

GROUNDINGS

ESD / Cleanroom > Groundings



Wrist Strap

Worksurface and personnel should be grounded by the proper using of Wrist Straps, ESD Shoes, Heel Grounders, ESD Clothing, etc. Polstar Wrist Straps provide a reliable and economical pathway of ESD built up on human body to ground. Ground Cords and Coil Cords are also the major parts of a safe work station.

Product	Wrist Strap	Wrist Band	Dual Wrist Strap	Metal Wrist Strap
Item Code	M01Z-000	M03Z-000	M02Z-000	M01Z-000
Appearance				
Snap Dia.	4 mm, 7 mm, 10 mm	4 mm, 7 mm, 10 mm	4 mm, 7 mm, 10 mm	4 mm, 7 mm, 10 mm
Cord Length	6', 8', 10', 12'	-	6', 8', 10', 12'	6', 8', 10', 12'
Material	Wrist Band	Elastic nylon with conductive carbon yarn		
	Back	Stainless steel	Stainless steel	Stainless steel
Color	Wrist Band	Blue, Dark Blue, Purple, etc.	Blue	Black
	Coil Cord	Black, Blue	Black	Black
Resistor	1 Mohm			

Coil Cord



Item Code	M07Z-000
Snap Dia.	4 mm, 7 mm, 10 mm
Cord Length	6', 8', 10', 12'
End Type	Banana plug, Alligator clip, Ring terminal, Snap on both sides

* Snap Dia & Type & Length & Color can be adjustable.

Ground Cord



The Ground Cord is a bridge line between a tabletop or a floor mat and a grounding point. We have 3 different diameters (4 mm, 7 mm, 10 mm) of male and female snaps and several lengths and different Ends of Ground Cords to meet customer's various needs.

Item Code	M05Z-001	M05Z-002	M05Z-006	M05Z-015
Appearance				
Mold Material	Polyurethane (PU)			
Plastic Material	ABS + PC			
Cord Length + Snap Dia.	6ft (1.8 m) + 10 mm	0.5ft (15 cm) + 10 mm	6ft (1.8 m) + 10 mm	6ft (1.8 m) + 10 mm
Cap	Yellow cap on both sides		Yellow cap + Ring Terminal	Yellow cap + Alligator Clip
Color	Black			
Cable Break Load	120N			

* Snap Dia & Type & Length & Color can be adjustable.

Dual Ground Cord

Dual Common Ground Cord can connect 2 wrist straps to one grounding point.

Type	Square type	Round type
Item Code	M06Z-001	M06Z-002
Appearance		

Descriptions

- Snap Dia.: 10 mm
- Cord Length: 10ft
- Cord Dia.: 2.0 mm
- Conductor: 7 strand Tinsel Wire coated with durable 90A polyurethane

- Color: Black
- Cable Break Load: 120N
- Mold Material: Polyurethane (PU)
- Plastic Materials: ABS + PC

Heel Strap

Foot Grounders are one of the best methods to remove static electricity charged on the human body. This will help to protect ESD susceptible products while you are handling them or moving around with them.

Features

- Per ANSI/ESD S20.20, use with ESD Floor "as a grounding alternative to the wrist strap system for standing operations"
- All Foot Grounders are suitable ESD footwear components in your Flooring-Footwear System as the primary grounding method ($<3.5 \times 10^7$ ohms per ESD STM97.1)
- Integral current limiting resistor for enhanced operator safety
- 1 mega ohm resistor (1.5 & 2 mega ohm resistors are available on request)
- Exceptionally long-lasting premium rubber with tear resistant inner scrim and dual wear surface to double its life time

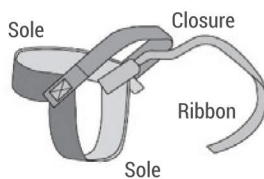
Product	Heel Grounder
Item Code	M13Z-000
Color	Black / White
Ribbon	18"/30" long nylon/polyester tab with 8 conductive strands
Resistor	1 Mohm

* Connecting with plug or snap button



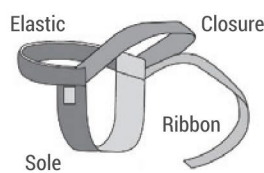
Type D

- Two soles for double life span



Type S

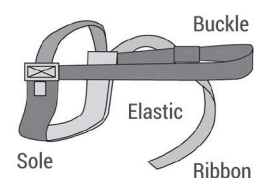
- One sole and an elastic back strap



Product	Toe Grounder
Item Code	M14Z-000
Color	Black / White
Ribbon	12" long nylon/polyester grounding tab with 8 conductive strands
Resistor	1 Mohm

* Connecting with plug or snap button

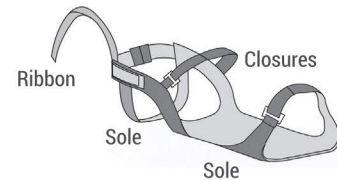
Toe grounder with a snap-lock fastening system is designed for using with the variety of shoes, including high heels, cowboy boots, flat shoes, loafers, safety shoes, etc.

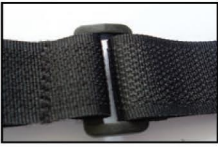


Product	Sole Grounder
Item Code	M15Z-000
Color	Black / White
Ribbon	12" long nylon/polyester grounding tab with 8 conductive strands
Resistor	1 Mohm

* Connecting with plug or snap button

Sole Grounders are equipped with an elastic D-ring fastening system, which provides the snug cinching of ankle strap and allows "flex" during walking. Having the features of Heel and Toe Grounders together, Sole Grounders are widely used with most types of shoes and boots.



Closure Styles	Hook & Loop	Hook & Elastic Loop	D-Ring	Quick Buckle
				
	It provides a comfortable and secure fit	It is easy to be adjusted to fit a individual wearer	It allows "flex" during walking	It provides a quick release

Selection Guide (Heel, Toe and Sole Grounders)

	Item Code	Closure Styles	Velcro (W)	Elastic Velcro(W)	Elastic Strap(W)	Elastic Band(W)	Size	Ribbon (L)	Sole
Heel Grounder (Type D)	M13Z-001	HE		3/4"(BK)			free size	18"	double
	M13Z-002	HE		3/4"(BL)					
	M13Z-003	HE		3/4"(GR)					
	M13Z-004	HL	3/4"(BK)						
	M13Z-005	HL	3/4"(BL)						
	M13Z-006	DR	3/4"(BK)						
	M13Z-007	DR	3/4"(BL)						
	M13Z-008	QB				3/4"(BK)			
Heel Grounder (Type S)	M13Z-500	HE		3/4"(BK)	1"(BK)		free size	18"	Single
	M13Z-501	HE		3/4"(BK)	1"(RE)				
	M13Z-502	HE		3/4"(BK)	1"(GR)				
	M13Z-503	HE		3/4"(GR)	1"(BK)				
	M13Z-504	HE		3/4"(GR)	1"(RE)				
	M13Z-505	HE		3/4"(GR)	1"(GR)				
	M13Z-506	HL	3/4"(BK)		1"(BK)				
	M13Z-507	HL	3/4"(BK)		1"(RE)				
	M13Z-508	DR	3/4"(BK)		1"(BK)				
	M13Z-509	DR	3/4"(BL)		1"(BK)				
	M13Z-510	QB			1"(BK)	3/4"(BK)			
Toe Grounder	M14Z-001	QB		3/4"(BK)	3/4"(BK)		free size	12"	Single
Sole Grounder	M15Z-001	HE		3/4"(BK)	3/4"(BK)		S	12"	Single
	M15Z-002	HE		3/4"(BK)	3/4"(BK)		M	12"	Single
	M15Z-003	HE		3/4"(BK)	3/4"(BK)		X	12"	Single
	M15Z-004	HE		3/4"(BK)	3/4"(BK)		XL	12"	Single

* Colors: BK-Black, BL-Blue, GR-Green, RE-Red

* Closure Styles: HE-Hook & Elastic Loop, HL-Hook & Loop, DR: D-Ring, QB-Quick Buckle

Wrist Strap Tester

Item Code	M10E-003
Test Voltage	Regulated 9 volts, DC
Operating Voltage	6.5 ~ 9 volts
Accuracy	± 5%
Weight	145 g
Dimensions	28 mm(T)×71 mm(W)×90 mm(L)

LED Display Indicator

- ● GOOD (Green): 800 K Ω ~10M Ω
- ● HIGH (Yellow): 10 M Ω above
- ● LOW (Red): 800 K Ω below



Wrist Strap Monitor

Features

- Instant warning of wrist strap failure.
- Easy and convenient to operate
- Compact and handy
- Compatible with any wrist straps with banana plug in the market.

Item Code	M11E-001
Input	AC 220V / 60Hz (DC 6V)
Material	Polystyrene
Dimension	67 mm×60 mm×29 mm
Weight	60 g (not including power supply adaptor)



Dual Bench Mount

Features

- Cord length: 4.5 m
- Wrist strap grounding for 2 persons
- Connecting with plug or snap button



M11Z-001