

MEDICAL & DENTAL DEVICE CABLES



The Medical and Dental Device market has created some of the most technologically advanced cable designs, which must meet some of the most exacting requirements for performance, flexibility, reduced size and mechanical toughness.

Orion Wire has worked with Device OEMs, Contract Manufacturers and Stocking Distributors to create custom engineered wire and cable solutions to meet such demands while keeping each design affordable.

From a phone call, a penciled sketch or a completed drawing, we have the ability to work with you to find the optimal solution for your unique application.



CUSTOM DESIGN OPTIONS

Conductor Sizes and Materials:	44 AWG—4/0 AWG Stranded Bare, Tin, and Silver Plated Copper, Stainless Steel, Resistance Wires and Custom Alloy Wires
Insulation and Jacket Materials:	Polyolefins, PVC, Polyurethane, Polyester, TPE/TPR, ETFE, FEP, PFA and Silicone Rubber <i>USP Class VI Compounds Upon Request</i>
Shielding Options:	Foil Tapes; Braided or Served in Copper, Alloy Wire or Stainless Steel depending on your Application Requirements.
Design Options:	Flexible Lead Wires Insulated Litz Wires High Voltage Coaxial and Triaxial Cables Multi-Conductor Composite Cables per Customer Requirements

NOW OFFERING PARYLENE COATINGS ON CUT-TO-LENGTH CABLES.

Parylene, a generic name for a set of organic polymers, is a chemically inert coating that offers a host of advantages to Medical/Dental Device manufacturers.

Key Characteristics:

- USP Class VI Biocompatible Polymer
- FDA Drug and Device Master Files
- RoHS Compliant (2002/95/EC)
- Excellent Dry Film Lubricity
- Hydrophobic
- Chemically Insoluble
- Thermally Stable
- Low Gas and Moisture Permeability
- Sterilized By Steam, EtO, E-Beam, Gamma, Plasma

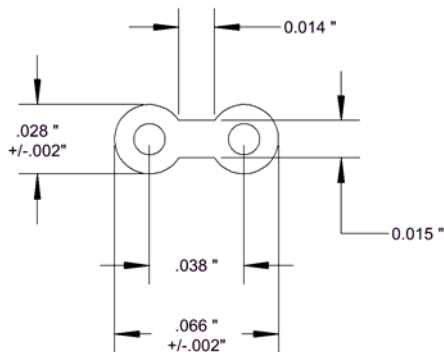
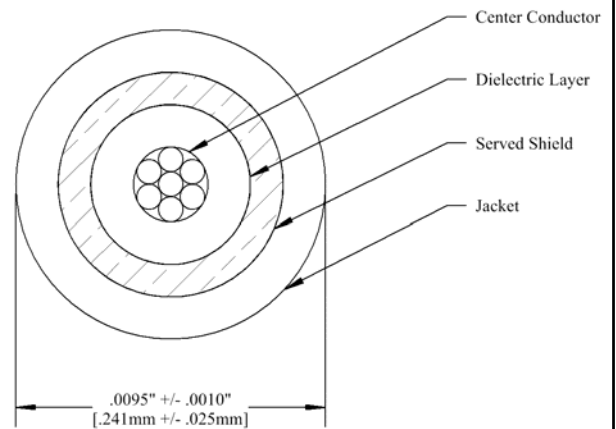
Applications:

Can be applied over cables with Silicone Rubber, TPR, PVC or Polyurethane Jackets
 Available on Cut Lengths from 1 to 20 Feet (30 cm to 18,3 meters)

The more challenging the application, the better we perform!

Ultra-Miniature Coax

<u>Physical Properties</u>	<u>Material</u>	<u>Dimensions inches (mm)</u>
Center Conductor:	44 AWG Stranded Silver Plated High-Strength Copper Alloy	.0023" (.058) nom
Dielectric Layer:	PFA	.0049" (.124) nom
Served Shield:	50 AWG Silver Plated High-Strength Copper Alloy	.0069" (.175) nom
Jacket:	PFA	.0095" (.241) nom
Notes:	<i>Designed to fit inside a #3 French Catheter</i> <i>Electrical Specification Available Upon Request</i>	



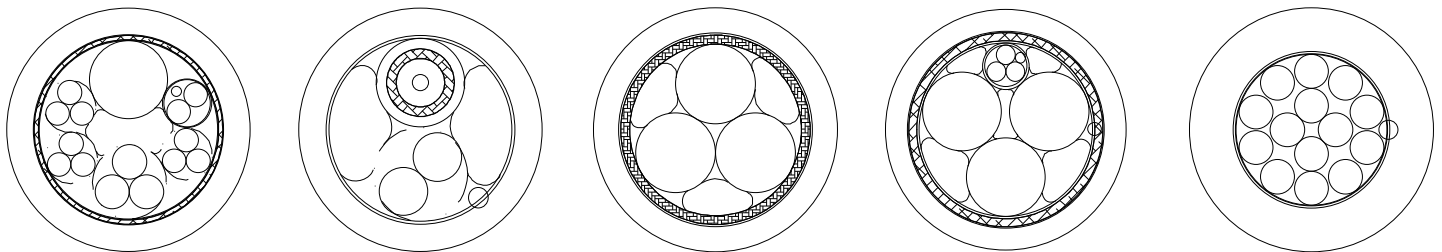
Single-Use Zip Cords

Manufactured with a variety of conductor sizes and insulating compounds, single-use zip cords offer a cost effective solution for patient monitoring applications. The diagram as shown depicts a 2 Conductor / 28 AWG cable manufactured with ultra-fine stranding (25 strands / 44 AWG Bare Copper) and a flexible PVC insulation.

Zip cords can be manufactured per customer's specifications and be provided with a polarity rib or stripe to ensure proper orientation of the cable for assembly and ease of use in the field.

Custom profiles and color matching are also available. Please forward your requirements to our office for evaluation and advice regarding available options for your project.

Multi-Component Composite Cables



Orion Wire has provided custom engineered Multi-Component Composite Cables for a variety of applications including:

- Patient Monitoring
- Powered Surgical Tools
- Video-Based Applications
- Laser & RF Ablation Applications
- RF Pain Elimination Applications
- MRI Equipment Cables
- Neo-Natal Monitoring Cables
- Diagnostic Equipment Cables
- Proprietary Applications

From prototype to production we have the knowledge and experience to provide you with the optimal design solution for your application. Please forward your design requirements by e-mail or fax to our office for a prompt evaluation and design suggestion.

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We look forward to working with you on your next project.