

# Space Products Support & Services

*Interconnect Solutions for Military and Commercial Space Flight*

With over twenty years of military aerospace interconnect experience, Phoenix Logistics, Inc. (PLI) is uniquely positioned to support the interconnect needs of space flight operations. Our experience includes some of the most high-profile space programs such as the International Space Station and the Lunar Reconnaissance Orbiter, as well as lesser-known satellites such as the Gamma-ray Large Area Space Telescope, GEOLITE, and the commercial TDRS satellite.

*PLI Space Legacy:*

International Space Station  
Lunar Reconnaissance Orbiter  
GeoEye 1 Satellite  
Landsat 8 Satellite  
TDRS Commercial Satellite  
GeoLite Satellite  
GLAST Satellite

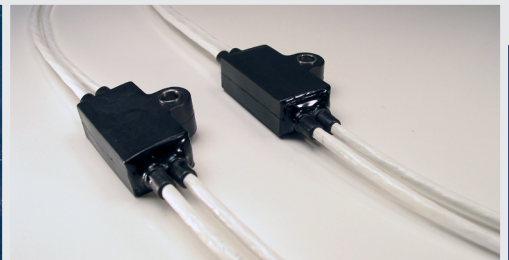
*Our customers include:*

Boeing  
General Dynamics  
NASA  
Northrop Grumman

We understand that each space project is a unique event that requires a unique mix of products and services. PLI provides ready-made products, ranging from RF and microwave cable assemblies, to Mil-STD-1553B Data Bus couplers, connectors, cable and accessories, to high-speed gigabit assemblies that meet space level requirements. In addition to our wide interconnect product range we provide custom design, manufacturing, and complete space qualification testing of a variety of high frequency integrated data transmission solutions.

We can also provide space-level screening services for existing products. Screening ensures all electrical components and/or subassemblies meet or exceed the established space-level requirements. We can fully screen and ensure all outgassing, launch vibration, and temperature excursion requirements as well as other testing requirements are fully complied with and documented. We have found that screening can result in significant cost and time savings for the customer.

Building products that meet the rigors and demands of space flight requires understanding, coordinating, planning and executing closely with our customers to meet their documentation requirements. PLI's advanced ERP system allows the customer to be involved and informed at every step of the way from specification and design reviews through comprehensive verification testing. The system provides comprehensive and real-time documentation to support every decision, event, and schedule, and provides complete traceability and verification at the click of a mouse. Our ISO 9001 and AS9100 certifications ensure that we can meet the rigorous documentation requirements of space-level production.



ISO 9001 / AS 9100 Certified

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## **Features of PLI Space Products:**

- Temperature ranges: -110°C - +135°C
- Meets all NASA outgassing requirements
- Uses all NASA approved materials
- Meets all launch vibration requirements
- Soldering IAW NASA 8739.3 or NHB5300.4

*"Whatever your launch, orbital, or deep-space vehicular interconnect requirements, Phoenix Logistics can meet your needs."*



## **Space Services:**

- **Screening Services**
  - **Design Services**
  - **Second Sourcing**
  - **Managing Space-Qualified Interconnect Inventories**
- Launch Vibration
  - Thermal Excursions
  - Outgassing
  - Materials Analysis
  - Plating Thickness
  - X-Ray Fluorescence
  - Failure Analysis
  - Environmental testing
    - Level 1- Full Environment
    - Level 2- Selected Environment
    - Level 3- Verification Testing

