

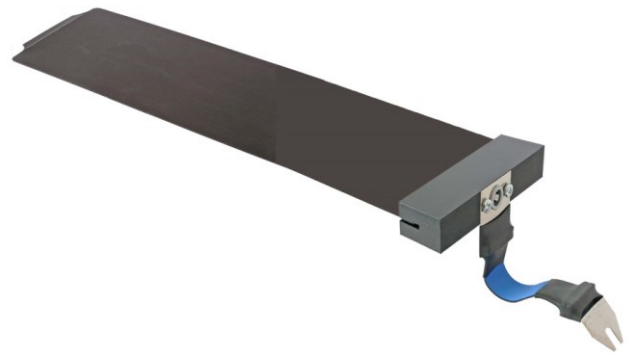
# SFT 415-CS / 415-CS-BNC

## Calibration Set

### IEC / EN 61000-4-4

- For capacitive coupling clamp Burst
- Optional SFT 415-CS-BNC with BNC connector
- Optional 50 Ohm measurement termination (attenuator)

**To calibrate the capacitive coupling clamp SFT-415-CS and SFT 450-1 are required.**



### Overview

The capacitive coupling clamp is specified in the standard IEC / EN 61000-4-4, chapter 6.4. It provides the ability of coupling the fast transients / bursts to the circuit under test without any galvanic connection to the terminals of the EUT's ports, shielding of the cables or any other part of the EUT.

**With the release of the standard IEC 61000-4-4, 2012 the capacitive coupling clamp is also to verify at their characteristics and to calibrate.**

Measurement equipment that is specified as suitable to perform the calibrations defined in IEC 61000-4-4, chapter 6.2.3 (Burst generator verification) shall also be used for the calibration of the characteristics of the capacitive coupling clamp.

The following accessories are required to calibrate the capacitive coupling pliers:

**SFT 415-CS** and **SFT 450-1**

### Key Facts

- With different connectors available:  
**SFT 415-CS** with Fischer HV-female connector,  
**SFT-CS-BNC** with BNC HV connector
- The following accessories are required to calibrate coupling pliers:  
**SFT 415-CS:** calibration set with connection adapter + support for the attenuator  
**SFT 450-1:** attenuator 50 Ohm
- Stainless steel conductive plate



# SFT 415-CS / 415-CS-BNC

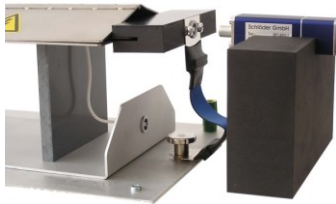
## Calibration Set

### Technical data

Calibration Set	
Material	stainless steel plate, conducting
Material thickness	0,5 mm
Isolation	dielectric foil with thickness of 0,5 mm
Isolation voltage	min. 2,5 kV on all sides
Connection for 50 Ohm	<b>SFT 415-CS:</b> Fischer HV-female connector <b>SFT 415-CS-BNC:</b> BNC HV connector

Calibration Set	
Dimension (L x B)	120 mm x 1050 mm
Total length set	1085 mm
Weight	720 g
Working temperature	0 - 40 °Celsius
Relative humidity	0 - 60 %

### Connector SFT 415-CS



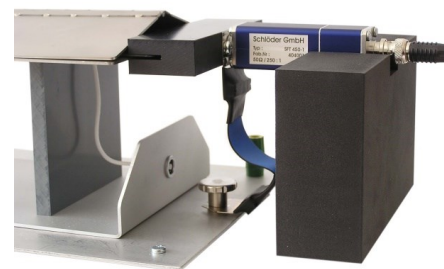
### Connector SFT 415-CS-BNC



### Calibration instructions

The calibration set is placed in the capacitive coupling clamp, the 50 Ohm attenuator is connected and connected to the oscilloscope. The burst generator is connected on the opposite side of the coupling clamp. A no-load voltage of 2000 V is set at the burst generator output (50 Ohm). When checking the burst pulse, the following pulse shape must result:

Rise time	5 ns +/- 1,5 ns
Pulse duration	50 ns +/- 15 ns
Peak voltage	1000 V +/- 200 V



### Options

SFT 450-1	50 Ω attenuator, 54 dB (conform divider 500:1 at 50 Ohm)
KAL-N SFT 415/410	factory calibration

All informations regarding appearance and technical data correspond to the current state of development at the time of release of this data sheet. We reserve the right to make technical changes. 222009

