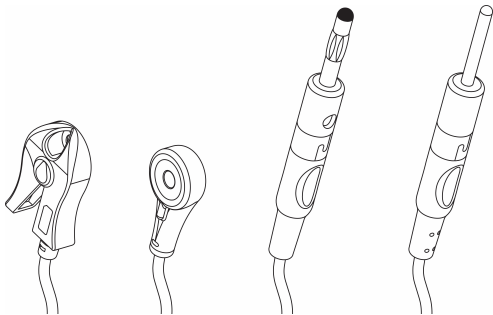


# Orantech

The **difference** you can **sense**



## ECG Cables & Leadwires

# User Manual

## Intended Use & Indications for Use

ECG is a kind of electric physiological activity on the surface of the body. When the heart beats it will produce a series of electric physiological charges which are perceivable on the human body surface. The electrode can pick them up and these electrical signals are amplified through processing, converted into a waveform to show on a graphic display.

## Storage & Handling

When not in use, cables should be loosely coiled and stored at room temperature. Don't wrap cables around equipment cases to avoid damaging internal wires.

## Operating Conditions

- Ambient temperature: 0°C to +40°C
- Relative humidity: 15% to 85%
- Atmospheric pressure: 86 kpa ~ 106 kpa

## Storage & Packaging

Each cable is individually packaged.

Cables must be stored in its original packaging and within the storage conditions to maximize the storage life.

Storage conditions are as follows:

- Ambient temperature:  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$
- Relative humidity: 15% to 85%
- Atmospheric pressure: 86 kpa ~ 106 kpa

## Shelf Life

5 years.

## Installation & Use

- Connect the ECG leadwire set with the necessary adaptor cable (trunk) to the monitor. Check the operation of the equipment in the instruction manual of the equipment.
- Connect the ECG leadwire electrodes to the patient one at a time and in an orderly fashion to avoid entangling the cables or causing one of the connections to loosen causing the incorrect reading of heart rate fluctuation, waveform fluctuation interference, etc.
- ECG leadwire electrodes can be divided into the following kinds:

## AHA VS IEC table

AHA Function	IEC Function	Position on Body Surface
RA	R	right arm
LA	L	left arm
LL	F	left leg
RL	N	right leg
V	C	single chest lead
V1	C1	sternal right side between fourth rib
V2	C2	sternal left side between fourth rib
V3	C3	the midpoint between V2 and V4
V4	C4	the intersect between middle collarbone and the fifth rib
V5	C5	the intersect between front left armpit and V4
V6	C6	the intersect between middle left armpit and V4

## Cleaning

The cable must be cleaned using a soft cloth moistened with

soapy water or 70% isopropyl alcohol. Allow the cable to dry thoroughly before use. Do not use any abrasive agents or chemical product except 70% isopropyl alcohol.

Do not irradiate, autoclave, soak or immerse the cable in any kind of solution.

## Warranty & Liability

Orantech offers 12 months warranty against defects in material or workmanship from the date of purchase. But does not include the damage or breakage due to the abusive use or negligent care of the cables.

Orantech reserves the right to perform warranty service at its own facility. We guarantee that the products conform to the specifications of the safety and performance standards currently in force and applicable to it.

## Warning

- Ensure the cable is physically intact with no broken or frayed wires or damaged parts. Visually inspect the cable and discard if cracks or discoloration are found.

- All leadwires which are not connected correctly with patients or have faults may cause reading error.
- High temperature, electromagnetic wave interference and high voltage sources can also affect the equipment reading.
- At least every 2 hours, check a leadwire and location of equipment and confirm whether it is still safe and secure on the patient.
- The cables should be routed carefully to avoid suffocation to the patient.
- Follow the requirements of the equipment's operating instructions installing and placing leadwires correctly.
- Do not use with magnetic resonance equipment as it can cause burns on the patient.
- Leadwires metal parts must be kept dry otherwise it will cause equipment and reading failure.
- Please refer to the monitor's instruction manual for proper use.

## Caution

Federal (U.S.) Law restricts this device to sale by or on the order of a physician.

## Title of Symbol



Manufacturer

**REF**

Catalogue number

**LOT**

Batch code

**SN**

Serial number



Not made with natural rubber latex



Refer to instruction manual/ booklet



Non-sterile

**Rx only(U.S.)**

Federal (U.S.) Law restricts this device to sale by or on the order of a physician

**IPX1**

Protection against vertically falling water drops



Caution



Date of manufacture



Crossed out wheelee bin indicates separate treatment from general waste at end of life.

Waste of Electrical and Electronic Equipment Directive (WEEE)

**EC REP**

Authorized Representative in the European Community

**CE**




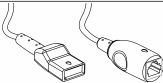




CE Mark



Defibrillation-Proof Type CF Applied Part

# Support

To get the support, please contact the representative of manufacturer or local distributor.  
The categories shown below are available for sale through the local distributors or e-commerce.

			
<b>SpO<sub>2</sub></b>	<b>ECG</b>	<b>NIBP</b>	<b>IBP</b>
			
<b>TEMP</b>	<b>EtCO<sub>2</sub></b>	<b>FETAL</b>	<b>EEG</b>



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## Cables and Sensors B.V.

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REF: M20-M002  
Rev: A0