

# 3M™ Front Sole Grounder -FSG1M

## Front Sole Grounder

This grounder provides improved floor contact by covering ball of the foot with conductive rubber. Two D-Ring's and a clasp provide a comfortable and secure fit. This quality grounder is tested for electrical performance and is lot numbered for QC traceability. 3M uses time-tested construction techniques including computer controlled stitching, riveting, die cutting, and heat cutting to ensure consistent performance.

## Standards

Meets the requirements of ANSI/ESD S-20.20, EIA 625, MIL-STD-1686, and MIL-HDBK-263.

## Specifications

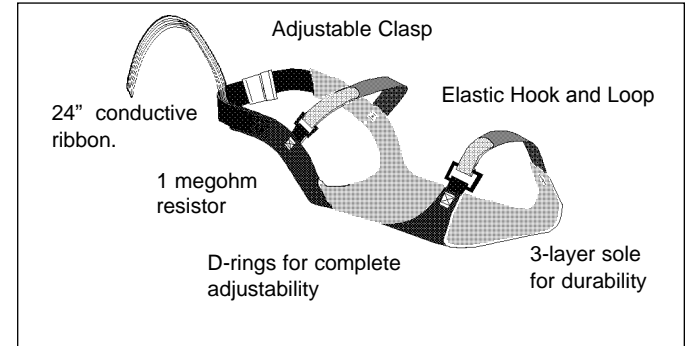
Resistor: 1 or 2 megohm  
Color: Black  
Ribbon: Multi-strand, carbon suffused nylon on polyester, sewn in sinusoidal pattern to provide side to side conductivity.  
Hook and Loop: 3/4" Black  
D-Ring: 2  
Elastic Strap: 3/4" Black with clasp  
Sole Exterior: <math>10^5</math> ohms

## Part Numbers

FSG1M-S Small Front Sole Grounder, 1 meg resistor  
FSG1M-M Medium Front Sole Grounder, 1 meg resistor  
FSG1M-L Large Front Sole Grounder, 1meg resistor  
FSG2M-S Small Front Sole Grounder, 2 meg resistor  
FSG2M-M Medium Front Grounder, 2 meg resistor  
FSG2M-L Large Front Sole Grounder, 2meg resistor

See 3M Data Sheets for these related items:

3M™ Foot Grounder Tester  
3M™ Floor Mats



### How Foot Grounders Work

Foot grounders discharge static from a person to ground by connecting the person to a grounded walking surface. A conductive ribbon placed inside the wearer's shoe or sock makes electrical contact with the skin through perspiration. The ribbon is joined to a resistor which limits current should accidental exposure to electricity occur. The other end of the resistor is joined to a conductive sole. This sole contacts a grounded ESD floor mat or ESD flooring system. Foot grounders must be worn on both feet to maintain ground contact while walking.

P R O D U C T D A T A S H E E T

## Front Sole Grounder

PRODUCT  
FRONT SOLE GROUNDER

ITEM NUMBER  
SEE ABOVE

DATASHEET  
1170-A

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