



The Wild Children of D38999

A complete range of space saving compact connectors with all of the features and capabilities of D38999 for harsh applications.

- A compact and complete solution** ■ Diameter up to 45% smaller than D38999 size 9. Integrated backshell: up to 50% shorter. Threaded, break away and bayonet coupling.
- A high density solution** ■ With #26 contacts (according 39029). 6 layouts (size 3, 5 and 7 with #22 & #26).
- Excellent features** ■ Designed to meet D38999 requirements. IP67 sealing when mated. Scoop proof.
- RoHS and Cadmium free** ■ Available in zinc nickel (RoHS) plating, as well as nickel and olive drab cadmium.

Not QPL listed.

A wide product range of compact 38999

3
coupling
systems

5
shell
types

Threaded coupling
8DA Series



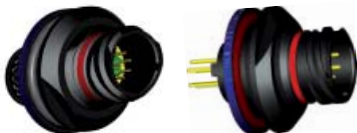
Plug

In Line Receptacle



Jam Nut Receptacle

PC tail contacts available



Square Flange Receptacle

PC tail contacts available



Break away
8BA Series



Plug

In Line Receptacle



Jam Nut Receptacle



Bayonet coupling
8LTA Series



Plug

In Line Receptacle



Jam Nut Receptacle

PC tail contacts available



Square Flange Receptacle

PC tail contacts available



Oval Flange Receptacle

PC tail contacts available



A wide product range of compact 38999

2
materials,
4 platings

- Aluminum**
- Black Zinc Nickel RoHS
 - Nickel RoHS
 - Cadmium
- Stainless Steel**
- Passivated RoHS

2
removable
contacts

- AWG 26**
#26 Ø 1.29 mm
- AWG 22**
#22D Ø 1.5 mm

3
miniature
shell sizes

- Shell size 3**
Layouts 3-05; 3-35
- Shell size 5**
Layouts 5-06; 5-35
- Shell size 7**
Layouts 7-09; 7-35

Smaller and more compact than D38999

**More
Compact
Shell**

8DA Series, size 5
with Integrated Backshells



8D Series, size 9
+ Additional Backshells



**Smaller
Contact
Size**

#26
Ø 0.5 mm



#22D
Ø 0.76 mm



**Shorter
Contact
Pitch**

1.7 mm



2.28 mm



micro38999

D38999 Series III

micro38999

D38999 Series III

Same number of contacts in a smaller connector!

50% SHORTER LENGTH | 33% SMALLER DIAMETER | 3 TIMES LIGHTER

Although smaller, all the features and excellence of D38999

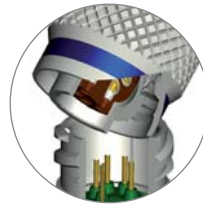


High grade thermoplastic insert

Silicone elastomer grommet and sealing
-55° to +175°C
as in D38999



Ratcheting system
Vibration:
44grms @125°C

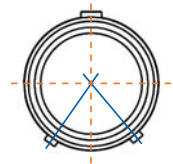


Scoop proof
Contacts protected like D38999



Triple-start thread
Contact design according to M39029

EMI grounding
Connection as in D38999



6 keyings
Same as D38999

Not QPL listed.

Always a solution to meet your application needs



Tactical radio/ Network systems
Switch, docking station, power supply, ...



Infantry/ Display
Battery charger, helmet, radio, ...



Autonomous robot/Solar
Control unit, data transmission, ...



UAV/On board equipment
Missile, civil & military aircraft, control unit, actuator, ...



Cockpit/ Aircraft cabin
Lighting, interconnect, ...



Industrial equipment
Instrumentation, small equipment for industry, ...



Threaded
8DA Series



Break away
8BA Series



Bayonet
8LTA Series



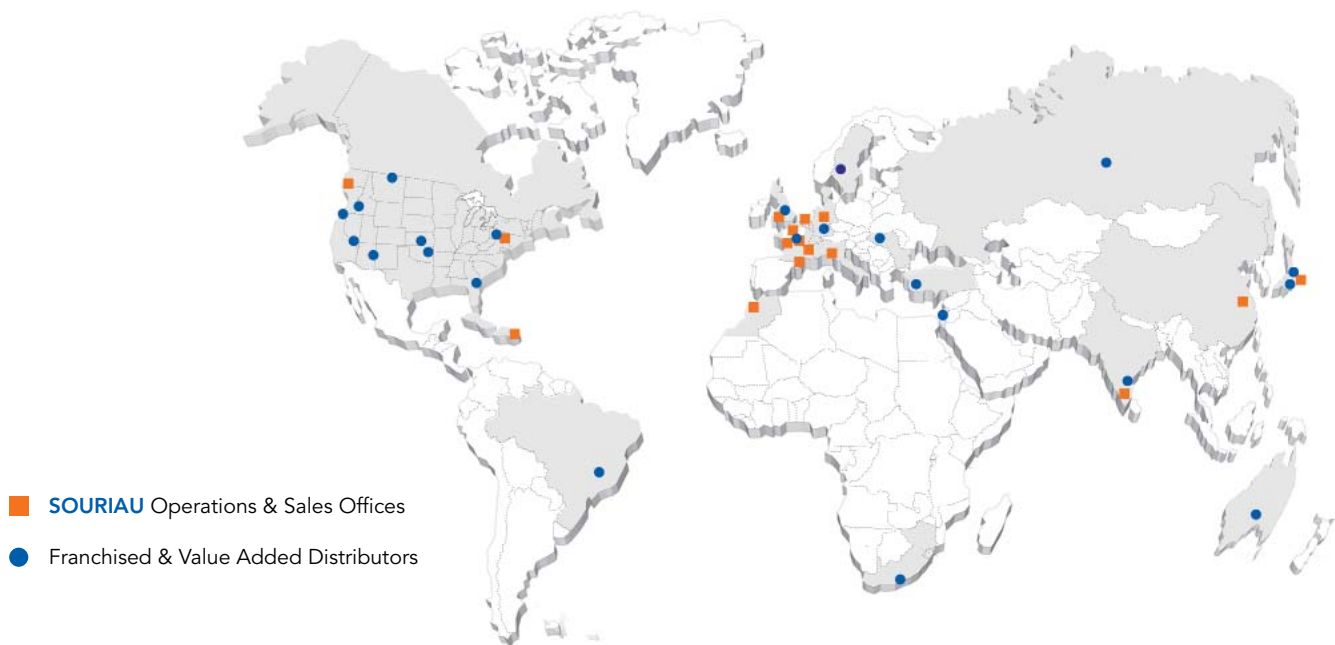
Worldwide Sales Network

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 26 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.



Multisourcing

SOURIAU have reached a partnership agreement in the manufacturing, qualification, and marketing of micro38999 connectors

This partnership will provide customers with two independent sources of manufacture, guaranteed interchangeability and intermateability, with all critical features including interfacial and mounting dimensions, based on common controlled shared drawings.

Please contact us for more information.

Miniature sizes

- **A compact solution**
 - The smallest connector available on the market (shell size 3)
 - Miniaturization of MIL-DTL-38999
 - Threaded, break away or bayonet coupling
 - Integrated backshell:
 - . Easy to wire and handle
 - . Compatible with heat shrink boot and braid retention band
 - . Compliant with overmolding
- **A versatile solution**
 - 3 shell sizes (3, 5, 7)
 - 2 materials, 4 platings
 - Crimp & PC tails contacts
 - Removable contacts #22D & #26
 - 6 keyings
- **Harsh environment-resistant solution**
 - Scoop Proof
 - Cavity to cavity sealed with interfacial seal and grommet
 - Fluid resistant



Technical features

Mechanical

- **Shell:**
 - Aluminum alloy
 - Passivated stainless steel (consult us)
- **Shell plating:**
 - Aluminum:
 - . Zinc nickel (RoHS)
 - . Nickel (RoHS)
 - . Olive drab cadmium
 - Passivated stainless steel (RoHS)
- **Insulator:** Thermoplastic
- **Contact body:** Copper alloy
- **Contacts plating:** Gold over nickel plated
- **Shell endurance:**
 - Aluminum:
 - 500 mating/unmating cycles
 - Passivated stainless steel:
 - Up to 1000 mating/unmating cycles
- **Vibration (2 axes during 8 hours):**
 - 8DA: 44 grms @125°C
 - 8BA & 8LTA: 30 grms ambient

Electrical

- **Wire size**

Layouts	Wire (AWG)
03-05; 05-06; 07-09	24-30
03-35; 05-35; 07-35	22-28
- **Test voltage (at sea level):**
 - Size 22D: 1000 Vrms
 - Size 26: 400 Vrms
- **Contact resistance:**
 - Size 22D: <14.6 mΩ
 - Size 26: <16 mΩ
- **Contact rating:**
 - Size 22D: 5A
 - Size 26: 3A
- **Contact retention:**
 - Size 22D: 45N
 - Size 26: 30N
- **Shell to shell continuity (typical value)**

Shell size	8DA & 8BA		8LTA
	Aluminum	Stainless steel	All versions
3	NA		250 mΩ
5	10 mΩ	60 mΩ	
7	10 mΩ	60 mΩ	
- **EMI:**
 - 8DA & 8BA (aluminum): -70dB @ 1GHz
 - 8DA & 8BA (stainless steel): -55 dB @ 1Ghz
 - 8LTA (all versions): -55 dB @ 1Ghz

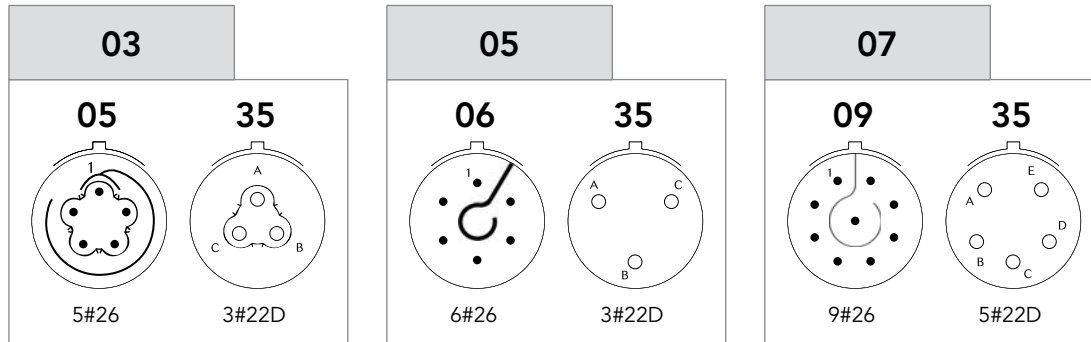
Environmental

- **Temperature range:**
 - 55°C to +175°C
- **Water immersion:**
 - IP 67 on mated connector
 - 1 meter for 30 min minimum
 - > IP68 with appropriate cable termination
- **Salt spray:**
 - Zinc nickel: 500 hours
 - Nickel: 48 hours
 - Olive drab cadmium: 500 hours
 - Passivated stainless steel: 250 hours

Resistance to fluids

- **According to MIL-DTL-38999 standard**
 - Gasoline: JP5 (OTAN F44)
 - Mineral hydraulic fluid: MIL-H-5606 (OTAN H515)
 - Synthetic hydraulic fluid: Skydrol 500 B4
- **Compatible with de-icing fluids containing potassium acetate**

Contact layouts



Size 3: Marking on shell.

Rear view of receptacle for male and female insulator. Opposite marking between plug and receptacle.

Sizes 5 and 7: Marking on insulator.

Rear view of male insulator for plug and receptacle. Opposite marking between male and female insulator.

Ordering information

Basic Series: 8DA: Threaded coupling 8BA: Break away 8LTA: Bayonet coupling	8DA	0	03	Z	05	P	N
Shell type: 0: Square flange receptacle (8DA & 8LTA only) 1: In line receptacle 2: Oval flange receptacle (8LTA only) 5: Plug with EMI ring (8DA only - size 5 & size 7) 6: Plug without EMI ring 7: Jam nut receptacle							
Shell size: 03, 05, 07							
Plating: Z: Black zinc nickel F: Nickel W: Olive drab cadmium K: Passivated stainless steel (consult us)							
Contact layouts: See above							
Contact type: P: Pin (8DA shell size 3 scoop proof only when pin contacts mounted in Type 6) S: Socket (8DA shell size 3 scoop proof only when socket contacts mounted in Types 0, 1 or 7. 8BA scoop proof only when socket contacts mounted in Type 1 & Type 7)							
Orientation: N, A, B, C, D, E							

More information

Dimensions, weights, orientations, large sizes, PC tail version, coordinates, accessories, tooling, ... Please consult SOURIAU «8DA, 8BA & 8LTA Series» catalog.

For further information contact us at contactmilaero@souriau.com or visit our web site www.souriau.com

Mouser Electronics

Authorized Distributor

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