harsh environment and is continuously strengthening its leading position through its solid structure as an international group. Today the SOURIAU group has a strong global presence and operates 24 facilities (10 production sites and 14 offices) on 4 continents:

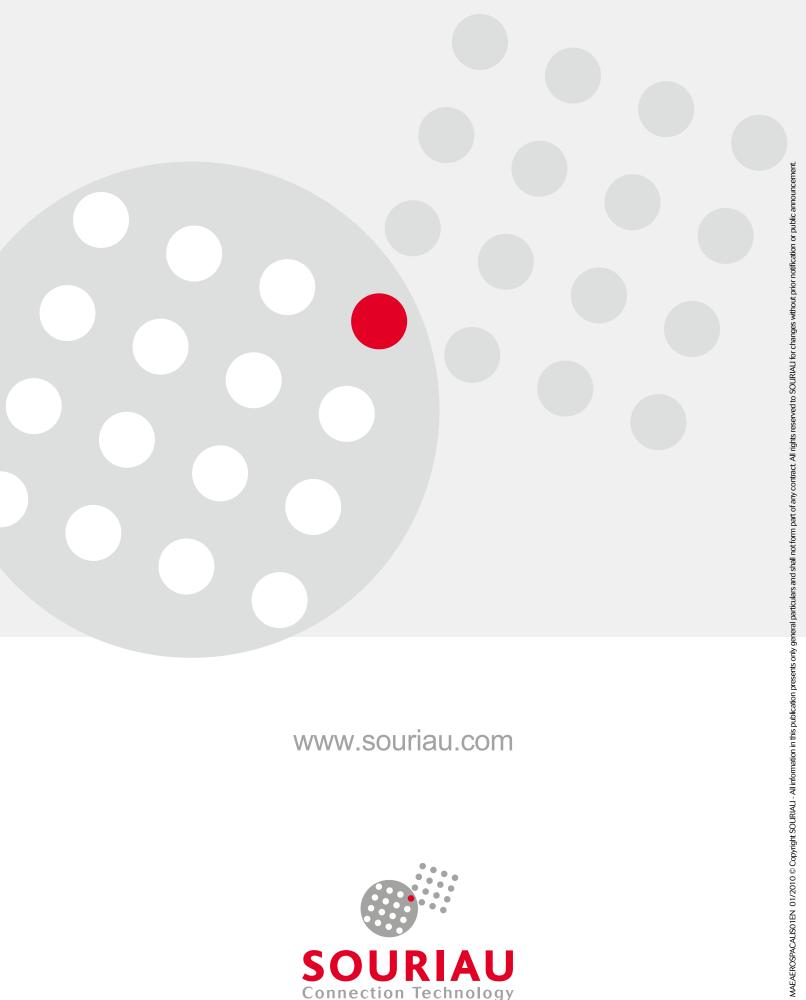
- 15 in Europe,
- 4 in Americas,
- 4 in Asia
- 1 in Africa.

Our international presence is reinforced by 23 franchised and value added distributors in 14 countries.

We also rely upon an extensive network of distributors and resellers worldwide. This coverage, together with a strong commitment towards service, ensures rapid responses to the specific needs of our customers.







www.souriau.com

