



*Our Most Important  
Connection is with You.™*

# QuickFusio™

## Shaping Innovation

QuickFusio™

Radiall 

## QuickFusio - Shaping Innovation



### Competitive cost

The QuickFusio™ series is optimized to meet customer expectations in terms of competitive **price positioning**. The use of standard **SAE-AS-38999** contacts in QuickFusio™ inserts and the unique mating mechanism enables **quick mating** and reduces overall cost.



### Simple wiring

By squaring a circle, Radiall has created an innovative design compatible with standard **SAE-AS-38999 size 11 accessories**. The unique design covers **any type of wiring** combination and is easy to install due to **The Radiall Touch**: One finger mating technology.



### Lightweight solution

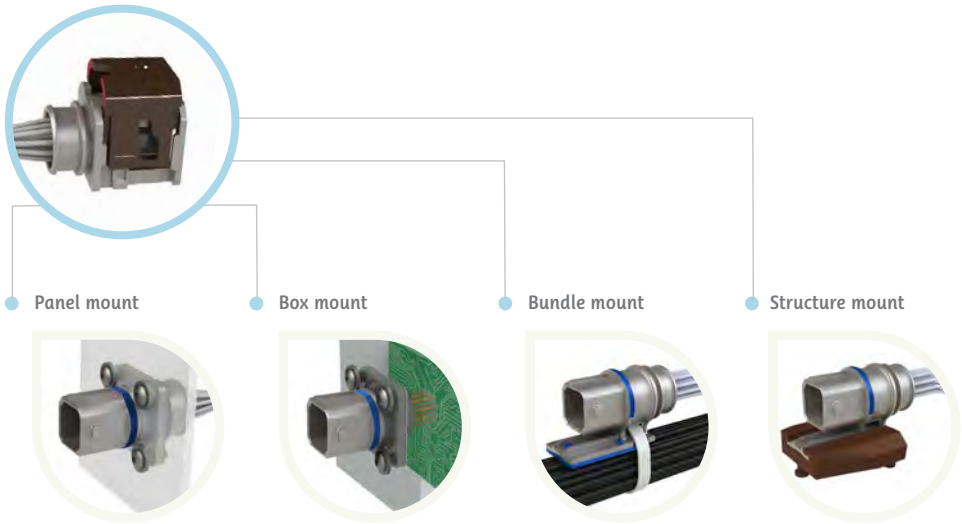
Extremely compact, the QuickFusio™ series is **20% lighter** and **40% smaller** than the competition. This small, dense solution eliminates wasted space and reduces the overall weight. The QuickFusio™ series is **only 20 grams** per pair when equipped with size 22 contacts.



One finger mating - in a snap!

# QuickFusio™ Series

One versatile range for any wiring system



Plugs and receptacles are available in different output options which can adapt to any wiring.



Accessory thread



Banding platform



Banding platform and tie-wrap

## Large range of inserts for standard SAE-AS-38999 series II contacts

Pin contacts per M39029/58 (or EN 3155-008) and socket contacts per M39029/57 (or EN3155-003).



22 contacts  
#23



14 contacts  
#22



7 contacts  
#20



4 contacts  
#16



4 FO  
Arinc 801



1 contact #8  
Quadrax or  
EN4531-101



3 contacts #20  
1 contact #12

## FOD proof shell keying

6 different shell codings through mechanical shape and shell coloring. Codings are A (purple), B (blue), C (green), D (yellow), E (pink), F (white). One universal coding N (black) is also available.





## QuickFusio and QuickFusio+

### Two innovative solutions to meet specific customer needs

To address the challenges airframers meet in the civil aerospace industry, Radiall has developed a miniature connector solution for multiple applications within the aircraft: the QuickFusio™ series. To meet all customers needs, the QuickFusio™ series is available in two different versions:

#### QuickFusio

The QuickFusio connector offers the perfect balance between extreme competitive cost and performance needed in pressurized environments, especially in cabin applications.

#### QuickFusio+

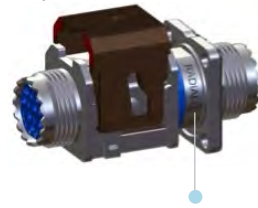
Qualified in accordance to EWIS standard, the QuickFusio+ connector meets even more stringent requirements and is suitable for both pressurized and non-pressurized environments.

- Non-Environmental Insert
- Black Slide-Lock



Part number starts with QFC

- Environmental Insert (except with short PC tail contacts)
- Brown Slide-Lock



Part number starts with QFP

Performance	QuickFusio	QuickFusio+
Operating temperature	-55° C to + 125° C [-67° F to +257° F]	-65° C to + 175° C [-85° F to +347° F]
Altitude immersion	No Sealing	55,000 feet
DWV at 70,000 feet (mated connector)	325 Vrms	1000 Vrms
Salt spray	48 h	96 h
Vibrations	Acceleration 20 g sinus (4h on each of the 3 axis)	Acceleration 27.8 grms (8h on each of the 3 axis)
Lightning strike	None	5 KA - 1600 V
Shell to shell conductivity	10 mΩ max	2.5 mΩ max

Radiall's experience in EWIS applications and ability to design innovative solutions makes QuickFusio™ the perfect solution for cabin interiors and EWIS applications. Combining high performance with reduced cost, this light weight, tool less connector features The Radiall Touch: one finger mating - in a snap!

## General Performance

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Radiall's QuickFusio™ series is designed for harsh aerospace applications and is qualified according to industry standard requirements.

### Materials & finishes

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- Shell: high grade thermoplastic (nickel plated)
- Insert retention clip: beryllium copper
- Insert: high grade thermoplastic with metallic retention clip
- Contact: copper alloy, gold plated over nickel
- Slide lock (plug): high grade thermoplastic
- O-ring, grommet and interfacial seal: fluorosilicone elastomer
- Nut plate (receptacle): stainless steel

### Mechanical characteristics

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- Mating/unmating: 500 cycles
- Shock: EN2591-402 (50 g)
- Insert retention in shell: 254 N

### Environmental characteristics

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- Flammability: EN2591-317 FAR 25.853
- Smoke and Toxicity: FAR 25.853 Appendix F

### Electrical characteristics

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- Magnetic permeability:  $<2 \mu$
- Insulation resistance:  $> 5,000 M\Omega$
- GigaBit Ethernet performance: 1GBit/s (cat5e)

Size of Contacts	23	22	20	16	12	8
Max Current rating [A]	5	5	7.5	13	23	46

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important  
connection  
is with you.™

It's not just a slogan. It's a statement of our earnest desire to put you at the forefront of all our business practices. As part of Radiall's mission to be available and accessible, we make it a priority to have local offices around the globe ready and able to assist you – wherever you are, whenever you need us.

## Europe

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