

Full Work Station Kit

KSWKS 7/8

Description

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

This work station provides a quick and simple way to set up your ESD production bench and saves money by buying as a kit. Featuring premium quality Bondline products, the kit is designed to keep operatives grounded and protect electronic components from unnecessary static damage.

The kit is ideal for repairs on electrical items such as laptops, tablets, PCBs, computer parts, medical equipment and audio devices. This full ESD workstation kit comes with our popular blue ESD bench mat and grey ESD floor mat as standard, unless otherwise stated. Select from two bench mat sizes to suit your application. Standard floor mat is 1500 x 600mm. The kit complies with IEC-61340-5-1, RoHS and REACH. CE approved.



Part Code	Bench Mat Size
KSWKS7	1200 x 600mm
KSWKS8	1500 x 600mm

Kit Includes:

- x1 Blue Static Dissipative 2-Layer Rubber Bench Mat (KSMLF)
- x1 Static Dissipative Floor Mat (BFM)
- x1 Premium Coil Cord (CCS)
- x1 Straight Grounding Lead (SCJ)
- x1 Premium Wrist Strap (HCA10)
- x1 Earth Bonding Plug with 3 x 10mm studs (BP3)
- x1 Rigid ESD Awareness Sign

Standards & Regulations



RoHS compliant



REACH compliant



CE certified



IEC-61340-5-1 compliant

Key Features:

- Easy to install
- Saves money by buying as a kit
- Easy to clean with Staticide mat and table top cleaner
- Select from two bench mat sizes
- Prevents sliding of electronic components
- Suitable for loose laying
- Good resistance to scratches and excellent flexibility
- Heat resistance: does not melt if in contact with hot metal parts or soldering debris
- UV resistance: No major discolouration
- Resistant to abrasion, solder flux, most common solvents

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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°C
Humidity	62%

Earth Bonding Plug - UK, 3 x 10mm studs

Earth Bonding Point (EBP) plugs are a simple method of grounding. They are designed to provide a common ground point for grounding using protective earth in an ESD protected area (EPA). UK plug.



Rigid ESD Awareness Sign

A simple yet effective way of reminding everyone of the problems and related procedures required to help eliminate ESD. Help workers stay informed of the static grounding policies at your facility.



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Rubber ESD Floor Material (BFM)



General Specifications	Typical Values
Material	Synthetic rubber
Construction	Static dissipative top surface, black conductive bottom layer
Thickness	2.50mm
Colour	Dark grey or light grey fleck
Static dissipative top surface	$10^{(6)} - 10^{(9)}$
Black conductive bottom layer	$10^{(3)} - 10^{(6)}$
Heat resistance	Heat and solder resistant. Rubber material will not melt like other vinyl floor material.
Electrostatic dissipation time	<0.1s
Scratch resistance	No clear scratch
Resistance to ground	Less than $10^{(9)}$

Premium Coil Cord (CCS)



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
Colour	Blue

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Straight Grounding Lead (SCJ)

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 $\pm$ 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
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

Premium Wrist-Strap (HCA10)



Properties	Typical Values
Band Construction	R-10 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 conductive silver yarn
Interior Cuff Resistance	$\leq$ 100 kilo ohms at 7 to 30 volts dc open circuit
Exterior Cuff Resistance	$\geq$ 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, non-curved and half-metal back, With flap and male snap available in sizes 4mm, 7mm and 10mm. The half-metal back is covered with anti-allergenic plastic buckle cap
Dimension	For free-sized wrist band, total length of exposed band shall not be less than 200.0mm. Or the flattened length must be 4 to 4.5 inches
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 nylon material



Eliminate Costly Static Damage...

Whether you are experiencing unacceptable levels of damage in transit, need a specific cleanroom solution or simply don't know which ESD safe equipment is best for you, we can help!

Request complimentary, no obligation advice by speaking with one of our technical experts today.

