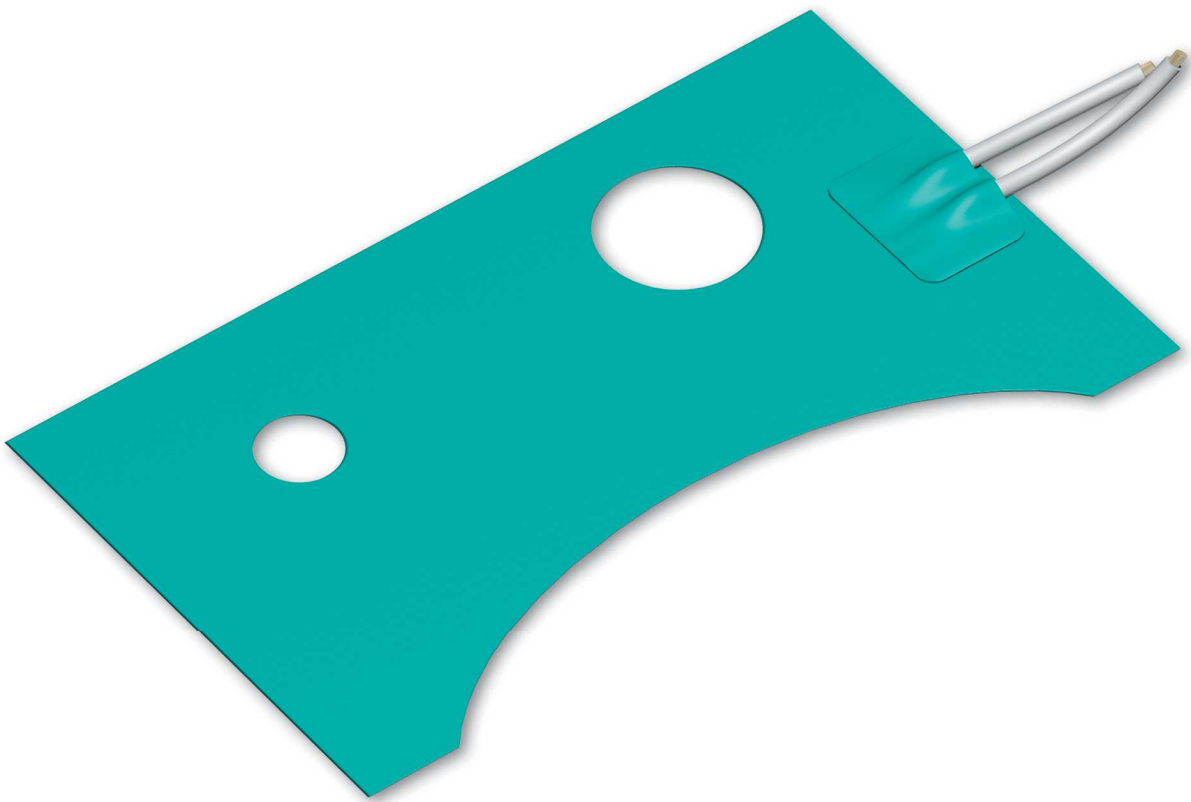


hotform[®]
Silicon Heating Elements



hotform[®]

Silicon Heating Elements

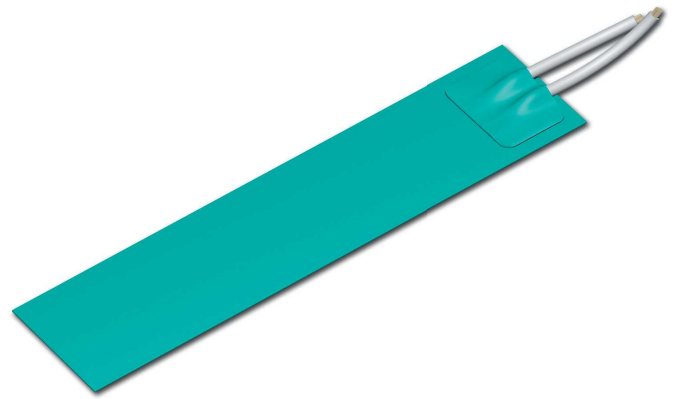
Components

We provide our customers with an extensive portfolio of technically mature products from the field of heating elements, thermal sensors and control technology. Since 1973, we have manufactured heating elements in Germany, and since 2002, we have been continuously developing our production location in Malta.

The manufactured products are usually individually-tailored to the customer – in extremely small unit numbers or in large quantities, at an attractive price. Our core process is organized highly efficiently using our own software, and we provide customer storage in all significant global markets. We work with our own specialists in order to select the best product for our customers.

Facts

- Extremely flexible thanks to latest technology
- Thinner than comparable silicon heating elements
- High watt density and heat transfer
- Homogeneous heat distribution
- Fully customisable
- Flat, cylindrical and concave shapes possible
- Suitable for tight installation situations
- UV-resistant
- Aging-resistant and weather-proof
- Low energy demand through targeted power distribution
- Easy installation
- Complies with numerous standards



Technical Features

Size	Max. 3600 x 600 mm, special sizes available on request
Tolerance	± 5 mm
Thickness of Material	Min. 0.4 mm, 1 mm Standard
Bending Radius	10 mm
Voltage	12 up to 400 V
Watt density	5 W/cm ²
Wattage Tolerance	± 10 %
Temperature Resistance	-60...+200 °C / -76...+392 °F (up to 270 °C / 518 °F on request)
Thermal conductivity at +100°C	1 W/m K
Dielectric Strength	Up to 1500 V
Standards	VDE UL EN 45545 (Maximum classification for fire and smoke) EN 50264 and EN 50306 (Rolling stocks standards for cables only) FDA IP67

Options

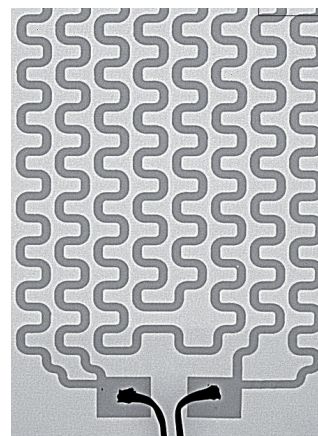
- Direct current
- Power cord
- Temperature sensor
- Security limiter
- Thermostat

Connection Leads

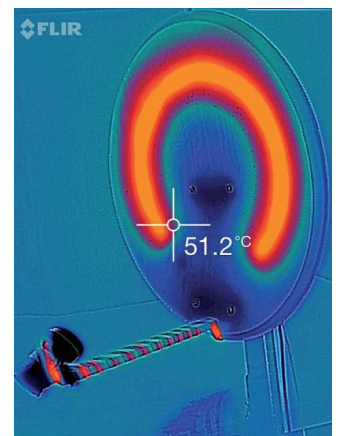
- Silicone leads
-> max. Temp: 180 °C/356 °F
- FEP leads
-> max. Temp: 200 °C/ 392°F
- PFA leads
-> max. Temp: 260 °C/500 °F

Fixation method

- Mechanical (springs, velcro)
- Standard adhesive (up to 160 °C)
- Special adhesive (up to 220 °C)
- Adhesive, reusable



Heating conductor in hotform



Thermography –
Homogenic heat distribution

Application fields

- Railways:
Fresh and waste water tanks, access ramps, driver cabin and wagon floor, couplers, switches
- Telecommunications:
Microwave and WiMax antennas
- Laboratories:
Fermenters, bioreactors
- Chemical industries:
Pipelines, drums
- Industry:
Packaging, petfood and pellet production, airconditioning, fridges, steam chambers
- Aeronautic and Military:
Mounting/dismounting engines, anti-icing, anti-condensation, airport's finger floor heating
- Food industry:
Commercial kitchens, catering, chocolate industry
- Automotive:
Component heating, ice protection, special vehicle construction



hotset

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