



# Heating Wire Technologies



Inspiration • Innovation • Realization

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Group Dekko Medical specializes in innovative, **non-invasive medical devices**, serving both home and medical professional needs. We strive to partner with innovative companies looking for a **cost-effective, turn-key solution** to your manufacturing requirements. Group Dekko becomes a member of your team and assists with your product realization from **conception through regulatory needs** and commercialization.

## Typical Applications

- Heating Pads
- Insufflation Units
- Medical Appliances
- Medical Breathing Circuits

## Features & Benefits

- Available in a Wide Range of Wattages
- Economical Method of Heating
- Multiple Wattages Capability

## Value-Added Services

- Application, Evaluation and Design
- Cold Ending
- Complete Assemblies
- Molded Wire Sets
- Multi Wattages
- Specialized Coating & Winding Applications

## Core Materials

■ Polyester, Fiberglass, Nomex, Kevlar and Glass (Fiberglass with Kevlar Core).

## Testing, Certification & Standards Compliance

Heater wire is tested to customer specifications for electrical resistance and dielectric strength. They comply with UL, CSA and other global compliance standards, and are manufactured in plants that are ISO 9001:2000 registered.



## Insulation (.03125" standard wall)\*

Material	Wattage	Temp. Rating
PVC	Up to 2.5 W/ft. (8.2 W/m)	UL 105°C (221°F)
Silicone	Up to 10 W/ft. (33 W/m)	UL 150°C (302°F)
High-Temp		
Silicone	Up to 15 W/ft. (49 W/m)	UL 250°C (482°F)
Glass Rope	Up to 15 W/ft. (49 W/m)	UL 240°C (464°F)

\*PVC insulation is standard. Other insulation such as nylon, feflon, and silicone are available.

## Alloy (16 gauge to 43 gauge)

Material	Metal Composition	Resistance (Ω/circ mil ft)
Pure Copper	100% Cu	10
Alloy 30	2% Ni98% Cu	30
Nickel	95%Ni	57
Alloy 90	11%Ni 89% Cu	90
Alloy 120 (self-limiting)	70% Ni 30% C	120
Alloy 180	22% NI 78% Cu	180
Alloy 294	45% Ni 55% Cu	294
Stainless Steel	18% Cr 8% Cu 74% Fe	433
Nickel Chrome	80% Ni 20% Cr	650
Nickel Chrome	60% Ni 15% Cr 25% Fe	675

Heating is largely dependent upon (1) proximity of the heating element to the surface being heated, (2) ambient temperature, (3) air movement, (4) heat sinking, and (5) insulation.



## Discover Dekko

Call or click today and discover:

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- customer dedication
- seamless integration for your organization

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