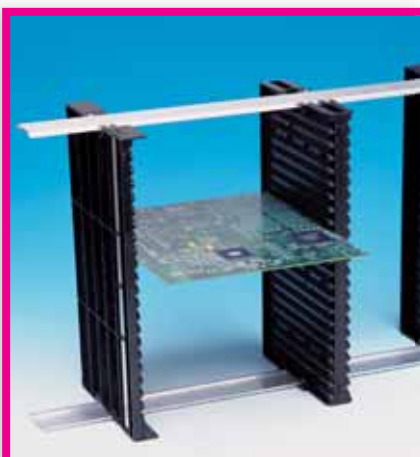# CONTENTS (Quick Guide) Full Index on pages 4 & 5

We believe that all the information in this catalogue, including technical data, weights and sizes to be reliable. However, we make no warranties expressed or implied and assume no liability regarding any use of this information. All the products listed in this catalogue are subject to our general conditions of sales, supply and payment terms.

FOR INFORMATION ON TRAINING, AUDITS AND CALIBRATION-SEE PAGE 67

Quick Index

BONDLINE

Tel: 01793 511000   Fax: 01793 514142

BONDLINE

Index by Part Number

BONDLINE HIGH PRECISION HANDTOOLS

• FULLY ERGONOMIC HANDLES.
Ensures operator comfort for "all-day" work.

• STATIC-DISSIPATIVE HANDLES.
Appropriate for work in E.S.D. sensitive areas.

• HARDENED EDGES/HEADS.
Cutting edges are carefully hardened to give maximum tool life.

• MACHINED TOOL EDGES.
Tools are machined not forged to give extra high precision.

• PRECISION JOINT.
Precision machined joint gives high precision and ensures durability.

• DUAL LEAF SPRINGS.
Designed for maximum sensitivity and long life and can be replaced.

SIZE CHART

A = Length of jaws

A = Length of jaws

C = Length of blade
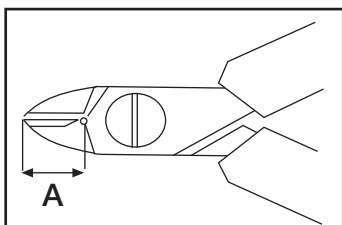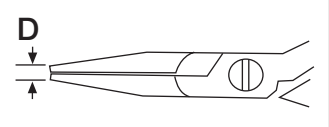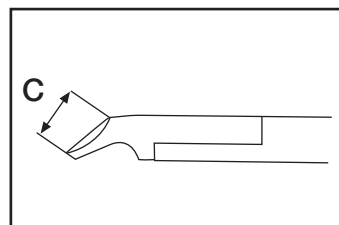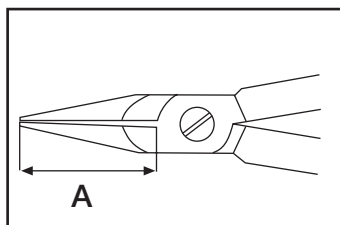
D = Thickness of tips
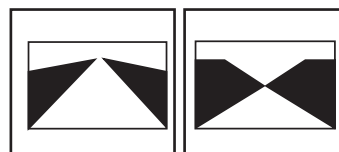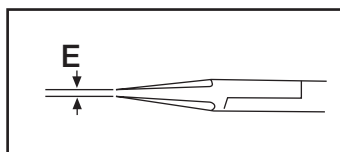
E = Width of tips

Flush   Semi-Flush

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HIGH PRECISION BONDLINE CUTTERS

C1511
Semi-flush cut. 110mm long
Strong head and high cutting capacity.
Universal side cutter.
Cutting capacity 1.6mm Cu.
A=11mm. C=9mm.

C1570
Flush cut. 120mm long.
Very fine tapered head.
For small wires in confined areas.
Cutting capacity 0.6mm Cu.
A=22mm. C=5mm.

C1611
Flush cut.120mm long.
Very precise.
For general work.
Cutting capacity 1.6mm Cu.
A=11mm. C=9mm.

C1776
Flush cut. 105mm long.
Micro precision cutter.
For fine work in limited areas.
Cutting capacity 1.0mm Cu.
A=10mm. C=9mm.

C1582
45° Flush cut. 115mm long.
Common general work tool.
Cutting capacity 0.8mm Cu.
A=19mm. C=6mm.

C1595
Flush cut. 110mm long.
Standard straight cutting head.
For general work.
Cutting capacity 1.2mm Cu.
A=12mm. C=10mm.

C1711
Semi-flush cut. 105mm long.
Miniature precision cutter.
For general fine work.
Cutting capacity 1.2mm Cu.
A=9mm. C=8mm.

C1504
Flush cut. 110mm long.
Large cutting head.
Cutting capacity 1.2mm Cu.
A=13mm. C=9.5mm.

Hand Tools

BONDLINE HIGH PRECISION PLIERS

P1542

General plier for
precision work.
125mm long.
Flat jaws
A=28mm. D=1.2mm.
E=3mm.

P1543

General plier for
precision work.
125mm long.
Rounded jaw.
A=24mm. D=1mm.
E=0.5mm.

P1544

Half round precision
plier for precision work.
Smooth internal jaws.
125mm long.
A=28mm. D=1.5mm.
E=1mm.

P1544D

As P1544 but with
internal serrated edges.

GENERAL PURPOSE HANDTOOLS

B884E PC

Strong slim tips developed for
cutting out daughterboards
from motherboards.
120mm long. (min. slot size 2mm)

C220

115mm long. Distance cutter
leaving 2mm long leads.
For soft wires.
Insulating handles.

C1160P

Semi-flush cut. 130mm long.
Heavy duty cutter.
Insulating handles.
Cutting capacity 2mm Cu.
A=1mm. C=15mm.

KILLSTAT PRECISION CUTTERS

These ergonomic tools have static dissipative handles as standard. The cutting edges are machined (not forged) for added quality and precision. The cutting head is hardened with an anti-glare finish. Precision joint with dual leaf springs ensure long working life. Green handled tools for a lead-free area?

KS6140 Semi– flush cut.

KS6141 Full flush cut.

Very precise cutter with curved
cutting head. 110mm long.

Cutting capacity
(6140) 0.2-1.3mm copper wire
          or 0.2mm hard wire.
(6141) 0.2-1.25mm copper wire.

KS6150 Semi-flush cut.

KS6151 Full flush cut.

Strong general purpose cutter.
120mm long.

Cutting capacity
(6150) 0.3-1.6mm copper wire
          or 0.4mm hard wire.
(6151) 0.2-1.6mm copper wire.

KS6190 Semi-flush cut.

KS6191 Full flush cut.

Very precise cutter with straight
cutting head. 110mm long.

Cutting capacity
(both tools) 0.2—1.25mm
                copper wire.

Hand Tools

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BONDLINE

EREM PRECISION TOOLS

High precision tools with internal springs. All have anti-static handles as standard.

670E-P
Ultra fine tapered relieved head,
Full flush cut.
Maximum cutting capacity 0.6mm Cu.

776E
Diagonal tapered relieved head,
Super flush cut.
Maximum cutting capacity 1mm Cu.

886E
Flush cut with robust tapered
head.
Maximum cutting capacity 1.8mm Cu.

147A
Strong diagonal cutter.
Compound action.
Maximum cutting capacity 2mm Cu.

530E-15A
Adjustable distance cutter.
1.2 - 6mm
Maximum cutting capacity 1.2mm Cu.

510AE
Fine adjustable wire stripper.
18 - 30 AWG.

GENERAL PURPOSE TOOLS

These three tools have insulating handles. (Non ESD).

PLATO 170
Economical lightweight shear
cutter with insulating handles
for general assembly.
170mm long.
Cutting capacity 1.0mm Cu.

PLATO 175
As PLATO 170 but with wire
retainer for added operator
safety.

BKVC
Revolutionary precision scissors
with serrated blades. Perfect
for cutting KEVLAR.

Blade length 40mm.

Hand Tools

SOLDERING AIDS

DE-SOLDER BRAID
ON ANTI-STATIC SPOOLS

Braid has uniform flux coating to
aid wicking and virtually unlimited
shelf life.

DSB15 1.5mm x 1.5 metres.
DSB22 2.2mm x 1.5 metres.

DE-SOLDER PUMP

De-solder pump can be used in
static sensitive area. Complete
with conductive tip.

DSPU Conductive de-solder
pump. Length 190mm.
DSTIP Spare conductive tips
(Pack of 10).

DENTAL PROBE

Simple soldering aid with slimline
handle and strong fine point.

770054SL Dental probe.

BONDLINE PRECISION TWEEZERS

High quality precision instruments produced using a non-magnetic stainless-steel alloy.

B1SA

Length 120mm.
For general use.

B2SA

Length 120mm.
Medium pointed tips.

B2aSA

Length 120mm.
Rounded thin tips.

B3SA

Length 120mm.
General assembly.

B3cSA

Length 110mm.
General assembly.

B4SA

Length 110mm.
Very fine points.

B5SA

Length 110mm.
Super fine points.

B5aSA

Length 115mm.
Super fine points.
Angled head.

B7SA

Length 120mm.
Curved super fine
points.

BAASA

Length 125mm.
Strong fine points.

BOOSA

Length 120mm.
Very strong general
purpose tweezers.

BOcSA

Length 90mm.
Small strong
tweezers.

B20aSA

Length 110mm.
Fine tips with inside
serrations.

B60SA

Length 140mm.
Extra long with
narrow handles.

102ASA

Length 115mm.
SMD tweezers.

B15AGW

Length 120mm.
Strong cutting
tweezers.

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KILLSTAT BENCH MATTING

Durable 2-layer synthetic rubber bench material is resistant to solder splash and abrasion. The top layer is static-dissipative with a conductive backing giving a typical resistance to ground $= 10^6 - 10^8$ ohms. The smooth surface allows easy cleaning. Material is 2mm thick and maximum roll size is 1.22 metres wide and 10 metres long. Custom sizes available to suit any requirements. Available in Blue, Grey, Beige and Green. (Please specify).

KSM32	Standard mat 900mm x 610mm (3ft x 2ft) with 10mm stud in each corner.
KSM42	Standard mat 1200mm x 610mm (4ft x 2ft) with 10mm stud in each corner.
KSM2FT	Full roll. Size 10 metres x 610mm.
KSM4FT	Full roll. Size 10 metres x 1220mm.

All matting can be cut and studded to suit all customer requirements.

MAT STUD POSITION CHART

SP1	SP2	SP3	SP4	SP5

SP6	SP7	SP8	SP9	SP10

BLACK 2-LAYER SHELVING MATERIAL

This material is 1.5mm thick and has been specially developed for use in storage areas. It has a static-dissipative surface with a conductive backing giving a typical resistance to ground of $10^6 - 10^7$ ohms.

Ref	Size
KSMBK1FT	0.4 metres wide x 10 metres.
KSMBK2FT	0.61 metres wide x 10 metres.
KSMBK4FT	1.22 metres wide x 10 metres.

For sprays, see page 58

STUDDING KIT

SKIT	Kit for attaching studs to matting including hole punch, rivetting tool and 100 x 10mm studs.
PS10	10mm studs. (Pack of 100).

STATIC CONTROL WORKSTATION

Various static control workstations to suit individual requirements.

STATIC CONTROL WORKSTATION

Designed to give full static protection when handling static sensitive devices in a production or test environment. This work top kit includes a 1200mm x 610mm bench mat together with grounding cord, coil cord and wrist-strap.

(Supplied with blue mat unless otherwise specified).

KSWKS2   Workstation.

WORK STATION KIT

Complete work top kit includes a static dissipative 2-layer rubber bench mat with grounding cord, wrist-strap, coil cord, grounding plug and ESD wall sign.

(Supplied with blue mat unless otherwise specified).

Ref	Bench Mat Size
KSWKS3	900 x 610mm.
KSWKS4	1200 x 610mm.
KSWKS5	1500 x 610mm.
KSWKS6	1800 x 610mm.

FULL WORK STATION KIT

This full work station kit includes a static dissipative rubber bench mat, a static dissipative vinyl floor mat together with all grounding cords and a wrist-strap. A rigid ESD awareness sign and an earth bonding plug are also included. (Standard floor mat is 1500 x 600mm).

(Supplied with blue bench mat unless otherwise specified).

Ref	Bench Mat Size
KSWKS7	1200 x 600mm.
KSWKS8	1500 x 600mm.

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ESD WORK MATS

Static control matting and work surface protection materials.

VINYL BENCH MATTING

Three layer static-dissipative work surface matting. (10^6 - 10^9 ohms / square). (3mm thick). Can be supplied in any cut sizes. Available in blue or grey.

VBLM   Maximum roll size 1.2 x 15 metres.

VBLM42   Standard mat 4ft x 2ft. (1200 x 600mm) with a 10mm stud in each corner.
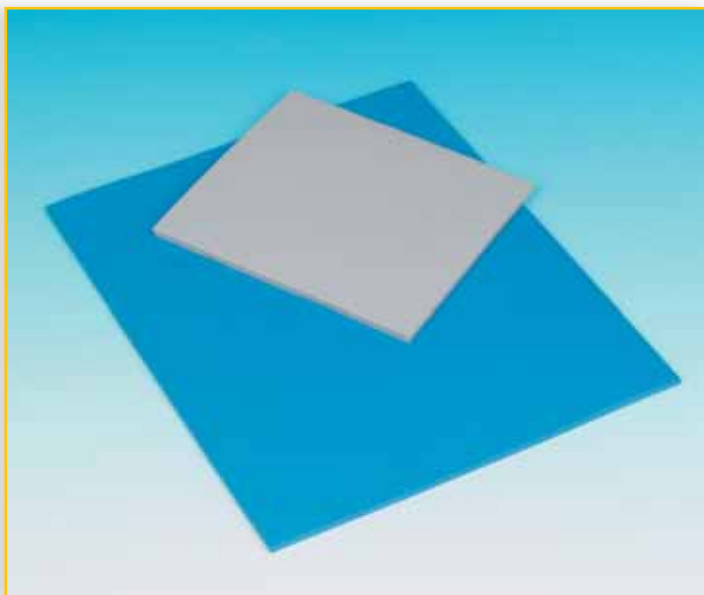
CUSHION MATTING

Volume static-dissipative cushion matting. Should be used in conjunction with grounded work surface. Offers a comfortable working surface which also helps reduce mechanical damage to electronic parts. Can be supplied on rolls or pre-cut sizes. Material is 6mm thick and available in light grey.

CWM   Maximum roll size 10 metres x 1.2 metres wide.

CWMPK   Mat. 380mm x 450mm (Pack of 6).

WORK AREA SAVERS

Rubber mats to protect bench coverings in the immediate working area from solder marking, scalpel damage or any other contaminants.

Size: 400 x 300mm.

Available in either Blue, Grey, Green or Beige (please specify).

KSBSV   Bench savers. (Pack of 5)

For sprays, see page 58

Bench / Grounding
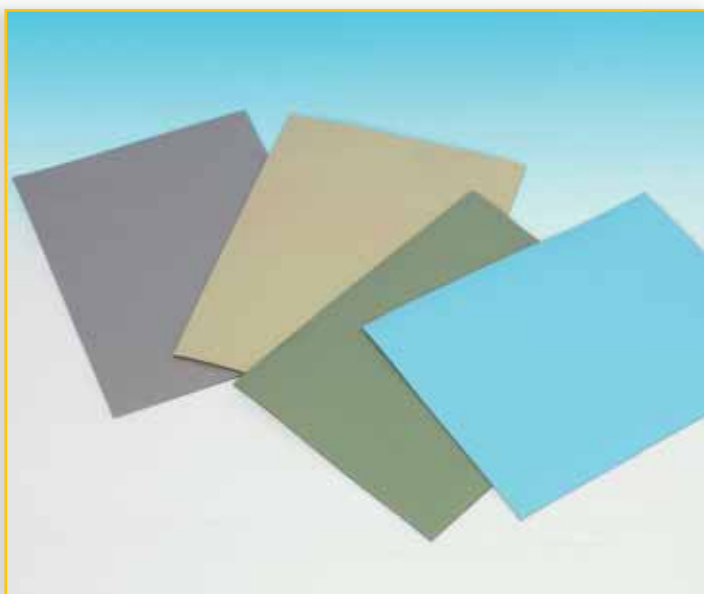
WRIST-STRAPS

The conductive woven fibres are SILVER for maximum conductivity and minimum skin irritation. The metal back plate is made of hypo-allergenic jewellery grade stainless steel as standard to prevent any metal allergy problems. All wrist-straps can be supplied with 10mm / 7mm / 4mm studs.

PREMIUM HIGH COMFORT WRIST-STRAP

Wrist-strap is woven and has curved buckle for added comfort. Double thickness material ensures outer layer insulation for complete operator safety.

HCA10	Fully adjustable: 10mm stud.
HCA10AA	Anti-allergy strap with plastic backing plate to avoid any metal contact with the skin.

CROCHETED WRIST-STRAP

Crocheted lightweight design for maximum skin contact and comfort.

2 types are available:

CA10	Adjustable wrist-strap. 10mm stud.
CA10AA	Anti-allergy version. 10mm stud. Adjustable wrist-strap with slip-ring adjustment. This unique design allows option of 360° fabric contact ensuring no metal contact with the skin.

ADJUSTABLE STAINLESS STEEL WRIST-STRAP

Made from hypo-allergenic jewellery grade stainless-steel. Size adjustment is made by adding or removing anti-static plastic links. Available in two colours.

ERG10A	Stainless-steel wrist-strap. Blue.
ERG10AB	Stainless-steel wrist-strap. Black.

WRIST-STRAP AND CORD SET

Fully adjustable wrist-strap and cord set. The wrist-strap adjustment is by adding plastic links to achieve the required size. The wrist-strap fabric strip can easily be changed when required to provide an economical grounding set. The coil cord is 1.5 metres long with 10mm stud to jack plug.

CA10CCSET	Wrist-strap and cord set.
CA10RFAB	Replacement fabric strip. (Pack of 10).

Wrist–straps

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PREMIUM COIL CORDS

Standard coil cords are 1.8 metres long (6 ft) with dual moulding on terminations for maximum strain relief. All snaps have a 1 meg-ohm safety resistor. (Unless otherwise specified).

PREMIUM COIL CORD

10mm Snap both ends.

| CCS10 | 1.8 metres long. (6ft) |
| CCS1012 | 3.6 metres long. (12ft |

PREMIUM COIL CORD

10mm Snap to jack-plug / crocodile clip.

| CCJ10 | 1.8 metres long. (6ft) |
| CCJ1012 | 3.6 metres long. (12ft) |

STRAIGHT GROUNDING LEADS

All leads are 3 metres long as standard.

SCJ10	10mm snap to banana / croc clip.
SCS10	10mm snap both ends.
SCE10	10mm snap to moulded eyelet for permanent fixing.

All premium products can also be supplied with 7mm or 4mm snap / stud sizes.

GROUND CORD

This 15ft (4.5 metre) ground cord has 10mm snap at one end and a 10mm snap and 2 banana sockets at the other end.

| CPGVJ | Ground cord. |

ACCESSORIES

1	BG	Bananagator.
2	AS10	Adaptor snap.
3	SS10	Stack snap.
4	TLUG	Lug.

LINK CORD

Short cord is 230mm. long (9") with 10mm snaps both ends with 1 Meg-ohm resistors.

| SCS10/9 | Link cord. |

FLAT MOULDED GROUND CORD

Ideal for grounding floor mats. 3 metres long (10ft). 1 Meg-ohm resistor. Eyelet termination.

| SCFE | Ground cord. |

UNIVERSAL GROUNDING CORD

This all purpose ground cord is supplied with a banana plug, crocodile clip, stack snap and terminal lug for grounding in any situation.

| SCJCL | Universal grounding cord. 3 metres long. |

LIGHTWEIGHT COIL-CORD

Standard cord is 1.8 metres long. (6 ft) All snaps have 1 meg-ohm safety resistor.

| CCJ10SM | 10mm snap to jack-plug croc clip. |
| CCS10SM | 10mm snap both ends. |

BONDLINE

E-mail: sales@bondline.co.uk

EARTH BONDING PLUGS

Earth bonding plugs can be supplied with any combination of 10mm studs, 7mm studs, 4mm studs, banana sockets, shrouded banana sockets and reverse banana sockets to suit any requirements. These plugs offer a simple and easy method of grounding.

With 1 x 10mm stud.
NO RESISTOR.

| BP | U.K. plug. |

With 1 x 10mm stud.
1 meg-ohm resistor.

| BPR | U.K. plug. |
| BPE | Euro plug. |

With 3 x 10mm studs.

| BP3 | U.K. plug. |
| BP3EU | Euro plug. |

With 3 x 7mm studs.

| BP37EU | Euro plug. |

With 1 x 10mm stud, 1 x 7mm stud and 1 banana socket.

| BP3S | U.K. plug. |
| BP3SEU | Euro plug. |

With 2 x shrouded banana sockets and 1 x 10mm stud.

| BP2SBEU | Euro plug. |

With 1 x 10mm stud and 2 x banana sockets.

| BP2J | U.K. plug. |
| BP2JEU | Euro plug. |

With 2 x 10mm studs and 1 x M5 post.

| BP210M5 | U.K. plug. |
| BP210M5EU | Euro plug. |

With 2 x M5 posts.

| BP2M5 | U.K. plug. |
| BP2M5EU | Euro plug |

Side profile showing insulated live and neutral pins.

Standard U.K. Plug.

Standard Euro Plug

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EARTH BONDING POINTS

Designed and manufactured to fit under the work bench to provide a simple yet effective ESD grounding point. All connections have an individual 1 meg-ohm safety resistor as standard. (3 resistors per bonding point). Standard leads are 2 metres long with eyelet termination.

Bonding points are supplied with fixing screws and shake-proof washers.

With 3 x 10mm studs.

LSBS

With 3 x banana sockets.

LSBJ

With 1 x 10mm stud and 2 x banana sockets.

LSB2J

With 2 x 10mm studs and 1 x banana socket.

LSB210

3 x shrouded safety banana sockets

LSBSB

With 3 x 7mm studs.

LSB7

With 3 x reverse banana Sockets.

LSBRB

Earth facility bracket. NO RESISTOR

EFB
With M5 post.
EFB10
With 10mm stud.
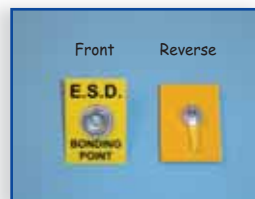
Earthing point with 10mm stud. NO RESISTOR

ESDBP

Conductive plastic earth bonding plate.

EFB4
With 4 x 10mm stud.

Earth bonding points can be manufactured using any combination of the following..

1. M5 post.
2. 4mm Stud.
3. 10mm Stud.
4. 7mm Stud.
5. Hole Blank.
6. Safety Banana Socket.
7. Yellow Banana Socket.
8. Black Banana Socket.
9. Reverse Banana Socket.

BONDLINE

E-mail: sales@bondline.co.uk

KILLSTAT FLOOR MATTING

Durable 2-layer static-dissipative "grey fleck" vinyl with a conductive backing which complies to DIN EN 61340-5-1. The smooth surface allows easy cleaning. Material is abrasion resistant and is suitable for chair castors.

Material is 2mm thick and maximum roll size is 1500mm wide and 10 metres long. Installation can be secured with double sided tape.
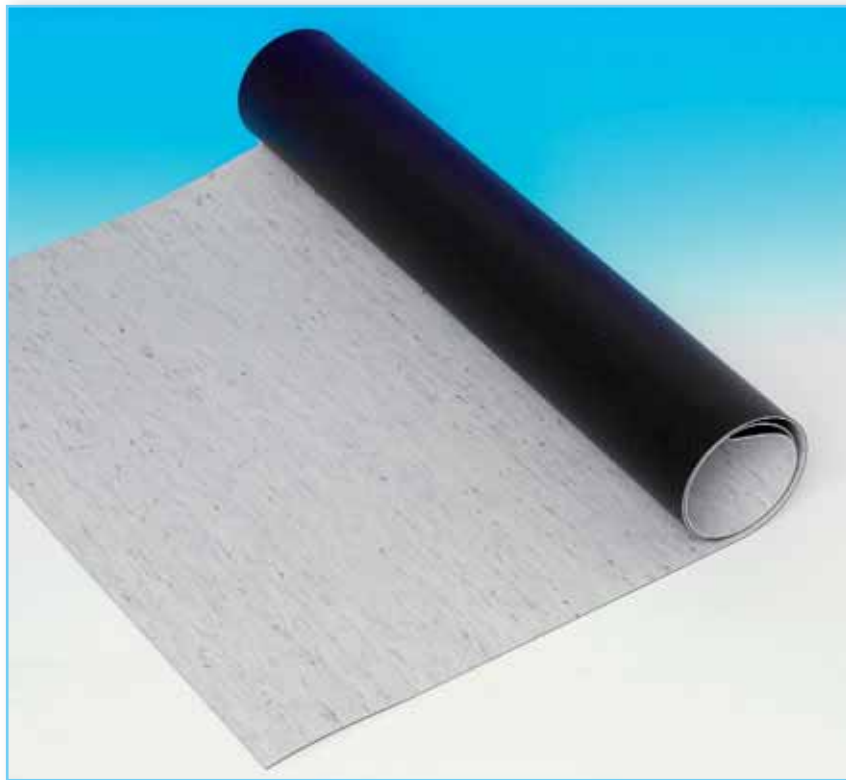
Custom sizes available to suit any requirement.

KSFM42	Standard mat 1200mm x 600mm with 2 x 10mm studs.
KSFM45	Standard mat 1200mm x1500mm with 2 x 10mm studs.
KSFM58	Standard mat 1500mm x 2000mm with 2 x 10mm studs.
KSFM10	Full roll. 10 metres x 1500mm.

STUDDING KIT

SKIT	Kit for attaching studs to matting including hole punch, rivetting tool and 100 x 10mm studs.
PS10	10mm studs. (Pack of 100).

FLOOR MARKING TAPES

Self-adhesive floor marking tapes for identification and awareness of electrostatic protected areas.

①	**FT2**	Heavy duty tape with paper backing. 75mm wide x 33 metres long.
②	**FMT33**	PVC awareness tape. 50mm wide x 33 metres long.
③	**HT1**	Striped hazard tape. 50mm wide x 33 metres long.

For cleaners, see page 58

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BONDLINE

ESD FLOORING SOLUTIONS

STATIC DISSIPATIVE VINYL FLOORING

Permanent static-dissipative tiles are laid onto a highly conductive adhesive. (Material can be supply only or can be fully fitted and certificated by our highly trained experienced personnel). There is a carbon element fused into the tile giving permanent electrical properties which are independent of humidity. The tiles are pressed not calendered to give an extremely hard wearing and stable material. The tiles are micro-squared to eliminate the need for seam welding which reduces the cost of the installation.

ERGO MATS

Static dissipating ERGO mats can help prevent tiredness of the feet and back and can also help reduce cramp and circulatory problems. Mats are non-slip and extremely durable. (Resistivity 10^6 - 10^9 ohms / square.)

Ref	Sizes
ERG906	0.9 x 0.6 metres.
ERG912	0.9 x 1.2 metres.
ERG918	0.9 x 1.8 metres.

ANTI-FATIGUE MATTING

Tough, long lasting static dissipating anti-fatigue matting providing comfort underfoot. Grey matting is 9mm thick. Surface resistivity is 10^6 - 10^9 ohms / square and should be used in conjunction with already grounded flooring.

Ref	Sizes
AFS	0.9 x 0.6 metres.
AFM	0.9 x 1.5 metres.
AFL	0.9 x 10.3 metres.

CONDUCTIVE PLASTIC FLOORING

Strong plastic flooring is easy to assemble and maintain. Ideally suited for busy areas around machinery such as wave solder machines and cleaning tanks.

Ref	Description
EL792	Mat. 400 x 800 x 25mm.
EL794	Edge strip. 400 x 120mm.
EL796	Corner piece. 120 x 120mm.

Flooring / Grounding
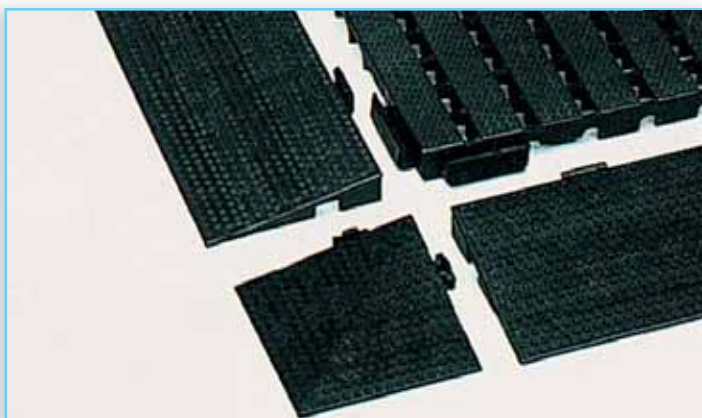
FLOOR TREATMENTS AND CLEANERS

For cleaning and maintenance of ESD flooring.

FLOOR TREATMENTS

An alternative flooring system which gives a high gloss, non-slip finish. This static-dissipative system is not humidity dependant giving excellent ESD properties. Supplied in either 1 or 5 US Gallons.

It consists of 3 parts...

F1721 Floor Stripper.
This removes dirt, grime and any previously applied coatings.

F1722 Floor Cleaner / Neutraliser.
This cleans and neutralises the floor area removing any traces of stripper.

F1720 Floor Coating.
This leaves a static-dissipative floor coating. (Zinc free). Surface resistivity is 10^6 - 10^9 ohms / square.

KILLSTAT FLOOR CLEANER

A dedicated ESD floor cleaner for vinyl and rubber flooring materials. Specially formulated for effective cleaning and long term static control.

KSFCGAL 4.54 litre. (1 gallon).

CONTAMINATION CONTROL MAT

A very economical solution to contamination control. The surface adhesive captures dirt and dust particles from shoes or trolley wheels. The adhesive backed pads stick directly to floor surface. Each pad has 30 disposable layers. Size 0.46 metres x 1.17 metres.

Standard colour is white.

FSTEP30 Pack of 4 pads with 30 layers.

ROUND SIGNS FOR WALL, DOOR OR FLOOR MOUNTING

All are 300mm in diameter, self adhesive and supplied with a non-slip clear covering.

ESD PROTECTED AREA
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

ATTENTION
YOU ARE NOW ENTERING AN ESD PROTECTED AREA

YOU ARE NOW LEAVING
THIS ESD PROTECTED AREA
ALL STATIC SENSITIVE ITEMS MUST BE IN SUITABLE PROTECTIVE PACKAGING

SESDRD ESD Sign.   **SENTRD** Entering EPA.   **SLVGRD** Leaving EPA.

Tel: 01793 511000   Fax: 01793 514142   **BONDLINE**

FOOT GROUNDING PRODUCTS

All grounding products are manufactured to the very highest quality to ensure high comfort and long life.

HEEL STRAPS

All heel straps are produced using a soft 2 layer rubber material. (Black conductive on the outside and white on the inside to avoid any shoe marking). All have 1 meg-ohm safety resistor as standard.

HS2   Adjustable non marking heel strap. (Velcro fastening).

HS2XL   Extra large. (Velcro fastening).

HS2QR   Quick Release. This has a simple plastic clip and has been designed to provide maximum comfort and ease of fitting. (No velcro).

Quick Release.

Velcro Fastening (D-ring).

DOUBLE RUBBER HEEL STRAP

Versatile heel-strap with 1 meg ohm safety resistor. This heel strap has double rubber grounding strip for long life. Velcro fastening.

HS2DR   Heel-strap.

TOE GROUNDERS

TG2   Elasticated non-marking toe-grounder incorporating a 1 meg-ohm safety resistor. Fully adjustable. (Velcro fastening).

RE-USABLE HEEL STRAP

Heelstrap has detachable grounding ribbons which can be discarded or washed after one-off use. The heelstrap can then be used again and again. This unique strap has a 1 meg-ohm safety resistor.

HS3	Re-usable heelstrap. (Does not include grounding ribbons).
DCR50	Disposable conductive ribbons. (Pack of 50).

DISPOSABLE HEEL STRAPS (LIGHTWEIGHT)

Bright yellow disposable heel straps can easily be seen when being worn. Good for short term use. Ideal for visitors.

HS4VS	Pack of 100 heelstraps.
BPHS	Conductive plastic wall dispenser.

ESD OVERSHOES

Clean room overshoe with conductive grounding ribbon. (One size fits all).

OVSH	Overshoe. (Pack of 100).

RE-USABLE ESD OVERSHOE

This Static-Dissipative overshoe has a hard-wearing 2-layer rubber sole to ensure long working life. Available in 2 sizes.

OVSSM	Overshoe Small size. (Up to size 41)
OVSLA	Overshoe Large size. (Size 42 and above)
OVSRIB	Pack of 50 ribbons.

Tel: 01793 511000   Fax: 01793 514142

BONDLINE

ESD SHOES

A comprehensive range of high quality shoes for personnel grounding. For primary grounding these shoes should be used in conjunction with suitable static dissipative flooring.

- Leather upper.
- Foldable heelstrap.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 36 up to 42	■	36913
	▢	36903

DIN4843 part 100   CE, DIN EN 347-1

- Leather upper.
- Foldable heelstrap.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 36 up to 47	■	5310
	▢	5300

DIN 4843 part 100   CE, DIN EN 347-1

- Leather upper.
- Foldable heelstrap.
- Wedge heel 45mm.
- Anti-slip

SIZES	COLOURS	REF. NO
from 36 up to 42	■	5003
	▢	5001

DIN4843 part100   CE, DIN EN347-1

- Special lining for absorbing perspiration.
- Smooth leather upper.
- Replaceable insole. REF 3555
- Anti-slip

SIZES	COLOURS	REF. NO
from 35 up to 43	■	31140
	▢	31139

DIN 4843 part 100   CE, DIN EN 347-1

- Smooth leather upper.
- Foldable heelstrap.
- Wedge heel 45mm.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 36 up to 42	■	5005
	▢	5004

DIN 4843 part 100   CE, DIN EN 347-1

- Superior leather upper.
- Superior leather inner.
- Adjustable heelstrap.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 35 up to 46	■	38210
	▢	38200

DIN 4843 part 100   CE, DIN EN 347-1

- Special lining for absorbing perspiration.
- Replaceable insole. REF 3555
- Smooth perforated leather.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 35 up to 43	■	31137
	▢	31132

DIN 4843 part 100   CE, DIN EN 347-1

- Smooth leather upper.
- Leather lining.
- Lace up.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 39 up to 47	■	32922

DIN 4843 part 100

Shoe Type Key:	■ Occupational	■ Non-Ferrous	■ Steel Toe Caps

- Smooth leather upper and inner.
- Replaceable comfort insole. REF 3551
- Anti-slip.
- Air cushion sole.

SIZES	COLOURS	REF. NO
from 39 up to 47		32651

DIN4843 part 100   CE, EN ISO 20347:2004

- Smooth leather upper and inner.
- Replaceable comfort insole. REF3551
- Anti-slip.

SIZES	COLOURS	REF. NO
from 35 up to 47		32610
		32600

DIN 4843 part 100   CE, EN ISO 20347:2004

- Smooth leather upper.
- Replaceable insole. REF 3555
- Special perspiration resistant lining.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 35 up to 48		31138
		31133

DIN4843 part100   CE, DIN EN347-1

- Leather upper and lining.
- Elasticated.
- Replaceable insole. REF 3551
- Anti-slip.

SIZES	COLOURS	REF. NO
from 39 up to 47		32710
		32700

DIN 4843 part 100   CE,EN ISO 20347:2004

Graphite or White
- Mesh textile for good air circulation.
- Different insoles. REF 3553/3554
- Upper material leather.

SIZES	COLOURS	REF. NO
from 37 up to 48		31596
		31594

DIN 4843 part 100   CE, EN ISO 20345:2004

Graphite / Velour
- Mesh textile for good air circulation.
- Different insoles. REF 3553/3554
- Reflective material.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 36 up to 47		31366

DIN 4843 part 100   CE, EN ISO 20345:2004

- Mesh textile for good air circulation.
- Different insoles. REF 3553/3554
- Reflective material.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 39 up to 47		31386

DIN 4843 part 100   CE, EN ISO 20345:2004

- Different insoles.
- Smooth leather.
- Reflective material.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 36 up to 47		31362
		31361

DIN 4843 part 100   CE, EN ISO 20345:2004

Shoe Type Key: ■ Occupational   ■ Non-Ferrous   ■ Steel Toe Caps

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BLACK/CHARCOAL

- Mesh textile for good air circulation.
- Different insoles. REF 3553/3554
- Anti-slip.
- Air cushion sole.

SIZES	COLOURS	REF. NO
from 36 up to 47		31293

DIN4843 part 100   CE, EN ISO 20345:2004

Graphite / Suede

- Mesh textile for good air circulation.
- Different insoles. REF 3553/3554
- Reflective material.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 36 up to 47		31384

DIN 4843 part 100   CE, EN ISO 20345:2004

- Mesh textile for good air circulation.
- Different insoles. REF 3553/3554
- Velcro fasteners.
- Reflective material.

SIZES	COLOURS	REF. NO
from 37 up to 48		1575 ■
	TOECAP	1275 ■

DIN 4843 part 100   CE, EN ISO 20345:2004

- Mesh textile for good air circulation.
- Different insoles. REF 3553/3554
- Reflective material.

SIZES	COLOURS	REF. NO
from 37 up to 48		1572 ■
	TOECAP	1272 ■

CE, EN ISO 20345:2004

- Special perspiration absorbing lining.
- Replaceable insole. (Gel shock). REF 3562
- Smooth leather upper.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 35 up to 46		31037
		31032

DIN4843 part100   CE, DIN EN345-1

- Special perspiration absorbing lining.
- Smooth leather.
- Replaceable comfort insole. (Gel shock). REF 3562
- Anti-slip.

SIZES	COLOURS	REF. NO
from 35 up to 48		31038
		31033

DIN 4843 part 100   CE, DIN EN ISO 345-1

- Upper material and heel patch in leather.
- Adjustable heel and instep strap.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 36 up to 46		31010
		31000

DIN 4843 part 100   CE, EN ISO 20347:2004

- Adjustable instep strap with quick release.
- Smooth leather.
- Replaceable comfort insole. (Gel shock). REF 3563
- Anti-slip.

SIZES	COLOURS	REF. NO
from 35 up to 48		31035
		31030

DIN 4843 part 100   CE, DIN ISO 345-1

Shoe Type Key: ■ Occupational   ■ Non-Ferrous   ■ Steel Toe Caps

Shoes

BLACK/BLUE
- Special perspiration absorbing lining.
- Replaceable comfort insole. REF 3551
- Smooth leather
- Velcro fastening.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 39 up to 47		1111

DIN4843 part 100   CE, DIN EN 345-1

BLACK/GREEN
- Mesh textile for good air circulation..
- Replaceable comfort insole. REF 3551
- Smooth leather upper.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 36 up to 47		1122

DIN4843 part100   CE, DIN EN 345-1

- Leather upper.
- Replaceable insole. REF 3559
- PU-sole with high slip resistance.
- Reflective tuck.

SIZES	COLOURS	REF. NO
from 36 up to 48		32165

CE, EN ISO 20345:2004

- Adjustable/foldable instep strap.
- Replaceable comfort insole. (Gel shock). REF 3563.
- Special perspiration absorbing liner.
- Smooth leather.
- Anti-slip.

SIZES	COLOURS	REF. NO
from 35 up to 43		31042
		31041

DIN 483 part 100   CE, DIN EN 345-1

- Upper material in leather.
- Replaceable insole. REF 3559.
- PU-sole with high slip resistance..
- Reflective tuck.

SIZES	COLOURS	REF. NO
from 36 up to 48		32155

DIN 4843 part 100   CE, EN ISO 20345:2004

- Leather upper.
- PU-sole with high slip resistance..
- Replaceable insole. REF 3559
- Reflective tuck.
- Quick release fastener.

SIZES	COLOURS	REF. NO
from 36 up to 48		32189

CE, EN ISO 20345:2004

Office Safety Shoe
- BLACK Sizes 39-46
- Leather upper.
- Steel Toe Cap

SIZES	COLOURS	REF. NO
from 39 up to 46		33230

CE, EN ISO 20345:2004

Size Conversion Chart

Euro	UK	Euro	UK
33	1	40-41	7
34	2	42	8
35-36	3	43	9
37	4	44-45	10
38	5	46	11
39-40	6	47	12

Shoe Type Key: ■ Occupational   ■ Non-Ferrous   ■ Steel Toe Caps

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ESD GLOVES

All ESD gloves are manufactured using a high strength conductive yarn which gives a surface resistivity 10^6 - 10^9 ohms/square even after 100 washes. Gloves are manufactured using seamless knitted structures giving an extremely comfortable fit.

(Polyamide 70% / Polyester 22% / Spandex 1% / Conductive Yarn 7%).

ESD GLOVES (COATED TIPS)

These gloves have a polyurethane coated finger tip to provide anti-slip grip. (Avoids finger prints).

GTS	Small size. (Blue rim).
GTM	Medium size. (White rim).
GTL	Large size. (Red rim).

ESD GLOVES

Uncoated gloves for delicate & precise operation.

GLS	Small size. (Blue rim).
GLM	Medium size. (White rim).
GLL	Large size. (Red rim).

ESD GLOVES (COATED PALMS)

These gloves have a polyurethane coated finger and palm to provide added grip.

GPS	Small size. (Blue rim).
GPM	Medium size. (White rim).
GPL	Large size. (Red rim).

TOP FIT GLOVES

Non ESD general purpose gloves. These gloves have coated tips for added grip.

TFGS	Small size.
TFGM	Medium size.
TFGL	Large size.

All gloves can be washed at 40°C with a neutral detergent allowing them to be re-used many times

RE-USABLE ESD CAP

This reusable cap is made of a static dissipative polyester fabric. One size fits all.

CAP8761	Cap (Pack of 10)

ESD GARMENTS

Manufactured from static dissipative material for use in ESD protected areas. (65% polyester, 32% cotton and 3% carbon yarn). They are lightweight and comfortable and have a breast pocket with the ESD symbol.

Machine washable up to 60°C

Available in S/M/L/XL/XXL/XXXL/XXXXL

ESD LAB COATS

Ref	Colour
WW160B	Blue.
WW160W	White.

Customer logos
available on request

Size Chart	Small	Medium	Large	X Large	XX Large	XXX Large	XXXX Large
Coat	43"	44"	47"	49"	53"	56"	60"
Polo Shirt	41"	43"	45"	48"	52"	55"	58"
T Shirt	41"	43"	45"	48"	52"	55"	58"

All sizes are in inches and represent garment chest size. Allow $\frac{1}{2}$ inch tolerance.

ESD LAB JACKETS

Available in blue or white.

AM160JB	ESD Jacket - Blue.
AM160JW	ESD Jacket - White.

Tel: 01793 511000   Fax: 01793 514142   **BONDLINE**

ESD POLO SHIRTS

Manufactured from static-dissipative material for use in ESD protected areas.

BLUE: 47% polyester, 50% cotton and 3% carbon coated yarn.

GREY: 8% polyester, 89% cotton and 3% carbon coated yarn.

These polo shirts are lightweight and comfortable and have a breast pocket with the ESD symbol.

Machine washable up to 40°C

They can be supplied with long or short sleeves.

Available in S/M/L/XL/XXL/XXXL/XXXXL (Please specify).

Ref	Colour
WW2625GS	Grey. Short sleeves
WW2627BS	Blue. Short sleeves.
WW2647BL	Blue. Long sleeves.

ESD T-SHIRTS

Manufactured from static-dissipative fabric for use in ESD protected areas.
Available in 2 colours:

BLUE: 97% cotton and 3% carbon coated yarn.

GREY: 88% cotton, 9% polyester and 3% carbon coated yarn.

These T-shirts are lightweight and comfortable and have the ESD symbol on the arm.

T-shirts are machine washable up to 40°C

Available in S/M/L/XL/XXL/XXXL/XXXXL (Please specify).

Ref.	Colour
WW2655G	Grey T-shirt.
WW2657B	Blue T-shirt.

Garments

ALL TEST INSTRUMENTS ARE MANUFACTURED TO THE VERY HIGHEST QUALITY ALLOWING QUALIFICATION TO COUNCIL DIRECTIVES 89/336/EEC. ALL ITEMS ARE CE APPROVED.

Standard WRIST STRAP TESTER has a single test range 0.75 meg-ohm to 35 meg-ohm. (Other resistance ranges available on request). The instrument has a green light for pass (i.e. resistance between 0.75 meg-ohm and 35 meg-ohm) and 2 red lights which indicate either High resistance fail or Low resistance fail. A buzzer sounds in any fail situation. Very easy to use. (Custom backboards and other instrument colours available on request).

FOOTWEAR/WRIST-STRAP TEST STATION

WST3 Wall mounted unit for checking the continuity of fitted wrist-straps and cords, fitted shoes, heel straps or toe grounders.
(Requires a 9 volt battery).

WRIST-STRAP TEST STATION

WST2 Wall mounted unit for checking the continuity of fitted wrist-strap and cord.
(Requires 9 volt battery).

WRIST-STRAP TESTER

WST1 Portable instrument for checking the continuity of fitted wrist-strap and cord. Unit has banana socket and 10mm stud.
(Requires 9 volt battery).

CALIBRATION

Certificates of calibration can be issued on request for any BONDLINE test equipment. Calibration of all test equipment is recommended on a regular basis. (Annually). Traceable to national standards.

See price list.

INDIVIDUAL ITEMS

FP Foot plate and cord.

WSTBP Back plate fitting brackets and cord.

Tel: 01793 511000   Fax: 01793 514142   **BONDLINE**

GROUNDING INSTRUMENTATION

Instrumentation for ensuring proper personnel grounding.

PERSONNEL GROUNDING TESTER

Wrist strap AND footwear test station to ensure both wrist-strap and footwear are within specified ESD limits. Both feet are checked individually. This high quality instrument can also check the cord on its own. There is also an added output function which can be used to operate door opening features or barrier gate only when PASS is indicated. (Requires battery or mains power supply).

PGT120	Grounding Tester.
PGTWB	Wall Mounting Bracket.
9PS3	Power Supply.

CONTINUOUS WRIST-STRAP AND GROUND MONITOR

The "PERMA WATCH" is a continuous wrist-strap and ground monitor with audio and visual alarms.

(Periodic tests with WST1 should still be done).

PW2	Perma watch monitor.
9PS2	Mains power supply. (Regulated).

CONTINUOUS WRIST-STRAP AND BENCH MONITOR

Reliable, constant ESD monitoring system ensures wrist-strap is working and that the workstation is properly grounded..

CM8202	Constant monitor. Includes power supply.

STATI-CHECK

Stati-Check is a unique visual method of demonstrating how much static charge a person can generate. Very easy to use. (Ideal training aid).

SCK	Stati-check. (Including carrying case and battery).

Test Instrumentation

BONDLINE

E-mail: sales@bondline.co.uk

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SURFACE RESISTIVITY METERS AND KITS

Instrumentation for measuring surface resistivity and point to point resistance.

SURFACE RESISTIVITY KIT

For accurately measuring surface resistivity and point to point resistances, this kit includes 10v / 100 volt meter which is accurate to within half a decade. Complete with 2.5kg weights, all connecting leads and conductive carrying case.

SRM100K   Resistivity Kit.

SURFACE RESISTIVITY METER

This unique Surface Resistivity Meter is extremely accurate and indicates resistance to "half a decade" through the important Static-Dissipative range using 10 / 100 volt test voltages to ensure more accurate readings.

SRM100   Surface Resistivity Meter. (Includes carrying pouch).

SURFACE RESISTANCE METER

Portable instrument for measuring both surface resistivity and resistance to ground. (Using 10 / 100 volts). Very easy to use. (Requires 9 volt battery).

SRM1   Surface resistance meter. (Includes carrying pouch).

Manufactured with soft probes for maximum and consistent surface contact to give more accurate readings.

Very easy to change battery.

RESISTANCE TEST KIT

This Professional auditors kit can be used for measuring Surface Resistivity, Point to Point Resistance, Point to Ground Resistance and Bonding Points to ground.

- Analogue meter.
- Square probe.
- Battery.
- 2.5 kg. (5 lb.) weights. (2 off).
- All test leads.

SRM3   Resistance test kit. (Including carrying case).

Tel: 01793 511000   Fax: 01793 514142   **BONDLINE**

FIELD METERS

Instrumentation for detecting static charges.

DIGITAL STATIC LOCATOR

Highly accurate digital field meter with optical distance indicator which ensures accuracy and repeatability. The HOLD button allows readings to be held, if necessary, in hard-to-read locations. It has an easy to use zero button for greater accuracy. Requires a 9 volt battery.

SL3   Digital static locator.
              (Includes carrying pouch).

FIELD METER

This handheld, portable, digital electrostatic field meter, detects and measures electrostatic fields. Includes carrying pouch and ground cord.

Test range 0 - 160kV.

SL7100   Field meter.

CHARGE PLATE MONITOR KIT

Electrostatic field meter and charge plate set for measuring ionizer efficiency. This kit is supplied with high voltage generator and the field meter has built in timer for measuring voltage decay times. Supplied complete with carrying case.

CPM7100   Charge plate monitor kit.

"ZERO-STAT" GUN

This gun produces both positive (trigger pull) and negative ions (trigger release) which can act to neutralise static charges on an objects surface.

ZST1   Zero-Stat Gun.

Test Instrumentation

CUSTOM DESIGN E.S.D. PACKAGING

E.S.D. safe shipping / storage / transportation packaging can be produced to suit any individual requirements. Packaging can be designed and manufactured using various methods and materials to suit all individual devices offering both mechanical protection and full E.S.D. protection.

CONDUCTIVE CARDBOARD

CORSTAT products can easily be custom designed/manufactured to produce boxes/lids, trays, tubes, divider sets or any other packing cartons required to safely transport/store the most sensitive devices. For the more heavy products, boxes can be produced in double-wall thickness for added protection.

CONDUCTIVE FIBREBOARD

Boxes/lids, trays and many other items can be fabricated in conductive fibre-board to give highly durable storage/transportation products. This product is perfect for the manufacture of divider sets for standard euro-boxes (Page 44) also ensuring full ESD protection

Custom packaging can be produced using any combination of Corstat, fibreboard, foam and vacuum formed trays to safely hold even the most complex items.

More importantly, all packaging products are designed and manufactured to ensure complete E.S.D. safety providing full "Faraday Cage" protection.

CONDUCTIVE CORRUGATED PLASTIC (CORREX)

Any of the corstat product range of products can be manufactured using a conductive corrugated plastic material for added strength or for clean room use.

Tel: 01793 511000   Fax: 01793 514142

BONDLINE

VACUUM FORMING

Custom design / manufacture of vacuum formed trays / boxes / lids and clam-packs using black conductive or white static-dissipative high impact polystyrene or new clear permanent static-dissipative materials which can be re-used and washed without losing any of its ESD properties.

FOAM

Black conductive, pink anti-static, blue static-dissipative or black closed cell (clean room) foams can be cut, stamped, layered, profiled or machined to produce economic trays or inserts to suit numerous packaging requirements.

ESD SAFE CUSTOM CASES

Flight cases are hand built to order and designed to suit individual customer requirements. These are available in a wide variety of constructions, sizes and colours. This can include locking catches, castors and a wide variety of hinges and handles.

Storage / Handling / Packaging

CORSTAT STORAGE AND HANDLING PRODUCTS

Corstat is the ESD industry standard for conductive corrugated board. Corstat provides a highly efficient, low cost method of providing static protection for handling, transportation and storage of static sensitive devices.

Many other sizes and custom designs, including special printing, available on request.

Transit packs can be supplied flat-packed with no foam (Ref. A) or supplied fully assembled with pink anti-static profiled foam (Ref. B).

CORSTAT TRANSIT PACKS

Conductive transit packs give full faraday cage E.S.D protection and can be foam lined to give physical protection to Printed Circuit Boards during shipping and handling.

Ref	Internal dimensions (LxWxD)
3080-1	178 x 127 x 38mm.
3090-2	178 x 127 x 64mm.
3095-22	178 x 127 x 96mm.
3180-3	229 x 191 x 38mm.
3190-4	229 x 191 x 64mm.
3195-24	230 x 180 x 96mm.
3220-5	267 x 216 x 38mm.
3230-6	267 x 216 x 64mm.
3245-26	267 x 216 x 96mm.
3310-7	318 x 267 x 38mm.
3320-8	318 x 267 x 64mm.
3335-28	318 x 267 x 96mm.
3400-9	340 x 140 x 64mm.
3431-13	375 x 133 x 38mm.
3501-05	394 x 318 x 38mm.
3500-10	394 x 318 x 64mm.
3515-30	394 x 318 x 96mm.
3600-11	521 x 394 x 38mm.
3610-12	521 x 394 x 64mm.
3625-32	521 x 394 x 96mm.
3854-14	550 x 470 x 64mm.
3975-16	700 x 500 x 85mm.

CORSTAT DEVICE SHIPPER

Static safe pack eliminates device lead damage when handling or shipping as leads are suspended in open air. Vacuum formed insert is static - dissipative and clear.

Ref	Description
SM511	Tray and cover. (Single device)
SM11	Conductive box for SM511 Size 70 x 70 x 24mm.
SM512	Tray and cover. (2 devices)
SM12	Conductive box for SM512 Size 146 x 70 x 24mm.
SM514	Tray and cover. (4 devices)
SM14	Conductive box for SM514 Size 146 x 146 x 24mm.
SM5110	Tray and cover. (10 devices)
SM110	Conductive box for SM5110 Size 375 x 146 x 24mm.

Tel: 01793 511000   Fax: 01793 514142   **BONDLINE**

CORSTAT INPLANT HANDLERS

A versatile low cost method giving high physical protection during handling of Printed Circuit Boards. Boxes are designed to have different cell configurations and come complete with drop-on lids.

All dimensions are internal sizes.

Ref	Internal dimensions (LxWxD)	
4000 range. Size 575x305x328mm.		
Part Ref:	No. Cells	Cell Size
4000-40	40	124x25x326mm.
4000-30	30	167x25x326mm.
4000-20	20	254x25x326mm.
4000-10	10	514x25x326mm.
4001 range. Size 575x305x400mm.		
Part Ref:	No. Cells	Cell Size
4001-40	40	124x25x398mm.
4001-30	30	167x25x398mm.
4001-20	20	254x25x398mm.
4001-10	10	514x25x398mm.
4003 range. Size 455x245x480mm.		
Part Ref:	No. Cells	Cell Size
4003-20	20	198x19x478mm.
4003-10	10	402x19x478mm.
4005 range. Size 425x245x289mm.		
Part Ref:	No. Cells	Cell Size
4005-40	40	86x19x278mm.
4005-20	20	180x19x278mm.
4005-10	10	370x19x278mm.
4007 range. Size 425x245x190mm.		
Part Ref:	No. Cells	Cell Size
4007-40	40	90x19x188mm.
4007-30	30	121x19x188mm.
4007-20	20	184x19x188mm.
4007-10	10	374x19x188mm.
4008 range. Size 550x390x186mm.		
Part Ref:	No. Cells	Cell Size
4008-80	80	49x43x184mm.
4008-40	40	92x43x184mm.
4010 range. Size 332x274x128mm.		
Part Ref:	No. Cells	Cell Size
4010-50	50	64x24x126mm.
4010-10	10	198x24x126mm.
4012 range. Size 448x348x124mm.		
Part Ref:	No. Cells	Cell Size
4012-100	100	42x32x122mm.
4012-50	50	86x32x122mm.
4014 range. Size 378x368x66mm.		
Part Ref:	No. Cells	Cell Size
4014-100	100	70x15x64mm.
4014-40	40	168x15x64mm.
4016 range. Size 578x299x80mm.		
Part Ref:	No. Cells	Cell Size
4016-80	80	110x16x78mm.
4016-32	32	240x16x78mm..

Other sizes and custom designs, including special printing, available on request.
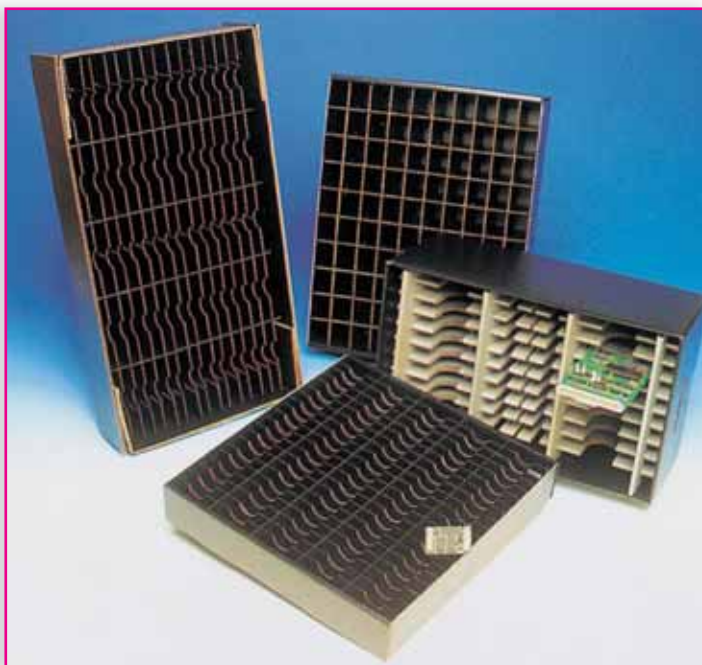
Corstat

CORSTAT COMPONENT BOXES

Static shielding and physical protection for transportation and storage of small static sensitive components.

Ref	Internal dimensions (LxWxD)
CBS	40 x 40 x 15mm.
CB1	60 x 60 x 25mm.
CB2	100 x 100 x 38mm.
CB3	135 x 50 x 20mm.
CB4	74 x 64 x 40mm.
SM12	146 x 70 x 24mm.
SM14	146 x 146 x 24mm.
IC5050	178 x 89 x 25mm.

Supplied flatpacked. Ref A
Supplied assembled with anti-static foam. Ref B

Other sizes and custom designs, including special customer printing, available on request.

CORSTAT CHIP BOXES

Static shielding and physical protection for shipping microchips. Supplied fully assembled with either high or low density conductive foam.

Ref	Internal dimensions (LxWxD)
CH5	90 x 30 x 15mm.
CH10	100 x 60 x 15mm.
CH20	120 x 100 x 15mm.
CH40	140 x 40 x 15mm.
CH60	160 x 80 x 15mm.
CH80	180 x 80 x 15mm.

CORSTAT BIN BOXES/TUBES

Economical conductive storage cartons giving static shielding and physical protection to static sensitive components. Perfect for storing I.C. tubes.

Ref	Internal dimensions (LxWxD)	
634	Fully open bin.	152 x 76 x 114mm.
944	Fully open bin.	229 x 102 x 114mm.
964	Fully open bin.	229 x 152 x 114mm.
1110	Fully open bin.	300 x 100 x 100mm.
1115	Fully open bin.	300 x 150 x 100mm.
1120	Fully open bin.	300 x 200 x 100mm.
1130	Fully open bin.	300 x 300 x 100mm.
1200	Fully open bin.	635 x 60 x 108mm.
1205	Fully open bin.	635 x 108 x 108mm.
1226	Fully open bin.	635 x 153 x 108mm.
1244	Fully open bin.	635 x 203 x 108mm.
1266	Fully open bin.	635 x 260 x 108mm.
2205	Open front bin.	635 x 108 x 108mm.
2244	Open front bin.	635 x 203 x 108mm.
2000	Closed bin.	635 x 108 x 108mm.
RT2021	Railpack tube.	533 x 50mm diameter.

All items supplied flat packed.

CONDUCTIVE VELCRO STRAP

Simple yet effective packing strap which is non-static generating and is 550mm long.

VELSTRAP   Velcro strap.

Tel: 01793 511000   Fax: 01793 514142   **BONDLINE**

CORSTAT STACKING BOXES

Low cost method of storage or transportation of static sensitive devices.

(Standard Euro-containers sizes).
Internal dimensions

Ref	Part	Size (L x W x D)
5000-643	Container	572 x 372 x 291mm.
5000-642	Container	572 x 372 x 211mm.
5000-641	Container	572 x 372 x 111mm.
5000-640	Container	584 x 384 x 55mm.
5000-64	Lid	600 x 400 x 50mm.
5000-433	Container	372 x 272 x 291mm.
5000-432	Container	372 x 272 x 211mm.
5000-431	Container	372 x 272 x 111mm.
5000-43	Lid	400 x 300 x 50mm.

Supplied flatpacked.

STANDARD DIVIDER SETS FOR CORSTAT STACKING BOXES

Manufactured from conductive corrugated board to give strong ESD safe dividers to produce a network of cells to suit most applications.
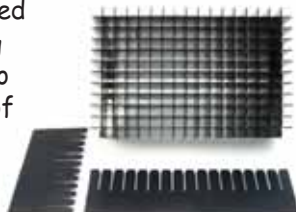
Ref	Dimensions	Description		
CT5111	111 x 572 x 3mm	16 slots	31mm spacing
CT3111	111 x 372 x 3mm	11 slots	28mm spacing
CT2111	111 x 272 x 3mm	8 slots	27mm spacing
CT5211	211 x 572 x 3mm	16 slots	31mm spacing
CT3211	211 x 372 x 3mm	11 slots	28mm spacing
CT2211	211 x 272 x 3mm	8 slots	27mm spacing

Corstat

CT5111
111   30   31   572

CT3111
111   29   28   372

CT2111
111   29   27   272

CT5211
211   30   31   572

CT3211
211   30   28   372

CT2211
211   29   27   272
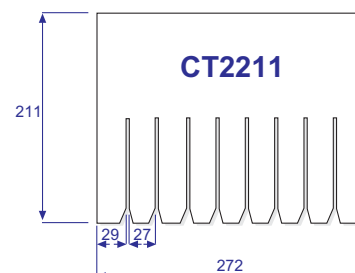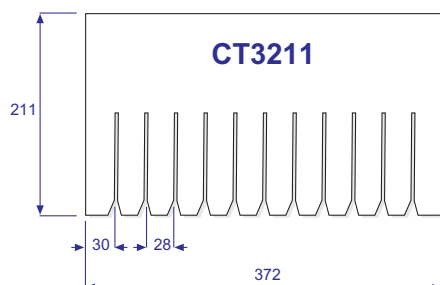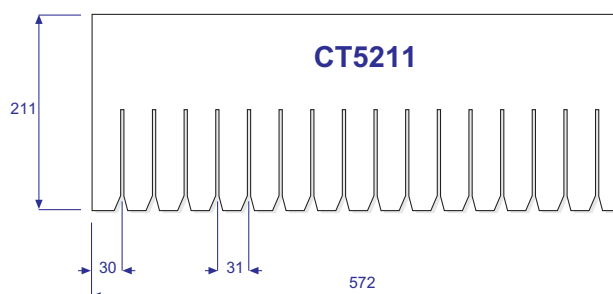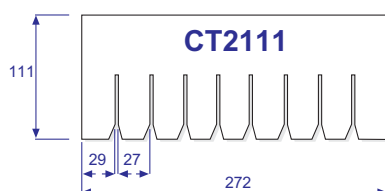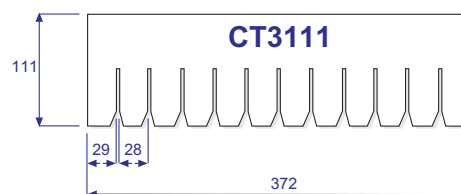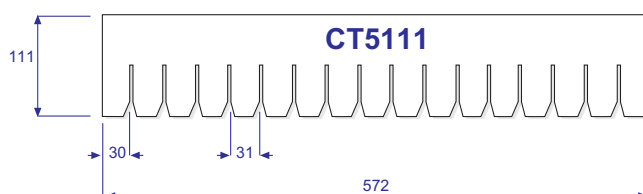
CONDUCTIVE CORSTAT LAYER PADS

Allows easy stacking of divider sets.

Ref	Dimensions	Description
CT5737	570 x 370 x 3mm	Layer pad
CT3727	370 x 270 x 3mm	Layer pad

BONDLINE

CORSTAT COLLAPSIBLE TOTE BOXES

These collapsible tote boxes offer a perfect solution where space is an issue for storage or returns. They are manufactured from conductive corriplast to give a robust and durable ESD safe storage system.

Can be stacked with or without lids.
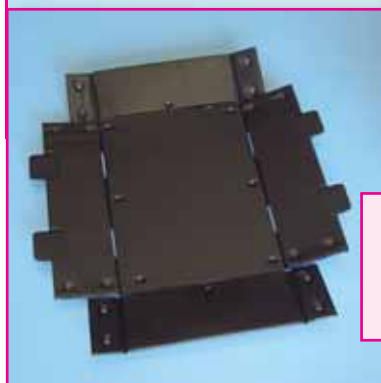
Folds flat to reduce space required for storage. Reduces shipping costs to enable boxes to be reused.

Can be supplied with or without lid.

CORSTAT COLLAPSIBLE TOTE BOXES

Ref	Dimensions		Ref	Dimensions	
6000-431	Box (External)	400 x 300 x 110mm.	6000-641	Box (External)	600 x 400 x 110mm.
	Box (Internal)	378 x 276 x 102mm.		Box (Internal)	578 x 378 x 102mm.
6000-432	Box (External)	400 x 300 x 220mm.	6000-642	Box (External)	600 x 400 x 220mm.
	Box (Internal)	378 x 276 x 212mm.		Box (Internal)	578 x 378 x 212mm.
6000-433	Box (External)	400 x 300 x 300mm.	6000-643	Box (External)	600 x 400 x 300mm.
	Box (Internal)	378 x 276 x 283mm.		Box (Internal)	578 x 378 x 283mm.
6000-43	Lid	400 x 300 x 50mm.	6000-64	Lid	600 x 400 x 50mm.

OTHER SIZES AVAILABLE ON REQUEST

Tel: 01793 511000   Fax: 01793 514142

BONDLINE

STANDARD DIVIDER SETS FOR CORSTAT COLLAPSIBLE TOTE BOXES

Manufactured from conductive corrugated board to give strong ESD safe dividers to produce a network of cells to suit most applications.

Ref	Dimensions	Description	
CCD5111	111 x 572 x 3mm	16 slots	31mm spacing
CCD3111	111 x 372 x 3mm	11 slots	28mm spacing
CCD2111	111 x 272 x 3mm	8 slots	27mm spacing
CCD5211	211 x 572 x 3mm	16 slots	31mm spacing
CCD3211	211 x 372 x 3mm	11 slots	28mm spacing
CCD2211	211 x 272 x 3mm	8 slots	27mm spacing

CCD5111

CCD3111

CCD2111

CCD5211

CCD3211

CCD2211
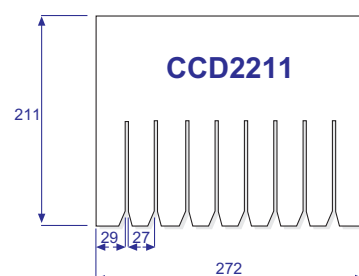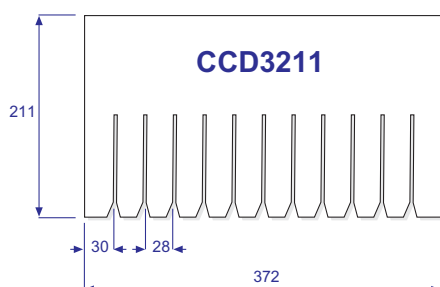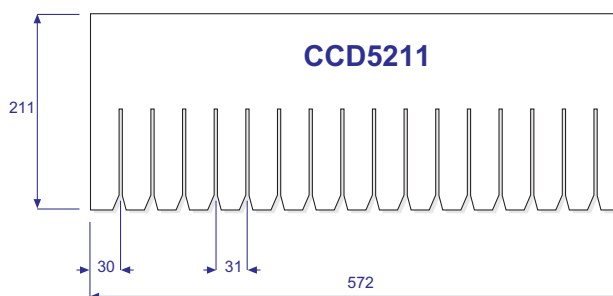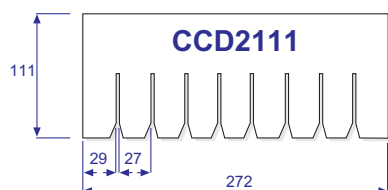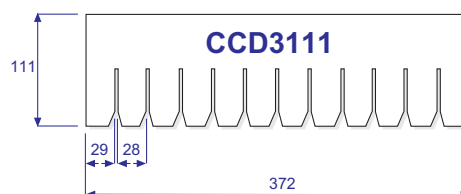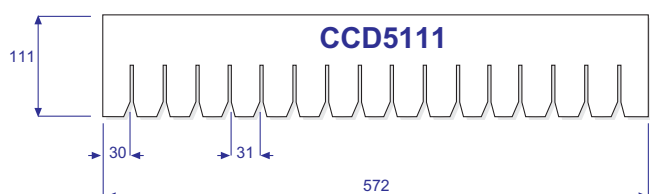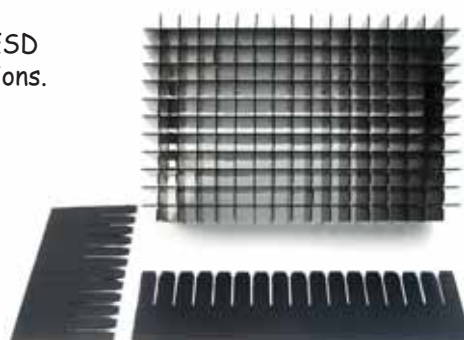
PACKAGING TAPES

CLEAR ANTI-STATIC TAPE

Clear non static generating adhesive packaging tape. Roll is 25mm wide and 66 metres long.

AS25   Clear adhesive tape.

ESD AWARENESS PACKING TAPE

TLT   Packing Tape. (3 Language). 50mm wide x 66 metres long.

CONDUCTIVE VELCRO STRAP

Simple yet effective packing strap which is non-static generating and is 550mm long.

VELSTRAP   Velcro strap.

CONDUCTIVE GRID TAPE

Conductive grid shielding tape for use with static sensitive devices. All reels are 36 metres long.

GRID12	12mm wide.	**GRID24**	24mm wide.
GRID18	18mm wide.	**GRID48**	48mm wide.

Corstat / Tapes

BONDLINE

E-mail: sales@bondline.co.uk

STATIC SHIELDING BAGS

Transparent metalised shielding bags provide a complete static safe environment for the safe storage and transportation of static sensitive devices and printed circuit boards ensuring easy identification. (Faraday cage).

Available in open top and loc-top resealable.

OPEN TOP BAG - STANDARD SIZES

Ref	Size (inches)	Size (mm)
MB33	3" x 3"	(75 x 75mm)
MB35	3" x 5"	(75 x 125mm)
MB46	4" x 6"	(100 x 150mm)
MB426	4" x 26"	(100 x 650mm)
MB58	5" x 8"	(125 x 200mm)
MB68	6" x 8"	(150 x 200mm)
MB626	6" x 26"	(150 x 650mm)
MB810	8" x 10"	(200 x 250mm)
MB812	8" x 12"	(200 x 300mm)
MB816	8" x 16"	(250 x 400mm)
MB1012	10" x 12"	(250 x 300mm)
MB1014	10" x 14"	(250 x 350mm)
MB1024	10" x 24"	(250 x 600mm)
MB1216	12" x 16"	(300 x 400mm)
MB1218	12" x 18"	(300 x 450mm)
MB1618	16" x 18"	(400 x 450mm)
MB1818	18" x 18"	(450 x 450mm)
MB1824	18" x 24"	(450 x 600mm)

LOC-TOP RESEALABLE - STANDARD SIZES

Ref	Size (inches)	Size (mm)
LTM23	2" x 3"	(50 x 75mm)
LTM33	3" x 3"	(75 x 75mm)
LTM35	3" x 5"	(75 x 125mm)
LTM46	4" x 6"	(100 x 150mm)
LTM58	5" x 8"	(125 x 200mm)
LTM68	6" x 8"	(150 x 200mm)
LTM610	6" x 10"	(150 x 250mm)
LTM810	8" x 10"	(200 x 250mm)
LTM812	8" x 12"	(200 x 300mm)
LTM1012	10" x 12"	(250 x 300mm)
LTM1014	10" x 14"	(250 x 350mm)
LTM1216	12" x 16"	(300 x 400mm)
LTM1418	14" x 18"	(350 x 450mm)
LTM1818	18" x 18"	(450 x 450mm)

(Other Sizes available)

HIGH SHIELD CUSHION POUCHES

Manufactured from three layer metalised cushion material which is heat sealable. Gives full ESD protection for delicate assemblies. All pouches have a 50mm fold over flap.

Ref	Size	Pouches per box
MBCP46	100 x 150	500
MBCP58	130 x 200	250
MBCP69	150 x 225	250
MBCP810	200 x 250	250
MBCP1012	250 x 300	250

Bags

Tel: 01793 511000   Fax: 01793 514142   **BONDLINE**

SPECIALISED FLEXIBLE PACKAGING

MOISTURE BARRIER BAGS

Strong, lightweight, ESD bags meet the requirements of EIA583, EIA541, EIA625 and MIL-B-81705C.

Ref	Size (inches)	Size (mm)
MOI35	3" x 5"	(75 x 75mm)
MOI810	8" x 10"	(200 x 250mm)
MOI1024	10" x 24"	(250 x 600mm)
MOI46	4" x 6"	(100 x 150mm)
MOI1012	10" x 12"	(250 x 300mm)
MOI1030	10" x 30"	(250 x 750mm)
MOI68	6" x 8"	(150 x 200mm)
MOI1020	10" x 20"	(250 x 500mm)
MOI1430	14" x 30"	(350 x 750mm)

DESSICANT BAGS

Moisture absorbing pouch.

DB050
Half unit (Pack of 800).

DB102
Two unit (Pack of 240).

HUMIDITY INDICATOR CARDS

Humidity indicator cards display the moisture level within the moisture barrier bag.

HIC1060	10-60% RH range.
HIC2080	20-80% RH range.
HIC3050	30-40-50% RH range.

PINK ANTI-STATIC BAGS

Pink anti-static bags are ideal for use in transporting non-static sensitive devices, (e.g. nuts, bolts etc.) into an Electro-static Protected Area. (E.P.A.) Available in open top and loc-top resealable.

PINK OPEN TOP - STANDARD SIZES. (Other Sizes available)

Ref	Size (inches)	Size (mm)
PB35	3" x 5"	(75 x 125mm)
PB46	4" x 6"	(100 x 200mm)
PB58	5" x 8"	(125 x 200mm)
PB68	6" X 8"	(150 x 200mm)
PB810	8" x 10"	(200 x 250mm)
PB812	8" x 12"	(200 x 300mm)
PB1012	10" x 12"	(250 x 300mm)
PB1014	10" x 14"	(250 x 350mm)
PB1214	12" x 14"	(300 x 350mm)
PB1216	12" x 16"	(300 x 400mm)
PB1218	12" x 18"	(300 x 450mm)
PB1416	14" x 16"	(350 x 400mm)
PB1620	16" x 20"	(400 x 500mm)
PB1824	18" x 24"	(450 x 600mm)

PINK LOC-TOP RESEALABLE
STANDARD SIZES. (With "write on" panels.)

Ref	Size (inches)	Size (mm)
LTP35	3" x 5"	(75 x 125mm)
LTP46	4" x 6"	(100 x 150mm)
LTP58	5" x 8"	(125 x 200mm)
LTP610	6" x 10"	(150 x 250mm)
LTP810	8" x 10"	(200 x 250mm)
LTP812	8" x 12"	(200 x 300mm)
LTP1012	10" x 12"	(250 x 300mm)
LTP1014	10" x 14"	(250 x 350mm)
LTP1218	12" x 18"	(300 x 450mm)
LTP1820	18" x 20"	(450 x 500mm)

Bags

BONDLINE

EURO-STACKING CONDUCTIVE CONTAINERS

Stackable conductive containers with option of hinged lid. A high quality comprehensive range of injection moulded conductive plastic containers providing the most ideal method of storing / transporting the most delicate and E.S.D. sensitve products. All items are extremely strong and durable providing exceptional mechanical protection.

RED STATIC-DISSIPATIVE EURO CONTAINERS

These containers are made from permanent static dissipative polypropylene and are not dependant on humidity. They offer an alternative to the standard black colour and can be used to separate assemblies, piece parts or used to store rejects etc.

Tel: 01793 511000   Fax: 01793 514142

BONDLINE

STANDARD EURO-STACKING CONDUCTIVE CONTAINERS.

Black Containers

300 x 200mm	Type	External Sizes (L x W x D)	Internal Sizes (L x W x D)
EL3212	Container	300 x 200 x 120mm	260 x 160 x 100mm
EL3200	Lid	300 x 200mm with standard lid catch.	
BLD3200	Conductive low density foam piece. 255 x 155 x 10mm thick. (For base or lid).		

400 x 300mm	Type	External Sizes (L x W x D)	Internal Sizes (L x W x D)
EL4305	Container	400 x 300 x 55mm.	355 x 255 x 35mm.
EL4308	Container	400 x 300 x 88mm.	355 x 255 x 78mm.
EL4312	Container	400 x 300 x 120mm.	355 x 255 x 100mm.
EL4317	Container	400 x 300 x 170mm.	355 x 255 x 150mm.
EL4322	Container	400 x 300 x 220mm.	355 x 255 x 200mm.
EL4332	Container	400 x 300 x 320mm.	355 x 255 x 305mm.
EL4300	Lid	400 x 300mm. with standard lid catch.	
BLD4300	Conductive low density foam piece. 355 x 255 x 10mm thick. (For base or lid).		

600 x 400mm	Type	External Sizes (L x W x D)	Internal Sizes (L x W x D)
EL6408	Container	600 x 400 x 78mm.	555 x 355 x 58mm.
EL6412	Container	600 x 400 x 120mm.	555 x 355 x 100mm.
EL6417	Container	600 x 400 x 170mm.	555 x 355 x 150mm.
EL6422	Container	600 x 400 x 220mm.	555 x 355 x 200mm.
EL6428	Container	600 x 400 x 285mm.	555 x 355 x 260mm.
EL6432	Container	600 x 400 x 325mm.	555 x 355 x 305mm.
EL6443	Container	600 x 400 x 430mm.	555 x 355 x 410mm.
EL6400	Lid	600 x 400mm. with standard lid catch.	
BLD6400	Conductive low density foam piece. 555 x 355 x 10mm thick. (For base or lid).		

800 x 600mm	Type	External Sizes (L x W x D)	Internal Sizes (L x W x D)
EL8632	Container	800 x 600 x 325mm.	755 x 555 x 305mm.
EL8643	Container	800 x 600 x 430mm.	755 x 555 x 405mm.
EL8600	Lid	800 x 600mm with standard lid catch.	
BLD8600	Conductive low density foam piece. 755 x 555 x 10mm thick.		

Red Static-Dissipative Containers

400 x 300mm	Type	External Sizes (L x W x D)	Internal Sizes (L x W x D)
ELSD4317	Container	400 x 300 x 170mm.	355 x 255 x 165mm.
ELSD4300	Red Lid	400 x 300mm. with standard lid catch.	

600 x 400mm	Type	External Sizes (L x W x D)	Internal Sizes (L x W x D)
ELSD6412	Container	600 x 400 x 120mm.	555 x 355 x 115mm.
ELSD6422	Container	600 x 400 x 220mm.	555 x 355 x 215mm.
ELSD6400	Red Lid	600 x 400mm. with standard lid catch.	

Internal dimensions are approximate.

Euro Boxes

OPTIONAL ANCILLARY ITEMS

Simple stainless steel label clip.

EL6404   Label clips.

Conductive plastic label clips slide into side of container for easy identification.

Standard lid catch.

EL6403

EL4306   For 4300 series. (Fits EL4317, EL4322 & EL4332).
EL6406   For 6400 series. (Fits EL6417 & EL6432).

Conductive divider sets can be custom made to suit any special requirements.
Other conductive foam sizes and thickness are available on request.
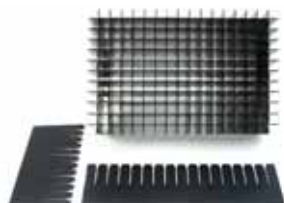
STANDARD EURO-CONTAINER DIVIDER SETS

Manufactured from conductive corriplast to give strong ESD safe dividers to produce a network of cells to suit most applications.

Ref	Dimensions	Description	Ref	Dimensions	Description
SP55550	50 x 555 x 3mm.	17 slots 30mm spacing.	SP555140	140 x 555 x 3mm.	17 slots 30mm spacing.
SP35550	50 x 355 x 3mm.	11 slots 27mm spacing.	SP355140	140 x 355 x 3mm.	11 slots 27mm spacing.
SP25550	50 x 255 x 3mm.	7 slots 30mm spacing.	SP255140	140 x 255 x 3mm.	7 slots 30mm spacing.
SP55590	90 x 555 x 3mm.	17 slots 30mm spacing.	SP555190	190 x 555 x 3mm.	17 slots 30mm spacing.
SP35590	90 x 355 x 3mm.	11 slots 27mm spacing.	SP355190	190 x 355 x 3mm.	11 slots 27mm spacing.
SP25590	90 x 255 x 3mm.	7 slots 30mm spacing.	SP255190	190 x 255 x 3mm.	7 slots 30mm spacing.

28   30   555

26   27   355

27   30   255

28   30   555

26   27   355

27   30   255
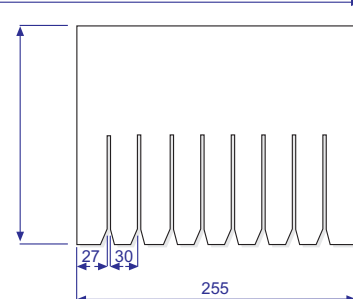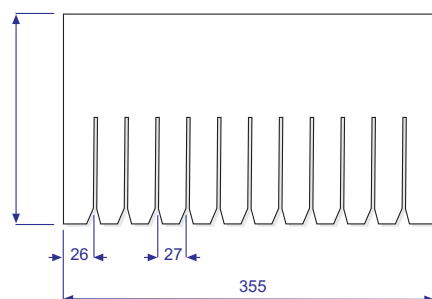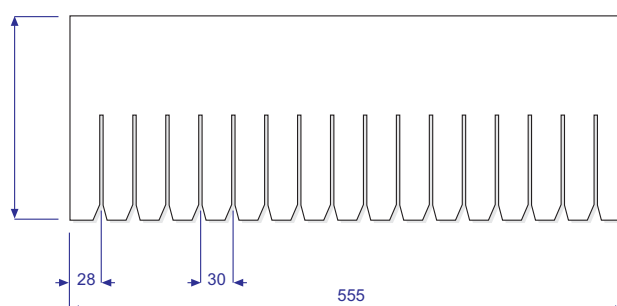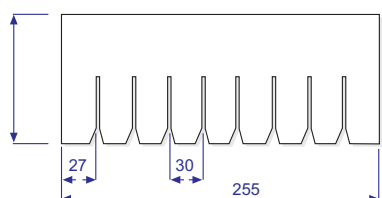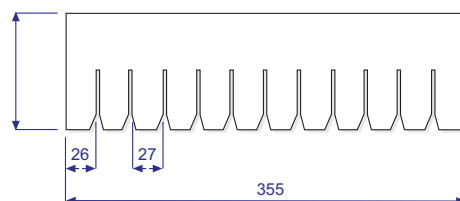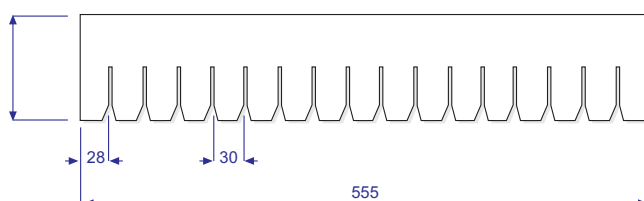
CONDUCTIVE CORRIPLAST LAYER PADS

Allows easy stacking of divider sets.

Ref	Dimensions	Description
SP5535	550 x 350 x 3mm.	Layer pad.
SP3525	350 x 250 x 3mm.	Layer pad.

CONDUCTIVE CARD CARRYING FRAMES

Simple yet very efficient method of storage/transportation of Printed Circuit Boards. Frames are fully adjustable and extremely versatile as they can be used in a vertical, horizontal or flat position. They are made up of 2 end walls located on aluminium rails with the option of a central divider for added capability.

THE ASSEMBLED RACKS WILL FIT PERFECTLY INTO A STANDARD EURO CONTAINER.

Typical Large Rack

A typical large rack is made up of two end walls and a pair of rails. The centre frame is optional.

EL41   Conductive end wall.
350 x 190 x 30mm.

EL42   Conductive centre frame (Optional).
350 x 190 x 35mm.

ELF6   Pair of aluminium rails.
53 x 552mm long.
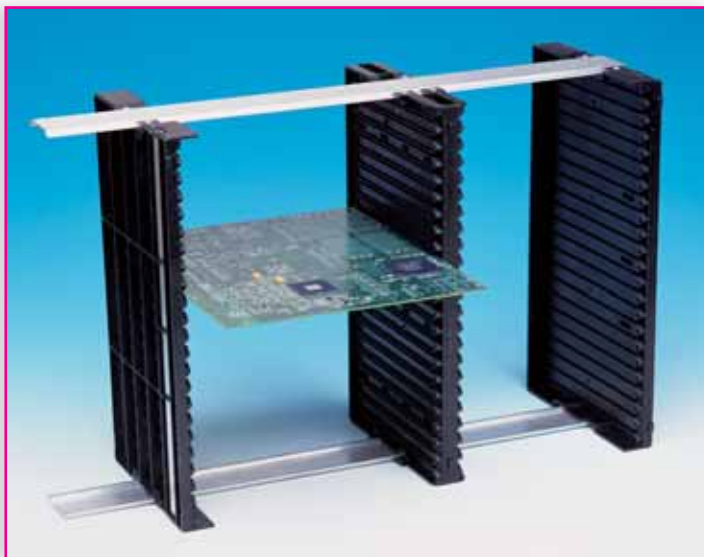
Other standard aluminium rail lengths. (All rails are inter-changeable).
ELF1   Pair of aluminium rails. 53 x 152mm long.   **ELF2**   Pair of aluminium rails. 53 x 232mm long.

Typical Small Rack

A typical large rack is made up of two end walls and a pair of rails.

EL31   Conductive end wall.
250 x 95 x 30mm

ELF4   Pair of aluminium rails.
53 x 352mm long.
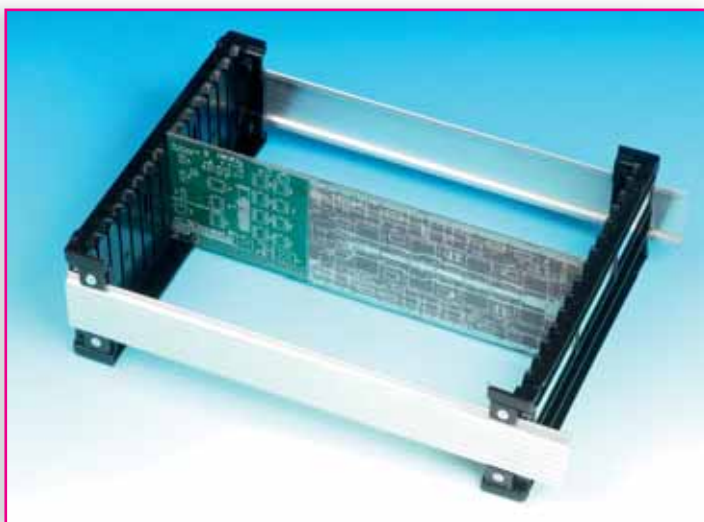
DIMPLE BOARD RACK

Grid style slot design allows simple yet effective storage of PC boards up to 2mm thick.

Fits into standard euro-container.

ELF43   Rack size 355 x 255 x 14mm.

Fami
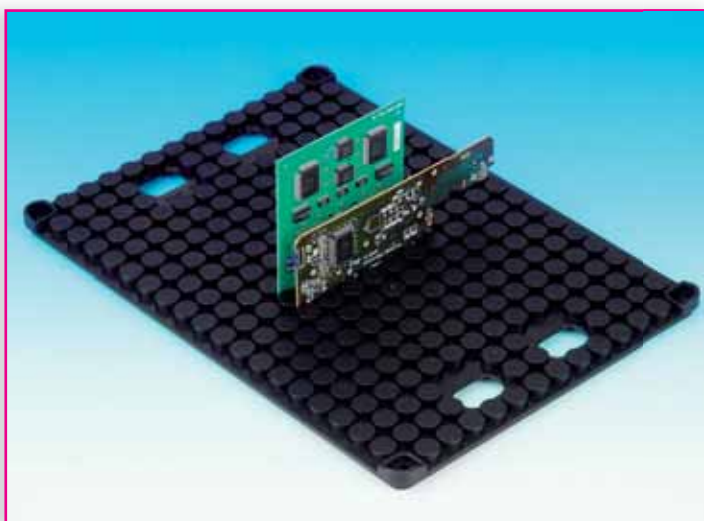
CONTAINER TROLLEYS

These versatile and robust galvanised steel trolleys have conductive castors/wheels to ensure ESD protection. Designed specifically for the easy transportation and handling of standard EUROBOXES and picking bins. The shelves are fully adjustable and can be tilted for use at the work station.

TOTAL LOAD CAPACITY 150Kg

STANDARD TROLLEY

Trolley has 3 adjustable shelves.

SIZE
776 x 536 x 1286mm high.

ELW1207
Trolley.

TOTAL LOAD CAPACITY 150Kg

WIDE TROLLEY

Trolley has 3 adjustable shelves.

SIZE
1088 x 536 x 1286mm high.

ELW1210
Wide Trolley.

TOTAL LOAD CAPACITY 150Kg

"DOLLY" TROLLEY

Simple handy trolley with conductive swivel castors and handle.

EL1198   Trolley. Size 610 x 410 x 170mm high.
Handle Height 870mm.

TOTAL LOAD CAPACITY 150Kg

TROLLEY

Simple handy trolley with conductive swivel castors.

EL1196   Trolley. Size 610 x 410 x 170mm high.

CONTAINER STORAGE SHELVING SYSTEM

Height 1010mm and 2010mm.

This shelving system was especially developed to take stacking containers.

The advantage of this system is that containers of different heights can be placed within the same run. The shelving system is based on the drawer storage concept with rear stops preventing containers being pushed too far through the upright frames. The modular construction of this shelving system ensures the most efficient use of available storage space.

Fami

CONDUCTIVE PICKING BINS

A complete range of conductive plastic picking bins which have all the standard designs and features universally accepted with this versatile method of storing / handling. These bins can be fitted to louvred panels or can be stacked.

ROUND FRONTED

Very strong, versatile and attractive round fronted bins to allow easy picking.

Sizes	Length / Width / Depth (External)	Sizes	Length / Width / Depth (External)
TB2	169 x 95 x 75mm.	TB5	350 x 200 x 200mm.
TB3	230 x 140 x 130mm.	TB7	500 x 300 x 200mm.
TB4	350 x 200 x 145mm.		

FLAT FRONTED

These half open sloping fronted bins allow easy component picking. An added feature to the FAMI range is that the two smallest bins actually lock in to each other giving a solid stacking feature.

Sizes	Length / Width / Depth (External)	Sizes	Length / Width / Depth (External)
ELO1PLC	72 x 45 x 34mm.	EL3A2PLC	350 x 200 x 145mm.
ELOPLC	85 x 95 x 45mm.	EL3PLC	350 x 200 x 200mm.
EL1PLC	160 x 95 x 75mm.	EL4PLC	500 x 300 x 200mm.
EL2PLC	230 x 140 x 130mm.		

Picking Bins

BONDLINE

COMPONENT STORAGE AND HANDLING

Conductive trays, boxes and cases for PCB and component storage / shipping.

CONDUCTIVE PCB RACKS

Robust moulded PCB racks offer a very convenient method of storage in assembly area.

Ref	Size
PCBS	210 x 275 x 95mm. 25 slots.
PCBL	350 x 270 x 130mm. 25 slots.
PCBHD	406 x 275 x 150mm. 48 slots.

CONDUCTIVE COMPONENT BOXES

A full range of conductive polypropylene boxes with lids.

Can be supplied empty or with any combination of high / low density conductive foam.

Ref	Size
SB1	40 x 40 x 13mm deep.
SB2	74 x 52 x 18mm deep.
SB3	110 x 83 x 17mm deep.
SB5	228 x 128 x 30mm deep.
SB6	90 x 65 x 17mm deep.
SB9	143 x 102 x 38mm deep.

CONDUCTIVE TRANSIT CASES

A comprehensive range of conductive polypropylene cases with securing latches. Cases can be supplied empty or with custom foam pieces for numerous applications.

Ref	Size
BC100	225 x 190 x 47mm.
BC122	225 x 200 x 75mm.
BC200	268 x 230 x 52mm.
BC350	355 x 280 x 75mm.

Tel: 01793 511000   Fax: 01793 514142

BONDLINE

COMPONENT STORAGE AND HANDLING

General component storage and assembly aids for use in static sensitive areas.

CONDUCTIVE CAROUSEL

Standard carousel has 40 individual trays and enables easy storage and easy handling of components in the assembly area.

CAR01   Conductive carousel.
470mm diameter x 300mm high.

CONDUCTIVE STORAGE CABINETS

These useful cabinets can be wall hung or stood on a worktop to give simple and easy component storage. Identification labels are included with each cabinet.

C291   Cabinet. 180 x 310 x 290mm high.
24 drawers. (As shown).

C551   Cabinet. 180 x 310 x 550mm high.
48 drawers.

Drawer sizes 69 x 37 x 175mm.
(internal dimensions)

CONDUCTIVE ESD TURNTABLE

Strong conductive rubber turntable can help when working on large heavy devices.

TTB2   ESD Turntable. 380mm diameter.
TTB3   ESD Turntable. 500mm diameter.

Storage / Handling / Packaging

COMPONENT STORAGE AND HANDLING

For storage, protection and safe handling of electrostatic sensitive devices.

CONDUCTIVE COMPONENT TRAYS

Trays can be vacuum formed in almost any configuration to give versatile method of storage.

Ref	Standard Tray Size
TY1	325 x 175 x 25mm deep. Single cell .
TY12	375 x 350 x 25mm deep. 12 cells 103 x 79 x 24mm.
TY25	305 x 250 x 22mm deep. 25 cells 50 x 38 x 16mm.
TY50	305 x 250 x 25mm deep. 50 cells 42 x 26 x 13mm.

LOW DENSITY CONDUCTIVE FOAM

Foam can be supplied in any size to suit numerous packaging requirements. Foam can easily be shaped or stamped to accommodate the most demanding criteria. Meets TS10218. (Non-corrosive).

Ref	Standard Size
BLD6	1 metre x 1 metre x 6mm.
BLD10	1 metre x 1 metre x 10mm.
BLD3200	260 x 160 x 10mm.
BLD4300	355 x 255 x 10mm.
BLD6400	555 x 355 x 10mm.
BLD8600	755 x 555 x 10mm.

HIGH DENSITY CONDUCTIVE FOAM

High density component insertion foam. Meets TS10218. (Non-corrosive).

Ref	Standard Size
BHD6	1 metre x 1 metre x 6mm.
BHD10	1 metre x 1 metre x 10mm.

(To avoid damage/crushing, 1 square metre is supplied in 4 pieces, each is 0.5 metre square).

ANTI-STATIC BUBBLE WRAP

Anti-static (low charging) bubble wrap can be supplied in roll form or made up into bags of many different sizes.

Ref	Size
ASBW	100 metres x 1.5 metres wide.
ASBW2	Slit two rolls 750mm wide.
ASBW3	Slit three rolls 500mm wide.

Tel: 01793 511000   Fax: 01793 514142   BONDLINE

CLEANING / WASTE HANDLING

These items allow for safe cleaning and waste disposal within an EPA.

CONDUCTIVE WASTE BINS

General conductive plastic waste bins for use in assembly area or office.

WBIN — Small waste bin. (12 litres). 290mm diameter x 275mm high.

BLNR — Anti-static bin liners. (Pack of 100).

WBIN40 — Large waste bin. (40 litres). 330 x 330 x 550mm high.

BLNR40 — Large bin liner. (40 litres).

ESD VACUUM CLEANER

Made from tough, crack resistant, static dissipative plastic for added safety. Adjustable fan speed ensures complete versatility. Suitable for use inside Electro-static Protected Area.

V555E — ESD Vacuum Cleaner.
PH722 — Filter Bag (pack of 5).

HEAVY DUTY ESD VACUUM CLEANER

This unit has been developed for cleaning ESD protected areas inside an E.P.A. (Electrostatic Protected Area).

V777E — Heavy Duty Vacuum Cleaner.
V777FL — Filter replacement.

Supplied with the following accessories.

ESD DOCUMENT STORAGE

ESD folders and inserts for document storage and handling within electrostatic protected areas.

STATIONERY

Strong and highly durable conductive ring binders which can safely be taken into static sensitive areas and is clean room compatible.

RB4   Black conductive A4 ring-binder. (4 ring). 50mm (2") spine width. (Coloured identification spine inserts available on request).

A4 RING BINDERS

Binders (4 Rings) are made from conductive cardboard.

RB45	45mm spine width.
RB65	65mm spine width.
RB74	Lever arch file with 74mm spine 2 rings only
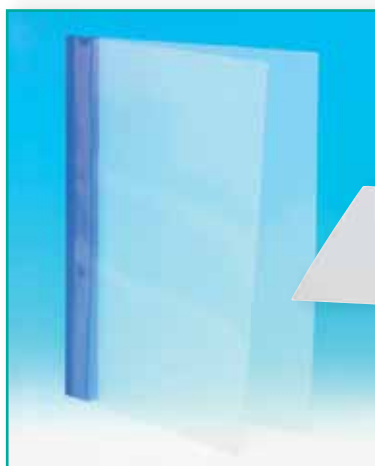
CLEAR A4 ESD BINDER

Clear, permanent static-dissipative P.V.C. Binder made of I.D.P (Inherently Dissipative Polymer) which is not humidity dependant.

IDPA4   Clear Binder.

ESD DOCUMENT HOLDERS

Clear, permanent static-dissipative ring binder inserts with re-enforced spine.

DOC3	Size A4 (Pack of 100).
DOC2	Size A3 (Pack of 100).

ESD STATIONERY

Stationery accessories for use in offices and ESD protected areas.

CONDUCTIVE LETTER TRAYS
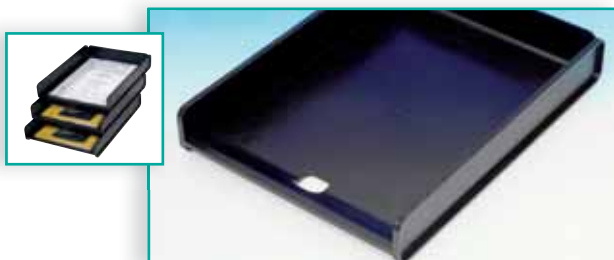
Volume conductive letter trays can be used in the office or the EPA to prevent the build up of harmful static charges. (Stackable).

| TYA4 | A4 Letter Tray. |

CONDUCTIVE GRID TAPE

Conductive grid shielding tape for use with static sensitive devices. All reels are 36 metres long.

| GRID12 | 12mm wide. | GRID24 | 24mm wide. |
| GRID18 | 18mm wide. | GRID48 | 48mm wide. |

PAPER TAPE

General purpose static awareness tape. 50mm wide and 66 metres long.

| PT50 | Awareness tape. |

CLEAR ANTI-STATIC TAPE

Clear non-static generating adhesive packaging tape. Roll is 25mm wide and 66 metres long.

| AS25 | Clear adhesive tape. |

RUBBER BANDS / ESD PEN

| ASPN | ESD Pen. |

Pink anti-static rubber bands for use with static sensitive devices.

| ASB60 | 60mm diameter. 1 kg bag. |
| ASB100 | 100mm diameter. 1 kg bag. |

ESD POUCH

Personal effects pouch for use in static sensitive areas.

| PCHESD | Pouch. |

COMPUTER CLEANING WIPES

Wipe size 125x200mm

Ideal for use on computer screens and keyboards. Cleans, sanitises and helps prevent dust build up due to static charges.

| SW12 | Box of 24 wipes. |

TELEPHONE CLEANING WIPES

Wipe size 125x200mm

Bacteriostatic properties instantly sanitise surfaces to help prevent the spread of harmful germs and bacteria. Great for mobiles and remote controls.

| TW12 | Box of 24 wipes. |

Office

BONDLINE

ESD AWARENESS LABELS

Self-adhesive warning labels for components, sub-assemblies, bags, boxes, bins, etc. to give easy identification of static sensitive devices and products. (Can act as tamper proof labels when applied to bags etc.)

ESD SUSCEPTIBLE SYMBOL

This long established symbol denotes components and sub-assemblies which are ESD susceptible.

ESD PROTECTIVE SYMBOL

This more recently introduced symbol denotes ESD protective products. Often a letter is added under the symbol to indicate the primary function of the item.

C for Conductive.   D for Dissipative.
L for Low charging.   S for Shielding.

SMALL ESD WARNING LABELS

Self adhesive labels to identify static sensitive devices. Supplied in rolls of 1,000.

L005	ESD Label.	5 x 5mm.
L009	ESD Label.	12 x 12mm.

ESD WARNING LABELS

Self adhesive labels to identify static sensitive devices. Rolls of 1,000.

L010	ESD Label.	12 x 22mm.
L023	ESD Label.	25 x 45mm.
L036	ESD Label.	38 x 75mm.
L039	ESD Label.	16 x 38mm.

Other standard labels.

LPBF	"Lead free" label.	25 x 25mm.
LROHS	"Rohs compliant" label .	25 x 38mm.

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

Pb-free   RoHS 2002/95/EC

PAPER TAPE

General purpose static awareness tape. 50mm wide and 66 metres long.

PT50	Awareness tape.

ESD AWARENESS PACKING TAPE

TLT	Packing Tape. (3 Language).

50mm wide x 66 metres long.
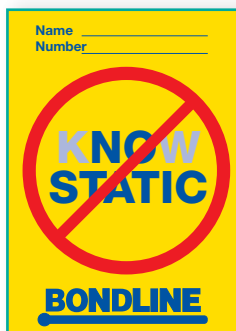
"KNOW STATIC" EDUCATIONAL BOOKLET.

A straightforward simple "Introduction to ESD" booklet to explain the basics of ESD. This booklet is very useful and informative for beginners but also an excellent reminder to the most experienced operatives. Ideal as a pre-training aid. (Every operator should have one!).

KNST	ESD booklet.

Name _____
Number _____

KNOW STATIC

BONDLINE

ESD AWARENESS SIGNS

Simple yet effective way of reminding everyone of the problems and related procedures required to help eliminate ESD.

WARNING SIGNS

Awareness signs are available in rigid material or flexible with self-adhesive backing.

ATTENTION
ESD PROTECTED AREA

Observe Precautions

For Handling Electrocstatic

Discharge Sensitive Devices

ATTENTION
You are now Leaving An
ESD PROTECTED AREA

All Static Sensitive Items Must Be In Suitable Protective Packaging

S315	Yellow sign. 150 x 300mm. Rigid.
S315F	Yellow sign. 150 x 300mm. Flexible.
S315DB	Printed both sides
S630	Yellow sign. 300 x 600mm. Rigid.

S315R	Red sign. 150 x 300mm. Rigid.
S315RF	Red sign. 150 x 300mm. Flexible.
S630R	Red sign. 300 x 600mm. Rigid.

RIGID AWARENESS SIGNS

Simple but effective awareness signs.

CAUTION
Static Sensitive Devices
ALWAYS WEAR YOUR WRIST STRAP

ATTENTION
YOU ARE NOW ENTERING
AN ESD PROTECTED AREA

S315WS	Caution sign. 150 x 300mm. Rigid."Wear your wrist-strap".
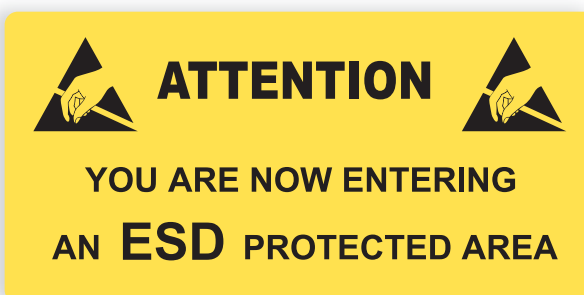
S315ENT	Caution sign. 150 x 300mm. Rigid. "Entering ESD area".

Attention
High voltage
ESD Protected area

Observe precautions for handling electrostatic discharge sensitive devices

Attention
ESD unprotected area

Do not enter with unprotected company product or components

SHVF	"High Voltage" Sign. 150 x 300mm

SUNPF	"Unprotected" Sign. 150 x 300mm

ROUND SIGNS FOR WALL, DOOR OR FLOOR MOUNTING

All are 300mm in diameter, self adhesive and supplied with a non-slip clear covering.

ESD PROTECTED AREA
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

ATTENTION
YOU ARE NOW ENTERING AN ESD PROTECTED AREA

YOU ARE NOW LEAVING
THIS ESD PROTECTED AREA
ALL STATIC SENSITIVE ITEMS MUST BE IN SUITABLE PROTECTIVE PACKAGING

SESDRD	ESD Sign.

SENTRD	Entering EPA.

SLVGRD	Leaving EPA.

Signs / Labels

KILLSTAT SPRAYS AND CLEANERS

Killstat sprays and cleaners are an inexpensive and effective solution for long term static control. The sprays are water based and after drying leaving an ultra thin static-dissipative layer which prevents the build up of any static charges.

KILLSTAT ANTI-STATIC SPRAY

The heavy duty anti-static spray is recommended for use on all porous surfaces such as carpets to help prevent static charges which can cause annoying and painful shocks in offices, gymnasiums, hotels, etc.
1 litre will cover approx. 20 square metres. This can also be used on fabrics such as curtains or clothing.

KSHS16	500ml. (17.6fl oz).
KSHS32	1 litre. (35.2 fl oz).
KSHSGAL	4.54 litre. (1 gallon).

KILLSTAT ANTI-STATIC SPRAY

This general purpose anti-static spray is recommended for use on any non-porous surfaces to help prevent charge generation and other static related problems.

KSS16	500ml. (17.6 fl oz).
KSS32	1 litre. (35.2 fl oz).
KSSGAL	4.54 litre. (1 gallon).

KILLSTAT MAT/TABLE TOP CLEANER

An ideal cleaner that can be applied on most non-porous surfaces. This water-based cleaner is perfect for use on anti-static mats and vinyl chairs.

KSC16	500ml. (17.6 fl oz).
KSC32	1 litre. (35.2fl oz).
KSCGAL	4.54 litre. (1 gallon).

KILLSTAT HAND LOTION

A static-dissipating, non-greasy hand lotion which promotes softer hands and nails to help keep the skin moist for better wrist-strap contact.

KSL8	250ml. (8 oz).

KILLSTAT FLOOR CLEANER

A dedicated ESD floor cleaner for vinyl and rubber flooring materials.

KSFCGAL	4.54 litre. (1 gallon).

COMPUTER CLEANING WIPES

Wipe size 125x200mm

Ideal for use on computer screens and keyboards. Cleans, sanitises and helps prevent dust build up due to static charges.

SW12	Box of 24 wipes.

TELEPHONE CLEANING WIPES

Wipe size 125x200mm

Bacteriostatic properties instantly sanitise surfaces to help prevent the spread of harmful germs and bacteria. Great for mobiles and remote controls.

TW12	Box of 24 wipes.

ESD BRUSHES

A comprehensive range of brushes which allows the safe cleaning of ESD sensitive assemblies without generating any harmful static charges.

KILLSTAT BRUSHES

Conductive nailbrush and toothbrush style

	Ref	Type	Size	Bristle Length
1	KB1	Nailbrush	70 x 25mm.	20mm.
2	KB5	Toothbrush. 180mm long.	35 x 10mm.	15mm.
3	KB6	Toothbrush. 225mm long.	70 x 15mm.	18mm.
4	KB7	Toothbrush. 245mm long.	110 x 18mm.	20mm.
5	KB5S	Soft bristle. 180mm long.	35 x 10mm.	15mm.

Brushes KB5S and KB8 have natural bristle and can be used with most chemicals or solvents such as IPA.

KILLSTAT BRUSHES

Conductive general purpose multi-use brushes.

	Ref	Brush Length	Bristle Size Width & Length
6	KB2	150mm.	38 x 25mm.
7	KB3	175mm.	48 x 25mm.
8	KB4	185mm.	70 x 30mm.
9	KB8	150mm.	38 x 25mm (Soft).
10	KB9	165mm.	20 x 20mm.
11	KB10	165mm.	35 x 20mm.
12	KB11	135mm.	30 x 15mm.

ESD BRUSHES

	Ref	Length	Bristle Size (WxL)
13	BR69076	370mm.	180 x 45mm.
14	BR2	210mm.	55 x 20mm.
15	BR3	163mm.	32 x 10mm.
16	BR4	120mm.	32 x 9mm.
17	BR5	127mm long (double ended). End 1-6mm. End 2-8mm.	12 x 5mm. 12 x 7mm.
18	BR69077	50mm long (double ended). End 1-7mm. End 2-12mm.	4 x 4mm. 4 x 4mm.
19	BR69072	75mm.	7mm dia. x 18mm.
20	BR69060	75mm.	11 x 13mm.
21	BR69061	115mm.	15 x 15mm.
22	BR69062	120mm.	18 x 5mm.
23	BR69066	157mm.	30 x 18mm.

Brushes

IONIZERS

The distinguished High Frequency series of ionizers are greatly superior to traditional AC and DC static eliminators in auto-balance, high efficient static elimination capability and stable character. In addition, its smaller size and lighter weight have made it more convenient to use and it has become the latest static elimination technology available today. Special alloy discharge needle is durable and very easy to maintain and keep clean due to simple clip-on covers. All ionizers are CE approved.

BENCH TOP IONIZERS

Compact size with auto-ion balance within 5 volts. Equipped with out-of-balance alarm indicator. Very simple to use and routine maintenance is performed with ease. Includes mains power supply lead/transformer. 24V operation.

KS10H   Small Ionizer.
102 x 120 x 58mm deep.

KS21H   Ionizer.
142 x 170 x 80mm deep.

HORIZONTAL AIR IONIZER

This quiet ionizer has adjustable blowing angle and air volume .It has an auto ion balance system within 5volts. It is equipped with an ionization indicator light and HV abnormality alarm indicator light. Very simple to use and maintain. Includes mains power supply lead/transformer. 24V operation.

KS50H   Horizontal Ionizer.
Size 465 x 178 x 75mm deep.

HAND ION GUN AND POWER SUPPLY

Suitable for ionization of large area as a great amount of ions ensure rapid elimination of static electricity and contaminations. Fully shielded HV cable without magnetic interference. (Requires compressed air supply).

KSAG1   Ionizing gun.
KSAV5000   Power supply.

OVERHEAD IONIZERS

Light, quiet, high performance overhead ionizers to ensure a static free work area. These units have built in auto balance feature with an out-of-balance alarm. All ionizers are CE approved.

OVERHEAD IONIZER 3-FAN

The three fans are independent of each other with individual controls and circuitry. Very easy to clean and maintain due to clip-on fan covers. Auto ion balance +/-5V.

KS120H   3-FAN IONIZER. Size 1000 x 145 x 65mm. Includes mains power supply lead.

OVERHEAD IONIZER 4-FAN

For ionization of large workstation. Highly efficient four fan ionizer ensures a static free work area. The four fans are independent of each other with individual controls and circuitry. Very easy to clean and maintain due to clip-on fan covers. Auto ion balance +/-5V.

KS130H   4-FAN IONIZER. Size 1200 x 145 x 65mm. Includes mains power supply lead.

CALIBRATION / BALANCING / SERVICING /SPARES. For the electronics industry it is essential that ionizers are in perfect balance. Balancing and calibration are available together with a complete servicing capability. Balancing is done using a CHARGE PLATE MONITOR.

For information on charge plate monitor set, please see page 33.

Ionizers

ESD WORKBENCHES (SQUARE TUBE STYLE) "FOUR LEG" DESIGN

A leg in each corner gives firm support. Height adjustable feet for easy levelling. Powder coated light grey framework as standard. 20mm thick Norastat or Lamstat worktop options. Full range of accessories available including wrist straps, circuit breakers and earth/ground leads. Standard bench height is 840mm (760 and 920mm heights also available). All stated dimensions are in mm.

Basic Sizes listed (others available)

Nortstat	Lamstat	Size (HxWxD)
BQ849060NLXX	BQ849060LLXX	840x900x600.
BQ841260NLXX	BQ841260LLXX	840x1200x600.
BQ841275NLXX	BQ841275LLXX	840x1200x750.
BQ841290NLXX	BQ841290LLXX	840x1200x900.
BQ841560NLXX	BQ841560LLXX	840x1500x600.
BQ841575NLXX	BQ841575LLXX	840x1500x750.
BQ841590NLXX	BQ841590LLXX	840x1500x900.
BQ841860NLXX	BQ841860LLXX	840x1800x600.
BQ841875NLXX	BQ841875LLXX	840x1800x750.
BQ841890NLXX	BQ841890LLXX	840x1800x900.

Extension Benches - will not accept bench accessories

Nortstat	Lamstat	Size (HxWxD)
BQ849060NLET	BQ849060LLET	840x900x600.
BQ841260NLET	BQ841260LLET	840x1200x600.
BQ841275NLET	BQ841275LLET	840x1200x750.

Worktop Options

Lamstat Worktop
20mm Thick Laminate
10^6-10^8 ohms.

Norastat Worktop
20mm Thick Rubber
10^5-10^7 ohms.
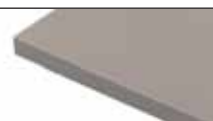
ESD WORKBENCHES (SQUARE TUBE STYLE) "CANTILEVER" DESIGN

Cantilever construction allows maximum leg room. Height adjustable feet for easy levelling. Powder coated light grey framework as standard. 20mm thick Norastat or Lamstat worktop options. Full range of accessories available including wrist straps, circuit breakers and earth/ground leads. Standard bench height is 840mm (760 and 920mm heights also available).

Basic Sizes listed (others available)

Nortstat	Lamstat	Size (HxWxD)
BC841275NLXX	BC841275LLXX	840x1200x750.
BC841290NLXX	BC841290LLXX	840x1200x900.
BC841575NLXX	BC841575LLXX	840x1500x750.
BC841590NLXX	BC841590LLXX	840x1500x900.
BC841875NLXX	BC841875LLXX	840x1800x750.
BC841890NLXX	BC841890LLXX	840x1800x900.

Extension Benches - will not accept bench accessories

Nortstat	Lamstat	Size (HxWxD)
BC846060NLXX	BC846060NLLX	840x600x600.
BC849060NLXX	BC849060NLLX	840x900x600.
BC841260NLXX	BC841260NLLX	840x1200x600.

Worktop Options

Lamstat Worktop
20mm Thick Laminate
10^6-10^8 ohms.

Norastat Worktop
20mm Thick Rubber
10^5-10^7 ohms.

Tel: 01793 511000   Fax: 01793 514142   BONDLINE

ESD WORKBENCH ACCESSORIES FOR "FOUR LEG" AND "CANTILEVER" DESIGN

Accessories below are designed to fit both "Four Leg" and "Cantilever" designs.

ESD Workbench Accessories

Ref	Description
BESP760SXXXX	760mm Rear Support Posts.
BESP1180XXXX	1180mm Rear Support Posts .
BEUS1200VXXX	Upper shelf 300mm Norastat for 1200mm bench.
BEUS1200PXXX	Upper shelf 300mm Lamstat for 1200mm bench.
BEUS1500VXXX	Upper shelf 300mm Norastat for 1500mm bench.
BEUS1500PXXX	Upper shelf 300mm Lamstat for 1500mm bench.
BEUS1800VXXX	Upper shelf 300mm Norastat for 1800mm bench.
BEUS1800PXXX	Upper shelf 300mm Lamstat for 1800mm bench.
BERS1200XLXX	Light/Tool Rail Support for 1200mm bench.
BERS1500XLXX	Light/Tool Rail Support for 1500mm bench.
BERS1800XLXX	Light/Tool Rail Support for 1800mm bench.
BELF1200XLXX	Fluorescent Light.
BELO4812IXXX	Louvred back panel (zinc) for 1200mm bench.
BELO4815IXXX	Louvred back panel (zinc) for 1500mm bench.
BELO4818IXXX	Louvred back panel (zinc) for 1800mm bench.
BESDWT122XXX	Worktop service duct for 1200mm bench.
BESDWT15XXXX	Worktop service duct for 1500mm bench.
BESDWT18XXXX	Worktop service duct for 1800mm bench.
BESDSP12XXXX	Post fitted service duct for 1200mm bench.
BESDSP15XXXX	Post fitted service duct for 1500mm bench.
BESDSP18XXXX	Post fitted service duct for 1800mm bench.
BERCBCIBXXXX	RCB circuit breaker.
BESERINSXXXX	Service duct insulating strip.
BEHADJLIXXXX	Height Adjustable Leg Inserts. ("Four Leg" Design Only).

Worktop Options

Lamstat Worktop
20mm Thick Laminate
10^6-10^8 ohms.
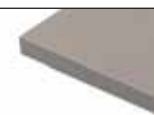
Norastat Worktop
20mm Thick Rubber
10^5-10^7 ohms.

DRAWERS / CUPBOARDS

Single Drawer (lockable)

SIZE (HxWxD)	Code
220x420x420.	BEDR04021

Triple Drawer (lockable)

SIZE (HxWxD)	Code
435x420x420 .	BEDR04043

Storage Cupboards (lockable)

SIZE (HxWxD)	Code
435x420x420.	BEDR04041
560x420x420.	BEDR04051

Cupboard Colour Options
Please add corresponding suffix to product code

Dark Blue   Green   Dark Grey   Red

SUPREME RANGE (Fully Ergonomic)

Fully ergonomic chairs with waterfall seat design with three-dimensional moulded foam for added comfort. The full synchro mechanism provides ergonomic seat and back adjustments to ensure all day support, especially for your back. All supreme range chairs have gas lift as standard and are supplied with either conductive glides or conductive castors. (All conductive castors have internal brakes for added safety).

Static Dissipative High Chair

Standard high chair is supplied with conductive stainless steel glides and foot-ring.

Seat height adjustment 430-570mm.
Seat tilt angle adjustment 85-95°
Backrest angle adjustment 75-115°
Base diameter 27" (675mm).

SUR2BLV	Black Vinyl.
SUR2BLF	Charcoal Fabric.
SUR2DBF	Blue Fabric.

Static Dissipative Low Chair

Standard low chair is supplied with conductive castors.

Seat height adjustment 500-690mm.
Seat tilt angle adjustment 85–95°
Backrest angle adjustment 75-115°
Base diameter 24" (600mm).

SUR1BLV	Black Vinyl.
SUR1BLF	Charcoal Fabric.
SUR1DBF	Blue Fabric.

REPLACEMENT CASTORS AND GLIDES

Conductive hooded castors with internal brakes.

FOOTCAS

Stainless-steel glides.

FOOTSS

Tel: 01793 511000   Fax: 01793 514142   **BONDLINE**

FIVE STAR RANGE

Static dissipative chairs which conform to BS4875 Part 1 to highest test level 5. (Strength and stability). All chairs are individually tested, are fire resistant and have fully adjustable back-rest. All standard chairs are available in vinyl, blue fabric or charcoal fabric. All have gas-lift height adjustment.

5ST1V	Vinyl.
5ST1CH	Charcoal Fabric.
5ST1BL	Blue Fabric.

Seat height adjustment 460-660mm.

5ST2V	Vinyl.
5ST2CH	Charcoal Fabric.
5ST2BL	Blue Fabric.

Seat height adjustment 480-680mm.

5ST3V	Vinyl.
5ST3CH	Charcoal Fabric.
5ST3BL	Blue Fabric.

Seat height adjustment 550-800mm.

ESD POLYURETHANE CHAIR

The seat and back are made of static-dissipative PU. These chairs are comfortable and also very easy to clean.

5STPU1	Low chair. Height adj. 430-570mm

5STPU2	High chair. Height adj. 500-690mm

Chairs

FIELD SERVICE KIT

Portable workstations to help prevent damage to static-sensitive devices in the "field".
Available in two colours.

FIELD SERVICE KIT

Each kit includes:
- 1 work surface mat 600 x 550mm.
- 1 adjustable wrist-strap.
- 1 coil cord. 3.6 metres. (12ft)
- 1 straight CPG cord with croc clip.
  (3 metres.)
- 1 packing wallet.

FSKB	Blue Field service kit.
FSKR	Red Field service kit.

ELECTRICAL PROPERTIES (All Kits)
Surface layer 10^7 - 10^9 ohms/square.
Buried layer 10^3 - 10^4 ohms/square.

PORTABLE WRIST-STRAP TESTER

WST1   Portable instrument for checking
the continuity of fitted wrist-strap
and cord. Unit has banana socket and
10mm stud.
(Requires 9 volt battery).

GROUNDING ACCESSORIES

Simple yet effective grounding accessories.

❶ **BG**   Bananagator.
Heavy duty croc clip with 10mm male/10mm
female snap and banana recepticle for grounding.

❷ **AS10**   Adaptor snap.
Insulated adaptor with banana recepticle and
10mm male/10mm female snaps.

❸ **SS10**   Stack snap.
Stacking snap with banana recepticle with
10mm male/10mm female snaps.

EARTHING PLUGS

Plugs offer an easy method of grounding field service mats.

❶ **BP**   Bonding plug. 1 x 10mm stud (no resistor).

❷ **BP3**   Plug. 3 x 10mm studs.

❸ **BP2J**   Plug with 10mm stud and 2 jack-sockets.