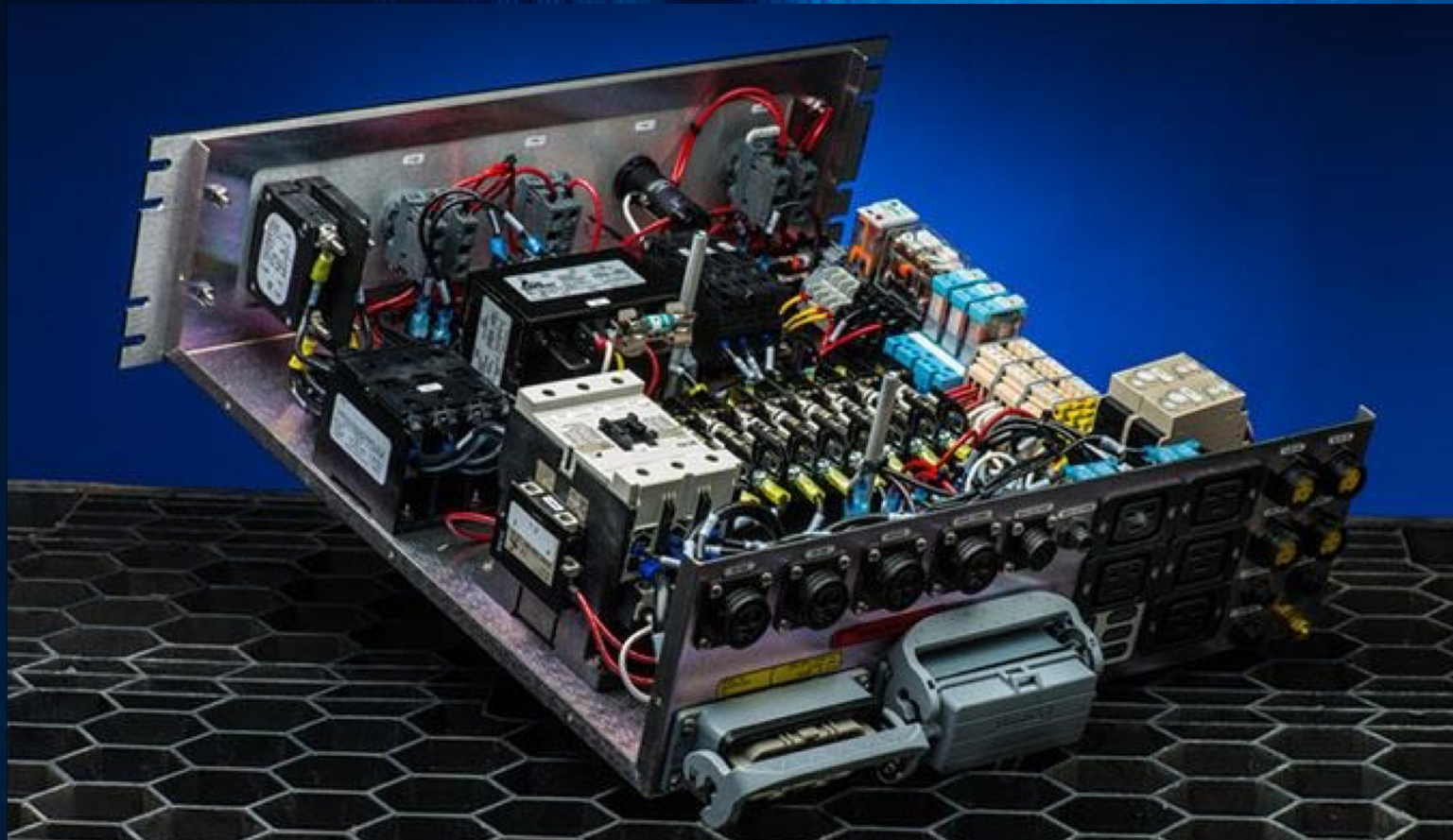


<http://www.fourstarconnections.com/>



***A Premier "Solutions-Focused" EMS Partner***

## *Global Footprint*

- Hudson, MA (Corporate Headquarters & Manufacturing Plant)
- Tijuana, Mexico (Low-Cost Manufacturing Plant)
- San Diego, CA (Warehouse, Stocking, Distribution & Logistics)
- China Partner Low-Cost Manufacturing Plants:
  - Shenzhen
  - Suzhou
  - Dongguan

## Hudson, MA

*Creating strategic advantage for our customers through integrity, commitment, ingenuity / innovation, total-cost optimization and time-to-market proficiency...*

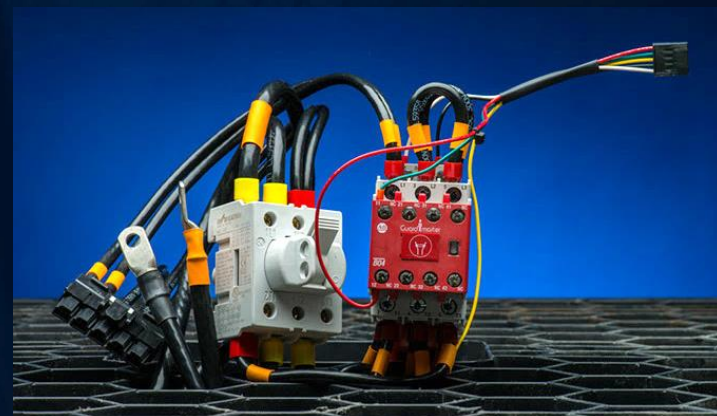
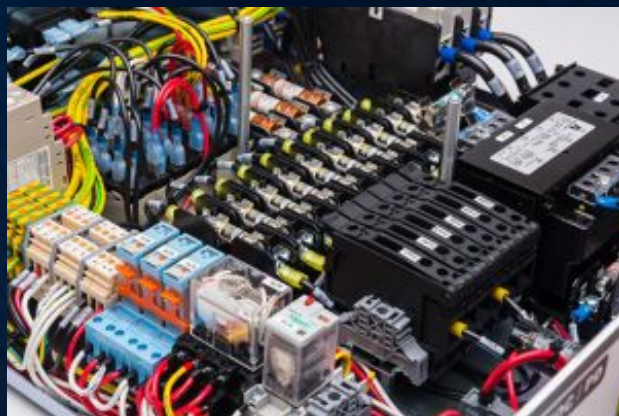


- **28,000 Sq. Ft. LEAN Manufacturing Plant (ISO 9001:2008, IPC-620, UL, CSA, ITAR, RoHS)**
- **Comprehensive Project Management & “Solutions-Focused” Customer Support**
- **NPI, Quick-Turn; Prototypes; Pre-Production & Fully Scalable Production**
- **Local & Dual-Continent Low-Cost Region Manufacturing**
- **Robust Disaster Preparedness / Recovery**
- **Comprehensive Inventory, Supply Chain & Logistics Management**
- **Design-For-Manufacturability & Total-Cost Optimization**
- **Engineering, CAD/SolidWorks, Electro-Mechanical Packaging & Documentation Services**

## Turnkey Box-Build & Electro-Mechanical Assembly

*Fourstar's "Solutions-Focused" model, ingenuity & know-how equips our OEM customers with a distinguished portfolio of tools to drive their success...*

- Electronic Box-Build, Test Boxes, Control Panels, Power Trays, etc.
- Engineering / DFM / Development of Sub-Assembly Structure & Process Documentation
- Inventory & Supply Chain Management
- Functional Testing





# Custom Cable Assemblies

*Fourstar has been manufacturing a diverse range of the industry's highest quality interconnect products for 30 years... We specialize in challenging and high-performance IPC-620 Class 2 and Class 3 applications...*

Low Pressure / Low Temperature Over-Molding

Discrete Wire Assemblies

Potting

Coaxial / RF

Laminated

Mil-Spec



I/O, Power & Signal

Heavy Gauge

Computer, LAN, USB, Video, Audio

High Density & Standard Ribbon

Complex Wire Harnesses

Custom Applications

# Discrete Wire Cable & Harness Assemblies



*We specialize in discrete wire cable assemblies & harnesses. From simple to complex, Fourstar gets it done competitively and on-time...*

- Custom Back-Wired Harness Boards - 100% Automated Electrical Test / Validation
- Extensive Crimp Tooling, High-Speed Wire & Cable Processing and Ink Jet Marking Equipment
- IPC-620 Class 2 & Class 3



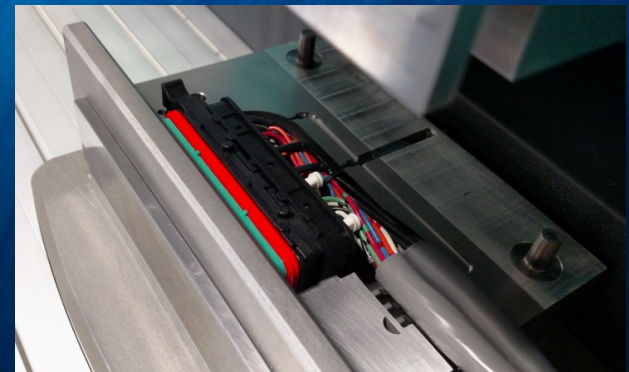
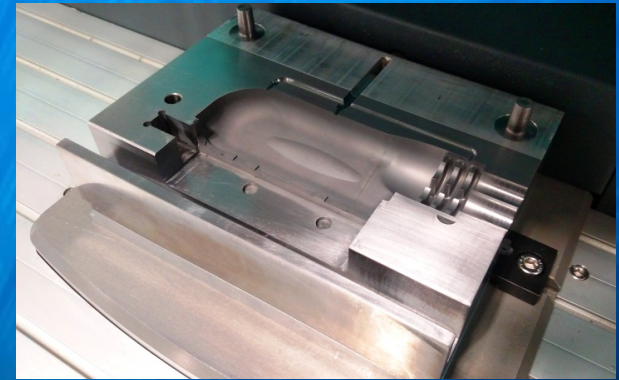


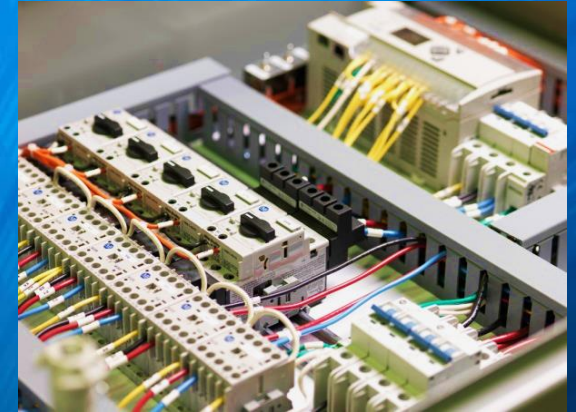
# Low Pressure Low Temperature *Over-Molding*

*Fourstar provides competitive custom mold design services and innovative turnkey molding solutions...*

**Our Low Pressure / Low Temperature Over-Molding Capability Provides Creative Solutions to Challenging Applications:**

- **Wide-Range of Polyamide Compounds For Demanding Performance Requirements**
- **Outstanding Adhesion and Thermal Conductivity**
- **UV & Solvent Resistance**
- **Molded-In Logos & Nomenclature, Surface Finish Options**
- **Ideal For Over-Molding Sensitive PCBA's**





# Design-For-Manufacturability

## *Building In Quality & Driving Cost Reduction Through Preemptive Design...*

*Fourstar helps you navigate DFM and manufacturing challenges with innovative solutions, reducing labor & cost while increasing quality, reliability and product performance...*

- **Component Assessment / Compatibility Evaluation & Identification of Alternate Materials**
- **Ensuring Compatibility With Automated Manufacturing & Test Processes**
- **Optimizing Sub-Assembly Structure, Processes, Testing / Validation & Efficiency**
- **Consistent / Repeatable Efficiency, Quality, Reliability & Product Performance**
- **Compliance With RoHS and Applicable Regulatory & Performance Requirements**





# Quality

*Quality begins with the design... Fourstar works with you to ensure a manufacturable design - optimizing quality, reliability and product performance...*

- **Certified ISO 9001:2008 QMS / AS9100 Compliant**
- **IPC-620 Workmanship (Class 2 & Class 3), J-Standard Soldering, UL / CSA**
- **Commitment To Continuous Improvement & Robust CAPA Methodology**
- **Comprehensive First Article Documentation**
- **RoHS / Regulatory Compliance**
- **100% Continuity Test - Up-Front Development Of Test Fixtures & Test Programs**



# Testing

*Fourstar's network of Cirris Easy Wire CR Testers provides the highest level of test functionality and reliability in the industry...*

- **100% Automated Continuity Test - All Test Programs Are Stored On a Secure Server**
- **Read-Only Test Program Protection / Scan Access / Full Traceability / Secure Sign-In Credentials**
- **All Test Data is Archived / Retrievable**
- **Product Serialization & Customized Test Reporting To Meet Specific Customer Requirements**
- **Box-Build & System Level Functional Testing**
- **Custom Back-Wired Harness Forming Boards - 100% Automated Testing, Form / Fit Verification**
- **Hi-Pot Testing to Specific Customer Requirements**

**Awareness  
Vision  
Focus  
Commitment...**



*Fourstar is developing innovative solutions for a wide range of manufacturing needs, while being mindful of our environmental footprint and social impact...*

- Awarded 1<sup>st</sup> MA Workforce Training Grant For Supply Chain Sustainability
- Socially Responsible Initiatives – Giving Back To Our Community
- Focused On Positively Impacting Our Workforce, Customers, Supply Chain and Planet
- Reducing Our Carbon Footprint:
  - Installed 110KW Solar Array
  - Reduced Our Grid Electricity Consumption By 73%



## *Tijuana, Mexico*



- 25,000 Sq. Ft. of LEAN Manufacturing
- ISO 9001:2008, ISO 13485:2003, IPC-620, UL, CSA
- 3,000 Sq. Ft. ISO 14644 Clean-Room
- Cable Assemblies, Wire Harnesses, Electro-Mechanical Assembly, Full Turnkey Box Build
- Modular “Flex-Cell” Manufacturing Environment
- Paperless Manufacturing Execution System
- Focus On Medium-to-High Volume Production
- Fiber Optic Assemblies (Cut, Polishing & Test)
- Automated High-Speed Wire Processing
- Semi-Automated Terminal Crimping
- 100% Computerized Testing
- Ultrasonic Welding
- Molding & Potting
- Cable Braiding

## San Diego, CA



- 4,000 Sq. Ft. Warehouse
- Stocking / Distribution Center For All Finished Goods Produced In Mexico
- All Products Built In Mexico Ship To Our Customers FOB San Diego, CA
- Close Communication & Coordination With Stateside Team
- Order Fulfillment
- Logistics Management
- Cost & Lead-Time Optimization:
  - ✓ Product Mix
  - ✓ Supply Chain



- Shenzhen (8,000 Sq. Ft.)    ▪ Suzhou (20,500 Sq. Ft.)    ▪ Dongguan (7,000 Sq. Ft.)
- Cable Assemblies, Wire Harnesses, Electro-Mechanical Assembly, Raw Wire & Cable
  - ISO 9001:2008 / TS16949:2009 - QMS
  - ISO 13485 - Medical Device
  - ISO 14001:2004 - Environmental Management System
  - GB/T28001-2001 - Occupational Health & Safety Management System
  - UL, CE, CSA, VDE, RoHS Compliance

# Industries Served

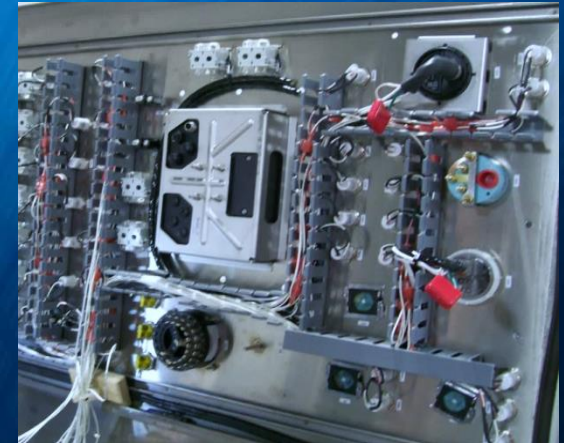
**Robotics**



**Military & Aerospace**



**Industrial /  
Automation Control**



**Storage & Networking**



**Medical**



**Instrumentation**



## *The Fourstar Advantage*

- ✓ Experienced Team of Industry Professionals
- ✓ “Solutions-Focused” Customer Support
- ✓ Engineering / DFM / Total-Cost Optimization
- ✓ Integrity / Ingenuity / Innovation / Know-How
- ✓ Extensive Tooling, Equipment & Capabilities
- ✓ NPI, Quick-Turn, Prototypes, Low-To-High Volume / Fully Scalable Production
- ✓ Highly Skilled Local & Dual-Continent LEAN Low-Cost Region Manufacturing
- ✓ Replenishment / Kanban / JIT Programs Tailored To Your Specific Needs
- ✓ Sustainability & Social Responsibility
- ✓ ISO 9001 Certified QMS / AS9100 Compliant / IPC-620 / UL & CSA / RoHS / Continuous Improvement / Industry-Leading 100% Automated Electrical Testing
- ✓ Our Reputation - Celebrating Our 30 Year Anniversary 2017







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[www.fourstarconnections.com](http://www.fourstarconnections.com)

**It Would Be Our Pleasure To  
*Assist You in "Finding a Better Way"...***

***Thank You...***