VIABLUE™

TECHNICAL GUIDE CABLE LIFTERS

Function and Effect

Product Description	SKU		
	black	silver	granite
Cable Lifters UFO DOME, 4 pcs	#50650	#50651	
Cable Lifters ROCKET, 4 pcs	#50600	#50601	
Cable Lifters ROCKET XL, 2 pcs	#50610	#50611	#50641
Cable Lifters ROCKET XL, 8 pcs	#50620	#50621	#50645

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What causes vibrations in a cable?

Vibrations arise from structure-borne sound, airborne sound, and impact sound. These influence the acoustic behavior of cables.

Structure-Borne Sound

generated by material vibrations

E.g. a playing speaker or power amplifier

Airborne Sound

spreads from a sound source through the air

E.g. music

Impact Sound

arises from movement on floors

E.g. walking

Cable lifters decouple cables from the floor to reduce the transmission of sound onto the cables.

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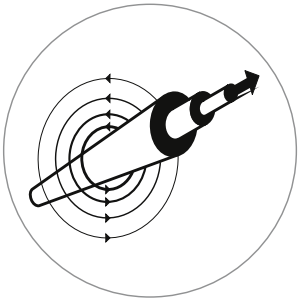
VIABLUE™ Cable Lifters Reduce

- Distortion and noise
- Coupling capacitance in cables
- Effects due to electric interference fields from floors and walls

How does distortion and noise occur?

1. Electric Fields

Electric fields naturally form in a circular pattern around conductors. If these fields are restricted or reflected by adjacent floors, this can lead to noise and distortion in cables.



Since electric fields diminish with increasing distance from their source, lifting the cables a few inches from the ground using a cable lifter is sufficient to allow the fields to spread fully around 360°.

In comparison, once cables are placed directly on the floor, the electric fields around them are interrupted, affecting the smooth flow of signals within your cable.

2. High Frequency Rays

Additionally, floors and walls deflect high-frequency rays such as Wi-Fi or mobile signals. These sources of interference transmit noise to adjacent objects, such as cables on the floor. Again, noise and distortion can arise, disrupting the quality of your sound. By lifting the cables a couple of inches, their distance to the ground ensures that the reflected rays no longer have a significant impact on the audio.

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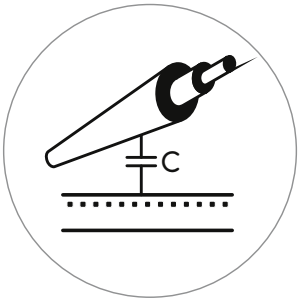
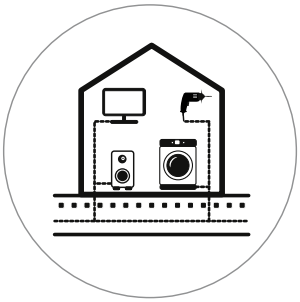
How do I avoid coupling capacitance in cables?

Capacitive coupling involves the transfer of energy between two unconnected conductors with different potentials. Looking at an audio set-up, these conductors correspond to cables and the floor. The formation of capacitance creates an undesired side effect for the signal transmission via cables. However, with increasing distance, electrical capacitance between cables and the floor diminishes. By using cable lifters, a considerable distance from the contact surface is achieved. Thus, the coupling capacitance is significantly reduced.



Protection against Electromagnetic Interference Fields

Electromagnetic interference fields arise from, among other things, wired walls and floors, power lines, electrical devices, motors, and transformers. Electrical alternating current flows not only when electrical devices are operating. They can even be measured when an appliance is merely connected to a power outlet. This creates an artificial magnetic field. Said electromagnetic field has a measurable effect on cables placed on the ground. The greater the distance between wire and floor, the further the voltage decreases significantly. Thus, cable lifters provide protection against electromagnetic interference fields.



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ViaBlue GmbH, Dieselstr. 6, 76316 Malsch, Germany
Phone: +49 7246 943 112, E-Mail: info@viablue.de

www.viablue.com