

# Qualastat Electronics Inc.

Professionally Designed and Manufactured  
Interconnection Systems



## Qualastat West

6825 W. FRYE ROAD  
CHANDLER, AZ 85226  
717-253-9301



## Qualastat East

1270 FAIRFIELD ROAD STE 50  
GETTYSBURG, PA 17325  
717-253-9301



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# Introduction

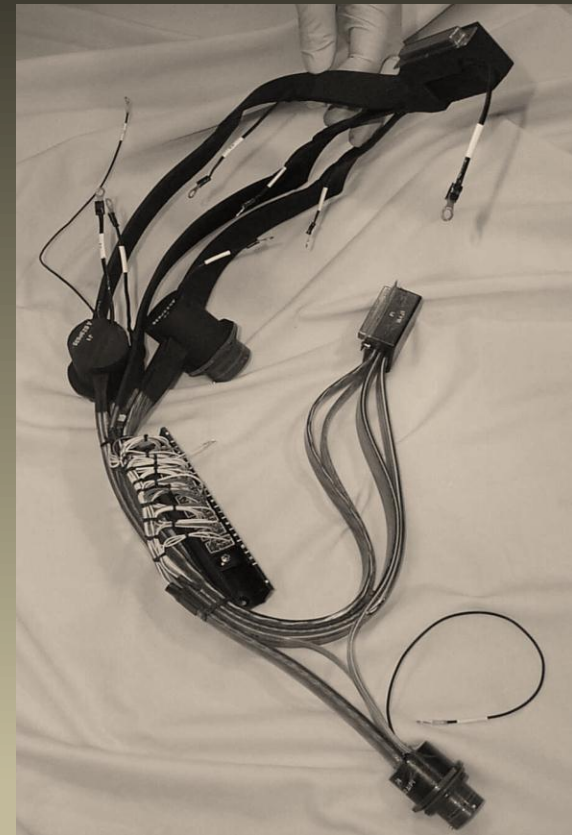
- Founded in 1986
- Two locations: Gettysburg PA, Chandler AZ

## Services include:

- Engineering and Design Support
- Assembly and Manufacturing
- Custom Molding, Braiding, and Soldering
- Testing & Evaluation (In-house environmental and dynamic testing)
- Project Management

## Core Competencies:

- Cable Assemblies
- RF Assemblies (semi-rigid and flexible cable)
- Fiber Optic Assemblies
- Wire Harness (including Wired Mechanical)
- Flexible Circuit Assemblies
- Electro-Mechanical, Box, Cabinet, Panel Integration



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# QUALASTAT'S MISSION

*To be both a premier supplier of interconnection systems and a company run for the benefit of it's customers and employees.*

## OUR PROMISE

- ✓ *We will conduct ourselves ethically in all of our business ventures, maintaining the highest levels of honesty and integrity*
- ✓ *We will cultivate long-standing relationships with customers by delivering on commitments, producing our products at a fair price, and assuring the highest quality of each product.*
- ✓ *We will provide our employees with a nurturing and rewarding environment that will enable them to achieve the rewards of personal and professional growth.*



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# Quality and Commitment



ISO9001:2008 Registered



IPC/WHMA-A-620 compliant



IPC J-STD-001/E certified

Modeled after MIL-I-45208A

Various customer supplier awards

NDIA member



Promoting National Security Since 1919

# Customers

Qualastat supports a broad spectrum of customers and partners in various fields like Defense, Aerospace, Geophysical, Industrial, Marine, Surveillance, Communications. Some of Qualastat's customers include:

Lockheed Martin

Ducommun

Northrup Grumman

SPAWAR

Halliburton

Department of Defense

Textron

Federal Aviation Administration

Dover

SAIC

Cobham

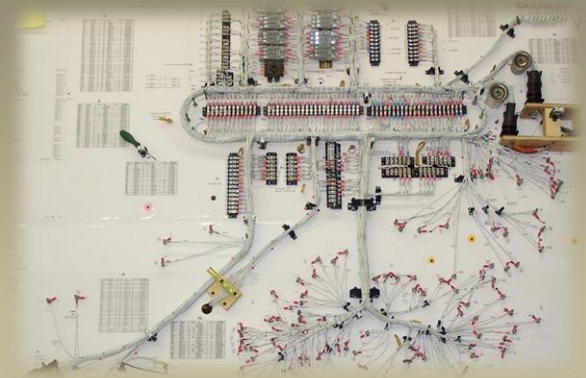
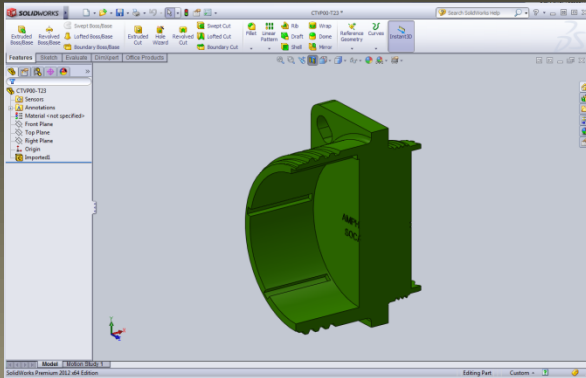
General Electric



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# Engineering Support



- New Part Introduction
- Electrical and Mechanical Design
- Documentation and Technical Writing
  - Circuit and Wiring Diagrams
- 3D CAD modeling and analysis using SolidWorks Premium with routing
- CAD Template Drawings to Scale
  - Flat Harness Layout
  - Flat Harness Drawing
- Development and Prototyping
- Reverse Engineering
- Testing and Evaluation
  - Continuity & Hi-pot
  - Phase matched
  - S-parameter
  - Environmental Testing
- Integration and Installation
  - Field support
  - Problem Reporting



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# Cable Assemblies

- Molded
- Environmental
- Repairable
- Braided
- Shielded - EMI/RFI
- Communication
  - CAT 5E, CAT6
- Power
- RF Assemblies
  - Semi-rigid
  - Phase matched
  - Time delays
  - Flexible, high performance
- Fiber optic



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# Molded Cable Assemblies

- 3D Molded Configurations
  - Infinite Shapes And Sizes
- Molded Mil-Spec Polyurethane & Epoxy
- Environmental Enhanced Protection
- Strain Relief
- Excellent Bonding
- Large library of existing designs and parts



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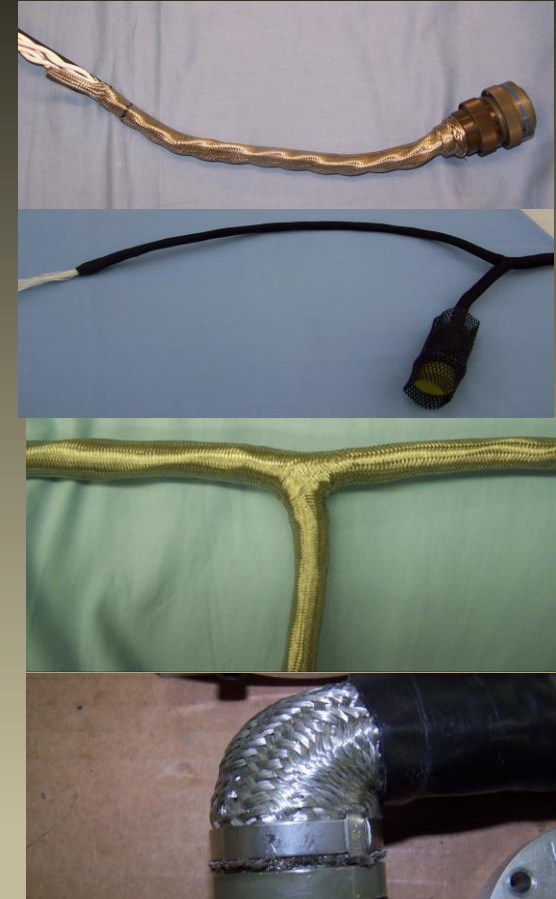


# Field Repairable Backshells



- Service loop integration
- Field repairable based on customer requirements
- Metallic and fabric braid
- Shielding for EMI/RFI
- Multiple carrier options

## Braided



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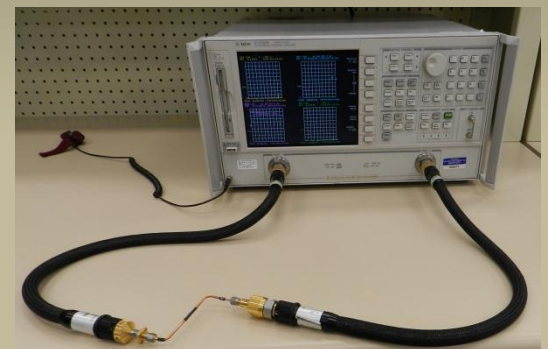
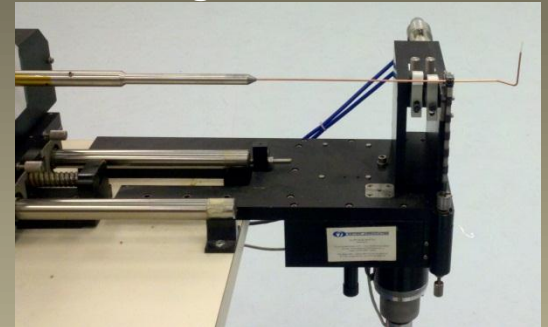
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# RF - Flexible & Semi-rigid

- Manufactured application specific
- Reverse engineering from x, y, z coordinates
- Program stored and repeatable
- Springback calibration within  $1^{\circ}$
- No tooling change
- Induction solder or crimp
- S2p files and s parameter printouts available
- Phase matched if required



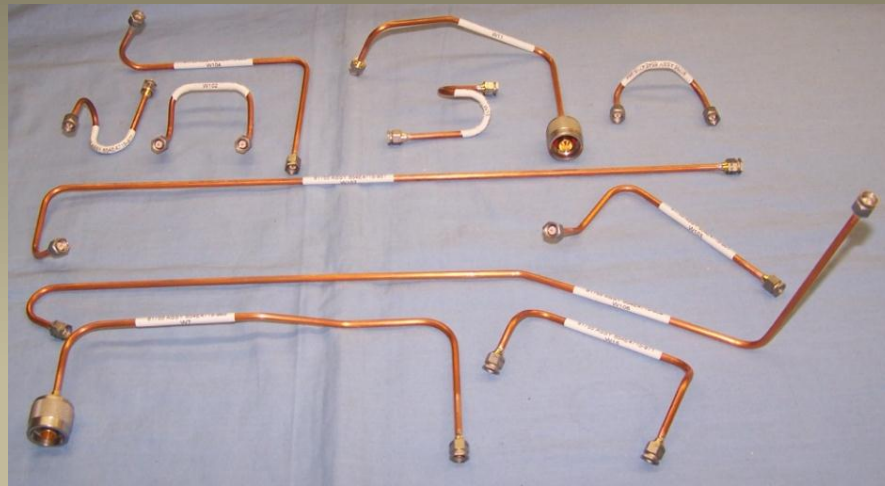
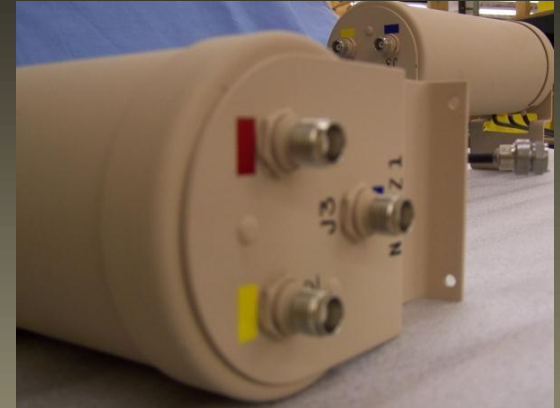
Semi-rigid Auto-bender



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# RF Semi-Rigid Cable Assemblies

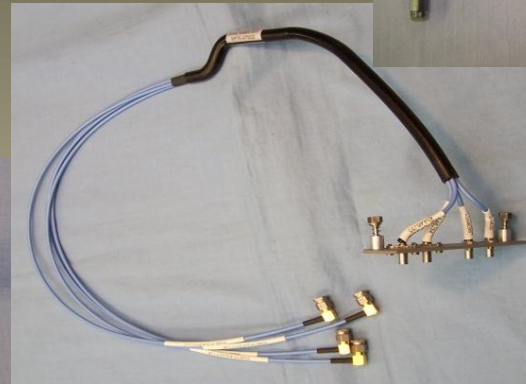


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# Flexible RF Cable Assemblies

- Application Appropriate Materials
- High Performance Materials As Necessary
- Solder or Crimped Connectors
- Various Connectors/Contacts
- Molded as required

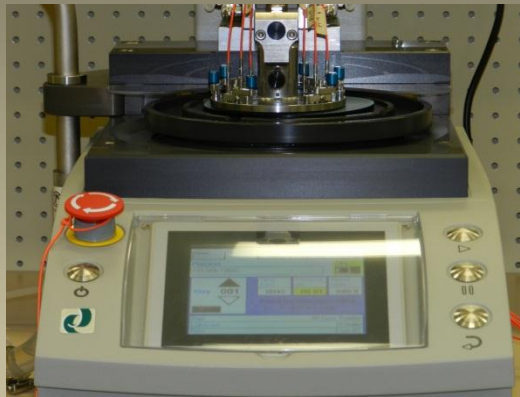


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# Fiber Optic Assemblies

- Single Mode
- Multi-Mode
- Loose-tube Construction
- Tight-buffer Construction

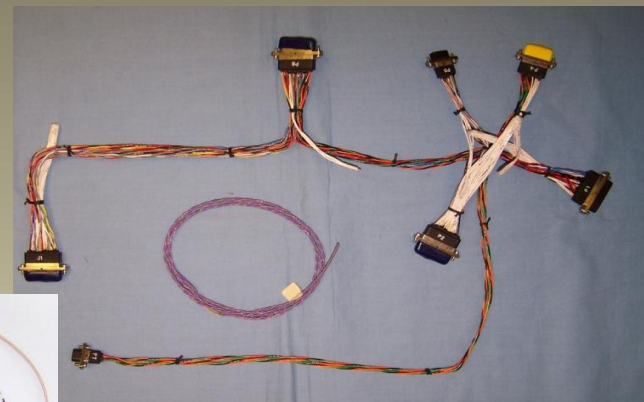
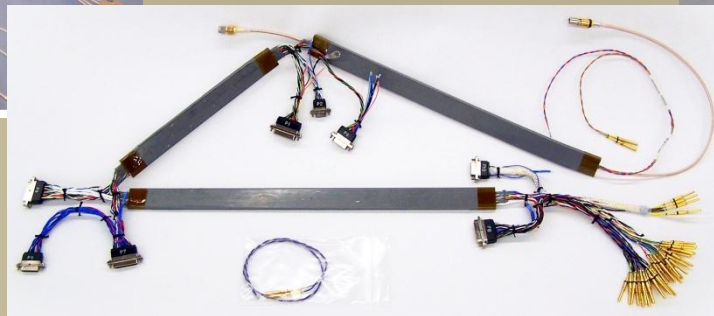
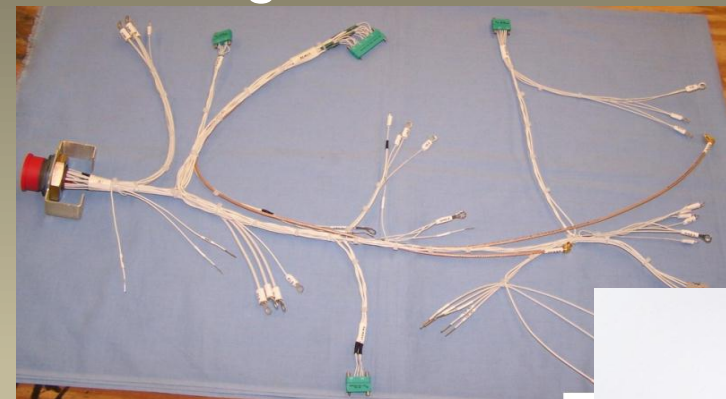


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# Wire Harness Assemblies

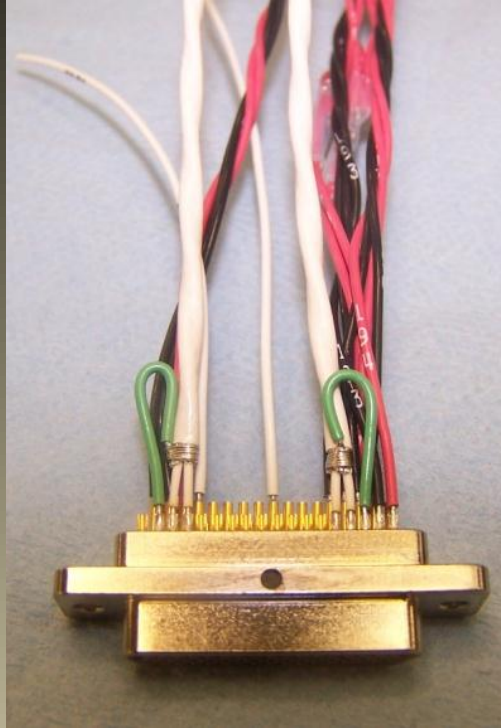
- Custom headers
- Electronic component integration
- Test board fixturing
- Installation simulation
- Lacing
- Potting and molding
- Mixed Materials and Processes
- Printed Nail-board Drawings
- Electrical Tests on Board



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# Micro-D Connector Assemblies



- Any Custom Configuration
- Mixed Materials and Processes
- Various Mold Configurations
- High Temperature Versions

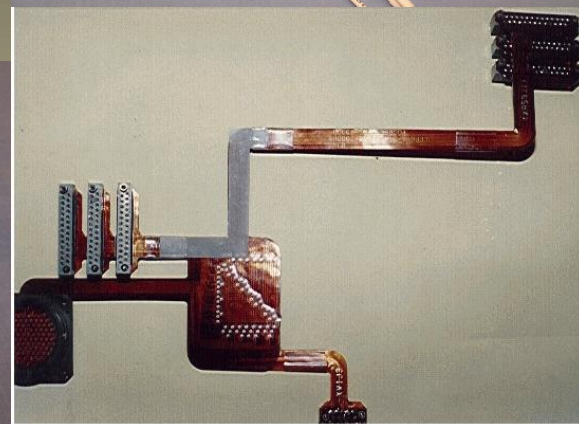
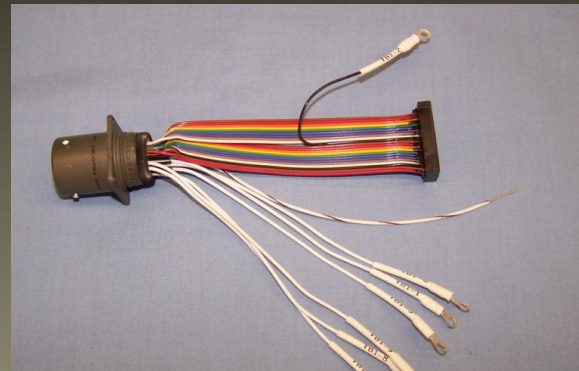


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# Flexible Circuit Assemblies

- Category 1 thru 5
- Engineering support
- Artwork design
- Shielded
- Custom header assemblies
- Potted

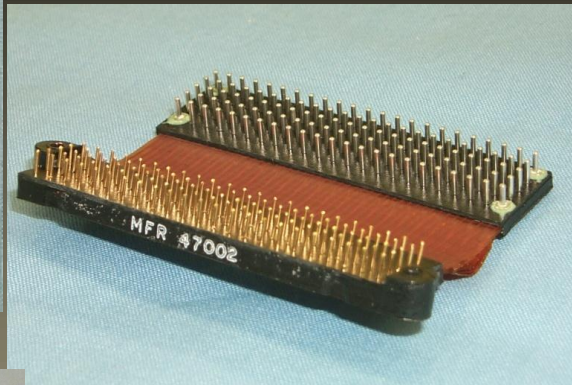


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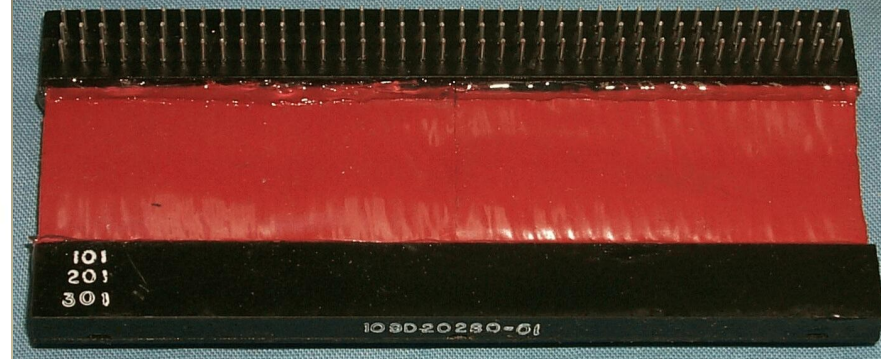
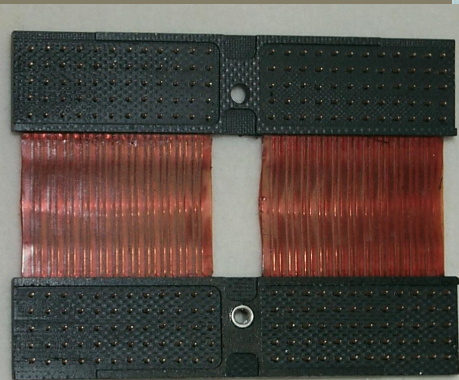
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# Flexible Circuit/Custom Headers



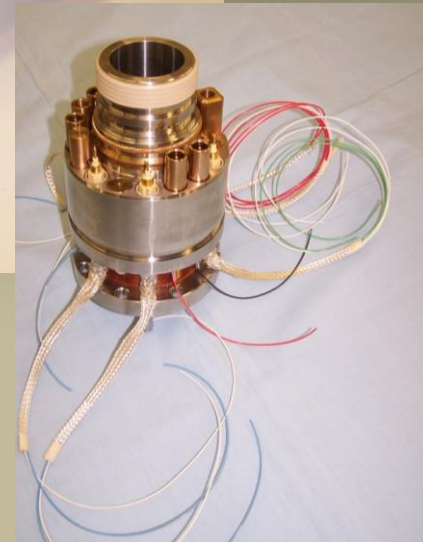
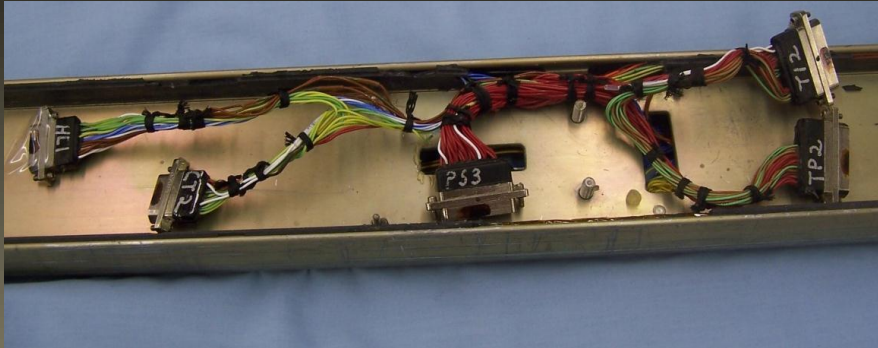
- Machined Headers
- Solder or Insertion Contacts
- Molded Mounting Inserts
- Book Binder Configuration
- Custom Silicone Cable



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# Wired Mechanical Assemblies

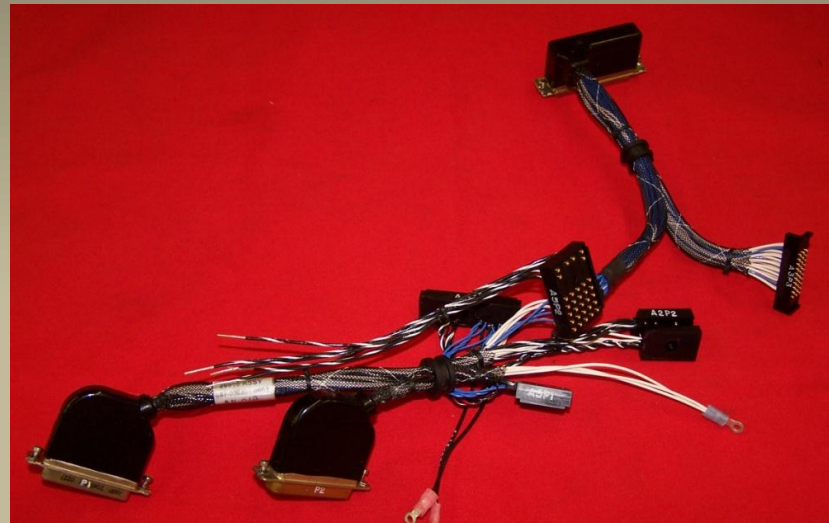
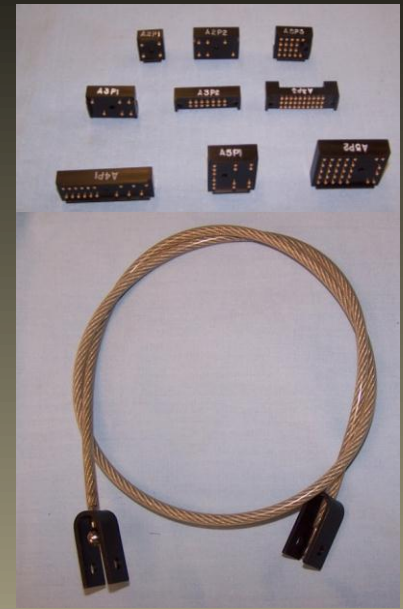


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# Unique and Special Assemblies

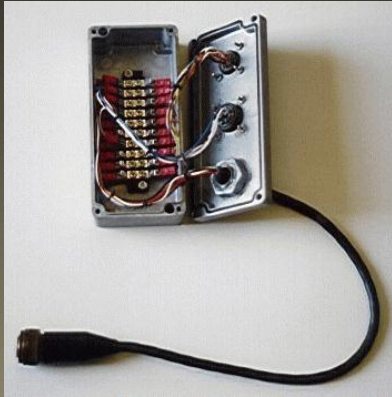
- Any Custom Configuration
- Mixed Materials and Processes
- Machined Contacts for Test Pins
- Machined Header Assemblies



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# Electronic Cabinet Integration



- I/O Panel Design And Fabrication
- Control and Junction Box Wiring
- EMI Design And Construction



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# Test / Meter / Breakout Boxes



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# Qualastat Electronics Inc.

Your Interconnection Specialists

Let us know how we may be of service to you.

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