



# Economy Heel Grounder 2044

## Visible Proof

### **New 3M™ Economy Heel Grounder 2044 Offers Effective Protection at Low Cost**

Invisible to the eye, electrostatic damage (ESD) is responsible for causing hundreds of thousands of dollars in damage to high tech electronic equipment in manufacturing, not to mention the loss of a company's valuable reputation and time. Simply walking across a floor can cause enough static to build up and create a discharge that generates the "zap" of a static shock. But even the smallest static discharge, measuring only a few hundred volts, is enough to damage sensitive electronic circuitry found in computers, cellular telephones, and other devices.

High-tech manufacturing companies now have a new help in the fight against ESD that offers visible proof that static controls are properly in place. 3M is proud to introduce the new 3M Economy Heel Grounder 2044—a cup-style heel grounder with a high visibility "yellow glow" strap that helps facility supervisors effectively manage their static control program. With the new economy heel grounder, supervisors may now see at a single glance whether employees are properly wearing their heel grounding assemblies, and ensure their company is protected against static damage.

Dependable and cost-efficient, the heel grounder effectively grounds mobile personnel when they are in contact with conductive and dissipative flooring, and should be an integral part of any static control system in the workplace.

In addition to the bright yellow coloring, the heel grounder's cup construction satisfies customer need for durability, while the one-inch width of the heel strap material ensures a "one size fits all" conformity of fit that will accommodate a wide variety of shoe shapes and sizes. The heel grounder's strap is made of conductive, abrasion-resistant synthetic rubber material with a black slip and slough resistant outer layer that provides a reliable static ground, and comes with a one-megohm resistor.



Local 3M static control experts are available to offer expert advice on how to make the 3M Economy Heel Grounder 2044 part of your company's total static control program.

Call **1-800-328-1368** to discover how to 3M can help meet the electronic industry's challenge of protecting static sensitive components during handling and transportation.

# 3M™ Economy Heel Grounder 2044

Property	Typical Value
Tri-layer conductor sole	One (1) "V" shaped piece 1"W x 7"L made of conductive, abrasion resistant synthetic rubber with black slip and slough resistant outer layer, nylon reinforcing scrim, rust-colored, slough-resistant insulative synthetic rubber inner layer
Conductive ribbon	Gray, with eight (8) conductive threads, 3/8" W x 24"
Outer ankle strap	"Yellow Glow" high visibility material, 3/4" W x 8" L loop with 4" black elastic band sewn into loop for comfort
Inner ankle strap	"Yellow Glow" high visibility material, 3/4" W x 6" L hook
Assembly resistance	1.5 MΩ maximum Electrical test: point to point, 5 lb weights, 2 1/2" diameter (per ESD Standard S4.1 or S 7.1) 100 volts, from the end of the conductive ribbon to the farthest point away from the conductive ribbon on the laminated sole.

## Ordering Information:

Product Number	Minimum Order Qty.	Case Qty.
98-0798-5428-1	1 case	960 each

**⚠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; with the exception of the 3M™ Velostat™ 2045 Disposable Shoe Grounding Strap, which should not be used in areas where the individual may come in contact with electrical circuitry exceeding 120 volts.

For ordering information, technical and product information, or to request a copy of the Material Safety Data Sheet, you can reach us at:

**Phone:** 1-800-328-1368

**Fax:** 1-800-328-9329

"Velostat" is a trademark of 3M Company.

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