

# NEW PRODUCT

## Neuroleads Join Bioconnect Product Line



- Recessed touch proof sockets molded over gold plated 1.5mm BeCu spring contacts
- Meet DIN 42-802 requirements and AMXI/AAMI EC53 specifications
- Gold plated, 10mm disc electrodes
- Tangle-resistant easy-clean jacketed wires with flexible strain relief at both ends
- IEC 60601-1 compliant for patient safety

**BIOCONNECT NEUROLEADS** with disc electrodes are designed for non-invasive cutaneous neurological assessment with active and reference Electromyography (EMG), Electroencephalograph (EEG) and Evoked Potential monitoring and recording equipment. The tangle-resistant, high conduction wires have multi-stranded center conductors for maximum flexibility and low signal loss. Neuroleads will be available in a selection of jacketing materials, ten color options, packaged in standard sets or single bulk packs, and in lengths of 48", 60", 72", 96" or 120".

FDA Bioconnect is an FDA Registered Manufacturer.



# Your Bioconnection

A Letter of News and New Products for Medical Professionals Volume 3 / No. 1

## Your custom needs are our working orders

AT BIOCONNECT we look forward to solving your custom connector needs. We specialize in manufacturing cable assemblies to your specific requirements. We can use the existing yoke and connector components shown below or create something unique for your exact situation. Materials include medical grade Santoprene® (thermo-plastic rubber) jackets, shielded and unshielded cables with copper or beryllium copper contacts. Assemblies may be terminated with DIN, circular connectors or custom connectors.

Bioconnect is an FDA Registered Manufacturer.  
Santoprene is a registered trademark of Advanced Elastomer Systems.



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### Medical Patient Cables

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### Newly Updated Medical Cable Products Catalog

- Expanded product line
- Expanded device manufacturer cross-reference
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YOUR BIOCONNECTION  
Linda Heida, Editor

## NEW CAPABILITIES



### Complex Harnessing: 288-Lead Cable delivers input for cutting edge ECGI Technology



**ELECTROCARDIOGRAPHIC IMAGING (ECGI)** technology is a new application recently addressed by the Bioconnect manufacturing team by their fabrication of a 288-lead cable array used to collect physiologic signals to be used in cardiac evaluation. The 288 sensors transfer signals to six amplifiers that are used to display complex waveforms that can be studied for potential correlation to existing or perceived cardiac conditions. This assembly is currently used in research settings where effects of medications on electro-physiology are also being studied.

### Custom Connector Development: Low-profile yoke and mating connector provides long-wear comfort



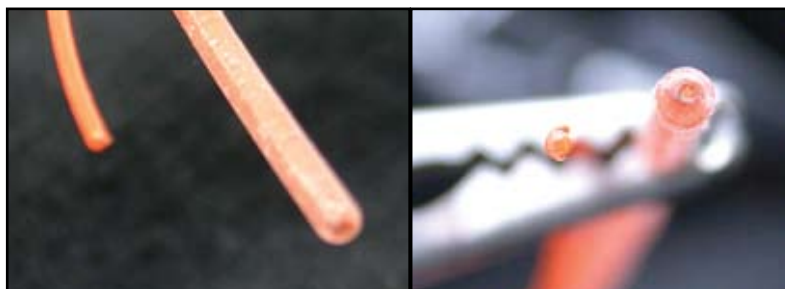
**FROM THE BIOCONNECT ENGINEERING TEAM** comes yet another innovative patient cable. Our new addition answers a need for a robust, yet very small profile, cable to be used with today's compact "Holter" type event recorders. Because the cable leads are attached to the patient and worn over a period of hours and days, this cable's design must satisfy user's comfort issues while insuring performance and reliable connectivity. This new five-lead cable features gold plated "no-touch" pins terminating color coded, shielded snap leads that are molded into a single, unitized Santoprene® plug. This polarized, 6-pin plug is designed with a unique passive locking mechanism for positive retention. This allows easy, error-proof insertion and extraction while retaining signal connectivity. The ANSI/AAMI EC-53 1995 Standard for ECG Cables and Leadwires and IEC60601-1 requirements are met by this new design. The mating connector for this new cable is also designed and manufactured by Bioconnect. It is a molded circuit board header housing with gold-plated, caged jack contacts. This assembly is made to be affixed directly to a circuit board or can be mounted to the device enclosure.

### Multi-Lead Unitized Cable Assemblies: We make to your specifications



**BIOCONNECT HAS ADDED** a new series of one-piece trunk cables for electrophysiology monitoring to their medical cable product line. Because of its use in environments constantly undergoing medical sterilization processes, this new highly flexible cable assembly is designed to withstand most chemical sterilization and autoclave procedures. Cable durability and enhanced pull-strength is achieved by extruding Dupont's Kevlar® fibers parallel to the conductors during fabrication of the multi-conductor, TPE (thermoplastic rubber) jacketed cable. The 20 cm (8 in) lead wires are color coded, jacketed with TPE, and terminated with shrouded, recessed gold DIN 2.0mm (0.080 in) pins (DIN 42802-2) to meet FDA safety requirements (21 CFR 828). Cable configurations include 4, 10, 14 and 24 leads in several standard lengths with a variety of device connector terminations.

### Problem Solving: Bioconnect develops method for applying silicone jacket to fiber optic sheath



**BIOCONNECT NOW HAS** the ability to add a silicone jacket to protect fiber optic sheathing from abrasion. Our engineering team developed a way to apply the silicone by suspending the fiber optic sheathing in a cavity until the coating cured. Optimum formula for silicone and heating and cooling profiles were developed in the process. This is an example of the kind of problem-solving Bioconnect offers you.

## NEW PRODUCT

Now Available

### 10 Lead 15-Pin D-Sub ECG Patient Cable



ECG assembly showing one of several labeling options

**THIS NEW BIOCONNECT CABLE** is designed for use in ECG evaluations performed with devices having 15 pin D-Sub input connections and meets all applicable performance requirements of the ANSI/AAMI EC-53 1995 Standard for ECG Cables. The shielded, low-noise leads are jacketed, and the snaps and connector housing are overmolded with, "patient-friendly" Santoprene®, a latex free TPR (thermoplastic rubber) material that is impervious to most cleaning solvents. The device-end yoke is "double molded" for long life and resistance to fluids and is provided with large, easy to grip thumbscrews for secure and efficient connections. By molding the strain reliefs onto the leads as an integral part of the snap housing, Bioconnect delivers a patient cable with super flexibility and great durability through repeated usage.

With custom quantities as low as 25 pieces, this cable can be manufactured using fewer leads, different molding material, varied lead lengths, unshielded rather than shielded leads, custom marking and snaps molded in any colors of your choice. It can be modified to accommodate any wiring configuration for your 15 pin D-Sub input connections. Color coding and lead nomenclature are available in either AHA or IEC protocols and custom labeling is easily accommodated.

