

Electronics

Providing Advanced Technologies

Components & Connectors



THE FEDERAL PRISON INDUSTRIES ELECTRONICS BUSINESS GROUP has more than 60 years of experience in manufacturing quality, reliable electronic components and electrical connectors for the U.S. Armed Forces, government agencies, military OEMs and commercial customers.

Our components and connectors are used around the world. They have broad applications in secure communications, power distribution, sophisticated aircraft and ground vehicle controls, radar, security systems and emergency management operations.

QPL Source

>>> The Electronics Business Group is a qualified and approved source for QPL (Qualified Product List) manufacture of military-specification and military-standard connectors and is the preferred provider of these components.

Full Range of Services

>>> We provide one-stop shopping for component and connector needs—from CAD and prototyping services through production and distribution. We can customize our range of services to meet your needs.

100% Guarantee

>>> Our precision-made products are manufactured in a Statistical Process Control (SPC) and ISO9001:2000 environment. All connectors and components are 100% inspected and 100% guaranteed to meet the most demanding military and commercial specifications.

On-time Delivery & Production Capacity

>>> Federal Prison Industries' nationwide production facilities are fully equipped and staffed to handle all of your component and connector needs, from simple to complex. Our technicians can produce, install and package these products to your exacting requirements.

Our surge capacity, on-time delivery, focus on quality and service helps to meet combat needs overseas and increased security requirements at home.

Unmatched Customer Service

>>> The Electronics Business Group can develop specialized distribution networks at home and to ensure that our products are available where, when and how you need them.

Competitive Pricing

>>> Prices for our quality components and connectors are highly competitive. Because of our extensive knowledge of federal government procedures, we can make your procurement process easy and convenient.

Proven Success

>>> The quality, reliability and on-time delivery of our products is proven by such successful programs as the Patriot missile, SINCGARS radio, tank control systems, and communication equipment kits.



Electrical & Fiber Optic Cable Convergence Technology

CIRCUIT BOARD ASSEMBLIES

The Electronics Business Group technicians are especially skilled at fabricating and soldering Printed Circuit Board (PCB) assemblies. We have significant experience in producing Printed Circuit Board assemblies that incorporate:

- Rigid multilayers and backplanes
- Card cages and racks
- Flexible and rigid circuits
- Heat sinks
- High-performance designs
- Buried resistors and capacitance
- Radio-frequency and microwave circuits

While circuit board assembly is labor intense, our facilities and technicians are noted for their ability to meet critical peak demand requirements for aggressive delivery schedules while producing PCBs to exacting specifications.

Our precision-soldered multilayered circuit card assemblies and communication equipment kits are among the many such assemblies we produce to support military operations at home and overseas.

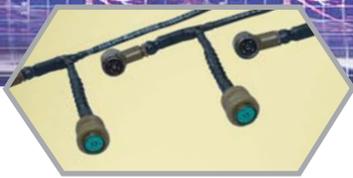
Circuit board assemblies produced by the Electronics Business Group have wide use in military, government agency and commercial communications, radar systems, aircraft control panels and sensors, guidance systems, security and emergency management applications.

ELECTRO-OPTICAL ASSEMBLIES

We are highly proficient in electrical and fiber optic cable convergence technology, used in applications requiring the transmission of signals faster, over more distance and with less weight. We are expert at customizing electro-optical assemblies in many configurations, and with almost any converter and connection.

Our electro-optical cable assemblies are found in avionic and missile controls, submarine navigation, and tactical observation and targeting systems in fighter jets, helicopters, tanks and other armored vehicles. The Electronics Business Group has the capacity to manufacture precision, fully tested electro-optical equipment that is compact, light in weight and reliable in the most adverse conditions.

Our expertise in manufacturing electro-optical assemblies is proven in numerous programs, such as the Bradley eye-safe laser rangefinder and the Patriot missile guidance system. Our assemblies must perform in an environment of large temperature swings, severe pressure changes, hostile gasses, airborne particles and intense shock.



Standard & Heavy Duty Connectors for Military, Avionics, Power Distribution & Communications

ELECTRICAL CONNECTORS

Federal Prison Industries technicians have in-depth knowledge of most standard and heavy-duty electrical connectors used in military, avionics, power distribution and communications applications. We are experienced in manufacturing high-performance connectors manufactured to meet our customer's critical operational requirements.

Our fiber optic interconnects, for example, are manufactured to provide ease of alignment and low sensitivity to temperature changes and signal contamination. These interconnects have strong connector housings that provide a durable connection to optimize high signal strength and reliable performance in rugged conditions.

The Electronics Business Group produces a wide range of connectors for military, government agency and commercial use. They include:

- Power distribution and high-voltage connectors
- Fiber optic connectors
- Radio-frequency and co-axial connectors and adapters
- Power docks
- Electrical plug assemblies for ordnance
- EMI and EMP adapters
- Heavy-duty rectangular and cylindrical connectors
- Antenna array connectors
- Bolt- and panel-mounted connectors
- Modular plugs and jacks
- High-density backplane interconnects

Our connectors come in many shell styles and materials, which are designed to meet the firewall, vibration and environmental standards required for reliable performance in rugged conditions.

Our technicians are skilled at molding synthetic rubber, chemically cured compounds and thermoplastics to produce caps, covers, bushings, isolators and electrical connectors to military and commercial specifications. They are also expert at overmoldings for strain relief, and added safety and reliability at key connection points.

CONTACT US

A full list of our products is available on request. Federal Prison Industries excels at producing customized products and service solutions to meet your electronic component and electrical connector requirements.

Contact us to see how Federal Prison Industries can become your number-one source for quality, reliable electronic components and electrical connectors.

Email: electronicssales@central.unicor.gov



U.S. Department of Justice

UNICOR

Federal Prison Industries, Inc.

320 First Street N.W., Building 400, Washington, D.C. 20534
The Electronics Business Group
www.unicor.gov/electronics

