



PED-655 Desktop Engineer Workstation

Static can be a problem anywhere. It is especially dangerous to new designs and developmental projects. Now, a complete, portable desktop ESD workstation can easily be set up anywhere the engineer is working. Don't be caught unprotected. Use this handy workstation any time you are working on a circuit board, evaluating components or testing prototypes. Set it up at your desk, in the conference room or any temporary workspace. Each workstation is ESD performance tested.

Specifications

PRM-652 RUBBER MAT

Resistance Rtt:	At 10 Volts, 12% RH (Rtt):	$10^6 - 10^8$ ohms
	At 100 Volts, 50% RH (Rtt):	$10^6 - 10^8$ ohms
Resistance Rtg:	At 10 Volts, 12% RH (Rtg):	2.5×10^7 ohms
	At 100 Volts, 50% RH (Rtg):	8.5×10^6 ohms
Voltage Gradient:	Voltage apparent on the mat surface 5" from a discharge point (during electrification to 5,000 Volts): Less than 25 Volts	
Static Decay Time:	5,000 Volts to less than 50 Volts in .01 seconds	
Charge Retention:	Residual voltage: < 10 Volts	
	Initial voltage of 5,000 volts dissipated upon contact with installed samples. Residual voltage after plate lift was < 10 Volts.	
Size:	12" x 16" (30.5 cm x 40.6 cm)	
Thickness:	2 mm, lays flat, will not curl, will not chip	
Color:	Grey with low reflecting satin finish to reduce glare	

PWS-620 METAL WRIST STRAP

Construction:	Made from jewelry quality stainless steel, non-rusting, tested to MIL STD 202 Method 101
Thickness:	3.5mm, average weight 33 grams Manufactured to 130mm circumference with 5 each 10mm nylon expansion links
Electrical Properties:	Outer band: insulative at 500 Volts per unit millimeter, coating is polyurethane based polymer Inner band: Conductive - $< 1.0 \times 10^4$
Quality Control:	Each band is date and lot coded to total quality control and auditing
Elasticity:	Expansion ratio 1.5:1
SNAP/SIZE:	4mm post snap for ground cord, non-rusting, tested to MIL STD 202 Method 101
Color:	Gray
Markings:	Prostat logo
Meets or exceeds:	DOD-HDBK-263, DOD-STD-1686, EOS/ESD Std. No. 1-1987, EN10015/1
UL Listed:	File E 157590

CORD ASSEMBLY:

Cord:	Heavy Duty, Lightweight construction of Single bundle, laced tensile conductors reinforced with synthetic fibers. Cord Diameter: 0.06" Coil Diameter: 0.26" Alligator clip supplied.
Resistor:	One megohm ($\pm 10\%$) resistor molded into snap connection
Ground Connection:	Standard banana plug
Warranty:	Warranted for One Year against mechanical and electrical defects.
Cord Extension:	Full extension greater than 13 feet. Working length greater than 10 feet.

Tested: Provides over 100,000 bending cycles per EOS/ESD-S1.0-1987 procedures.

WARNING: A one-megohm resistor has been molded into the plastic cap on the ground cord fastener. DO NOT REMOVE. If it becomes damaged, replace ground cord immediately. Do not use in areas where the individual may come in contact with electrical circuits exceeding 250 Volts.

CAUTION: The Prostat wrist strap is for static control. It will not reduce or increase your risk of receiving electrical shock when using or working on electrical equipment. Follow the same procedures you would use without wrist straps, including:

- * Make certain that equipment having a grounding type plug is properly grounded.
- * Make certain that you are not in contact with grounded objects other than through the strap.

GAP-005 GROUND ADAPTER PLUG

If any other condition exists, do not use the receptacle or the Ground Plug Adapter until tested and approved by a qualified electrician. Examples of wiring defects are not limited to the conditions described below.

1. OPEN GROUND WIRE - The equipment grounding conductor is not complete.
2. REVERSE POLARITY - The hot and the neutral circuit conductors are reversed.
3. OPEN HOT WIRE - The hot circuit conductor is open from a blown fuse, tripped circuit breaker, switch off, broken wire, etc.
4. OPEN NEUTRAL WIRE - The neutral circuit conductor is open.
5. HOT AND GROUND REVERSED - The hot circuit conductor and the grounding conductor are reversed.
6. HOT ON NEUTRAL AND HOT OPEN - The hot circuit conductor is connected to neutral terminal and the hot terminal is unwired.

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