

Electronics Business Group

*Setting the Standard
for Technical Quality*



The Corporation UNICOR

UNICOR is the trade name used by Federal Prison Industries, Inc., a wholly-owned government corporation established in 1934 as part of the Department of Justice, Federal Bureau of Prisons. Since its beginning, UNICOR has been a unique corporation providing productive employment for inmate workers and producing quality products and services to our government customers at competitive prices.

THE FEDERAL PRISON INDUSTRIES ESCAPE-PROOF QUALITY GUARANTEE

UNICOR Electronics Group's top-priority commitment to quality and customer satisfaction is proven by our guarantee to promptly replace or repair any item that does not entirely meet your expectations.



“The use of prisoners to provide labor during the manufacturing process significantly reduces the costs by as much as 40%. These cost savings have saved the Navy more than a million dollars.”



Complete Manufacturing Processes for Military and Commercial Applications

UNICOR's factories are staffed and equipped to manufacture electronics and electrical products to your specific requirements. Our process capabilities include:

PLASTICS AND MOLDING PROFICIENCY

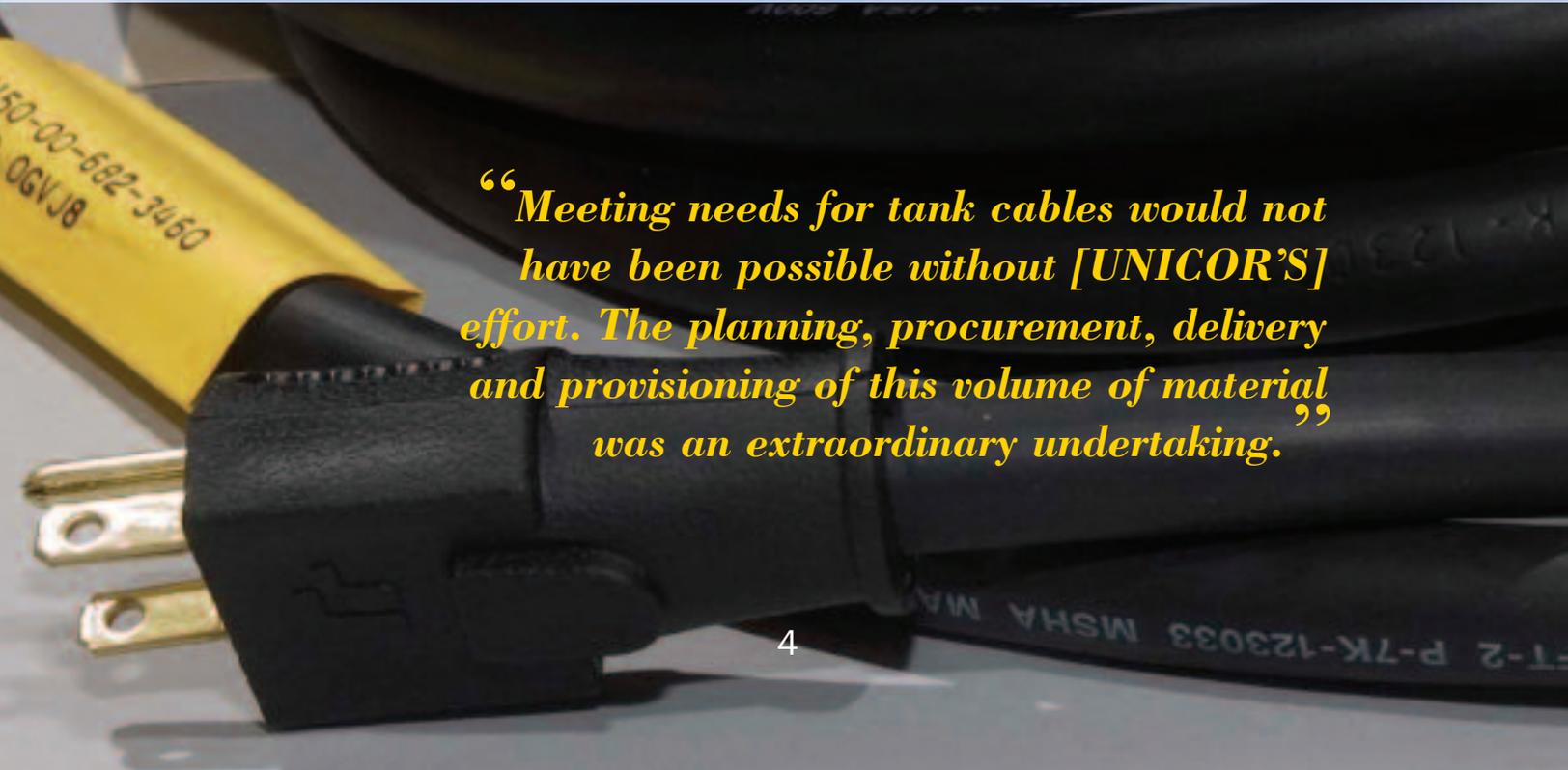
UNICOR has various plastic manufacturing capabilities including plastic injection molding, thermo-molding, low pressure molding, extrusion molding, transfer molding, rigid foam molding and compression molding.

HIGH RELIABILITY SOLDERING

"High reliability" soldering is performed to most military, industrial and/or commercially accepted standards.

CUSTOM BRAIDING

Our metal and non-metal custom braiding capabilities include a broad array of applications from simple protective coverings to bonding, grounding, EMI/EMP shielding and armoring of complex cable and harness assemblies.



“Meeting needs for tank cables would not have been possible without [UNICOR’S] effort. The planning, procurement, delivery and provisioning of this volume of material was an extraordinary undertaking.”

CABLE ASSEMBLY AND WIRING HARNESS POTTING

UNICOR's potting capabilities address a wide range of needs using various potting compounds such as PRC-1592, PRC-8516, CONAP EN-8 and EN-9, and other polyurethane compounds.

STATE-OF-THE-ART MACHINING AND SPECIALIZED TOOLING

UNICOR has state-of-the-art machining capabilities and can design and manufacture molds, as well as otherwise unavailable parts, tools, dies and fixtures.

SEMI RIGID CABLE ASSEMBLIES

UNICOR has the capability and specialized tooling to produce semi-rigid coaxial cable products.

QUALITY FIBER OPTICS

UNICOR has the equipment and capabilities to produce fiber optic cable assemblies.



“We are totally appreciative of [UNICOR’S] efforts. [UNICOR] gave us a good product – there were no complaints – and they gave it to us fast.”

— U.S. Army Brigadier General Alfred Mallette
Commanding General, CECOM



Customer Service and Program Management

In a world of demanding customers and diminishing manufacturing sources, UNICOR Electronics Group works closely with our customers and provides them with quality products, delivered on time and at highly competitive prices. Program managers, primarily in UNICOR’s Washington, DC headquarters, are the direct points of contact for all Electronics Group customers.

LONG-TERM CONTRACTING

To further solidify a strong working relationship with our military customers, UNICOR’s Electronics Group has established several long-term, multi-NSN, multi-year contracts with government customers.

NATIONAL RECOGNITION FOR UNICOR “TEAM ELECTRONICS”

Special statues and plaques were presented by CECOM in recognition of the outstanding support by our UNICOR cable factories in Fairton, NJ, Lexington, KY and Memphis, TN. These factories delivered numerous communications cables as well as operational assemblies for the crucial Patriot Missile System during the Gulf War.

Rear Admiral George A. Huchting personally presented the prestigious AEGIS Excellence Award to the inmate workers and civilian staff at UNICOR Electronics’ cable manufacturing facility in Memphis, TN.

This was the first time this prestigious award was presented to a government agency. UNICOR Memphis through zero defects was awarded AEGIS Excellence Award a second time,



Quality Assurance - Product Testing and Testing Services

RELIABLE FACTORY-LEVEL TESTING

Reliability, durability and other general testing required to meet product specifications is performed at each UNICOR factory location. Each factory's quality program is under the direct supervision of a civilian quality assurance manager, who works closely with factory management and UNICOR's corporate quality assurance staff.

Each UNICOR cable factory operates under the purview of a number of quality assurance processes including Statistical Process Control (SPC), in-process inspections and final inspection. Every product undergoes a 100% in-process inspection from receipt of incoming materials to cut length, to sub assembly, to final manufacturing. Final inspection is 100% electrical testing using automatic test equipment.

EXPERT TEST LAB PRODUCT TESTING

Specialized tests are performed in UNICOR's Environmental Test Laboratory in Englewood, CO. The lab's sophisticated equipment permits most electrical, mechanical and environmental testing to be performed in-house.

UNICOR's quality assurance department monitors all laboratory testing to ensure that it complies with customer requirements and quality assurance provisions, including military or performance specifications, or the commercial equivalent.

CUSTOM TESTING SERVICES

In addition to our own strict product testing, we also offer testing services for products not manufactured by UNICOR. These expert testing services include those for:

- Environmental testing
- Climatic simulation
- Performance evaluation of electronic assemblies and components

UNICOR employs state-of-the-art test equipment and controls to ensure that test programs are properly implemented. All test equipment is calibrated and traceable to the National Institute of Standards and Technology.

UNICOR performs testing to customer specifications. Test reports are prepared according to commercial or military specifications.



Subcontracting and Corporate Partnership Initiatives

RELIABLE MANUFACTURING CAPABILITY

As military acquisition reform initiatives evolve and the DOD defense budget is down-sized, DOD prime contractors continue to merge. While staff scramble to support diminishing manufacturing source (DMS) networking groups, UNICOR continues to provide reliable, uninterrupted manufacturing capabilities and services to its highly valued military customers and corporate partners.

Case Study: U.S. Army Communications Electronics Command (CECOM), Vehicular Intercommunications System (VIS)

UNICOR supports CECOM's OEM contractor, Northrop Grumman, as the primary provider of all cabling for the VIS installation kits. UNICOR also has established a "preferred vendor" status directly with CECOM to provide cabling spares on the VIS program. UNICOR Loretto, PA has a materials contract with CECOM to procure, handle and store prepositioned component parts. UNICOR Lexington, KY partnered with Star Dynamic Corporation of North Bergen, NJ to redesign and manufacture an Amplifier Audio Frequency Unit [5895-01-284-3057] for CECOM.



QUALITY SUPPORT FOR OEMS AND SMALLER CONTRACTORS

UNICOR offers reliable, low-cost, high-volume, quality manufacturing capabilities and immediate production capacity to both OEMs and smaller companies that provide products under Federal contracts to all U.S. government agencies.

UNICOR Electronics also manufactures cable assemblies and other electronic component parts for major DOD contractors including Raytheon, General Dynamics, Lockheed Martin and many other defense systems providers nationwide.

*“NSWCDD connects
with UNICOR on
AEGIS sites’
cables...with great
benefits for the Navy
and the nation.”*

— Surface, Vol. 19, No. 4, Dahlgren
Division, Naval Surface Warfare Center





UNICOR meets your needs for quality electronics and electrical products on time and at the right price.

HOW TO ORDER

Ordering from UNICOR is easy and flexible. Simply order UNICOR products and services in the way that is most convenient for you:

- Military Interdepartmental Purchase Request [MIPR]
- Interagency agreement purchase order form used by your agency
- Via long-term contracts

PROCUREMENT PROVISIONS

UNICOR produces a wide range of electronic components and electrical items, listed in UNICOR's Schedule of Products found on our Web site, www.unicor.gov. Please inquire about any items you need that are not listed.

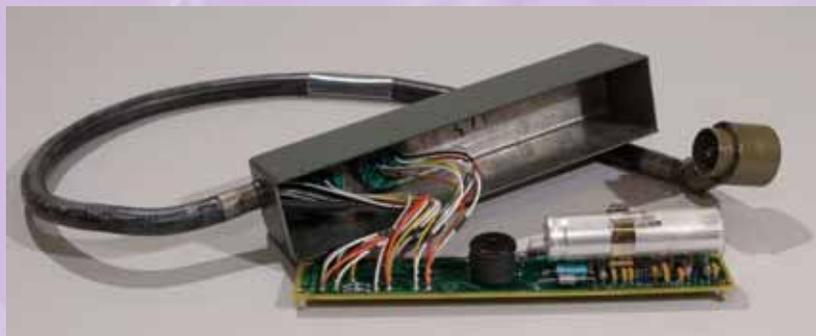
PRICE QUOTATIONS

Each UNICOR product is custom built to customer specifications and is quoted individually. Our FAX order service enables us to respond quickly with market-competitive price quotations.

PACKAGING

Each UNICOR location employs a trained packaging specialist experienced in all levels of packing, packaging and shipping. We can meet any requirements for commercial, GSA or military specifications.

Appropriate preparation is made for domestic or overseas shipment, and for either short- or long-term storage, as well as direct vendor delivery (DVD) services. Bar coding, UID and RFID services are provided, as specified.



Overview

COMPREHENSIVE PRODUCT CAPABILITIES

Government missions are critical, and your agency needs technically superior products with assured quality and performance built in. UNICOR Electronics provides all that and more by specializing exclusively in products and services for Federal government agencies.

Per FAR 8.602 (a)(b), UNICOR Electronics provides a very wide range of product capabilities. These electronic and electrical products are listed under the Federal Supply Classification (FSC) Series Below:

1005	1285	2530	5140	5820	5965	6110	6230
1010	1420	2590	5150	5821	5975	6130	6240
1015	1430	2920	5180	5855	5985	6135	6320
1025	1440	3750	5361	5895	5995	6145	
1055	1620	4010	5410	5930	5998	6150	
1095	1680	4920	5805	5935	5999	6160	
1260	2510	4935	5810	5961	6020	6220	

ELECTRICAL AND ELECTRONIC PRODUCTS

With more than 40 years of manufacturing experience, nationwide factory locations, and a skilled labor force, UNICOR Electronics is fully prepared to meet customer needs for a wide range of product lines that include:

- Cable Assemblies
- Complex Wiring Harnesses
- Circuit Card/Board Assemblies
- Grounding Cable Assemblies
- Electric Power & Distribution Cables
- Electrical Power Distribution Systems
- Fiber Optic Assemblies
- Electromagnetic Interference (EMI) and Electromagnetic Pulse (EMP) Shielded Cables
- Electro-Optical Assemblies
- Electrical Connectors
- Molded Components
- Radio Mounts
- Guided Missile Components
- Security System Components
- Loudspeakers & Control Units
- Ballistic Helmets
- Various Plastic Products

In addition to manufacturing these and other products, UNICOR also tests them and applies rigorous quality control standards in our own factory level and testing laboratory facilities.

“UNICOR’s adherence to quality assurance has proven to be effective, with a success rate of more than 99% on more than 6,500 cables completed.”

Get Quality Plus Savings

Quality products, produced by a dedicated workforce, delivered on time and at significant savings to the customer. Contact UNICOR Electronics Group to discuss how we can meet your specific needs.

Call or write to UNICOR with your inquiries:

Federal Prison Industries, Inc.
320 First Street, NW, 400 Building
Washington, DC 20534

Cage Code: 90142

Commercial Phone: (202) 305-3728

Fax: (202) 305-7355

UNICOR Autovon: 763-1205

E-mail: bbeus@central.unicor.gov
cdarrin@central.unicor.gov
mturner@central.unicor.gov

www.unicor.gov/electronics

