

Highfrequency



- for shielding high-frequency electromagnetic waves
- very good tear resistance with soft quality, antistatic, elastic
- 100 % textile properties
- elastic knitted fabric for a wide range of applications
- **organic cotton, kbA (controlled organic cultivation)**
- The New Antiwave quality is a right-left jacquard knit, in a combination of combed organic certified cotton and silver coated polyamide.

The coating is not made of controversial nano-silver, but of pure silver that surrounds the entire polyamide fibre. The precious metal silver is absolutely harmless to human health and to nature.

Pure silver has a natural antibacterial effect and can also have a positive effect on skin problems as well as excessive sweating and body odour.

Thanks to the innovative fabric construction and the use of high-quality materials, this knitted fabric protects against electromagnetic radiation in the range from 20 kHz to 10 GHz with an efficiency of > 97 %. This is confirmed by an expert opinion by the EMF test lab Bavaria.

Also available by the metre and particularly suitable for making shielding clothes.

New Antiwave is a high-quality, easy-care fabric with a high-quality finish that ensures that the shielding properties remain intact even after several washes. Due to the antibacterial effect of the silver, it is sufficient to wash the laundry at 30 - 40 °C.

Order-No.: 101120, 101138

Short-Desc.: AW Scarf white or black



Shielding knitted fabric

New Antiwave - Tube scarf

Type	MHz	dB	in %
DVB-T2	470 - 690	20	99,0
LTE / 5G wide	700 - 750	19	98,8
GSM, LTE	920 - 960	19	98,8
GSM, LTE	1800 - 1880	16	97,5
DECT	1880 - 1900	16	97,5
LTE, 5G wide	2110 - 2170	15	96,9
W-LAN 2400	2400 - 2500	15	96,9
5G fast	3400 - 3700	15	96,9
W-LAN 5200	5150 - 5350	14	96,0

Technical data

available sizes:	unisex, one size fits all
thickness:	ca. 0,5 mm ± 10 %
colour:	light grey / silver
basis weight:	ca. 145 g/m²
mesh size:	< 0,1 mm x 0,1 mm
lining:	opaque
composition:	89 % Cotton (Organic) 9 % Polyamide 2 % Silver 100 % Polyester silver ionised
properties:	very good tear resistance with soft quality, antistatic, elastic
wash cycles:	~ 40 x
basis of examination:	IEEE Standard 299™-2006
shielding effectiveness:	max. ~ 20 dB (~ 99 %) direction-independent

Care instructions

	particularly gentle washing (delicate or wool wash cycle at 30 or 40 °C)
	gentle ironing on level 1 (iron at low temperature)
	bleaching not allowed No detergents with bleach
	do not tumble dry
	no dry cleaning

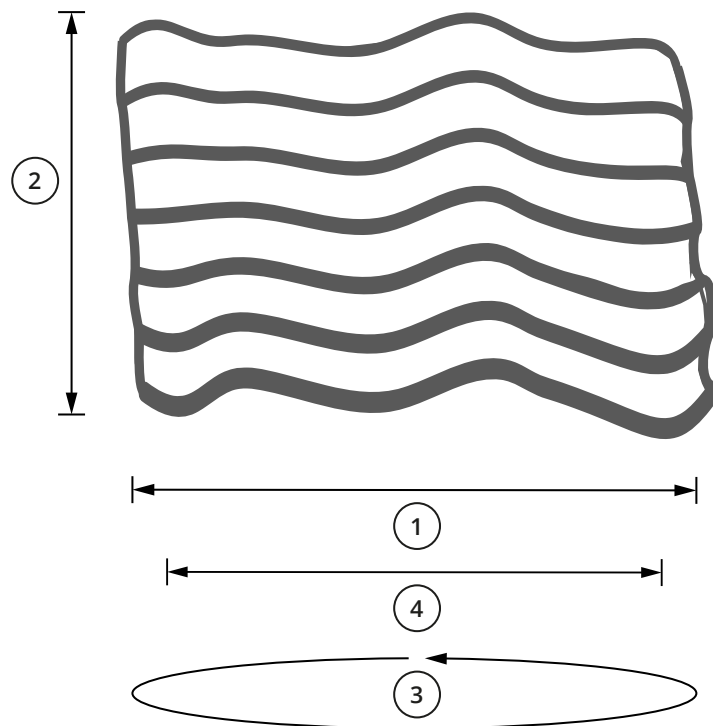
Scope of application

public areas, home

New Antiwave - Size/Dimensions

Tube scarf / Scarf - Unisex

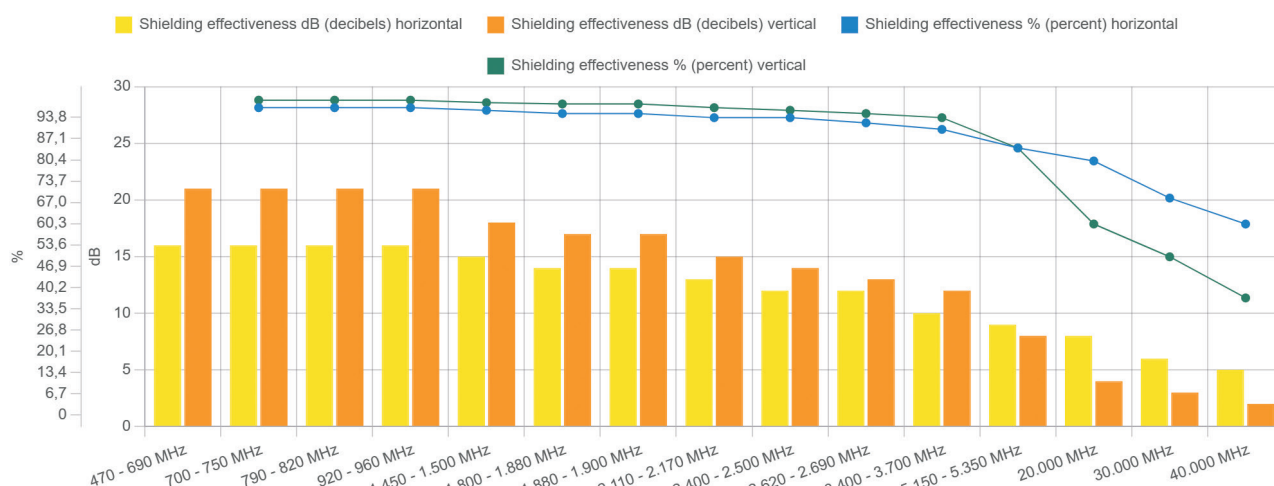
No.	Dimensions (in cm)	One size	Tol ±
1.	Width	28	3 %
2.	Height	25	3 %
3.	Circumference	56	3 %
4.	Elastic band	23	3 %



Art	MHz	Beschreibung
DVB-T2	470 - 690	digital video broadcasting – terrestrial, 2nd generation, TV via antenna
LTE / 5G wide	700 - 750	from 4G, now 5G NR without beamforming / MIMO
GSM, LTE	920 - 960	from 2G - D1, now 5G NR without beamforming / MIMO
GSM, LTE	1800 - 1880	from 2G - D2, E network, now 5G NR without beamforming / MIMO
DECT	1880 - 1900	wireless phone
LTE, 5G wide	2110 - 2170	from 3G, formerly UTMS, now 5G NR without beamforming / MIMO
W-LAN / WiFi 2400	2400 - 2500	wireless LAN
5G fast	3400 - 3700	5G NR - New frequency band with beamforming / MIMO
W-LAN / WiFi 5200	5150 - 5350	wireless LAN

Shielding values: According to test report: EMF Test Lab Bavaria

Shielding effectiveness - Antiwave OC white - unstretched - 470 MHz to 40.000 MHz (40 GHz)



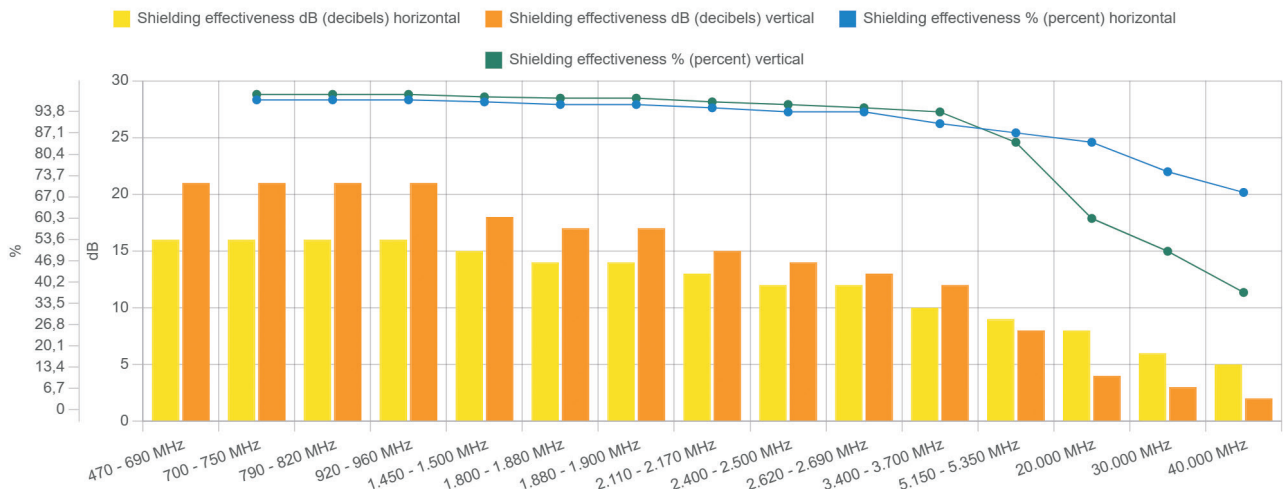
1.000 MHz = 1 GHz +/- (according to test report EMF Test Lab Bavaria)

Shielding effectiveness - Antiwave OC white - stretched - 470 MHz to 40.000 MHz (40 GHz)



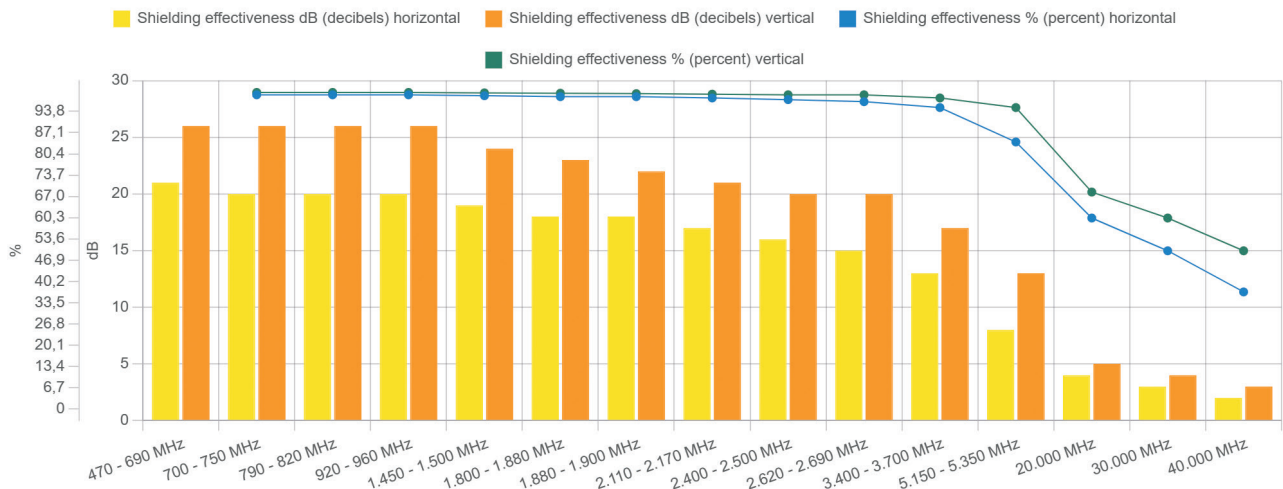
1.000 MHz = 1 GHz +/- (according to test report EMF Test Lab Bavaria)

Shielding effectiveness - Antiwave OC black - unstretched - 470 MHz bis 40.000 MHz (40 GHz)



1.000 MHz = 1 GHz -/- (according to test report EMF Test Lab Bavaria)

Shielding effectiveness - Antiwave OC black - stretched - 470 MHz to 40.000 MHz (40 GHz)



1.000 MHz = 1 GHz -/- (according to test report EMF Test Lab Bavaria)