



SPO2

Patient Monitoring

- Monitoring by electronic means to obtain physiological information used by caregivers to determine how a person's heart, cardiovascular system and other functions are performing under a variety of conditions
- Most Common
 - ECG/EKG
 - SP02/Pulse Oximetry
 - Temperature
 - Respiration
 - Blood Pressure



Patient Monitoring

- Visual display of the electrical activity of the heart as a wave pattern (trace) on the monitor screen
- Sounds an alarm if:
 - Heart rate too high or low
 - Becomes disconnected
 - Temperature too high or low
 - Blood Pressure too high or low
 - Blood oxygen too low



SPO2 Monitoring

- Monitors – Can be Single or Multi-Parameter
 - Parameters
 - Single parameter (ECG Only)
 - Multi-parameter (ECG + Blood Oxygen)
 - Pressure, Respiration and
 - Pulse Oximetry (SPO2)

SP02



SPO2 Monitoring

- SPO2
 - Abbreviation for measuring Pulse Oximetry; using red and ultraviolet light to measure blood oxygen
 - Non-invasive; finger or ear clip



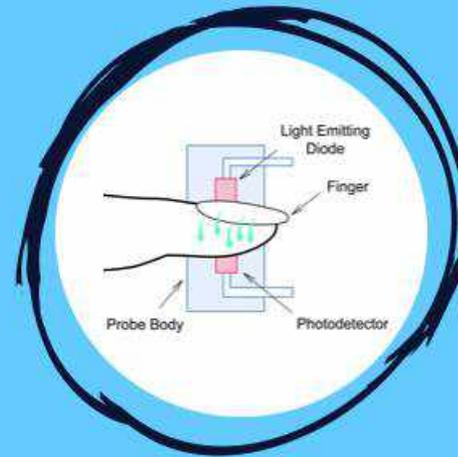
Pulse Oximetry

Pulse Oximetry



Where

Multi-parameter monitors, telemetry or stand alone



How

Sensor measures blood oxygenation

SPO2 – When to Check

- **Surgery/Sedation**
 - To see how well lung medicines are working
 - Ability to handle increased activity
 - To see if a ventilator is needed
- **General Health**
 - Heart attack
 - Anemia
 - Asthma
 - Pneumonia
 - Lung disease, cancer, COPD

SpO2 Levels

Understanding Blood Oxygen Saturation (SpO2)

≤ 90%

91 - 94%

95 - 100%

90% or less:
Consider
consulting your
doctor.

91 - 94%: Below
average for
the population.
Monitor closely.

95 - 100%: average for the population. The
red blood cells are well oxygenated and
sufficiently transporting oxygen around the
body.

What's Your Internal Age?
www.goiheart.com





SPO2 ACCESSORIES

Adaptor Cable

- Reusable Adaptor Cable
 - Optional when standardization connection between Probe and Monitor is preferred
 - Extension cable available to lengthen connection



Sensors/Probes

- Reusable Sensors/Probe – Clamshell*
 - Uses red and UV light to measure blood oxygen concentration in the blood
 - Cantilevered; opens on a hinge, clamps onto patient's finger
 - Hard-molded
 - Traditional design



Adult



Child

Sensors/Probes

- Reusable Sensors/Probe – SoftTip
- Uses red and UV light to measure blood oxygen concentration in the blood
 - Flexible, one-piece silicon
 - Soft-molded (more comfortable)
 - Easily cleaned



Adult

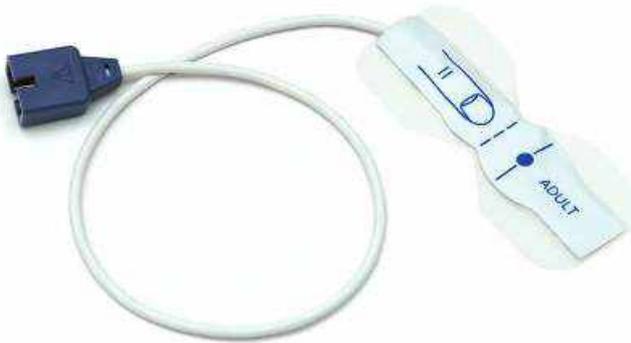


Child

Sensors/Probes

Disposable Probe Options

Adhesive Foam



Adhesive Fabric



DISPOSABLE PULSE OXIMETRY SENSORS

The internal surfaces of pulse oximetry sensors are frequently soiled with various materials, including microorganisms. Since reusable pulse oximetry sensors come into direct contact with a patient's skin, and are used with multiple patients, they are a potential source of cross contamination and HAI transmission.

At Curbell, we understand that hospital-acquired infections (HAIs) are among the top ten leading causes of death in the United States, which is why we're pleased to offer a line of disposable pulse oximetry sensors. Utilizing these sensors is a simple way to help reduce complex cross-contamination issues and enhance patient care.



- ▶ Comfortable, form-fitting sensors
- ▶ Designed for single patient use to provide a solution to your facility's infection control program
- ▶ Available in adult, neonate, pediatric, and infant
- ▶ Nellcor Oximax™, Non-Oximax, and Nihon Kohden compatibility
(Oximax connectors are shown here — see the chart below)



Adhesive Foam



Adhesive Fabric



Non-Adhesive Flocking

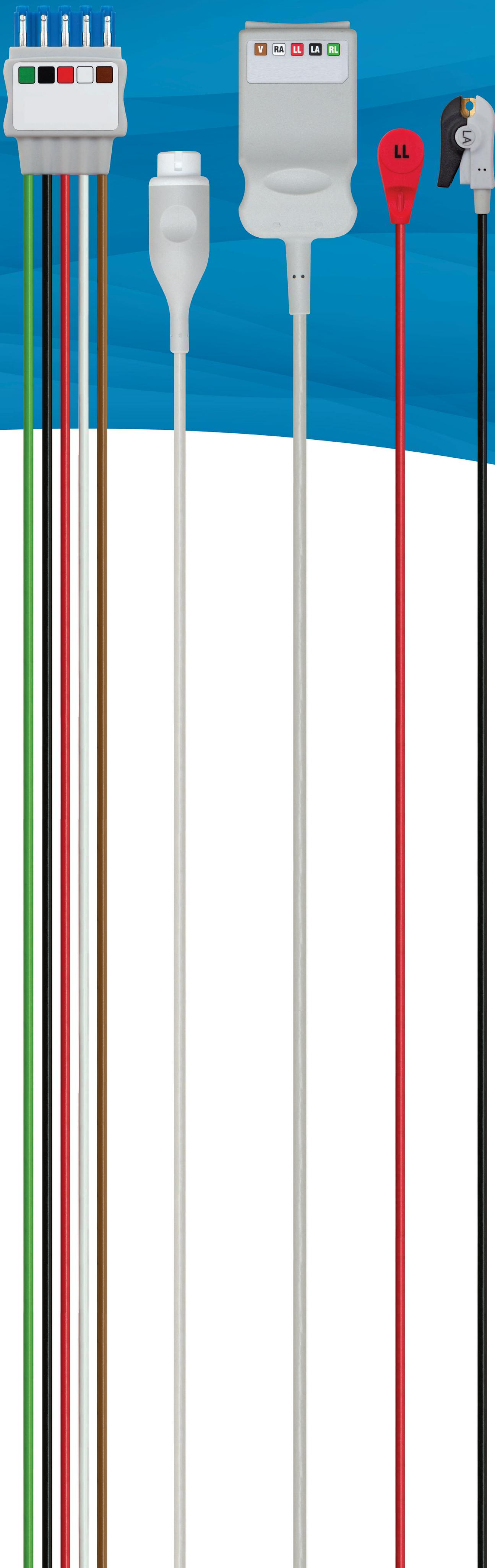
SIZE/WEIGHT	TECHNOLOGY	CROSS REFERENCE PN	LENGTH	MATERIAL	CASE QTY	CURBELL PN
Adult (>30 kg)	Nellcor Non-OxiMax	D-25	39"	Adhesive Foam	30	28145
	Nellcor OxiMax	MAXA and MAXA-NS	20"	Adhesive Foam	30	28146
		MAXAL	39"	Adhesive Foam	30	28157
	Nihon Kohden	TL-271T	39"	Adhesive Foam	30	28169
		TL-271T3	63"	Adhesive Foam	24	28172
Infant (3-20 kg)	Nellcor Non-OxiMax	I-20	39"	Adhesive Fabric	30	28147
	Nellcor OxiMax	MAXI and MAXI-NS	20"	Adhesive Fabric	30	28149
		MAXIL	39"	Adhesive Fabric	30	28159
	Nihon Kohden	TL-274T3	63"	ADHESIVE FABRIC	24	28174
Neonatal/Adult (<3 kg or >40 kg)	Nellcor Non-OxiMax	N-25	39"	Adhesive Fabric	30	28150
		SC-NEO	39"	Non-Adhesive Flocking	30	26239
	Nellcor OxiMax	MAXN and MAXN-NS	20"	Adhesive Fabric	30	28152
		MAXNL	39"	Adhesive Fabric	30	28161
		SC-A	39"	Non-Adhesive Flocking	30	27092
	Nihon Kohden	SC-NEOL	39"	Non-Adhesive Flocking	30	27081
		TL-273T	39"	Adhesive Fabric	30	28167
TL-273T3	63"	Adhesive Fabric	24	28180		
Pediatric (10-50 kg)	Nellcor Non-OxiMax	D-20	39"	Adhesive Foam	30	28153
	Nellcor OxiMax	MAXP	39"	Adhesive Foam	30	28155
		MAXPL	39"	Adhesive Foam	30	28165
	Nihon Kohden	TL-272T	39"	Adhesive Foam	30	28176
		TL-272T3	63"	Adhesive Foam	24	28178

NOTE: All Curbell disposable SPO2 sensors are non-sterile. Nellcor and OxiMax are trademarks of Nellcor, Inc. Nihon Kohden is a trademark of Nihon Kohden Corporation. ©2023 Curbell Medical Products, Inc. MAP1795C



InterMed Resources

TENNESSEE



ECG CABLES AND LEAD WIRES

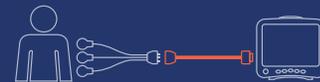


Our ECG cable and lead wire portfolio provides guaranteed performance from a company that hospitals have depended on for decades. Virtually every hospital in the US relies on InterMed Resources TN for consistent delivery of value, service, performance, and innovation. Because we focus on the “little things” like ECG monitor accessories, we don’t miss the big things, like a locking patient end connection to reduce alarm fatigue, and smooth surfaces to improve cleaning. The cables and lead wires are fully-tested with ECG monitors to ensure reliable monitoring, compatibility, and optimal performance that meets or exceeds applicable quality and regulatory requirements including ANSI/AAMI EC53 and ISO 13485:2003.

Distributed by  InterMed Resources tn
IMR

CONTRACT #23131 **1-800-224-6113** • **www.intermedtn.com**

ECG CABLES



Our fully shielded, low-noise patient cables are protected from external electrical interference to deliver a quality ECG signal and improve patient care. Additional features include:



IMPROVED CONNECTIVITY

Solid connector parts don't loosen over time like rolled components. Gold plating improves connectivity.



EASY CLEANABILITY

Durable surfaces are designed to be easy to clean with no crevices to trap dirt.



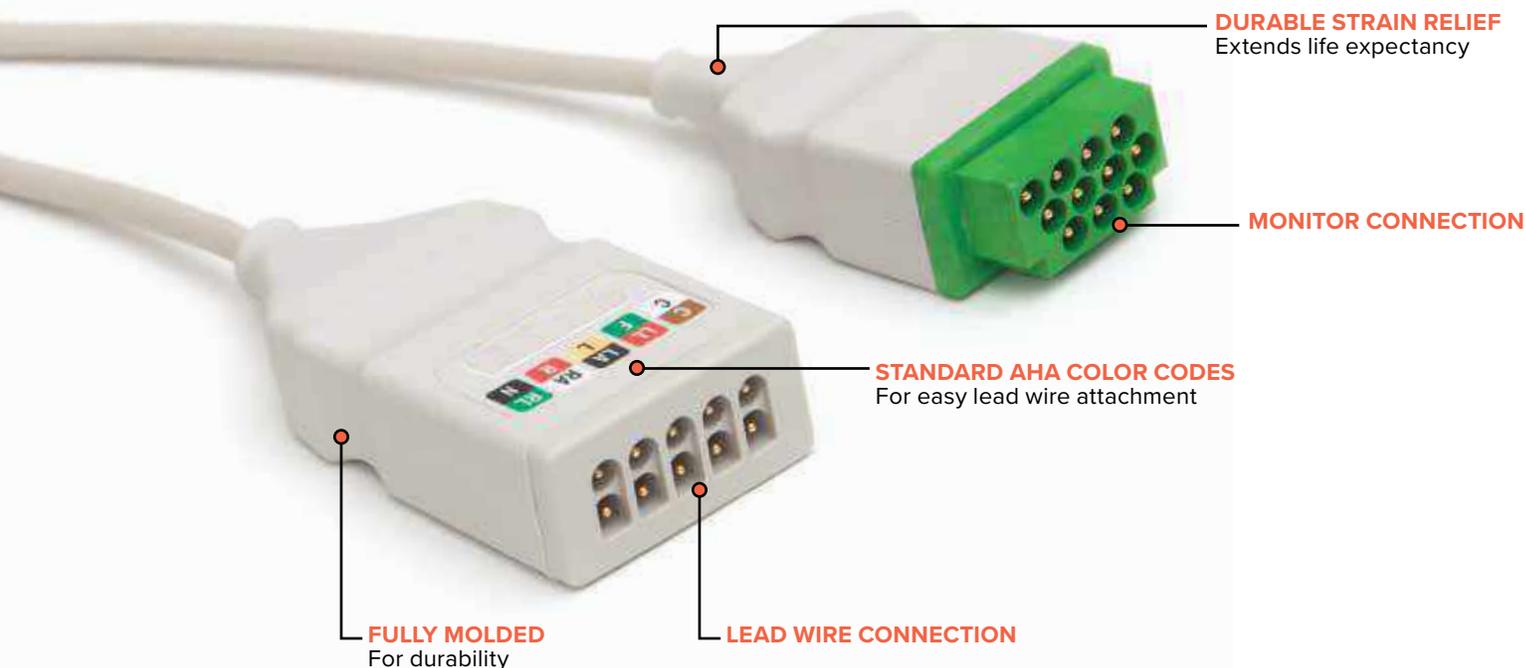
MINIMIZED INTERFERENCE

Shielding continues around the connectors to minimize the potential for interference.



PROPER FIT AND FUNCTION

Each connector has been tested with the OEM equipment to ensure that it fits and functions correctly.



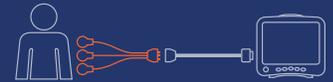
ONE-PIECE ECG CABLES



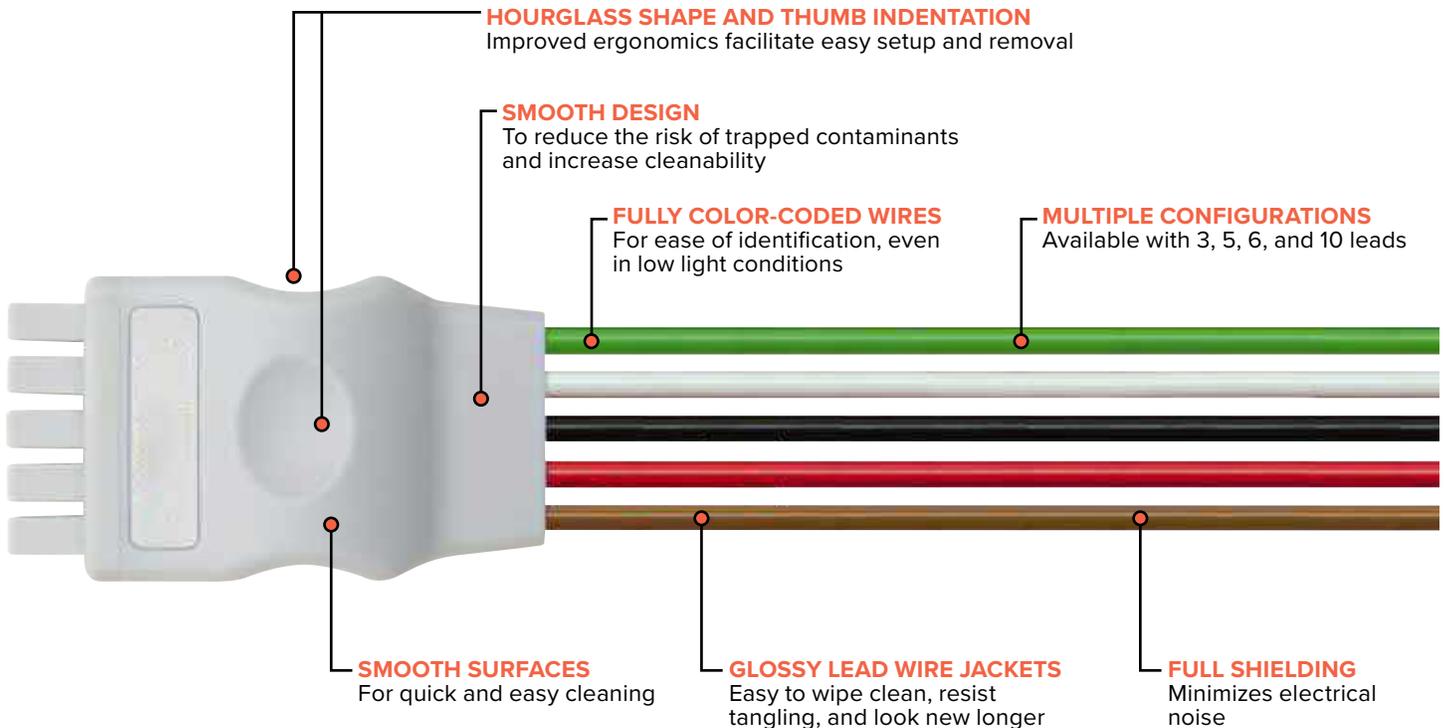
Our one-piece reusable cables with permanently attached lead wires offer the convenience and efficiency required for time critical and high motion environments. One-piece cables speed application time and assist in minimizing artifact and noise. They are ideal for ambulatory, emergency, and stress monitoring applications where the patient is in motion. Our cables are available with a variety of patient end connectors, including snap, pinch, and Sure-Lock.



REUSABLE ECG LEAD WIRES



We understand that nurses interact with our lead wires multiple times a day, which is why a “little thing” like an ECG accessory isn’t an afterthought – it’s an opportunity to increase the usability of products and make the user experience better.



COMPATIBILITY

Pictured below are some of our more popular lead wires for use with GE, Nihon Kohden, Philips, and SpaceLabs monitors.



PATIENT END CONNECTION OPTIONS

Curbell’s reusable lead wires are available with three types of electrode connectors on the patient end, including the unique Sure-Lock locking connector. All connectors feature large AHA labeling and bright colors to speed up lead wire identification and placement.

PINCH

Easy-to-open jaws provide tactile assurance that the connector is open and fully closed.



SNAP

The smooth, low profile design with recessed grip area facilitates easy application and removal.

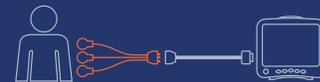


SURE-LOCK®

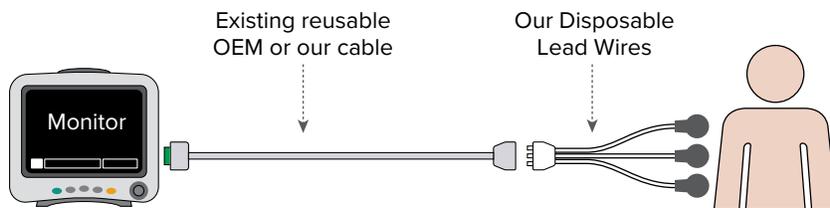
Locks on to stud and tab electrodes to minimize lead wire disengagement and assist in the management of alarm fatigue.



DISPOSABLE ECG LEAD WIRES



Our simple disposable lead wire approach is non-disruptive to clinical workflow, requiring no adaptors for connection to existing reusable OEM or our cables. It's also scalable. Hospitals can control disposable utilization, using disposable and reusable lead wires interchangeably, to contain not only HAIs, but also cost and waste.



SIMPLE. SCALABLE. AFFORDABLE.

Curbell's disposable lead wires plug directly in to reusable monitor cables.

FULLY SHIELDED WIRES
To minimize interference and provide excellent signal quality.

BRIGHT WHITE COLOR
Helps clinicians easily identify the lead wire as disposable rather than reusable.



NO ADAPTORS REQUIRED
OnePatient Disposable Lead Wires plug directly in to your existing cables.

SMOOTH SURFACES
Individual lead wires are easy to wipe clean with no grooves to trap contaminants.

SECURE COLOR-CODED ENDS
To minimize lead wire disengagement and speed placement.

COMPATIBILITY

Pictured below are some of our more popular lead wires for use with GE, Nihon Kohden, Philips, and SpaceLabs monitors.



GE



Nihon Kohden



Philips



Spacelabs

PATIENT END CONNECTION OPTIONS

Our disposable lead wires are available with pinch or snap connectors.

PINCH
Easy-to-open jaws provide tactile assurance that the connector is open and fully closed.



SNAP
The smooth, low profile design with recessed grip area facilitates easy application and removal.

