

How to Contact Us:

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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

USP Class VI Compounds

Upon Request

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

The more challenging the application, the better we perform!

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)



Custom Engineered Company, Inc. Cable Examples **Cable Examples**

Ultra-Miniature Coax

Physical Properties	<u>Material</u>	Dimensions inches (mm)
Center Conductor:	44 AWG Stranded Silver Plated	.0023" (,058) nom

High-Strength Copper Alloy

Dielectric Layer: PFA .0049" (,124) nom

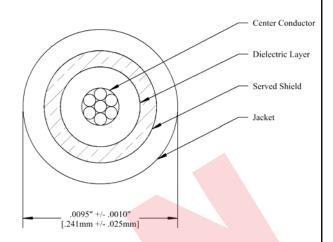
Served Shield: 50 AWG Silver Plated

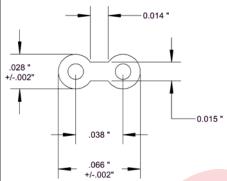
High-Strength Copper Alloy

Jacket: PFA .0095" (,241) nom

Notes: Designed to fit inside a #3 French Catheter

Electrical Specification Available Upon Request





Single-Use Zip Cords

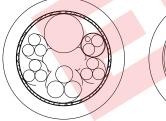
Manufactured with a variety of conductor sizes and insulating compounds, single-use zip cords offer a cost effective solution for patient monitoring applications. The diagram as shown depicts a 2 Conductor / 28 AWG cable manufactured with ultra-fine stranding (25 strands / 44 AWG Bare Copper) and a flexible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

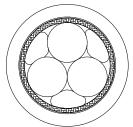
Custom profiles and color matching are also available. Please forward your requirements to our office for evaluation and advice regarding available options for your project.

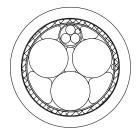
Multi-Component Composite Cables

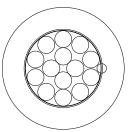
.0069" (,175) nom











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.

> E-mail: info@orion-wire.com Fax: +1 603.787.2221 Phone: +1 603.787.2200

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