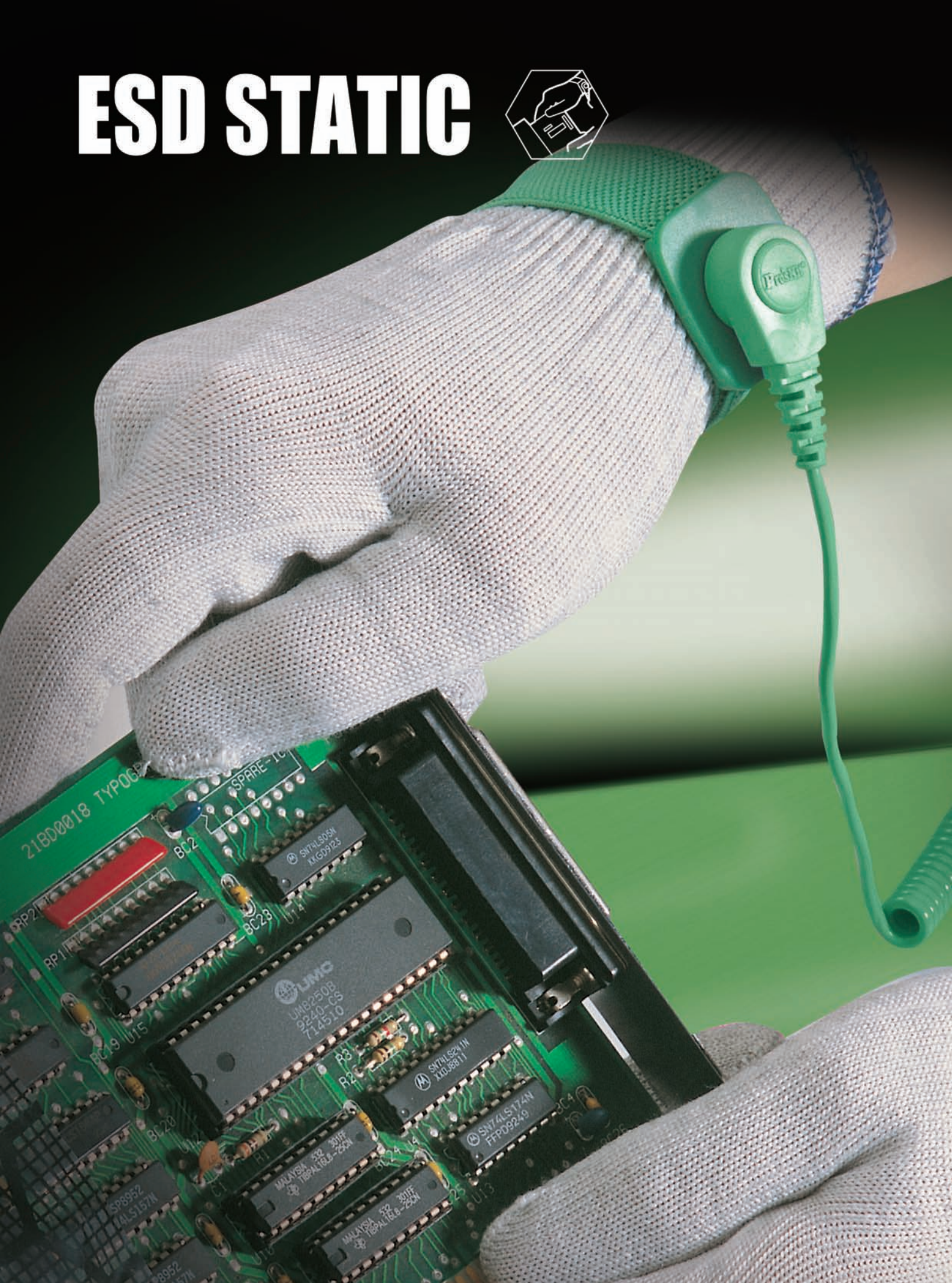


ESD STATIC



Pro'sKit® ESD Tools Solution

What is static electricity? How to prevent?

Static electricity is the imbalance of positive and negative electric charge. When two different materials contact, it will cause the rubbing. The more electrons move, the larger the static charge builds up. On production lines of electronic equipment, electronic components such as ICs will get damaged by such static charges. For static control in work areas, you can use anti-dissipative mats on floors and tables, and have people wear anti-static wrist strap, heel straps. **Pro'sKit®** ESD series will help you to get rid of static electricity 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 conductors. Static control product 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 insulator.

	CONDUCTOR	STATIC CONTROL PRODUCT	INSULATOR
Resistance(Ω)	10^5	10^8	10^{12}
Decay time(SEC)	10^{-6}	10^{-3}	10^0

ESD Products Test Method

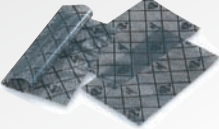
Pro'sKit® ESD series products are tested in accordance with ESD Association standard as following EPA (ESD protected areas) ESD Control Program Plan

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

• This table is quoted from ESD Association standard ANSI/ESD S20.20-2007


Pro'sKit® ESD products applications

P.190




Grid Bags

P.257




Tool Kit

P.51




Plier&Cutter

P.96




Stripper

P.206.211.225




Tweezer & Pick-Up Tool

**P.109-113
P.116-127**



Soldering & Desoldering

P.132-157



Screwdriver & Alignment Tool

P.190

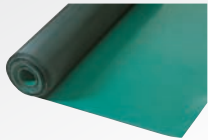



Table & Floor Mat

P.189.190



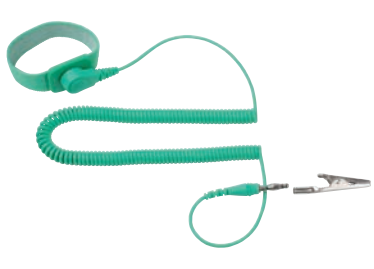
Wrist Strap & Foot Ground

AS-611 / AS-611-6 Wrist Strap



Model No.	Band resistivity	Wrist strap resistivity	Band Size	Cord Size (feet)	Individual packing
AS-611	<50Ω	10 ⁶ Ω	Fixed	10 (3M)	Blister card
AS-611-6				6 (1.5M)	

8PK-611 / 908-611-6 Wrist Strap



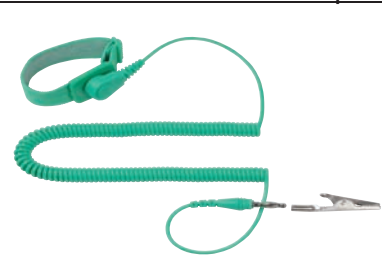
Model No.	Band resistivity	Wrist strap resistivity	Band Size	Cord Size (feet)	Individual packing
8PK-611	<50Ω	10 ⁶ Ω	Fixed	10 (3M)	Blister card
908-611-6				6 (1.5M)	

8PK-611D/ 8PK-611D-6 Wrist Strap



Model No.	Band resistivity	Cord resistivity	Band size type	Cord Size (feet)	Individual packing
8PK-611D	<50Ω	10 ⁶ Ω	Adjustable	10 (3M)	Blister card
8PK-611D-6				6 (1.5M)	

608-611C/ 608-611C-6 Wrist Strap

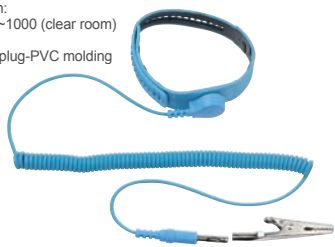


Model No.	Band resistivity	Cord resistivity	Band size type	Cord Size (feet)	Individual packing
608-611C	<50Ω	10 ⁶ Ω	Adjustable	10 (3M)	Blister card
608-611C-6				6 (1.5M)	

AS-611F Quick-Fasten Wrist Band



- Material: T.P.R. plastic.
- Application: Class 100~1000 (clear room)
- Molding: Snap and plug-PVC molding



Band resistivity	Cord resistivity	Band size type	Cord Size (feet)	Individual packing
10 ³ Ω-10 ⁵ Ω	10 ⁶ Ω	Adjustable	6 (1.5M)	Blister card

608-611B/ 608-611B-6 Wrist Strap



Model No.	Band resistivity	Cord resistivity	Band size type	Cord Size (feet)	Individual packing
608-611B	<10 ⁴ Ω	10 ⁶ Ω	Adjustable	10 (3M)	Blister card
608-611B-6				6 (1.5M)	

8PK-611W Replaceable Cordless Wrist Strap

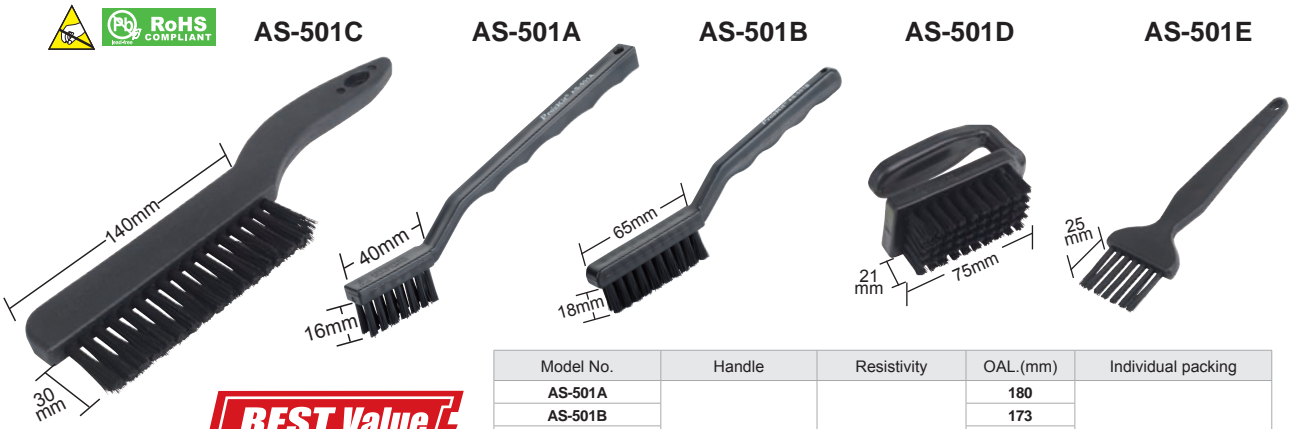


- Cordless operation is not recommended for low humidity environment.
- For high humidity environment.



Band resistivity	Band size type	Individual packing
<50Ω	Adjustable	Blister card

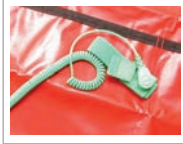
AS-501 SERIES Long Handle Static Brush



BEST Value

Model No.	Handle	Resistivity	OAL.(mm)	Individual packing
AS-501A	Conductive p.p	10 ³ -10 ⁵ Ω	180	Blister card
AS-501B			173	
AS-501C			255	
AS-501D			92	
AS-501E			143	

▶ 8PK-AS07-1 Field Service Kit

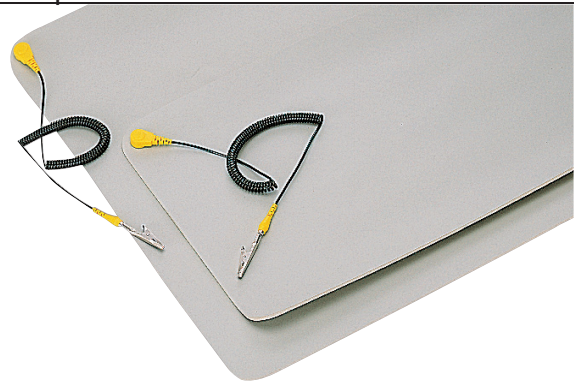


Model No.	8PK-AS07-1
Material	Conductive PVC
Resistivity	10 ⁹ -10 ¹¹ Ω
Wrist belt	With 6ft wrist strap and 10ft grounding wire w/bottom
Size(mm)	650x600
Individual packing	Color box

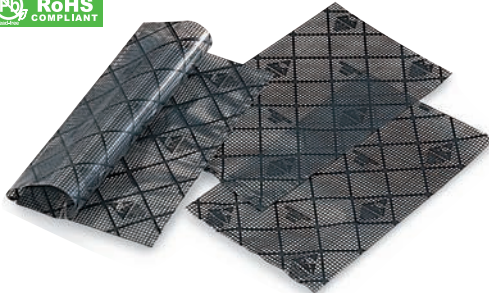
▶ 8BM-401A / 8BM-405A / 8BM-612A Static-Dissipative Mat



Model No.	8BM-401A	8BM-405A	8BM-612A
Material	Face layer: 0.2mm laminated PVC , Center layer: 1.7mm PVC foam, Bottom layer: 0.1mm PVC foam, 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 CPU	Static dissipative mat for keyboard & mouse & touch	Static dissipative mat for OA desk-top
Size(mm)	500x600	600x600	600x1200
Individual packing	Color box		



▶ 808-Q02 Series Conductive Grid Bags



Customer special sizes are welcome.

Model No.	Material	Resistivity	Size (mm)	Individual packing
808-Q02A	PE	Exterior layer: 10 ⁴ -10 ⁶ Ω	150x200	1000 pcs/Bag
808-Q02B			150x250	
808-Q02C			150x300	
808-Q02E			250x300	

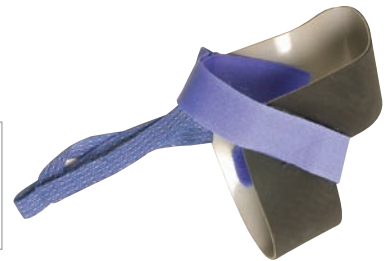
▶ 808-Q05 Foot & Heel Ground



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

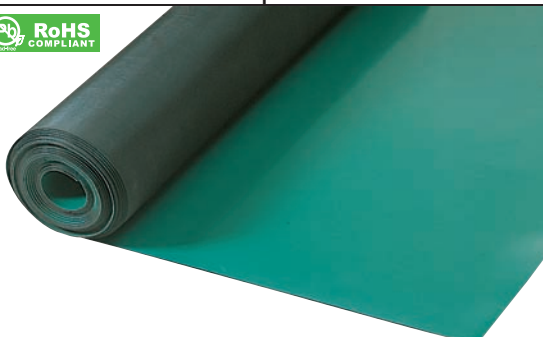


Polyester +
conductive fiber



Resistivity	Wrist belt	Individual packing
1-2 x 10 ⁶ Ω	Adjustable	Blister card

▶ 808-Q03-1 Anti-Dissipative Table Mat



Material	Resistivity	Size	Individual packing
Rubber	Top layers: 10 ⁸ -10 ¹⁰ Ω Bottom layer: 10 ⁴ -10 ⁶ Ω	10M x 1M Thickness: 2mm	Bulk

▶ 808-Q04-1 Static-Dissipative Floor Mat



Material	Resistivity	Size	Individual packing
PVC	Top layers: 10 ⁸ -10 ¹⁰ Ω Bottom layer: 10 ⁴ -10 ⁶ Ω	10M x 1M Thickness: 2mm	Bulk