

Custom Manufactured **Wire & Cable Harness Solutions**



For over 25 years, FORCE America, Inc. has been designing and manufacturing innovative electronic controls with wire and cable harnesses. Our experience, coupled with our manufacturing capabilities, provides the dependable knowledge needed to meet and exceed your harnessing needs.

Solutions to Meet Your Needs

We specialize in a range of wire and cable harness solutions. From simple wiring harness assemblies to complex solutions, our capabilities include the ability to meet pre-defined specs, as well as offer full-design support to meet your goals. Our engineering team can design, model and test a turn-key solution for your harnessing requirements. Regardless of the project, we work to enhance design and reliability while saving you time and money.

Markets we serve include:

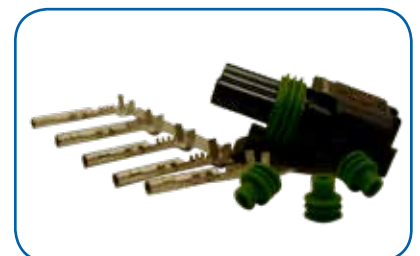
- Agriculture
- Construction
- Forestry
- Landscaping and Lawn
- Municipal Public Works
- Snow and Ice
- On/Off Highway Work Trucks
- Utility Trucks
- Waste Management
- Tow Trucks

Inventory and Selection

Our vast inventory of components are well-stocked and at the fingertips of our engineers for quick turnaround on custom prototypes and orders. We maintain a number of standard connectors and component inventory from top partners to serve you quickly.

Partner products include:

- Deutsch
- TE/AMP
- Delphi
- Molex
- Cinch
- and many more



Custom Manufactured to Your Specs

We understand that each project is unique and requires custom manufacturing down to the details. That is why we offer an array of quality wire, jacket and sleeve options. Whether you need a high temp cable for harsh environmental conditions or a less intrusive miniature cable, we work with you to meet your specifications and budget constraints.

Wire Options:



White wire with custom inkjet printing



Range of color wire options available



Wire gauges ranging from 28AWG to 2/0 stocked

Multi-Conductor Cable Jacket Options:



Cable Jacket Material	Description
SE00W	Flexible cord provides excellent protection against abrasion, the inside insulation and outside jacket are oil-resistant, and the cord is chemical, weather and water resistant.
S00W	Flexible cord is incredibly durable providing an oil-resistant insulation and weather and water resistant solution.
PVC	Polyvinylchloride - a thermoplastic jacketing material that has good mechanical strength and is resistant to chemicals.
TPE	Thermoplastic-Elastomer - excellent for flexing applications and offers very good resistance to oils and coolant.

Additional materials available upon request.

Sleeve Options:



Sleeve Material	Description
Braided Mesh Loom	Durable nylon sleeve provides high-level of cable protection against abrasion, chemicals, oil, heat and other elements.
Corrugated Loom	Flexible plastic sleeve protects against abrasion and pinching.

Custom
solutions.



Dependable
service.



Reliable
results.



Unsurpassed Knowledge and Engineering

Our dedicated team of specialists works hard to meet your harnessing needs, putting their expertise into every wire harness and cable assembly solution. Our knowledgeable in-house engineering team has the experience needed to properly select and size appropriate materials for various environmental conditions, electrical requirements and budget constraints. Each harness is custom made and tested to your desired specifications.

Leading-Edge Technologies

Our team is equipped with leading-edge technologies, advanced equipment and proven design tools. Our high-tech, in-house tooling allows us to accurately design cables to meet custom lengths and specifications.

Operators and trainers are IPC certified to ensure the highest quality standards are upheld.

Technologies include:

- Computer Aided Design (CAD)
(Drawings available in a variety of formats.)
- Computerized cutting and stripping equipment
- Automated testing equipment
- Inkjet printer for customizing wires and cables
- Custom labeling tools
- Accurate benchtop crimping presses
- Heat-shrink cutting, shrinking, and sealing equipment
- Large inventory of specialty tools



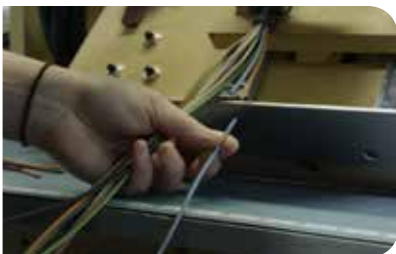
Unsurpassed Support

At FORCE America, we partner with you offering unsurpassed technical design and manufacturing support. We understand you have unique needs, tight timelines and are budget conscious. Our experience, capabilities, and multiple facilities allow us to serve you on-time and on-budget.

Wire and cable harnesses are engineered, assembled and tested at our modern facility in Waukesha, Wisconsin.



For more information or to order, contact your
FORCE America Sales Representative or call 1-888-99-FORCE.





1-888-99-FORCE

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Sales and Service Centers

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Charlotte, NC	800-788-8598	Fort Dodge, IA	800-362-2994	Philadelphia, PA	800-492-6621
Chicago, IL	800-433-5765	Kansas City, MO	800-383-4724	Salt Lake City, UT	877-230-0505
Columbus, OH	888-449-0356	Memphis, TN	888-845-5876		
Dallas, TX	800-893-7225	Milwaukee, WI	800-722-5844		

Atlanta, GA (Atlanta Powertrain™)	888-293-2325	atlantapowertrain.com
Seattle, WA (Mobile Equipment Systems™)	800-354-9028	mobileequip.com