Micastat® Static Protective Laminate Installation and Maintenance





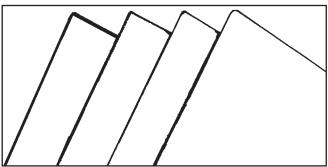


Figure 1. Micastat Protective Laminate ESD Blue, ESD Grey, ESD Beige, ESD White

Description

Micastat® is a high pressure static dissipative laminate designed for workbench tops used in the manufacture and assembly of ESD susceptible electronic components. Micastat® meets ANSI/ESD S20.20 requiring RTG <109 Ohms per ESD S4.1 and antistatic low tribocharging materials <200 volts per ESD STM 4.2. Its patented* multilayer construction features a conductive layer which ensures dissipative properties independent of ambient humidity. Micastat® shows superior abrasion resistance and provides rapid, non-sparking charge dissipation. It can be laminated to plywood, fiber board, partical board tables and bench tops with conventional contact adhesives. It is resistant to most solvents and greatly exceeds the NEMA specification for wear resistance.

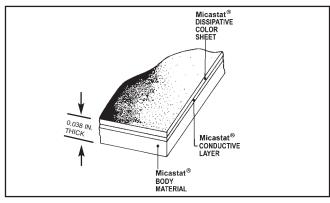


Figure 2. Micastat® layered construction

Installation

Micastat® is designed to be laminated to wooden tables or bench tops with conventional contact adhesive and will perform very well in the most rigorous postforming applications to a minimum of 5/8" radius. Desco suggests the use of a high quality solvent or water-based contact

cement, white glue (PVA), epoxy, and hot melt glue. Consult your adhesive supplier for specific application requirements. Micastat® is a universal grade laminate for use in general purpose, postforming and high wear applications. For details on the installation of Micastat® and other high pressure laminated plastic sheets refer to National Electrical Manufacturers Association (NEMA) publication LD 3-1995 or follow these step by step directions for non-postforming applications.

- Prepare the face of the substrate. It should be clean, dry and free of all contaminants which would interfere with adhesion. Caution should be taken when removing sheets and pads from its box, sheets and pads are high pressure laminate plastic and can be susceptible to cracks and breaking if not conditioned before handling and installation at 70 to 75deg F and 45-50% RH for 48 hours.
- 2. Stir the adhesive thoroughly and apply an even coat of adhesive by either spray, roller or brush to both the substrate face and the Micastat® back. Do not allow coated surfaces to touch. Allow the cement to dry. When bonding to plywood, apply a second coat if the first coat completely penetrates the wood. Use uncoated wood strips to assist in connecting coated surfaces.
- 3. Place thin, uncoated, wooden strips 12 inches apart across the substrate face. This will keep coated surfaces apart; bonding will occur once contact is made.
- 4. Position the over-cut Micastat® sheet on top of the wooden strips.

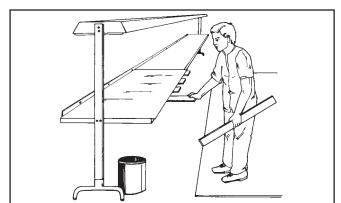


Figure 3. Micastat® sheet on wooden strips

*Micastat® is a registered trademark of Desco Industries, Inc. and is manufactured under one or more of the following U.S. patents:4,455,350, 4,589,954, 4,645,717, 4,454,199.

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- Slowly remove strips of wood taking care to keep the Micastat[®] in position. The Micastat[®] should fall into position.
- 6. Push the laminate down with even hand pressure.
- 7. If the Micastat® falls out of position, squirt solvent (Desco recommends the use of ST102 solvent from Pionite) between the two surfaces and gently lift the Micastat® sheet up. Wait a minimum of 4 hours before reapplying another coat of adhesive, solvent must evaporate totally. Apply another coat of adhesive to both surfaces and reposition.
- 8. When Micastat® is in the correct position, seal the bond with a rubber "J" roller or a carpeted block and rubber mallet. Use either roller or block and mallet in a pattern that forces any air bubbles out from underneath laminate. If Micastat® sheet is oversized, sheet can now be trimmed with a router. After trimming, edges should be filed for a smooth splinter free edge.

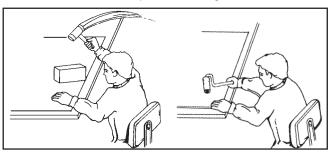


Figure 4. Wooden block and rubber mallet and "J" roller technique.

Once installed, Micastat® must be grounded to ensure proper charge dissipation. Refer to general grounding guidelines on this page.

Postforming Application

When the universal grade Micastat® is exposed to a temperature of 325 degrees Fahrenheit it will soften momentarily, allowing a straight line bend to be made. This bend should be made quickly and uniformly and have a radius equal to or greater than 5/8". The chemical change that takes place in this process cannot be reversed; Micastat® cannot be reheated. Proper postforming machinery and close attention to details such as time and temperature are essential for best results. Preinstallation storage conditions are critical to postforming performance.

For detailed postforming information please refer to NEMA publication LD 3-1995 or follow these general directions.

- Micastat® should be conditioned at 70F to 75F and 45-50 percent relative humidity for 48 hours prior to postforming. Recommended postforming machinery includes Midwest Automation and Evans Rototorque.
- The radiused edge of substrate must be smooth, rounded, and free of irregularities and loose particles.
- 3. Lead-in cracks may be minimized by ensuring a smooth cut on the edge of the laminate.
- 4. Always bond Micastat® to a suitable substrate such as medium to high density fiberboard, or particleboard. It should not be glued directly to plaster walls, gypsum wallboard, concrete, or metals.
- Recommended adhesives include solvent or waterbased contact cement, white glue (PVA), epoxy, and hot melt glue. Consult your adhesive supplier for specific application requirements.
- The use of a backing sheet is recommended to minimize warpage. The thickness of the backing sheet should be relatively equal to the thickness of the decorative laminate on the face of the assembly.
- 7. The decorative surface to be formed should be heated to a temperature of 325% to 375% (165% to 190%).
- 8. Heat the Micastat[®] "wings" only, to 325\(\mathbb{F}\) to 375\(\mathbb{F}\) (165\(\mathbb{C}\) to 190\(\mathbb{C}\)) with a Chomelux heater held 2" to 2.5" from the surface. Tempilaq[®] liquid temperature indicator or equivalent should be used to determine the temperature.
- The desired heat-up rate of 325 F (165 ℃) should be one second for every 0.001" of thickness (i.e., 30 seconds for .028", 38 seconds for .038".
- Forming should be accomplished within 5 seconds of achieving proper surface temperature.
- 11. Heat up rates of laminate are affected by thickness, color, and finish. Temperatures should be verified by temperature-indicating wax (Tempilaq®).
- 12. Let the Micastat® laminate cool for five to ten minutes under pressure.

Fabrication Tips

1. All saw blades and router bits used for cutting should be carbide tipped. Feed rate should be slow and tool speed should be high. To minimize the development of surface scratches caused by router bits, lubricating the laminate edge with a wax stick is recommended prior to tooling.

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- Inside corners of cutouts for electrical outlets, sinks, etc., should have a minimum radius of 1/8" (3mm) and should be filed smooth. This reduces the likelihood of stress cracks.
- All edges of laminate should be filed smooth with file direction towards substrate to help prevent stress cracks and to minimize chipping.
- When nails or screws must be used, it is advisable to first drill an oversized hole through the laminate. This reduces the likelihood of stress cracks.
- Micastat[®] is intended for interior use only, and should not be exposed to extreme humidity, continuous sunlight, or temperatures above 275°F (135°C) for extended periods of time.
- Work surfaces must be grounded for proper static dissipation.

For more information on the characteristics of nonindustrial laminates related to end-user applications please refer to National Electrical Manufacturers Association, publication LD 3-1995. The address for NEMA is:

NEMA

1300 North 17th Street, Suite 1847 Rosslyn, Virginia 22209

Phone: 703-841-3200 Web: www.nema.org.

Once installed, Micastat® must be grounded to ensure proper charge dissipation. See below.

General Grounding Guidelines

- When grounding Micastat®, it is essential to make intimate contact with the conductive layer which is directly below the dissipative, color layer. See the diagram on page 1 showing the multi-layered construction.
- 2. For proper and safe ESD protection, the grounding wire must be tied directly to and at the same potential as the facility power ground or "green wire" ground. A typical "green wire" ground if properly wired is the screw of a switch or outlet cover plate.
- If power is to be used at the ESD protected workstation, per ANSI/ESD S20.20 paragraph 5, a Ground Fault Circuit Interrupter (GFCI) is recommended.
- 4. Test all workstation grounds for proper resistance to ground. See Desco Technical Bulletin TB-2007 for a complete discussion of grounds. For information on instruments and procedures for the proper testing of grounds we recommend that you contact ECOS Electronics, 205 Harrison Street, Oak Park, IL 60304, (708) 383-2505, Fax (708) 383-2137.

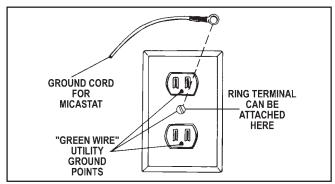


Figure 5. Outlet plate with "green wire" ground

5. The selection of ground cords is intimately related to the organization's material handling procedures. It is important for a user to be familiar with his/her own organization's grounding specifications and ESD procedures prior to selecting ground cords. See paragraph 2 in Cautions section of this Technical Bulletin.

Grounding Methods for Installed Sheet Goods

Desco offers two styles of ground systems that will ground your static dissipative laminate worksurface: Item No. 14240 and 14246. These ground assembly kits are for use when the laminate sheet is installed on a wooden workbench top.

1. Item No. 14240, our Laminate Grounding System contains all the items needed to properly ground a permanently installed Micastat® top. This includes a 10 foot grounding wire terminated with a one megohm resistor and No. 10 ring terminal and a grounding bolt complete with single wrist strap banana jack connection terminal.

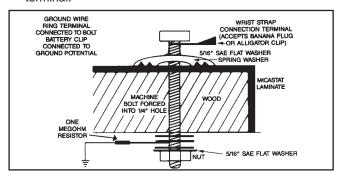


Figure 6. Installation of 14240.

 Item No. 14246, our Flush Mount Laminate Ground Insert with Bench Ground is also available without a dual wrist strap ground sold as Item No. 14244. Both 14244 and 14246 can be easily installed with our Drill Kit Item No. 14242.

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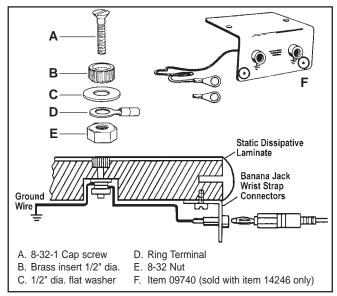


Figure 7. Component Parts and Installation of 14244 and 14246.

Installing the Flush Mount Insert Ground System

The following instructions are based on a top with a thickness of 1-1/4" (30mm) tops.

2.1. Using drill tool 14242:

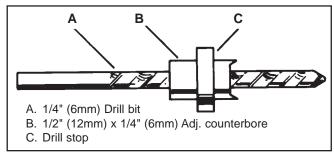


Figure 8. Drill Tool 14242.

- a. Set the 1/4" (6mm) drill bit and adjustable counterbore so that the 1/4" (6mm) bit will drill clear through the work surface.
- b. Set the drill stop so the drilling depth of the 1/2" (12mm) counterbore is .200" (+.000" .010")
- 2.2. Using the drill kit 14242 as adjusted above, position drill bit on the top of the worksurface at the point you want to install the flush mount insert.
- 2.3. Drill perpendicular from the top surface straight into the work surface until the drill stop touches the laminate surface. This should be at a depth of .200".
- 2.4. Using the 1/4" (6mm) pilot hole on the bottom of the work surface drill a 1 1/2" (37mm) diameter counterbore 5/8" (16mm) deep, of no more than 1/2 the thickness of the worksurface.

- 2.5. Seat the 8-32 cap screw through the brass insert so that it sits flat with the top of the insert.
- 2.6. Push the cap screw and brass insert assembly into the 1/2" (12mm) diameter hole on top of the worksurface. Attach and tighten the 8-32 nut until the brass insert is flush with the laminate surface.
- 2.7. Remove the 8-32 nut and install the flat washer, ring terminal and 8-32 nut as shown above. The ring terminal is for a ground wire attachment.
- 2.8. Using approximately 22 gauge wire, crimp the supplied ring terminal to the wire and secure it to the 8-32 cap screw using the 8-32 nut. Attach the unterminated wire end to a building ground. THE MICASTAT® WORKSURFACE IS NOW GROUNDED. Recommended practice per ANSI/EOS/ESD S6.1-1991 is no resistor between the common point ground terminal and a worksurface, floor mat, or shelving.
- 2.9. FOR INSTALLING dual wrist strap ground (item 09740) included with item 14246 ONLY. Place item 09740 at the position desired to install, screw in place using enclosed screws.
- 2.10. Using the ground wire from the 09740, cut the length of the ground cord so that it will reach from the 09740 to the underside of the worksurface at the 8-32 screw. Crimp the extra ring terminal to the end of the wire and bolt it to the underside of the work surface using the 8-32 cap screw and nut.
- 2.11. Using the remaining wire cut from the 09740, attach the ring terminal end to the 8-32 cap screw and nut. Using the ring terminal enclosed, terminate the other end to a ground source. This will GROUND both the Micastat® top and the dual wrist strap ground.

Grounding Method for Continuous Monitors

Materials Needed for Item 19232 and 19665:

2 ea. 14244 Flush Mount Laminate Ground Insert1 ea. 14242 Installation Tool for Flush Mount Insert

- 1. Install the Flush Mount Inserts first. It is recommended to install one in the right back corner and the other in the left back corner of the Micastat® laminated bench top.
- Once both inserts are installed, cut the ground cord supplied with the monitor into two pieces; make sure that the tinned end is long enough to connect from the monitor to one of the flush mount terminals located under the bench.
- The remaining wire can then be used to connect the other flush mount terminal to ground using the supplied ring terminal. The shrouded molded end can then be cut off.

When complete, one flush mount terminal will connect the Micastat® laminate to ground, while the other will connect it to a monitor. The monitor then monitors the ground connection between the two inserts, and since Micastat® is

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the only ESD laminate made with a physical uniform ground layer, it will monitor the entire Micastat® surface ground. The wires will stay under the bench, maximizing the usable space on the bench top.

Materials Needed for Item 19212:

- 2 ea. 14244 Flush Mount Laminate Ground Inserts
- 1 ea. 14242 Installation Tool for Flush Mount Insert
- 1 ea. 09857 10mm Socket and Rivet (100 per pack)
- 2 ea. 8-32 button cap screws
- Install the 14244 Flush Mount Inserts in the snap pattern for the monitor.
- Once installed, remove the 8-32 taper head screw supplied.
- Place a 10mm snap socket on top of the installed 14244 brass insert.
- 4. Screw the 10mm snap socket into place on the insert using an 8-32 button cap screw.
- Do this for both inserts and snap attach the 19212 Mini Monitor into place; it is now grounded to and monitoring the Micastat[®].

Grounding Method for Micastat® Pads

Micastat® Pads have the same dissipative characteristics as Micastat® Sheet. The pads have pressure sensitive adhesive on the underside for rapid and secure installation. They are packed complete with an installed, 10mm (.395") snap socket and a Common Point Ground Cord Item No. 09826. The Common Point Ground provides banana jack receptacles for two wrist straps.

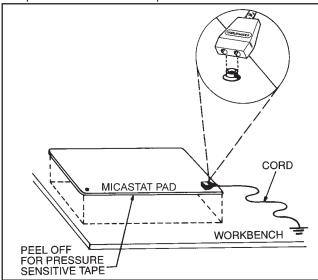


Figure 9. Proper installation of Micastat® Pad.

 Remove the protective carrier from the pressure sensitive adhesive. Lay the Micastat® Pad in position and snap on the 09826 ground cord. Bring the other end of the ground cord to a "green earth ground" and attach it using the ring terminal. A suggested "green earth ground" is the center screw of a standard outlet. Testing is recommended to ensure that the screw is properly grounded. If there is excess wire you may want to cut and strip the ground wire to a shorter length and attach it with another ring terminal, which is included with each 09826 ground cord.

Cautions

 Only one (1) groundable point should exist on any ESD protective work surface or floormat. ESD protective workstation components, such as work surfaces, should never be grounded in series (daisy chained).

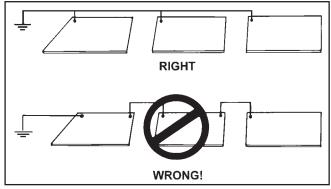


Figure 10. Work surfaces should NEVER be daisy chained.

- The Common Point Ground Cord shipped with the Micastat® Pad has a 1 Megohm resistor. A non-resistor Common Point Ground Cord, Item No. 09825 may be purchased separately.
- The ESD-S1-1 Standard calls for a 1 megohm current limiting resistor in the wrist straps used with an ESD protective work surface such as Micastat® Pads or Sheets.
- 4. ESD Handbook TR20.20 worksurface 5.3.1.9.3 High Pressure Laminates. These materials are rigid and are applied to a substrate, typically with adhesive systems. The majority of these materials follow the multi-layer description above. There are, however, some types that are basically homogeneous in construction.

Because the electrical properties of many high pressure laminates have some degree of humidity dependence, all high pressure laminate materials should be carefully tested for adequate performance at low humidity prior to selection and installation.

Multi-layer Micastat® with conductive layer is not homogenous and is not humidity dependent.

Testing

There are two types of tests for monitoring Micastat® surface electrical characteristics. One type of test is RTG - Resistance To Ground (see Figure 12). In this test you measure the resistance of the laminate surface to the installed ground bolt (or snap on a Micastat® Pad). When

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performing this test on Micastat® Pads the snap serves as the ground point.

A second type of test is RTT (Resistance, Point to Point). Here you measure the resistance from one 5 lb. electrode to another 5 lb. electrode; see electrode test positions A, B, C, and D in RTT test diagram, Figure 13. This is the test that is more typically used in the laboratory to determine Micastat® compliance with electrical specifications. Both test procedures are outlined in this Technical Bulletin using the Desco Surface Resistance Test Kit Item No. 19780.

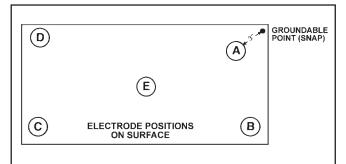


Figure 11. Electrode positions on surface of pad, RTG test.

Resistance To Ground (RTG):

- 1. Locate the five pound electrode positions, as described below, to be used on the Micastat® surface in relationship to the installed ground bolt (or snap on the Micastat® Pad). Use the relative positions shown above.
 - At least 2" from any surface edge and 3" A from the ground bolt.
 - B, C & D The farthest corners from the ground bolt and 2" from any surface edge.
 - E -The geometric center of the surface.
- 2. Disconnect the surface to be tested from its normal ground connection.
- 3. Connect one black lead to the meter and the other end of this lead to the 5 lb. electrode.

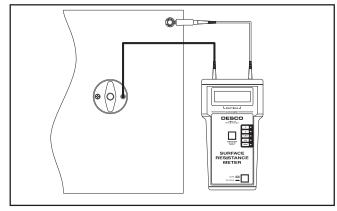


Figure 12. Proper connection of leads.

- 4. Connect the other black lead to the meter and the groundable point on the mat.
- 5. Place the electrode at position A on the mat (see the RTG diagram) and set the meter selector switch to 100V.
- 6. Push on On/Off button, for the 15 second electrification period and then record the reading in ohms.
- 7. Release the On/Off button. Move the electrode to each of the other four positions on the surface and repeat the
- 8. Average the results of the five readings to obtain an average measurement of the resistance of surface to ground.

Resistance Point to Point (RTT):

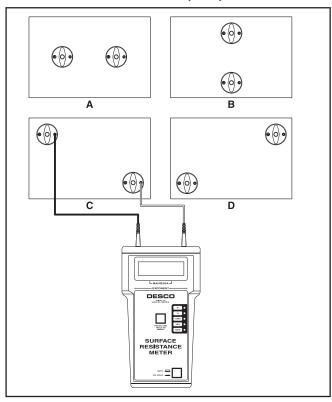


Figure 13. Electrode positions on surface of pad, RTT test.

- 1. Locate the four pair of electrode positions to be used approximately as shown in the RTT test diagram above. Position electrodes at least 10 inches apart and not less than two inches from any edge.
- 2. Disconnect the surface to be tested from its normal ground connection.
- 3. Connect one end of the black lead to the meter connect the other end of this lead to either one of the electrodes. It does not matter which lead is connected to which weighted electrode.

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- 4. Connect the other lead to the meter. Connect the other end to the other weighted electrode.
- 5. Place the electrodes in position A as shown in RTT test diagram (Fig. 13). Set the meter selector switch to 100V.
- 6. Push the On/Off button, for the 15 second electrification period and then record the reading in ohms.
- Release the On/Off button. Move the electrode to each of the other three positions on the surface and repeat the test.
- Average results of the four readings to obtain an average measurement of the resistance of the surface between two points.

Maintenance

- It is important to store Micastat[®] laminate sheets at the same relative humidity as the material to which it will be bonded. This will prevent a moisture imbalance in application.
- 2. Micastat® may swell slightly if a damp object is kept in continuous contact with the surface for more than 12 hours. This is normal; the swelling will disappear soon after the damp object is removed.
- 3. Micastat® may be cleaned with Reztore® Antistatic Surface and Mat Cleaner, Item No. 10435 or any household soap solution. Be careful that household soaps are silicone free and do not leave an insulative layer behind. This will reduce electrical properties. Difficult stains may be removed with organic solvents such as acetone, alcohol, methyl ethyl ketone (MEK) or paint thinner.

Limited Warranty

Desco expressly warrants that for a period of one (1) year from the date of purchase, Desco Micastat® Static Protective Laminate will be free of defects in material. Within the warranty period, the material will be tested, repaired, or replaced at Desco's option, free of charge. Call Customer Service at 909-627-8178 (Chino, CA) or 781-821-8370 (Canton, MA) for Return Material Authorization (RMA) and proper shipping instructions and address. Include a copy of your original packing slip, invoice, or other proof of date of purchase. Any material under warranty should be shipped prepaid to the Desco factory. Warranty replacements will take approximately two weeks.

If your material is out of warranty, Desco will quote repair charges necessary to bring your unit up to factory standards. Call Customer Service at 909-627-8178 (Chino, CA) or 781-821-8370 (Canton, MA) for Return Material Authorization (RMA) and proper shipping instructions and address.

Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

Limit of Liability

In no event will Desco or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.

RoHS Compliance Statement

None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1. See Desco Industries Inc. letter on-line at Desco.com.

"It should be understood that any object, item, material or person could be a source of static electricity in the work environment. Removal of unnecessary nonconductors, replacing nonconductive materials with dissipative or conductive materials and grounding all conductors are the principle methods of controlling static electricity in the workplace, regardless of the activity." [ESD Handbook TR 20.20 section 2.4]

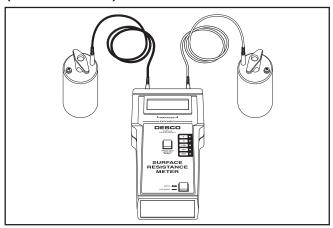
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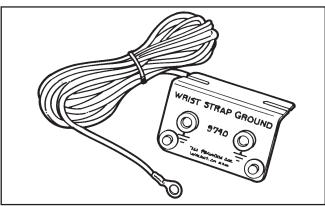
Other Products From Desco

Surface Resistance Test Kit (Item No. 19780)



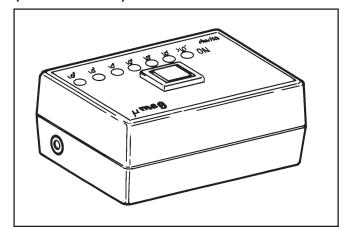
The Surface Resistance Test Kit is a portable, accurate, and versatile instrument designed to measure resistance between two points (RTT), surface to ground (RTG), and surface resistivity in accordance with ESD Association Standard S4.1 including: Resistance measuring accuracy ± 10% (E¹² and greater ±20%); Resistance range <1.0 x 10³ ohms to >10¹² ohms; Open circuit voltages of 10 and 100 volts ± 3%; Electrification period of 15 seconds; and Electrodes (two) 5 pounds ± 2 oz with 50-70 durometer conductive pads. For detailed information ask for Technical Bulletin TB-3014.

Bench Mounted Ground With Two Banana Jacks (Item No. 09740)



The 09740 Bench Mounted Ground With Two Banana Jacks consists of a mounting bracket with two standard banana jacks installed and soldered to a ten foot ground wire. Ideal for mounting on workstations and grounding wrist strap ground cords. For more detailed information ask for Drawing 09740.

:Meg[™] Pocket Megohmmeter (Item No. 19635)



The Meg[™] Pocket Megohmmeter features a simple, onebutton operation. This small, hand-held Megohmmeter is for measuring both Surface Resistivity and Surface to Ground Resistance. Item No. 19635 operates on a replaceable 9 volt battery. This instrument is ideally suited for Quality Control, Field Service and spot check auditing of ESD programs. For detailed information ask for Technical Bulletin TB-2083.

Reztore[™] Antistatic Surface & Mat Cleaner (Item No. 10435)



Desco's Reztore™Antistatic Surface and Mat Cleaner is a non-toxic, silicone-free liquid cleaner used to remove dust, grease, grime, fingerprints, and solder flux from all surfaces used in a static sensitive area. Reztore™ leaves no insulative residue, contains no alkali or ammonia, and is nonflammable. Reztore™ is available in a 16-oz. spray bottle (Item 10434), a quart spray bottle (Item 10435), and a 2.5 gallon bag-in-box (Item 10438). For more detailed information ask for Technical Bulletin TB-2032.

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