

RoHS
Compliant



Contents

ESD Protected Area Sign

- Antistatic coating
- Self adhesive: 0.4mm thick PVC
- 300mm × 150mm

Earth Bonding Plug 3×10mm Stud

- Incorporates a 3×10mm male stud for connection grounding wire
- Designed to fit UK standard mains plug outlets
- Neutral and mains voltage pins are plastic, earth pin is metal

Fabric Adjustable Wrist Strap Hypo Allergenic

- Sky blue band
- Adjustable for any size of wrist
- 10mm stud
- High quality conductive interior, made of stainless steel nylon filament
- Outer side process with non-conductive nylon yarn
- Conductive back plate to cover the metal part to prevent allergic reaction
- Surface resistivity of $10^3\Omega$

Resistance from Band $<10^5\Omega$	Test Method EN 61340-55-1
Underside of Band $<10^4\Omega$	Test Method EN 61340-5-1
Top Side of Band $<10^6\Omega$	Test Method EN 61340-5-1

Coiled Earth Lead

- Excellent quality for use with any kind of wrist band
- Strong connection between the cord and 10mm stud
- 10mm Female Stud / 10mm Female Stud
- Special conductive wire, outer covered with non-conductive PU
- Each 10ft coiled cord contains 10 strands
- Diameter of cord: 2.4mm / Diameter of coil cord: 1.02cm
- Resistivity: $1M\Omega \pm 10\%$

Straight Earth Lead

- Excellent quality for use with any kind of Field Service Kit or Table Mat
- Strong connection between the cord and stud
- Special conductive wire each containing 10 special conductive wires
- Outer covered with non-conductive PU

- Length: 12ft
- Diameter of cord: 2.4 mm
- Resistivity: 1MΩ ±10%

Grounding

Sufficient ground cords should be used to reliably meet EN 61340-5-1 Table 3 less than $1 \times 10^9 \Omega$ for working surfaces. Industry recommendation is that continuous runs of ESD matting should be grounded at 10ft intervals to allow proper charge decay rates. Each individual ESD mat should be grounded with ground snaps located no further than five feet from either end.

Cleaning

Please note that contact between the matting surface and any acid or alkali solvent is strictly prohibited (such as Benzene, Alcohol etc), this will result in the antistatic performance wearing away. If cleaning is required, the matting may be wiped with a cloth coated in a neutral solution (such as water).

Guidance on Use

Matting materials have a tendency to shrink slightly when first unrolled. In applications where length is critical, allow the material to relax for at least 4 hours before cutting to size. Matting should always be trimmed with a sharp knife or razor blade.

Cutting Tolerances

Width ±6mm

Length ±6mm every linear foot of running material

Test Results

	Test Method	Unit	Value
Surface Resistance / RTG	SJ/T10694-2004	Ω	$1 \times 10^6 < R < 1 \times 10^9$
Bottom Resistance / RTT	SJ/T10694-2004	Ω	$1 \times 10^3 < R < 1 \times 10^6$
Volume Resistance	GB/T14437-97	Ω	$1 \times 10^5 < R < 1 \times 10^8$
Thickness	YY-1001	mm	Permissible Tolerance +0.1
Temperature Resistance	YY-1001	°C	180 (Instantaneous Temp)
Temperature	N/A	°C	20-26
Relative Humidity	N/A	%	40-65

RTG is the resistance from one point on the mat's surface to the mat's ground point, and is the fundamental electrical test for a mat. A proper RTG insures that a mat can conduct charge from a point on the surface to the mat ground point. The guideline in ESD STM-4.1 for RTG is 1×10^6 to $1 \times 10^9 \Omega$. ANSI/ESD S-20.20 has an upper limit of $< 1 \times 10^9 \Omega$.

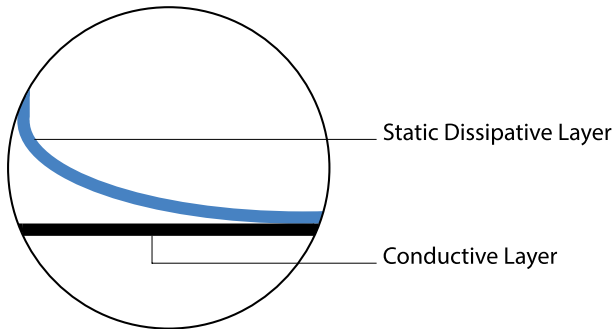
RTT is the resistance from one point on the mat's surface to another point. A proper RTT insures the consistency of the mat's resistance properties. The ESD STM-4.1 guideline for RTT is $> 1 \times 10^6 \Omega$.

Kit Includes

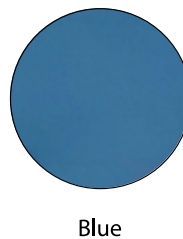
- 1× ESD Matting (600mm×1200mm) with 10mm stud in each corner
- 1× ESD Protected Area Vinyl Sign
- 1× Earth Bonding Plug 3x10mm Stud
- 1×10mm Fabric Adjustable Wrist Strap Hypo Allergenic
- 1×10mm Coiled Earth Lead
- 1×10mm Straight Lead
- 1× Instruction Leaflet

Matting Specification

Construction:



Colours / Finish:



Part Number Table

Description	Part Number
ESD Workstation Kit, 600mm×1200mm	069-0002

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