Static Control Workstation

KSWKS2

Description

Our static control workstation kit provides a quick and easy way to set up your electronics workbench; giving you full protection against any static generation.

Bondline's static control workstation kit is designed to give full static protection when handling static sensitive devices in a production or test environment. They designed to keep you grounded when working with static-sensitive devices. This includes printed circuit boards, computer motherboards, hybrid bio-electronic devices and more. Compliant according to IEC-61340-1-5 International Standard and RoHS and REACH standards.

This complete worktop kit includes:

- x1 Static dissipative 2-layer rubber bench mat (KSMLF)
- x1 Premium coil cord (CCJ)
- x1 Straight grounding lead (SCJ)
- x1 Crocheted wrist strap (CA10)
- x1 Adaptor Snap (AS10)

Cleaning

For optimum electrical performance, the bench matting must be cleaned regularly using an ESD-safe mat cleaner. We suggest using our Staticide mat and table top cleaner for best cleaning results. This will maintain the original resistivity of the anti-static matting whilst extending its shelf-life.

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Premium Textured Bench Matting (KSMLF)

Description

Our great value, protective bench mat is designed to drain static charge from items placed on its surface. This anti static mat is ideal for laying on workbenches in the workshops or laboratories of microelectronic industries. It provides excellent ESD protection for operators working with static-sensitive components in an EPA. The 2-layer bench matting is 2mm thick. Manufactured from a synthetic rubber. The KSMLF matting range's top layer is static-dissipative with a conductive backing giving a typical resistance to ground = 10^(6)-10^(8) ohms. The surface resistance point-to-point is <10^(9). The smooth surface allows easy cleaning and maintenance. The textured finish adds extra operator comfort.

Features

- Durable, 2-layer, synthetic anti static rubber mat.
- Material is 2mm thick.
- Resistant to solder splash / hot paste and abrasion. The material doesn't melt if in contact with hot metal parts or soldering debris. (Cheaper PVC based rubber mats are not solder proof.)
- The surface is scratch-resistant so it prevents sliding of components.
- Bench mat is very easy to clean especially with Staticide Mat and Table Top Cleaner.
- The top layer is static-dissipative with a conductive backing.
- Fully RoHS and REACH compliant.
- Meets requirements of EN61340-5-1, US ESD Associations ANSI S4.1 and S20.20 guidelines and conforms to BS IEC 61340-5-1.

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Premium Textured Bench Matting (KSMLF)

Physical Properties	Typical Values
Thickness	0.076 (2.00mm)
Hardness - Upper Dissipative Layer	70 -5 + 5 shore A (Per ASTM D2240)
Hardness - Lower Conductive Layer	75 -5 + 5 shore A (Per ASTM D2240)
Scratch Resistance	No clear scratch and well recovery
UV Resistance	No major disc
Stud Force	6KG/ 59cm (Recommended)
Heat Resistance	Resist holds irons and hot paste, rubber doesn't melt if in contact with hot metal parts and soldering debris
300% Tensile Strength - Upper Dissipative Layer	3.7Mpa
300% Tensile Strength - Lower Conductive Layer	3.7Mpa
Breaking Strength - Upper Dissipative Layer	18.7Mpa
Breaking Strength - Lower Dissipative Layer	3.7Mpa
Elongation At Break - Upper Dissipative Layer	690Mpa
Elongation At Break - Lower Dissipative Layer	250Mpa
Hardness - Upper Dissipative Layer	66°
Hardness - Lower Dissipative Layer	80°

Electrical Properties	Typical Values
Charge Decay	< 0.1 sec per FTMS 101C, M4046, TB-WINT-0008
Charge Generation	< 100 volts per ANSI/ ESD STM4.2

Mechanical Properties	Typical Values
Room Temperature	21℃
Humidity	62%

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Premium Coil Cord (CCJ)

Description

A high-quality, stud to jack, coiled earth lead that provides a strong connection to ground. This best selling grounding cord can be stretched and recoiled back to it's original length, helping to keep a clear working area for efficiency and comfort. All snaps have 1 meg-ohm safety resistor. Standard colour is blue.

Physical Properties	Typical Values
Conductor	Diameter is 2.5mm with 7 tinsel wires
Insulation	Coil cord is insulated with PU material
Electrical Properties	The cord conductor shall have an end to end resistance not greater than 50 ohms
Resistivity	Current limiting resistance = 1 meg ohm + 20%
Breakaway Force	1 to 5lbs of pull away force is required to disconnect the snap in a normal disconnect direction
Ground Lead Extendibility	Cord should return back to at least 85% of its original length in less than 10 minutes after hanging for 24 hours, with 1KG weight on the other end
Plastic Parts	Anti-static nylon materials
Connection Integrity	The tensile strength of the end connections shall be not less than 66% of the tensile strength of the wire, and in no case shall it be less than 5 lbs
Hardware	All metal parts shall show no evidence of corrosion and rust after 24 hours submersion to salt solution. Preferably made from stainless steel or brass alloy plated with nickel
Markings	With logo and resistance value
Dimensions	Cord is available 6ft and 12ft. (6ft standard)
Colour	Blue

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Straight Grounding Lead (SCJ)

Description

A range of high quality straight grounding cords that provides a strong connection to ground. Premium, durability ESD cords designed to be worn in an ESD working area. To ensure a path to ground, essential when handling components or assembling parts in an EPA. Straight leads are 3 meters (10ft) long as standard. The SCJ has a 10mm snap to jack / croc clip.

Physical Properties	Typical Values
Conductor	Diameter is 2.5mm, with 7 tinsel wires
Insulation	Straight cord is insulated with PU material
Electrical Properties	The cord conductor shall have an end to end resistance not greater than 50 ohms
Resistivity	Current limiting resistance = 1 meg ohm ± 20%
Bending Life Test	Exceeds 20,000 cycles of bending life test without any physical damage on the strain relief
Breakaway Force	1 to 5 lbs. of pull away force is required to disconnect the snap in a normal disconnect direction
Connection Integrity	The tensile strength of the end connections shall be not less than 66% of the tensile strength of the wire, and in no case shall it be less than 5 lbs
Markings	With customer identification logo, resistance value, and date code
Colour	Standard is blue. Other colours available on request
Dimensions	Cord's length available upon request
Hardware	All metal parts shall show no evidence of corrosion and rust after 24 hours submersion to salt solution. Preferably made from stainless steel or brass alloy plated with nickel.
Plastic Parts	Made of static dissipative plastic material

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Crocheted wrist strap (CA10)

Description

A crocheted, lightweight, fully adjustable 'fabric' antistatic wrist strap. The comfortable materials allow users to wear the wrist straps for long periods of time and are essential when handling components or assembling parts in an EPA. The CA10 is made of hypoallergenic jewellery grade stainless-steel as standard to prevent any metal allergy problems.

Physical Properties	Typical Values
Interior Cuff Resistance	≤ 100 kilo ohms at 7 to 30 volts dc open circuit
Exterior Cuff Resistance	≥ 10 meg ohms at 7 to 30 volts dc open circuit
Wrist-Strap Life Test	When stretched to 200%, band returns to its normal length after 20,000 cycles
Breakaway Force	1 to 5 lbs. of pull away force is required to disconnect snap into normal direction
Termination	Fabric band assembled to GO2 buckle, with flap and grip, and male snap connector available 10mm. (4mm and 7mm available)
Band Construction	Constructed using premium crochet fabric band with elastic ratio of 1:2.5" to 1:3". Outer surface is non-conductive and inner surface of the strap shall be conductive, lined with 5-rows of double-ply silver yarn
Dimensions	For free-sized wrist band, the flattened length must be 95 to 105mm
Hardware	All metal parts shall show no evidence of corrosion and rust after 24 hours submersion to salt solution. Preferably made from stainless steel or brass alloy plated with nickel.
Markings	With customer identification logo and date code (Killstat)
Plastic Parts	Made of static dissipative plastic material

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Adaptor Snap (AS10)

Description

A simple and effective grounding accessory. The adaptor snap monitors/eliminates the build-up of static discharge that may pose a risk to static sensitive components or devices. It can be added to bonding plugs or snaps for a secure connection. AS10 Adaptor Snap is an insulated adaptor with a banana receptacle and 10mm male/10mm female snaps.

Physical Properties	Typical Values
Construction And Material	Brass insert assembled to 10mm female and male snaps then moulded with plastic material
Hardware	All metal parts shall show no evidence of corrosion and rust after 24 hours submersion to salt solution. Preferably made from stainless steel or brass alloy plated with nickel
Breakaway Force	1 to 5 lbs. of pull away force is required to disconnect the snap in a normal disconnect direction
Colour	Standard colour is blue with white rim
Plastic Parts	Made of static dissipative plastic material
Other Accessories	We offer a range of accessories, including, bananagator heavy duty crocodile clip, stack snap and terminal lug

Stud Position

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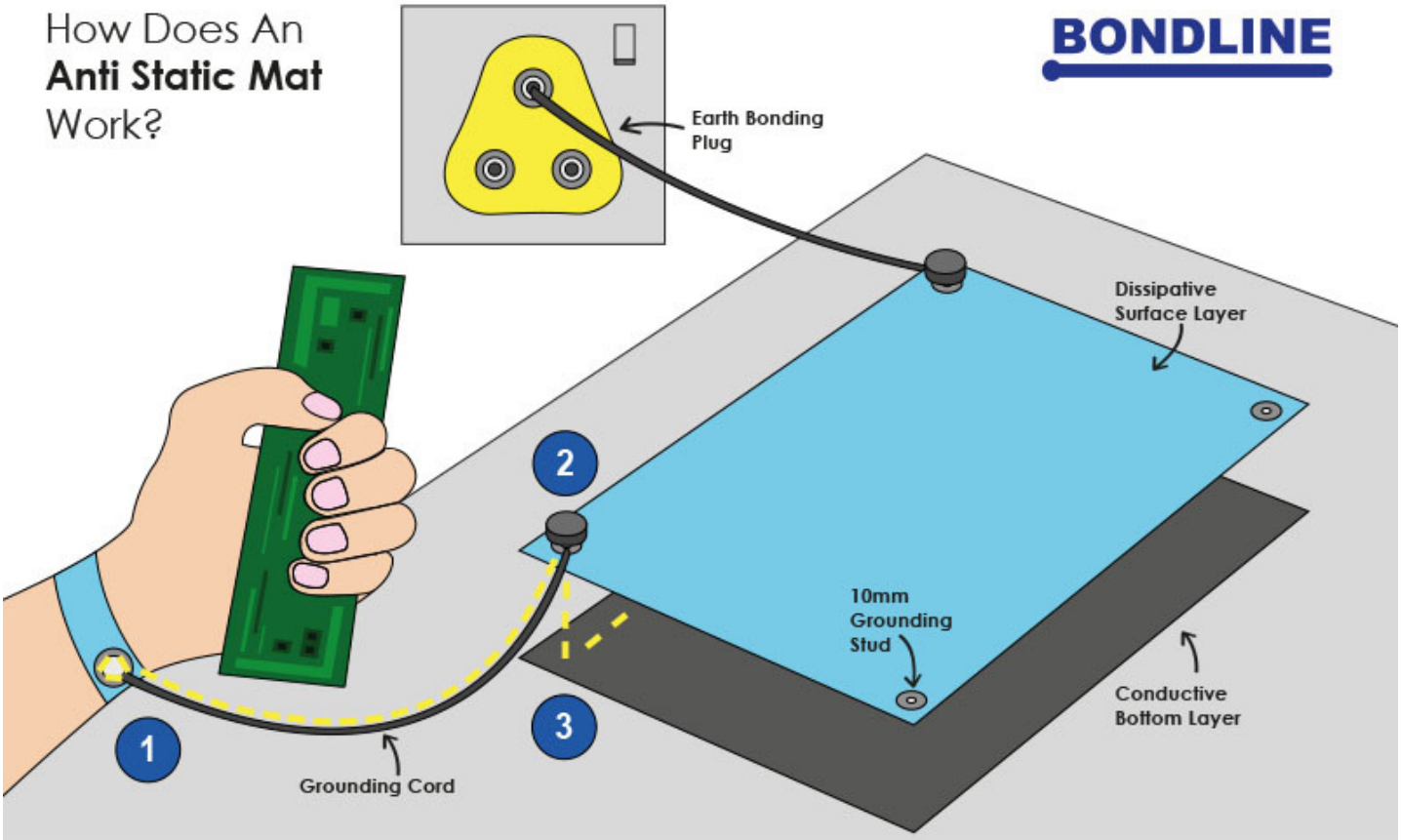

1. Operator is grounded as charge passes through the wrist strap into the coil cord.
2. Coil cord is connected to the 10mm grounding stud.
3. The static charge passes through the mat, through the grounding lead to earth.