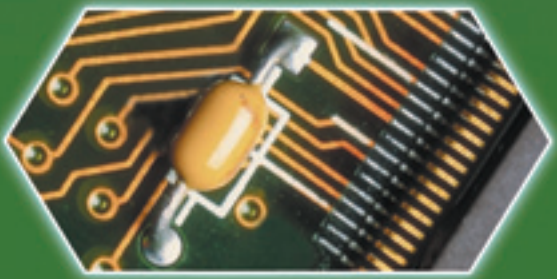
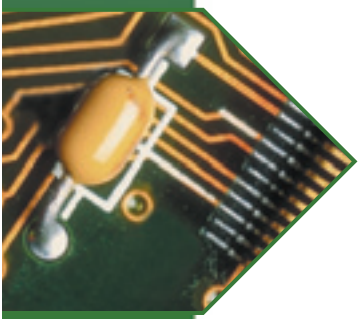
Federal Prison Industries:

Your Partner in Mission-Critical Technologies



Electronics

Providing Advanced Technologies



Federal Prison Industries:

High-Quality

Electronic Products & Services to Meet your Strategic Sourcing.

The Electronics Business Group of Federal Prison Industries has broad technical knowledge and a long, successful history of producing mission-critical electronic products and components for the U.S. Department of Defense, federal agencies, military OEMs and commercial customers.

We have direct, long-term agreements with federal agencies and the U.S. military and are a preferred provider for major military OEMs. Our products are vital to the operation of command centers, mission-critical communication equipment, aircraft instrumentation, missile guidance systems, and security and safety applications.

Partnership Opportunities

Federal Prison Industries is looking to expand our long-term partnership opportunities to commercial customers, military OEMs and other government agencies that can commit to and benefit from an alliance with our Electronics Business Group. Because we understand the federal agency and military procurement process, we can expedite purchasing procedures, making it easy and convenient to do business with us.

In a partnership with Federal Prison Industries Electronics, you receive a commitment to quality, attention to detail and a level of customer service not found elsewhere.

Our new business development group can discuss your specific needs, and how a long-term alliance with the Federal Prison Industries Electronics Business Group can provide high-quality electronic products manufactured and delivered to your specifications.

Our nationwide network of facilities are fully equipped and staffed to manufacture electronic products and components to the most demanding customer requirements. We have the capability to handle any production job, large and small. Our technically advanced facilities include clean rooms and static-controlled environments to produce sensitive electronic equipment.

100% Quality Guarantee

Federal Prison Industries electronics products and components are manufactured under stringent Statistical Process Control procedures in an ISO:9000 environment. Each facility has a complete quality control lab where electronic products and components are 100% tested to meet rigorous standards for reliability, durability and performance. All of our products and components are 100% guaranteed for quality, reliability and durability.

Our Products & Services

Cable Assemblies

We manufacture multiple, high-strand conductors with numerous twist configurations, shields of various construction and a wide range of conductor alloys, gauges, insulation and jacket components. This includes heady-duty, rugged electric power and distribution cables, EMI-shielded and EMP-hardened cables, high-reliability multi-strand fiber optic cable assembles in single- and multi-mode, and a wide range of grounding cables.

The Electronics Business Group also offers the unique capability to produce both flexible and semi-rigid coaxial cables that required great precision and care in the manufacturing process.

Wire Harnesses

We are a major producer and distributor of wire harnesses for the military and OEMs. We manufacture wire harnesses of all types, from miniature wire subassemblies to large, complex wire harnesses used in Cobra helicopters, fighter jets and Bradley vehicles.

Our cable braiding technology allows us to produce high-tensile strength, coated, galvanized or stainless steel mechanical wirings used in fighter jets to operate critical mechanical systems.

Electro-Optical and Circuit Board Assemblies

The Electronics Business Group produces, installs and packages electro-optical and circuit board assemblies to your exacting requirements. Our surge production capacity for these precision electronic products is proven by our successful support of such programs as the Patriot missile, SINCGARS radio and tank control systems.

Proficient in Electrical and Fiber Optic Convergence Technology

We are a qualified and approved source for QPL (Qualified Product List) manufacturing and distribution of military specification and military standard connectors. We produce most standard and heavy-duty electrical connectors used in military, avionics, power distribution and communications applications.

Braiding

The Electronics Business Group has significant experience in virtually all wire types, including single-conductor, multi-conductor stranded and multi-conductor shielded wire, as well as co-axial, fiber optic and radio-frequency cables, all in a multitude of gauges.

Our technicians are adept at custom braiding metallic, nylon and other textile materials in almost any twist configuration and length, incorporating RF, EMI and EMP shielding, insulation, jackets, connectors and terminations.

Flood Lights and Kits

We are a major producer of heavy-duty, high-reliability flood lights, drop lights and lighting kits used in military, federal agency, law enforcement, emergency management and fire and rescue operations.

Communications Equipment

The Electronics Business Group is a critical supplier of equipment, parts and kits for tactical battlefield communications, including antenna systems, radio mounts, powerful weatherproof loudspeakers and SINCGARS radio kits.

Missile Components

We produce and supply wire harnesses and cable assemblies for virtually all types of ordnance. Our technicians assemble the Intermediate Frequency Processor (IFP) for the Patriot Advanced Capability (PAC-3) missile, as well as cable assemblies connecting remote launching stations and linking missile ignition and control systems.

Molding and Potting

The Electronics Business Group has extensive in-house tool and die capabilities to expertly handle virtually all types of molding and potting, which must perform repeatedly and reliably in harsh usage and environmental conditions.

Kitting

We have the skilled labor, nationwide facilities and global distribution to provide kits of almost any kind to meet your requirements. For more than 25 years, we have assembled and supplied a wide range of kits for military, communications, emergency response and law enforcement requirements.

Helmets

We produce Advanced Combat Helmets (ACH), the world's most advanced ballistic and impact head protection. We also manufacture the PASGT helmet worn by most ground troops as well as riot helmets.

Heavy-Duty Batteries

Electronics produces and distributes long-life, heavy-duty and extra heavy-duty battery boxes that are completely sealed, maintenance free, leak proof and usable in any position.

Environmental Testing

Production and test procedures used to ensure the high quality and reliability of our products are developed at the Federal Prison Industries Environmental Test Laboratory in Littleton, Colorado. This lab has highly sophisticated equipment to test our electronic products and perform major electrical and environmental testing for numerous federal and commercial clients. The lab is approved by the U.S. Department of Defense to conduct tests to exacting military standards.

CAD, Prototyping and Engineering Services

At our nationwide facilities, our team of electrical engineers and technicians are skilled in Computer-Aided Design (CAD) and can generate computerized, production-ready designs and prototypes for Department of Defense, federal agency and commercial customers.

High-Quality, High Performance

The Electronics Business Group has a long and successful record of meeting customer needs for specialized design, prototyping, manufacturing and distribution of electronic products and components.

Our Commitment to Quality and Service Can Help You Meet Your Business Goals

The Electronics Business Group has extensive knowledge and experience in a wide range of high-quality, high performance electronics. We can help you meet your business goals through our:

- **Unmatched customized service:**
  Many of our products are custom-made and all are packaged and shipped to your requirements. Our attention to detail, quality and customer service is unmatched.
- **Precision manufacturing:**
  We produce and fully test our products in state-of-the art facilities to your exacting specifications.
- **Surge Capacity and Fast Turnaround:**
  We offer high-quality, cost-effective, high-volume manufacturing capabilities and immediate production capacity to OEMs and other companies that provide products under federal contract to U.S. government agencies.
- **Outstanding Cost-Effectiveness:**
  Our customized service, combined with our high-quality, reliable products and rapid delivery, produces overall savings in time and money.

- **Long History of Productive Partnerships:**
  Our long-term agreements with the U.S. Department of Defense and preferred supplier status with major military OEMs testifies to our ability to offer productive partnerships with our commercial and government customers.
- **Ease of Doing Business:**
  Our knowledge of the U.S. military and federal agency environment, expedited purchasing procedures, and high commitment to customer service makes it convenient and easy to do business with us.

We have extensive proficiency in:

- Complete In-house Cable Assembly and Wire Harness Potting
- Custom Cable Braiding
- Technologically Advanced Machining and Tooling
- High-Reliability Soldering and Electromechanical Assembly
- Product Retrofitting, Upfitting and Kitting
- Comprehensive Plastics/Molding Technology
- Quality Fiber Optics

Through our in-house design and prototyping services to our manufacturing and distribution capabilities, we can streamline the entire design-through-delivery process, resulting in highly integrated services and overall time and cost savings.

If you don't see the product you're looking for in this brochure, contact us. Through our broad experience in mission-critical electronic products and services, we can design a program to meet your needs.

We also can discuss how a partnership with the Electronics Business Group can help your organization meet its goals for high-quality, reliable and cost-effective electronic products, components and services.

Nationwide and Global Distribution

Through our support of federal agencies and the U.S. military at home and overseas, the Electronics Business Group has established nationwide and global distribution systems tailored to the needs of each branch of the Armed Services. This background and experience allows us to establish packaging and distribution systems to meet your needs.

Turn-Key Solutions

A partnership with the Electronics Business Group makes your work life easier. We understand the federal procurement process and have broad experience with the U.S. Department of Defense and government agencies.

Because Federal Prison Industries is a corporation wholly owned by the federal government, we can offer our customers the convenience of expedited purchase, cutting out much of the time and red tape involved in contracting for electronic products and components.

By working with us, federal agencies also gain SBA credits through our high commitment to seeking high-quality vendors among small and small, disadvantaged businesses.

Federal Prison Industries also provides one-stop shopping for your electronic product needs—from design and prototyping through production and distribution.

For Further Information Contact:
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U.S. Department of Justice

UNICOR

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The Electronics Business Group

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