

TEXTILE HEATING ELEMENT

Construction

The Textile heating element consists of a highly flexible resistance wire that is applied to any material where sewing is possible. Laying the resistance wire using CNC technology allows for a high precision as well as accurate repeatability.

A number of different resistance wires and carrier materials (e.g. fleece or mesh, as well as flame-retardant carrier materials) can be employed. The design of the heating element is fully customizable to achieve multiple sizes and shapes.

Technical specifications

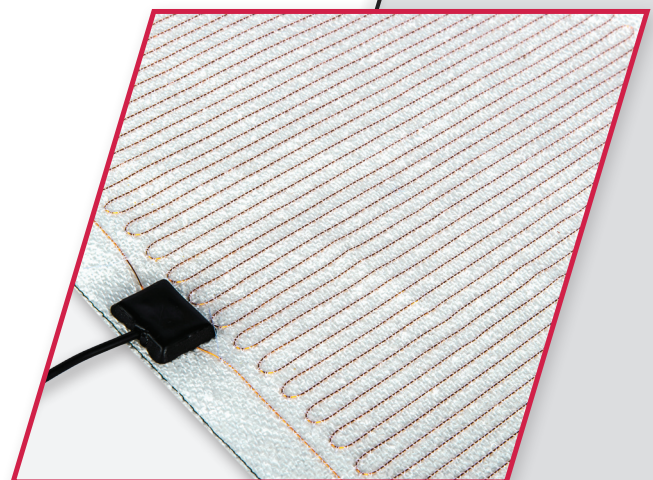
	Textile heating element
voltage range	up to 400V AC/DC
max. watt density (controlled)	0,5W/cm ²
watt tolerance	±10%
min. dielectric strength	1,5kV
max. size	1400x1800mm
min. size	50x50mm
min. thickness	0,5mm
max. continuous operating temp.	200°C
min. ambient temperature	-50°C
connection options	cables, thermostats, thermal fuses, sensors, safety temperature limiters
sealing (connection point)	hot melt adhesive, silicone, polymer
RoHS compliant	yes
protection class	IP X6

Features

- form-specific customisation
- corrosion resistant
- flexibility in design & configuration
- high 3D flexibility
- high temperature stability

Applications

- heated textiles
- clothing and apparel
- healthcare and wellness
- medical applications
- heated furniture
- seat heaters



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