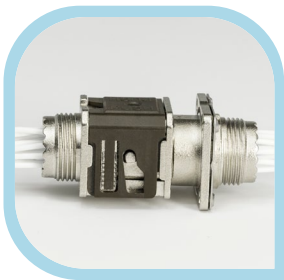# QuickFusio™

Shaping innovation

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

- Competitive cost
- Simple wiring
- Lightweight
- Compact design
- High performance
- Wide range

Radiall's groundbreaking QuickFusio™ connector series offers many advantages including a design that enables quick mating with the use of only one finger. This ease in mating with the price positioning of the product are key factors in reducing the overall cost of ownership for customers in need of rapid mating interconnect solutions.

The revolutionary mechanical shape combines the geometry of a square and a circle into an impressive compact and light weight design. The square enables QuickFusio™ to provide a secure and tool free locking device, and results in less space wasted compared to traditional circular connector interfaces. The circle simplifies wiring integration while providing more options by the use of existing size 11 SAE-AS-38999 rear accessories. QuickFusio™ can also be easily wired with standard 38999 series 2 contacts.

Radiall's expertise in composite shielded connectors combined with QuickFusio™'s optimized design, make QuickFusio™ the perfect interconnect solution for aerospace and harsh environment applications.

Performance

Temperature	-65°C to +175°C
Salt spray	96 hours
Random vibration	EN2591-403- method B level G (27.8g)
Shock	EN2591-402 - 50g
Altitude immersion	55,000 feet
Air-leakage	16 X10^{-6}m^3/h according to EN2591-312 method B

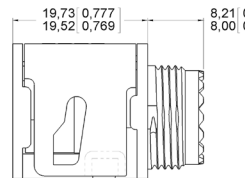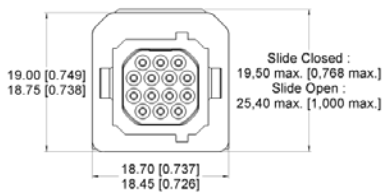## Materials & Finishes

Shell	High grade thermoplastic, nickel plated
Insert retention clip	Beryllium copper
Contacts	Copper alloy, gold over nickel
Inserts	High grade thermoplastic with metallic retention clips
Slide lock (plug)	High grade thermoplastic
O-ring, grommet & interfacial seal	Fluorosilicone elastomer
Mounting plate (receptacle)	Stainless steel

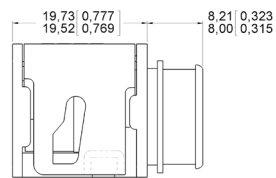*Our Most Important Connection is with You.™*

Radiall

The innovation of a shape-combining design, the use of leading edge composite materials, and lightning quick and simple "one finger" mating make QuickFusio™ the clear choice for major aerospace and defense OEMs.
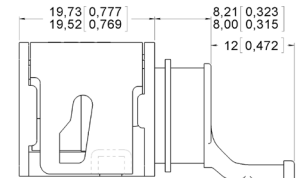
Shaping innovation

Plug

19.00 [0.749]
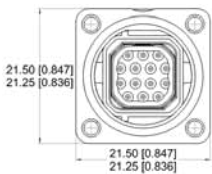18.75 [0.738]

Slide Closed :
19,50 max. [0,768 max.]
Slide Open :
25,40 max. [1,000 max.]

18.70 [0.737]
18.45 [0.726]

19,73 0,777
19,52 0,769

8,21 0,
8,00 0,

Accessory thread
(9.65 g)

19,73 0,777
19,52 0,769

8,21 0,323
8,00 0,315

Banding platform
(9.75 g)

19,73 0,777
19,52 0,769

8,21 0,323
8,00 0,315

12 0,472

Banding platform and tie-wrap
(10.10 g)

Receptacle

21.50 [0.847]
21.25 [0.836]

21.50 [0.847]
21.25 [0.836]

Square flange

18,465 0,727
18,245 0,718

12,73 0,501
12,52 0,493

Accessory thread
(7.70 g)

18,47 0,727
18,25 0,718

12,73 0,501
12,52 0,493

Banding platform
(7.80 g)

18,47 0,727
18,25 0,718

12,73 0,501
12,52 0,493

12 0,472
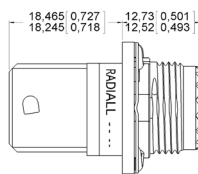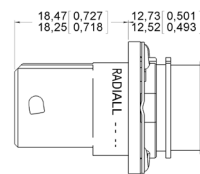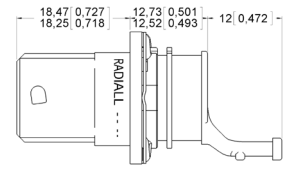
Banding platform and tie-wrap
(8.10 g)

QuickFusio™ Range

Versatile range
- *Panel mount*
- *Box mount*
- *Bundle mount*
- *Structure mount*
- *3 different output options*

Large range of inserts for standard SAE-AS-38999 series II contacts
- *Electrical: size 23 to size 8*
- *Optical: ARINC 801 (LuxCis®) fiber optic contacts*

FOD proof coding
- *6 different shell coding through mechanical shape and shell coloring*
- *One universal "N coding"*

Benefits & Features

Competitive cost
- *price positionning*
- *SAE-AS-38999 contacts*
- *Quick mating*

Simple wiring
- *SAE-AS-38999 accessories*
- *covers any wiring system*
- *Radiall Touch technology*

Lightweight solution
- *20% lighter & 40% smaller than the competition*
- *20 grams per pair*

Applications

- *Aerospace & other harsh environments*
- *Fuselage & cockpit*
- *Cabin*
  - » *IFE (in flight entertainment)*
  - » *Seat wiring*
  - » *EWIS*
- *Harness to harness connection*
- *Harness to equipment connection*

Our Most Important Connection is with You.™

Radiall