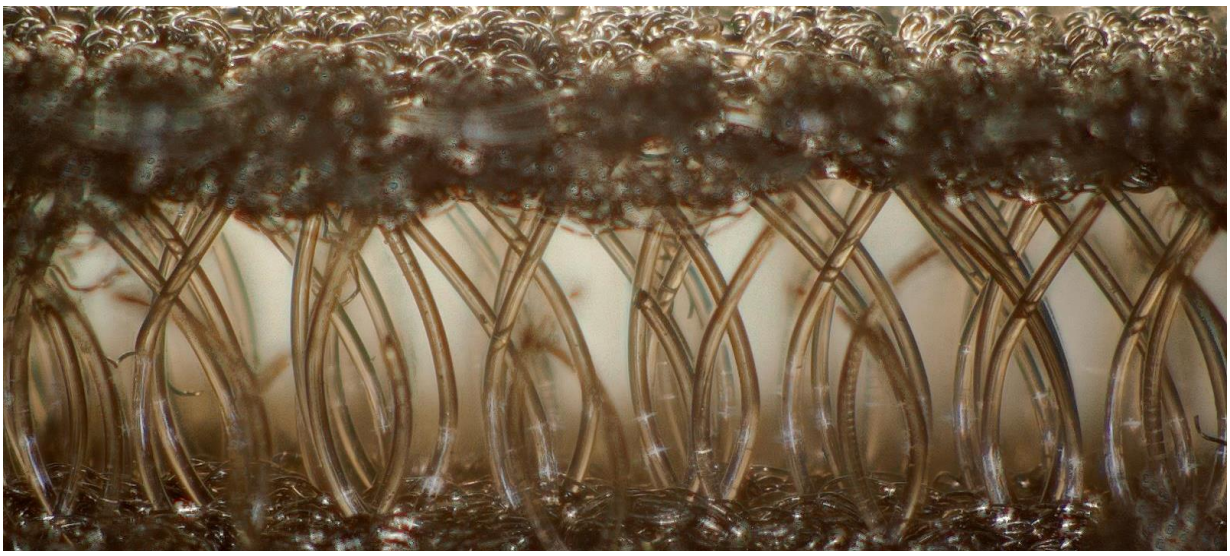
HITEK ELECTRONIC MATERIALS LTD

shieldex

Ag | Cu | Ni | Sn

Shieldex®
Spacer Fabric



Knitted spacer fabrics open unlimited opportunities for product development, ranging from healthcare, safety, military and automotive to aviation and fashion. Shieldex® Spacer Fabrics are characterized by their special knitting technique, whereby the two separate layers, which are 100% isolated from each other, are only connected by an isolated pile yarn. This structure guarantees an air flow regulation and can be used for electrical switches, heating structure and sensor applications. Two different configurations of the conductive surface finishing are available.

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Applications

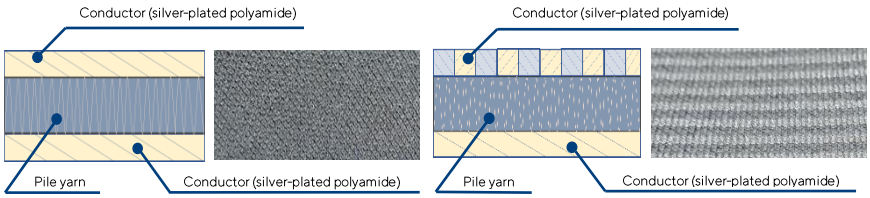
Due to its either uniformly or striped conductive surface, this bi-elastic knitted spacer fabric is ideal for the following fields of applications:

- Robotics
- Smart Textiles
- Protectors
- Orthoses
- Seats

Advantages

- Excellent elasticity and cushioning due to the textile structure
- Outstanding bending performance
- Great durability and high conductivity
- Stress-resistant to mechanical load
- Customized shapes and sizes possible
- Pervious to air and washable

Technical Specification



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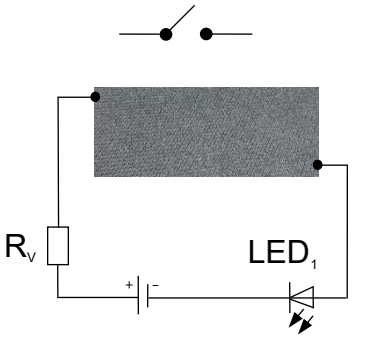
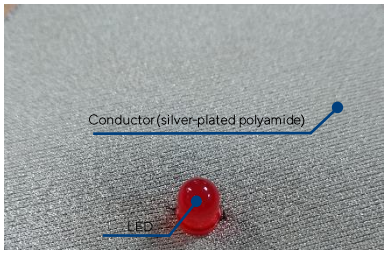
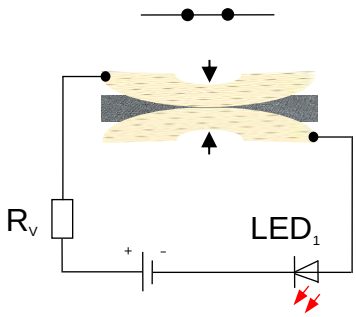
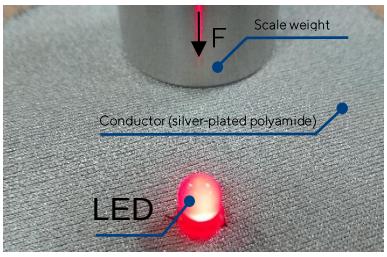
Uniform conductive surface used as an electromechanical switch

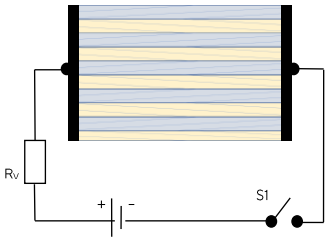


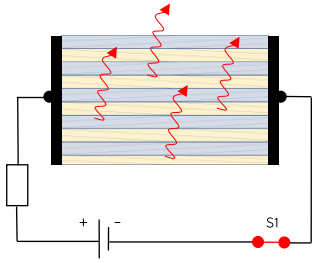


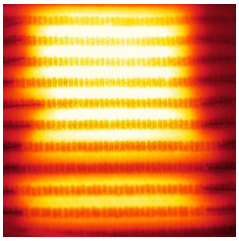




Striped conductive surface used as flexible heater structure







Did we spark your interest ?

More information can be found on our detailed data sheets.
Please do not hesitate to contact us at any time.

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