



#### Key:

- A. Exterior layer made of conductive rubber to ground the operator via ESD flooring
- B. Interior layer made of non-marring rubber that will not blemish shoes
- C. 24" conductive ribbon
- D. One megohm fully insulated current limiting resistor
- E. High visibility lime green hook and loop adjustable closure
- F. Elastic material for comfort

#### Note:

"ESD protective footwear is designed to reduce body charge levels by supplying a conductive path from the body to the floor material. Heel and toe grounders shall be worn on both feet to insure effective use.

The ability of footwear to remove a charge from a charged person who moves from an unprotected area to a protected one, or moves about on an ESD floor should be evaluated. As a person contacts an ESD floor material with static control footwear, the body charge should dissipate leaving minimal residual charge. [ESD Handbook ESD TR20.20-2008 section 5.3.3.3.4 Footwear Proper Usage]

"For standing operations, personnel shall be grounded via a wrist strap system or by a flooring/ footwear system. When a flooring-footwear system is used, one of the two following conditions shall be met:

A. When the total resistance of the system (from the person, through the footwear and flooring to the grounding / equipotential bonding system) is less than  $3.5 \times 10^7$  ohms, Method 1 shall be followed (see Table 2).

B. When the total resistance of the system (from the person, through the footwear and flooring to the grounding / equipotential bonding system) is greater than  $3.5 \times 10^7$  ohms and less than  $1 \times 10^9$  ohms, Method 2 shall be followed (see Table 2 which includes < 100 volt Product Qualification test per ESD STM97.2-1999 Floor Materials and Footwear-Voltage Measurement in Combination with a Person)." [ANSI/ESDS20.20-2007 section 8.2]

Desco recommends the use of foot ground tester item No. [19252](#), [19276](#), or [19277](#).

For additional information on the use and maintenance of foot grounders please ask for Technical Bulletins TB-2020, TB-2040, TB-3034.

	Non-Marking Inner Layer	Black Outer Layer	Test Method
Electrical Properties:			
Charge Decay	< 0.01 sec.	<0.01 sec.	FTMS-1018, Method 4046
RTG w/1 megohm resistor	<10 megohm	<10 megohm	EOS/ESD-S4.1 @ 10V
Physical Properties:			
Abrasion, 1000 grams, 4000 cycles	<1.0 grams loss	<0.1 grams loss	ASTM-D3389 Method B
Hardness	65 $\pm$ 5 Shore A	65 $\pm$ 5 Shore A	ASTM-D2240

Meets the requirements of ANSI/ESD S20.20-2007 Table 2 Method 2, JEDEC-108/9, MIL-HDBK-263A, MIL-STD-1686, and DOD-STD-2000.

Caution: The foot grounder is for ESD control. It will not reduce or increase your risk of receiving electric shock when using or working on electrical equipment.

#### NEON LIME HEEL GROUNDER, ONE MEGOHM

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