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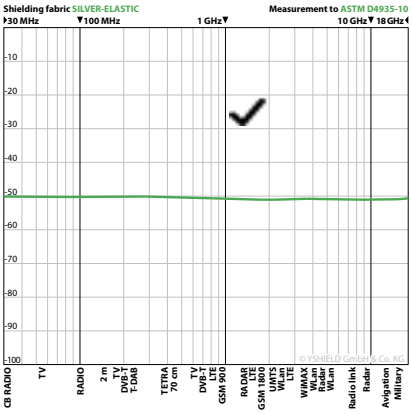
SILVER-ELASTIC - Shielding fabric (HF+LF)



Characteristics

SILVER-ELASTIC is a **compact, full silvered spandex fabric** for the shielding of high-frequency radiation (HF) and low-frequency electric fields (LF).

This fabric is elastic, to sew articles of clothing, please consider the **shrink** and **extensibility** rates at the „Technical data".

- **High screening attenuation, especially at high frequencies!**
- **Contactable (groundable) to shield LF electric fields**
- **Textile similar characteristics:** Washable, easy to process. Exception: Do not iron.
- **Quality grade: Very high**

Application

To sew articles of clothing. Due to the high elasticity perfect as close-fitting laundry. **Actually our best apparel fabric.**

Technical data

- **Width: 155 cm**, +/- 2 cm
- **Length: Available by the meter**
- **Shrink** after first wash: 0 % width, 0 % length
- **Extensibility**: 50 % width, 80 % length
- **Attenuation: 50 dB**
- Color: Silver
- **This silver-fabric can discolorate and has a limited durability, more under „Information silver-fabrics"**
- Raw materials: 80 % spandex, 20 % silver
- Weight: 130 g/m²
- Surface conductivity: 0.5 ohm (square resistance R☐)

Grounding

Due to the surface conductivity this fabric **can be grounded** to shield low frequency (LF) electric fields.

Screening attenuation

The screening attenuation is **regularly tested in our own EMC laboratory**. We have measurement setups due to the following standards: **ASTM D4935-10, IEEE Std 299-2006, IEEEE Std 1128-1998, ASTM A698/A698M-07**. Please find the test report at our homepage directly on the product page.

Care

	Gentle cycle at 30°C
	No ironing
	No drying in tumble dryers
	No bleaching
	No chemical dry-cleaning

Cleaning with our special washing detergent **TEXCARE**. No handwashing! For allergy sufferers: Every new fabric smells, wash before its first usage!