

# INTERCONNECT SOLUTIONS

HIGH-RELIABILITY CABLES - WHEN FAILURE IS NOT AN OPTION!

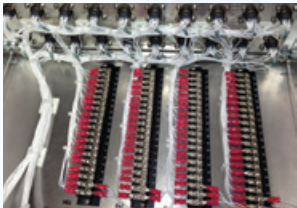
## Custom Cables and Electromechanical Assemblies



Founded in 1955, The First Electronics Corporation (FEC) has specialized in custom electrical assemblies for harsh environments for more than 60 years. During that time, we have remained focused on building high-reliability, molded cable assemblies. Our military and industrial customers leverage us for our rapid prototyping ability as well as our high-volume production capacity.



FEC has the capability to manufacture turnkey electro-mechanical assemblies and custom box builds in any quantity. We provide innovative solutions to complex electrical and mechanical packaging challenges for many prime military contractors and the Department of Defense.



Our cable assembly staff works hand-in-hand with our process engineers to provide the best solution for our Customer's needs. By combining custom cabling, reliable termination technologies, machine-woven braiding and robust over-molding, we strive to deliver a superior product to our customers.



## FEC Core Capabilities

- Custom, ruggedized, molded and shielded cable assemblies
- Complex, braided and shielded wire harnesses
- Polyurethane, Neoprene, Viton, Silicone, EPDM rubber molding
- Electromechanical assemblies and boxes
- Extensive mold inventory which reduces costly tooling charges
- CBRN compliant cables
- 100% electrical, mechanical and visual inspections
- Full environmental testing



THE FIRST  
ELECTRONICS  
CORPORATION

A TREXON Company

71 VON HILLERN STREET  
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400 WOOD ROAD  
BRAintree, MA 02184

CUSTOM ASSEMBLIES SINCE 1955  
ISO 9001:2015 • MFG CAGE: 14532  
IPC/WHMA-A-620 CERTIFIED • ITAR REGISTERED

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# FEC

## MANUFACTURING PROCESS

HIGH-RELIABILITY CABLES - WHEN FAILURE IS NOT AN OPTION!



True 360° Shield Termination

Electronic components for industrial and military applications must meet stringent EMI/RFI shielding requirements. FEC's **SCOLOR™** molded shield termination process is a true 360° soldered, metal-to-metal contact between the connector and tinned-copper shield braid. This process results in a very high shielding effectiveness not possible with metal adapters, tension bands or multi-piece mechanical backshells.



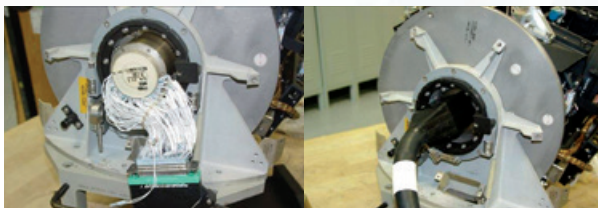
Precision Machine Woven Shielding

Our tinned-copper shield braids are woven directly onto the cable core using a braiding machine. This ensures a tight but flexible shield braid without solder joints or EMI windows.



Mechanical Backshell (far left) versus FEC Molded

The options for molded shapes and sizes are almost endless and molding is especially effective when space is limited or when cables are being designed around a finished product.



Before

After

Molding can simplify a complicated assembly and ensures reliability in the design. Molding maximizes your space limitations.



**RAPID PROTOTYPING - NO MINIMUM BUYS!**



### Sales Contacts

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