



## PRF-912 Miniature Concentric Ring

**Accurately measure surface resistance of small areas**



**Item Number**  
**PRF-912**

The PRF-912 Miniature E12 Micro Probe Set accurately measures surface resistance of small areas up to  $1.0 \times 10^{12}$  ohms. It consists of a PRF-912 Concentric Resistance Fixture, shielded cable equipped with BNC connectors, and a BNC to male banana instrument adapter. The optional PRV-913 Verification Fixture is designed to confirm the proper operation of the PRF-912 and high resistance PRF-914 Miniature Probe Sets.

The PRF-912 is designed to work with a precision wide range resistance instrument, such as the PROSTAT PRS-801 Resistance System, and an insulated test bed. It provides surface resistance measurements in ohms per ESD S11.11 Surface Resistance test standard. To estimate ASTM D-257 Surface Resistivity in ohms/square, multiply the fixture measurement by 10.

### Specifications

**Range:**

0.9 –  $1.0 \times 10^{12}$  Ohms (1.0E+12)

**ASTM D-257:**

Correction from ohms to ohms/square Multiply by 10

**Dimensions:**

Length: 5.9 inches (150mm) without probe cover. 6.5 inches (165mm) with probe cover. Probe diameter 0.5 inches (12.7mm). Probe cover outer diameter 0.63 inches (16mm).

**Probe Weight:**

1.5 ounces (43 grams)

**Finish:**

Black anodized

**Dielectric Material:**

Teflon

**Contact Size:**

Inner (Center) Contact Probe: 0.1 inches (2.54mm). Outer Contact Probes: Ten each 0.06 inches (1.59mm) diameter at 0.258 inches (6.56mm) bolt circle.

**Min. Sample:**

0.32 inches (8.2mm) diameter

**Probe Spring:**

Force/Test 3.5 pounds (1.6 kg)

**Probe Travel:**

0.3 inches (7.8mm)

**Connection:**

BNC with outer source and inner sense connections

**Cable:**

RG-174 coaxial cable equipped with insulated BNC couplers, and BNC/Banana adapter for connection to Prostat PRS-801 Resistance System.

**Power:**

Not applicable. Fixture powered by resistance instrument.

### Contents

- ✦ PRF-912 Miniature Concentric Ring
- ✦ Shielded Cable with BNC Connectors
- ✦ BNC to Male Banana Adapter
- ✦ Probe cover
- ✦ BNC Connection cover
- ✦ 1 set Conductive Rubber Ring Adapters
- ✦ 1 each Spare Center Electrode Contact
- ✦ 2 each Spare Outer Contact Pins

### Options:

- ✦ PRV-913 Verification Fixture
- ✦ PRF-922A Miniature Two-Point Probe Adapter
- ✦ PRF-900 Stop Miniature Probe Stopper

### Packaging

**Weight:** 1 lbs (0.5 kg)  
**Length:** 8.25 Inches (21 cm)  
**Width:** 7.5 Inches (19 cm)  
**Height:** 3.5 Inches (8.5 cm)

