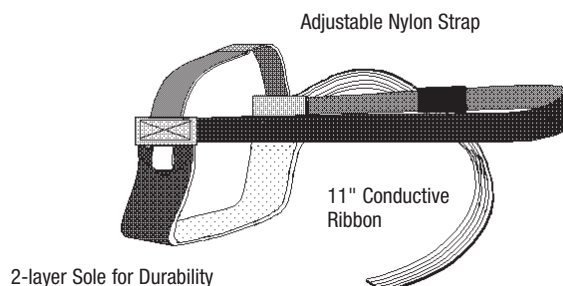


3M™ Toe Grounder Assembly 2053

Designed for use with high-heeled shoes, the Toe Grounder Assembly 2053 grounds personnel when they are in contact with conductive and dissipative flooring. A comfortable elastic toe strap and 11 in. (28 cm) long conductive ribbon for insertion into the shoe complete the ground path to the operator. To be effective, the Shoe Grounders must be worn on both feet. Available with a 1 megohm resistor. Meets category ESD SP9.2 Type A.



WARNING:

All 3M Shoe Grounding Straps and Assemblies should not be used in areas where the individual may come in contact with electrical circuitry exceeding 250 volts.

Specifications	Typical Value
Hook and Loop	3/4"
Sole Interior	Non-marking
Sole Exterior	<10 ⁵ ohms
Total Grounder*	1.0 x 10 ⁶ ohms

*Meets the requirements of ANSI/ESD S-20.20-2014, EIA 625

*ESD-SP9.2

Part Numbers

2053	Toe Grounder Assembly, 1 meg resistor
------	---------------------------------------

How Toe Grounders Work

Toe grounders virtually eliminates a charge on a person by electrically connecting the person to a grounded surface. A conductive ribbon placed inside the wearer's shoe or sock makes electrical contact with the skin through perspiration. The assembly contains a current-limiting resistor which protects the operator from accidental exposure to electricity. Toe grounders must be worn on both feet to maintain ground contact while walking.

3M is a trademark of 3M Company. All other trademarks are owned by their respective companies.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for one year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



Electronics Materials Solutions Division Static Control Products

926 JR Industrial Drive
Sanford, NC 27332-9733
Toll-Free: 866-722-3736
International: 919-718-0000
Email: 3mstaticinfo@mmm.com
www.3mstatic.com

Please recycle. Printed in USA.
© 3M 2014. All rights reserved.
78-9102-1627-0 JHA