

# LuxCis® ARINC 801

High performance optical connectivity

**LuxCis® ARINC 801 is a complete fiber optic interconnect solution developed for aerospace and military applications.**



Radiall's LuxCis® ARINC 801 fiber optic contacts provide excellent performance in the most severe environments. Flying since 2003, the LuxCis® ARINC 801 is the ideal solution when reliable optical connectivity is required.

The unique design of our LuxCis® ARINC 801 provides a high density solution that can be integrated in a wide variety of interconnects. This genderless contact is user friendly and easy to maintain. The keyed LuxCis® contact was designed for optimum optical performance in Singlemode APC and provides excellent return loss levels as expected in analogical applications. The pull-proof design can eliminate the need for backshells, reducing the overall weight. Selected as the ARINC 801 standard for aerospace optical interconnects, Radiall's LuxCis® ARINC 801 is widely used in a variety of harsh environments, including aerospace and military applications.

Radiall designs and manufactures a full range of cable assemblies with harness capabilities for high-end optical systems.



**Radiall's LuxCis® ARINC 801 interconnect solutions are designed for use in Multimode, Singlemode and Singlemode APC. Flying for more than 10 years in commercial and military aircrafts, LuxCis® is the standard for ruggedized optical connectivity in harsh environment applications.**

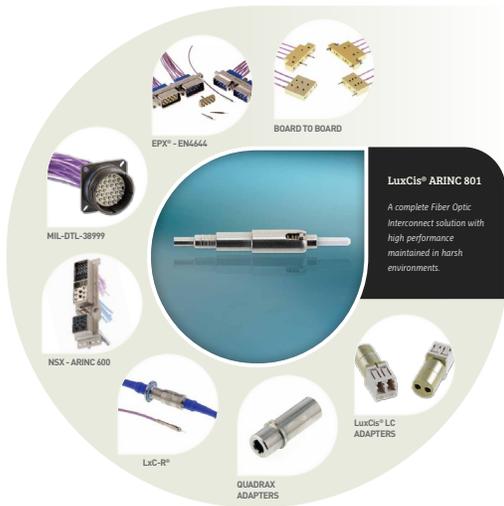
*High performance optical connectivity*

### Excellent performance

- Optical performance:
  - » Multimode, PC: IL: 0.1 dB / RL > 20 dB
  - » Singlemode, UPC: IL: 0.15 dB / RL > 50 dB
  - » Singlemode, APC: IL: 0.2 dB / RL > 65 dB
- Temperature range: -55°C to +125°C (cable dependent)
- Vibration: 43 Grms
- Durability: 500 mating cycles

### Product range

- Available in multimode, singlemode and singlemode APC
- Circular connectors: MIL-DTL-38999, Single channel LxC-R®
- Rectangular connectors: EPX® EN4644, QM, ARINC 600, EN4165
- Custom design connectors for board-to-board applications
- Field proven inspection and cleaning kits



### Features & Benefits

- Excellent optical performance maintained in harsh environments
- Baseline of the ARINC 801 standard
- Complete ruggedized product range, including hybrid and hermetic connectors
- Keyed contact available in multimode, singlemode and singlemode APC (RL>65dB)
- High density solution (circular #25 connector with 32 channels)
- Optimized inspection and cleaning process with convenient access to the optical end face

### Applications

- Avionics, IFE (In-flight Entertainment), HUD (Heads Up Display)
- Power and flight management
- Radar (RF over fiber)
- Sensors
- Electronic warfare