



ESD STATIC PROTECTION

Proskit® ESD Tools Solution

What is static electricity? How to prevent?

Static electricity is the imbalance of positive and negative electric charge caused by different materials rubbing together and building up a charge on the surfaces.

On production lines for electronic equipment, components such as IC's may be damaged by such static charges being discharged too quickly. For static control in work areas, use dissipative mats on floors and table surfaces and have personnel wear anti-static wrist straps and heel grounders. **ProsKit*** ESD series of tools help to dissipate static charges and avoid potential costly problems.

The resistance and decay time of conductor, static control products and insulator

Conductor means the materials which have the electrons held loosely and the electrons can move easily, most of metals are good conductor. **Static control products** means the products designed for static control or elimination to protect electronic components and human body against injury. **Insulator** means the materials which have the electrons held tightly and the electrons don't move well. Plastic, cloth, glass and dry air are good insulators.

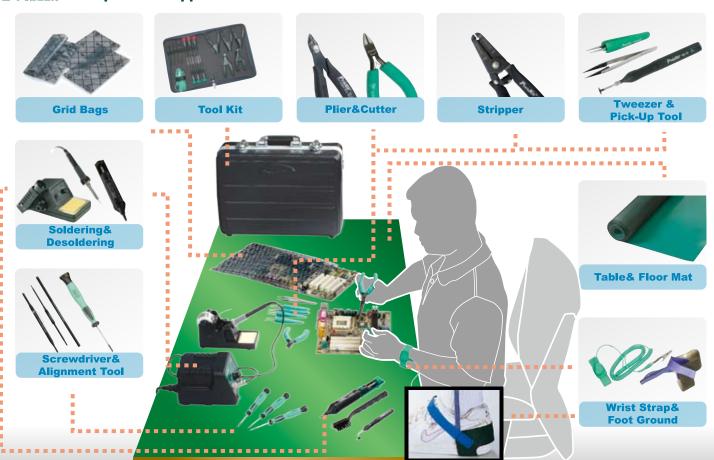
CONDUCTOR	₹	STATIC CONTROL PRODUCT	INSULATOR	2
Resistance(Ω)	10 ⁵	10 ⁸	10 ¹²	
Decay time(SEC)	10 ⁻⁶	10 ⁻³	10 ⁰	

ESD Products Test Method

ProsKit* ESD series products are tested in accordance with ESD Association standard as following EPA (ESD protected areas) ESD Control Program

ESD Control Item	Product Qualification1		
ESD Control item	Test Method	Required Limit(s)2	
Worksurface	ANSI/ESD S 4.1 and or ANSI/ESD STM 4.2	< 1 x 10 ⁹ Ω and/or < 200 volts	
Wrist Strap Cord	ANSI/ESD S1.1	0.8×10^6 to 1.2×10^6 Ω	
Wright Stron Cuff	ANSI/ESD S1.1	Interior < 1 x 10 ⁵ Ω	
Wrist Strap Cuff	AN31/E3D 31.1	Exterior > 1 x $10^7 \Omega$	
Wrist Strap Cord Bending Life	ANSI/ESD S1.1	> 16,000 cycles	
Foot Grounders	ESD SP9.2	< 1 x 10 ⁹ Ω	
Flooring	ANSI/ESD S7.1	< 1 x 10 ⁹ Ω	
Mobile Equipment (Working Surfaces)	ANSI/ESD S4.1	< 1 x 10 ⁹ Ω	

ProsKit ESD products applications



900-002/900-012

Wrist Strap Series









900-132/900-133

Wrist Strap Series











900-022/900-023

Wrist Strap Series









Model No.	Band resisitivity	Wrist strap resistivity	Wrist belt	OAL(ft)	Individual packing
900-002	<50Ω	106Ω	Fixed	10	Blister card
900-012	<50Ω	106Ω	Fixed	6	Blister card
900-132	<50Ω	106Ω	Adjustable	10	Blister card
900-133	<50Ω	106Ω	Adjustable	6	Blister card
900-022	<10 ⁴ Ω	106Ω	Adjustable	10	Blister card
900-023	<10 ⁴ Ω	$10^6\Omega$	Adjustable	6	Blister card



Foot & Heel Ground 900-057





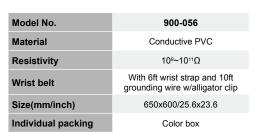


These versatile heel grounders have a specially designed dual-layered cup construction for superior floor contact.





Field Service Kit 900-056











Static-Dissipative Mat 900-114/900-116





Model No.	900-114	900-116	
Material	Face layer: 0.2mm laminated PVC Center, Layer: 2.7mm PVC foam, Bottom layer: 0.1mm laminated PVC, Combination layer: conductive drug		
Resistivity	Face & Center & Bottom, Layers: 10M~1KMΩ/SQ Combination layer: 1K~1MΩ/SQ, Static decay time: less than 0.5sec		
Description	Static dissipative mat for keyboard& mouse & touch	Static dissipative mat for OA desk-top	
Size(mm/inch)	600x1200/23.6x47.2	600x600/23.6x23.6	
Individual packing	Color box	Color box	

