

Concentric Ring Probe Installation, Operation and Maintenance



Figure 1. SCS 770007 Concentric Ring Probe

Description

The SCS [770007](#) Concentric Ring Probe is an instrument to be used in conjunction with a resistance meter, such as the SCS [770760](#) Resistance Pro Meter Kit, to measure surface resistance per ANSI/ESD STM11.11 the test method listed in Packaging standard ANSI/ESD S541 for surface resistance of planar materials.

The Concentric Ring Probe (Ref: ANSI/ESD STM11.12) can measure the volume resistance of planar materials using a flat conductive metal plate (not included).

The Concentric Ring Probe may be used for the resistance measurements of ESD packaging including static shielding and other bags.

The SCS Concentric Ring Probe is compatible with the following SCS Surface Resistance Meters:

Item	Description
770760	Resistance Pro Meter Kit
770761	Resistance Pro Meter
701	Analog Surface Resistance Megohm-meter Kit
701-M	Analog Surface Resistance Megohm-meter
SRMETER2	Surface Resistance Meter

Resistivity and Resistance

Per ANSI/ESD STM11.11 section 12.0 “CONVERSION TO RESISTIVITY, When it is appropriate to convert a resistance obtained by this test method to an equivalent resistivity in ohms per square, multiply the resistance measurements obtained by this method by ten. The conversion factor of ten is derived from the geometry of the electrode assembly. NOTE: Conversions to resistivity may not be valid for materials that are laminated, plated or metallized with conductive materials. This fact should be understood when users of this test procedure are required to satisfy specifications given in “ohms/square.”

Repeatability

Per ANSI/ESD STM11.11 section 4.0 “REPEATABILITY, This test method has been shown to have a repeatability of approximately one half order of magnitude” in controlled environments.

Packaging

- 1 Concentric Ring Probe
- 1 BNC / Banana Jack Adapter

Operation

1. Connect the Concentric Ring Probe to a resistance meter using the included BNC / banana jack adapter and the meter’s test leads.
2. Place the material to be tested on an insulative surface.
3. Place the Concentric Ring Probe on top of the material to be tested.
4. Take a resistance measurement using the resistance meter.



Figure 2. Using the Concentric Ring Probe with the SCS 770760 Resistance Pro Meter



Figure 4. Using the Concentric Ring Probe with the SCS SRMETER2 Surface Resistance Meter



Figure 3. Using the Concentric Ring Probe with the SCS 701 Analog Surface Resistance Megohmmeter

Specifications

Dimensions (with BNC / banana jack adapter)	2.8" Dia. x 6.5" H (71 mm x 165 mm)
Outer Probe Diameter	2.5" (63 mm)
Inner Probe Diameter	1.2" (30 mm)
Weight	5.8 lbs. (2.6 kg)
Insulation Resistance Between Probes	>1 x 10 ¹² ohms @ 500V
Probe Resistance of Carbon Pads	<100 ohms at low test voltage
Country of Origin	United Kingdom

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the SCS Warranty -
StaticControl.com/Limited-Warranty.aspx

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