



LEARN MORE

Technology

Conductors & Cables

- Conductors**
- Insulated and Bare Wire to 60 AWG
 - Thermocouple Wire
- Cables**
- 2-528 Conductors in Coax
 - 2-130 Conductors for Composite
 - Round, Flat or Square Cable Depending on Equipment Space
 - Capacitance within the 55-95 pF/m Range for Ultrasound Probes
 - Single Wires and Coaxial Cables in Various Constructions for CCD Cameras
 - MRI Safe Materials Available
 - Bundles with Identification Thread
 - Colored insulation or Specific color by Micro-coax
 - Antimicrobial options
 - Dielectric: Fluoropolymers, PE, Foam PE
 - Outer sheath: Fluoropolymers, Polyurethane, PE, PVC
- Wire Technologies**
- Precious Metal Wire
 - Monel / Inconel Wire
 - Cladded and Plated Wire
 - Litz Wire
 - PTFE Coated Mandrels
 - Micro Coils



Technology

Injection Molding

- Clean Room Molding with 40 to 240 Ton Presses
- Standard, Micro, Insert and Two Shot
- Mold and Process Validation Capabilities in House
- Proprietary Textures Etched into Molds to Increase and Decrease Lubricity
- Materials: Polyurethanes, Polyethylenes, Polycarbonites, Polysulfones, Polypropylenes, PVCs, PEEK and ULTEM



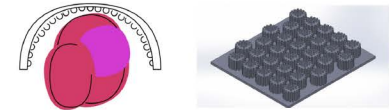
Coatings

- Continuous and Discrete PTFE Processes
- Proprietary Electrosurgical
- Lubricious
- Hydrophillic
- Anti-microbial
- Permanent Marking
- Substrates: Metal, Silicone, Polyisoprene, Polymer Catheters



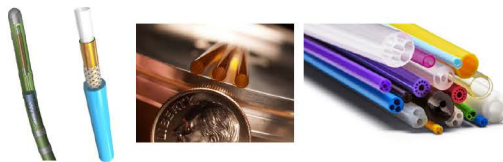
Micro Surfaces

- Prevent Implant Migration
- Prevent 'Seeding' of Balloons
- Improve Grip of Surgical Tools and Jaws
- Substrates: Metals, Silicones and Thermo Plastics



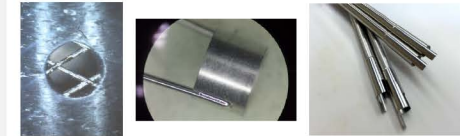
Catheter Tubing

- Tightly toleranced Multilumen and Profile Extrusion
- Deflectable, Balloon and Smart Catheters
- Braid and Coil Reinforcement
- Thermoset Polyimide Tubing
- Electrophysiology and Sensing Devices



Laser Services

- Ablation
- Cutting
- Welding
- Marking
- Drilling
- Materials: Steels, Nitinol, Plastics



Machining

- Laser Micro Machining for Needle and Hypo-tube Fabrication
- Laser Cutting
- Laser Welding
- 5 Axis CNC Swiss
- Wire EDM
- Surface Grinding
- Full Cleaning, Passivation, and Electropolishing Capabilities
- Materials: Steel, Nitinol, Titanium, Cobalt Chromium



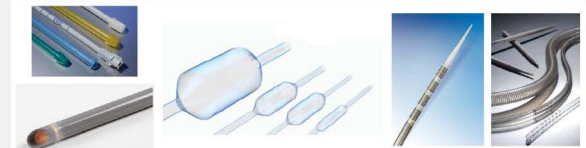
Contract Manufacturing

- Assembly
- Packaging
- Fulfillment
- Sterilization Management
- Microelectronics



Secondary Operations

- Hubbing, Tipping, Flaring, Porting, Skiving and Printing
- Reflow and Wire Reinforcement
- Dipped Structures
- Blow and Dip Molded Balloons




























PRINCIPIAMED®



LEARN MORE

Our Partners

 <p>ADROIT USA INC CUSTOM MEDICAL DEVICES</p>  <ul style="list-style-type: none"> Off-Shore Molding + Overmolding, Hypotube Machining, Cannula, and Trocars 	  <ul style="list-style-type: none"> 4 and 5 Axis Precision Machining Swiss EDM Milling Finishing 	<p>ELEKTRISOLA Medical Technologies</p>  <ul style="list-style-type: none"> Polyimide (Kapton) Tubing Braided, Coiled, PTFE Lined and/or Polymer Coated Polyimide Tubing Coated Mandrels Silver Plated Copper Mandrel Wire
  <ul style="list-style-type: none"> Microgrip® Surfaces Hoowaki® Low Friction Surfaces RNA Collection Swabs 	  <ul style="list-style-type: none"> Tightly Toleranced Multilumen and Profile Extrusion Deflectable, Balloon and Smart Catheters Electrophysiology and Sensing Devices Microelectronics and Coils Miniature Molding Clean Room Assembly, Packaging and Labeling 	  <ul style="list-style-type: none"> Deep Learning Visual Inspection Custom Material Development PVD for Wear / Corrosion Resistance and Electrical Insulation PVD Deposition of Metals and Ceramics
  <ul style="list-style-type: none"> Micro Molding Micro Machining Micro Insert & Over Molding Micro Subassembly 	  <ul style="list-style-type: none"> Bare and Coated Wire to 60 AWG Single, Bonded, Twisted and Shaped Wire Wire Cutting, Straightening and Laser Ablation 	  <ul style="list-style-type: none"> Coaxial Cables Micro Cables Optical Cables Hybrid Cables
  <ul style="list-style-type: none"> Laser Cut Tubing Laser Welding Laser Marking Wire Stripping Polymer Ablation 	  <ul style="list-style-type: none"> Catheter Tipping, Flaring, Printing and Porting Device Assembly Multi-layer Cannula Wire Reinforced Cannula Plastic and Silicone Dipping Plastic and Silicone Overmolding Semi-automated Design and Manufacturing 	  <ul style="list-style-type: none"> PTFE Coating Lubricious Coatings for Metals, Wires, and Plastics Hydrophilic Coating Antimicrobial Coating