

4900 - Stretch conductive fabric

This conductive fabric is coated with a medical silver coating and has a broad range of applications, since it's possible to stretch the fabric in both sides, and in length even up to 100% it's size. The fabric can be used as an antibacterial wound or burn dressing (note: our material is not sterile) but it also makes a great material for electrode contacts, clothing or other shielded garments. Highly conductive, and conductivity increases up to 25% as it stretches, which is handy for smart textile applications. The silver coating is 99,9% pure.

Benefits

The width of the fabric influences the percentage of conductivity

The material is very consistent in quality

When you stretch the material in length the conductivity increases, when you stretch it in the width it decreases

You get around 60% elongation in the width, and almost 100% in the length

Applications

"Intelligent" or shielding garments

Cable shielding wrap

Hobbies or Technology where changing conductivity with stretch is important

Specification

Property	Test Value
Thickness	0.40 mm
Standard width	135 cm (52 inch)
Temperature Range	-30 to 90C
Stretch in length	~100% x length
Stretch in width	~60% x width
Shielding Effect	35+dB: 1-10 GHz
Surface resistivity	0.5 Ohm/sq. (unstretched)
Weight	4.3 oz/yd

*These values are measured under laboratory conditions.
In your situation results may differ, please read our Guarantee.*

Attenuation

Frequency in GHz	Attenuation in dB
1 GHz	45 dB
2 GHz	38 dB
3 GHz	43 dB
4 GHz	45 dB
5 GHz	44 dB
6 GHz	43 dB
7 GHz	41 dB
8 GHz	40 dB
9 GHz	36 dB
10 GHz	36 dB

*These values are measured under laboratory conditions.
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Shielding performance (dB) Stretch conductive fabric



Stretch conductive fabric is very soft, stretchable in every direction and has a Silveren color.

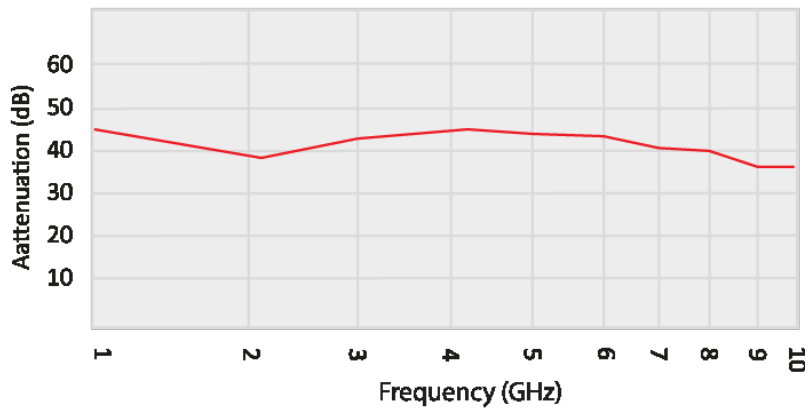


Stretch conductive fabric can be well stretched and remains electrically conductive



Stretch conductive fabric can be supplied on a roll to a maximum width of 1350 mm

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Shielding performance of Stretch conductive fabric (Click to enlarge)

Part number	Width (mm)	Length (mm)
4900	<input type="text"/>	<input type="text"/>
	Please specify the width in mm	Please specify the length in mm