Fiber Optic Interconnect Solutions for Military, Aerospace and Harsh Environment Applications
Radiall has been instrumental in designing and manufacturing fiber optic products for harsh environment applications for more than three decades. The experience of its team, its tradition for innovation and its high level service make Radiall an expert in the fiber optic field and a reliable key partner for your success. One of its latest developments, the LuxCis® (ARINC 801) terimus has been adopted by the industry as the new standard interconnect solution for airborne avionics and communications.

**FIBER OPTIC CONNECTORS**

**LuxCis®**: Physical contact  
ARINC 801 / EN 4639 / EN 4640 / EN 4645
- Typical insertion loss of 0.1 dB. Superior optical performance maintained in harsh environments
- 1.25 mm ferrule for high density connectors
- Easy to clean and inspect optical end faces with the removable sleeve holder
- Multimode, singlemode and APC versions
- A single contact part number fits in a wide range of circular and rectangular connectors, including EPX®, ARINC 600, MIL-DTL-38999 or board connectors
- Ruggedized single channel solution with the LxC-R® connector
- Hermetic solutions available

**PRO BEAM®**: Expanded beam  
MIL-83526/83521
- Non physical contact solution, reducing surface damage and sensitivity to dust and particles
- Ruggedized connector, able to withstand extreme vibration and shock conditions
- More than 3,000 mating cycles
- Multimode and singlemode versions
- Up to 4 channels per insert
- Also available inserts for Arinc 600, MIL-DTL-38999 and EPX®

**MIL-PRF-29504 compatible termini**
- Termini for use in standard electrical cavity
- Size 16 and size 12 contacts available
- Available for ARINC, 38999 and EPX®

**Commercial connectors**
- LC, SC, ST and FC connectors redesigned for harsh environments
- Can accommodate loose or tight cable structures

LuxCis®, LxC-R® and EPX® are trademarks of Radiall - PRO BEAM® is a trademark of Tyco Elexctronics

**APPLICATIONS**

- **RF over Fiber** (remote antennas, phase array radar, military radio networking, and all radio signal conversion over a fiber in severe environments)
- **Sensors** (performance or structural)
- **In Flight Entertainment** (seat box connections, on-board fiber optic equipment, etc...)
- **Avionics data transmission**
- **High speed data networking**, including wavelength multiplexing
Fiber optic interconnect solutions are recommended for all applications where:

- High data rates are required
- Standard architectures become too complex
- Data transmission needs to be secured
- EMI or electrical arcing is a concern
- Weight reduction is important
- Reduced power consumption is needed
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