

All you need to protect against

ESD



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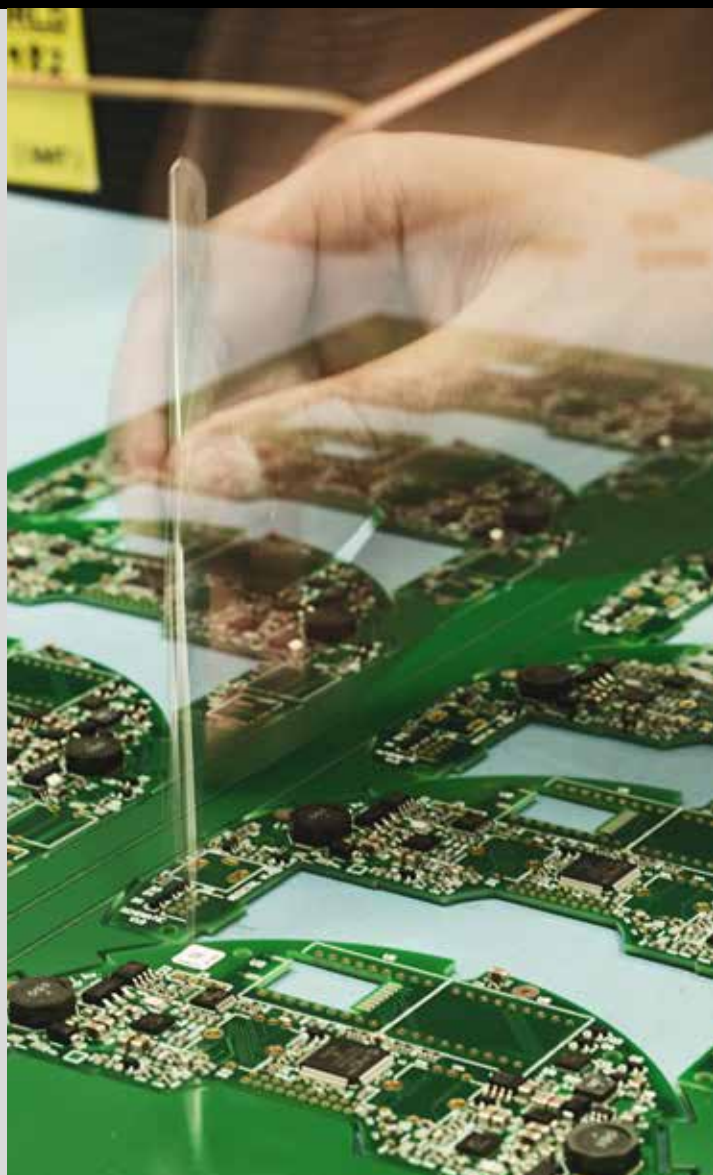
Rapid part of the **CONRAD** Group

All you need to protect against ESD

Everyone knows what static electricity feels like. We've all touched a charged piece of clothing and got a small electric shock; surprising but essentially harmless. If an electronic component or device is subjected to an electrostatic discharge (ESD) it could have a much greater impact, damaging other components, itself and the working environment.

The cost of a single ESD failure in the field or in-house can be hugely significant. Businesses aim to prevent possible damage and reliability problems by storing, assembling and handling equipment in electrostatic safe conditions.

From bags to grounding straps, storage bins to stationery, gloves and shoes to antistatic matting, Rapid offers an extensive range of ESD products from leading brands such as Antistat and Bondline.



The Ground Rules

For areas where electronics are being assembled, refurbished or repaired – as with any home or office – proper grounding is essential.

Human beings are the greatest single source of ESD. Anyone working at a bench in an ESD protected area must wear a wrist strap, even if they also wear heel straps or ESD-control shoes. This allows static potential on a person to equalize with ground. Walking across a carpet can produce anything up to 35,000 volts, and a worker at a bench between 700 to 6000 volts.

Grounding ensures that equipment and workers are protected from electrical surges and harmful voltages. But because of the increased contact with ESD-sensitive parts, special accommodation for ESD needs to be made.

It is important to ensure that personnel and equipment is at the same electrical potential. To do this all components of the work area need to be grounded to the same electrical ground point. This includes work surfaces, personnel and equipment.

ESD Gloves



Antistat Carbon PU Tip Gloves

- Natural light grey carbon liner with white coated fingertips
- Made from 80% Nylon and 20% Carbon (knitted with 13 Gauge); Polyurethane Finger tip coating
- Surface resistivity: $1 \times 10^6 - 8 \Omega / \text{cm}$
- Supplied in pairs

Size	Order code	1+
Small	87-9450	2.95
Medium	87-9452	2.95
Large	87-9454	2.95
Extra large	87-9456	2.95

530082

Antistat Dotted Palm and Fingers Gloves



- Good elasticity
- Excellent sweat absorbency
- Good ventilation
- Delicate round tip finishing
- Surface resistivity: $10^{10} \Omega^2$
- Available in a range of sizes
- Supplied in pairs

Size	Order code	1+
Small	87-9458	1.19
Medium	87-9460	1.19
Large	87-9462	1.19
Extra large	87-9464	1.19

530083



Antistat ESD Polyurethane PU Palm White Nylon Gloves

- Dissipative gloves
- Elastic, breathable and dust-free
- White liner and white palm coating
- Suitable for handling ESD sensitive products or components
- Surface resistivity: $1 \times 10^6 - 8 \Omega / \text{cm}$

Type	Order code	1+
Small	87-9886	2.29
Medium	87-9888	2.29
Large	87-9890	2.29
X Large	87-9892	2.29

547613



Integrity® Pink Anti-Static Fingercots

- ESD fingercots
- Class 100 powder-free
- Nitrile or Latex
- Mechanically cleaned
- Antistatic
- Ideal for aerospace, electronics and semi-conductor industry

Type	Qty	Order code	1+
Small	720	87-9568	21.62
Medium	720	87-9570	21.62
Large	720	87-9572	21.62
X Large	720	87-9574	21.62

547613

Wrist Straps



Bondline Stainless Steel Wristband

- Polyurethane and stainless steel construction
- Adjustable by adding or removing links
- Insulation resistance between inner and outer surfaces of strap is $300 \text{M}\Omega$ at 500V
- Straps are fitted with a 10mm press stud for connection to a suitable ground cord
- **Bondline type ERG10A**

Type	Order code	1+	10+
Stainless steel wristband	87-1230	11.00	9.95

630122



Bondline Blue Coiled Grounding Cords

A range of coiled blue grounding cords 1.8m long with a 10mm snap on one end and a 4mm banana plug on the other.

- Choice of economy or premium versions
- Supplied with crocodile clip
- Banana plug fits into socket of crocodile clip
- **Bondline CCI10 series**

Type	Order code	1+
1.8m cord - Economy	87-1266	3.82
1.8m cord - Premium	87-1267	3.99

124530



Antistat Economy Wrist Strap Sets

A range of comfortable, fully-adjustable anti static wrist band and grounding lead sets.

- Wrist straps have a conductive interior made of hypo-allergenic stainless steel and nylon filament
- Wrist straps have a surface resistivity of $10^9 \Omega$
- 1.8m (6ft.) grounding cords incorporating a $1 \text{M}\Omega$ resistor for operator safety

Type	Order code	1+
10mm stud to 4mm banana jack	87-9498	3.74
10mm stud to 10mm stud	87-9500	3.74
4mm stud to 4mm banana jack	87-9822	6.49

530056



Antistat Metal Wrist Bands 10mm

These fully expandable silver metal wristbands from Antistat are made of stainless steel and are ideal for clean room use.

- Ensures good contact at all times
- Secured by a black or light blue plastic buckle
- Width 10mm

Size	Order code	1+	10+
Small	87-9502	4.40	3.86
Medium	87-9504	4.40	3.86
Large	87-9506	4.40	3.86
Extra large	87-9508	4.40	3.86

530056

Footwear & Heel Straps



BJZ ESD Conductive Heel/Toe Straps

This Blue **ESD Conductive Heel Strap** from **BJZ** has been designed to offer static dissipation for protection, while reducing the risk of potential damage to equipment. Supplied in one size and ideal for quick fitting over footwear with Velcro at a low cost.

- Blue colour
- One size - elastic fastener
- Manufacturer's part **C-204 001H**

Strap type	Order code	1+	5+	10+
Heel	51-8534	4.56	4.35	4.13

528237



Antistat ESD Heel Strap with Clip Fastener

- Each heel strap incorporates a $1 \text{M}\Omega$ safety resistor
- For use with ESD flooring or mats
- Snap release - easy to take off
- Recommended to be worn on both feet
- Reusable and washable by hand with mild detergent
- Manufacturer's part **068-0005**

Fastener	Order code	1+	10+
Clip	87-9492	4.40	3.86

530092



Bondline Single Adjustable Rubber Heel Grounding Strap

- Conductivity: Black rubber surface: $8 \times 10^4 \Omega$
- White rubber surface: $1 \times 10^{12} \Omega$
- Metal film resistor: $1 \text{M}\Omega \pm 20\%$
- Conductive tab: $160 \Omega / \text{inch}$ (max)
- Spec ref: **WI-IQA-MRI-001**
- **Bondline Killstat type HS5**

Type	Order code	1+	5+	10+
Heel strap	87-1253	3.62	3.07	2.73

500773

Antistat Premier Coiled Earth Lead 10mm with 1 Meg Resistor, 10ft

10MM - BANANA
£4.36
ORDER CODE 87-9830

10MM - 10MM
£4.36
ORDER CODE 87-9828

It's in the Bag

Electronic components sensitive to ESD should be bagged up to reduce the threat of static discharge. There are numerous ways to do this, from anti-static to conductive and static shielding bags. But which bag do you need?



Pink

Pink bags offer the lowest level of ESD protection. They are "anti-static", protecting any ESD discharge from its contents from leaking outside, but no shielding.



Antistat Pink Antistatic Reclosable Bags

- Pink antistatic bags with antistatic additives from LDPE and LLDPE
- Ziploc seal
- Soft and flexible
- 300 gauge / 75 micron plastic
- Printed with antistatic message
- Write-on panel
- Surface resistance 108 to 1011Ω
- Static release time is less than 2 seconds
- Wide range of sizes
- Supplied in **packs of 100**

Type	Order code	1+	10+
76 x 127mm	87-9340	5.72	5.40
102 x 152mm	87-9342	6.81	6.06
127 x 203mm	87-9344	9.45	8.56
152 x 203mm	87-9346	11.35	10.81
152 x 254mm	87-9348	12.97	12.43
203 x 254mm	87-9350	19.26	18.38
203 x 305mm	87-9352	18.17	17.66
254 x 305mm	87-9354	22.06	20.87
254 x 355mm	87-9356	25.41	24.33

530074



Bondline Open Top Pink Antistatic Bags

These **pink anti-static bags** from **Bondline** are ideal for use in transporting non-static sensitive devices, (e.g. nuts, bolts etc.) into an Electro-static Protected Area. (E.P.A.).

- Size ranges available: 75 x 125mm to 450 x 600mm (W x L)
- Design: open top
- Supplied in **packs of 100**

Size (W x L)	Order code	1+	10+
75 x 125mm	87-1440	3.11	2.85
100 x 200mm	87-1441	3.36	3.16
125 x 200mm	87-1442	4.81	4.29
150 x 200mm	87-1443	5.40	5.06
150 x 250mm	87-1445	8.44	7.31
200 x 250mm	87-1444	9.14	8.32
200 x 300mm	87-1447	14.06	10.69
250 x 300mm	87-1449	14.64	11.13
250 x 350mm	87-1451	16.88	14.64
300 x 400mm	87-1446	17.01	16.10
400 x 450mm	87-1459	24.88	19.48
400 x 500mm	87-1461	28.14	22.51
450 x 600mm	87-1463	30.96	23.63

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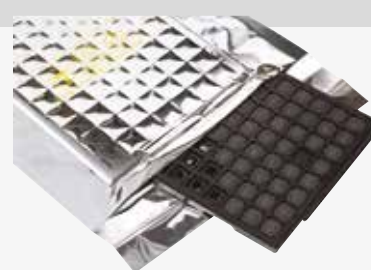
Bondline Loc-Top Pink Antistatic Bags

These **pink anti-static bags** from **Bondline** are ideal for use in transporting non-static sensitive devices, (e.g. nuts, bolts etc.) into an Electro-static Protected Area. (E.P.A.).

- Size ranges available: 75 x 125mm to 450 x 600mm (W x L)
- Design: Loc-Top resealable
- Supplied in **packs of 100**

Size (W x L)	Order code	1+	10+
75 x 125mm	87-1465	7.87	5.62
100 x 200mm	87-1467	9.34	7.31
125 x 200mm	87-1469	12.93	10.11
150 x 250mm	87-1471	16.88	13.49
200 x 250mm	87-1473	14.87	14.04
200 x 300mm	87-1475	15.75	14.70
250 x 350mm	87-1479	20.46	18.45
300 x 400mm	87-1481	36.01	33.76
450 x 500mm	87-1485	59.51	54.11

519379



Antistat ESD Moisture Barrier Bags

- Surface resistance 108 to 1011Ω
- EMI Shielding - meets requirements of **MIL-PRF-87105D** Type 1
- Can be vacuum sealed
- Puncture resistant
- Supplied in **packs of 100**

Type	Order code	1+	10+	25+
102 x 152mm	87-9416	11.03	9.93	8.42
152 x 305mm	87-9418	23.33	22.27	20.15
152 x 660.4mm	87-9420	53.05	50.92	47.74
152 x 711.2mm	87-9422	61.80	58.71	54.59
254 x 508mm	87-9424	51.50	48.41	44.29
254 x 610mm	87-9426	92.71	87.56	82.41
254 x 660.4mm	87-9428	103.01	97.86	92.71
305 x 508mm	87-9430	87.56	82.41	77.25
406 x 457mm	87-9432	77.45	76.38	74.26
457 x 457mm	87-9434	103.01	97.86	92.71
558.8 x 610mm	87-9436	216.33	206.03	195.73

530076

Bondline PCBL Conductive PCB Rack 350 x 270 x 130mm 25 Slots

- Moulded in conductive polypropylene.
- For storage of work in assembly

130MM
£11.89
ORDER CODE
87-1672



Bondline PCBS Conductive PCB Rack 210 x 275 x 95mm 25 Slots

- Moulded in conductive polypropylene.
- For storage of work in assembly

95MM
£8.89
ORDER CODE
87-1670



Cliff CU8875 PCOI/C Antistatic PCB Storage Rack

- For safe handling and storage of printed circuit board assemblies during assembly, cleaning and testing stages in production environments
- Can accommodate up to 36 unpopulated (18 populated) printed circuit boards of between 15mm and 290mm width
- Can be adjusted by moving the two extruded rails which support the panels
- Supplied complete with wall mounting brackets and two rear strips which prevents PCBs from sliding out
- Front mounted handles ensure easy transport of the frame
- Overall dimensions when assembled 315mm(h) x 320mm (w) x 200mm(d)

Bags and Packing

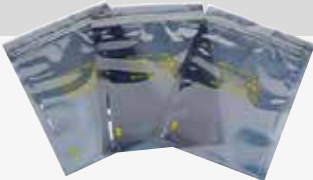
Black

Black polyethylene bags prevent 30% of charge, but there is no dielectric layer to isolate the components or device inside the bag. The material is itself highly conductive, dissipating charges quickly.



Silver

Silver shielding bags are the 'gold standard' of ESD protection. An outer and inner surface dissipative layer works like a Faraday Cage, preventing 97% of a 1000V pulse from reaching inside the bag.



Antistat Metal Shielding Ziplock Bags

- Metal 'Faraday cage' layer shields products from electrical energy and prevents static build-up
- Four-layer protection guards against electrical charges inside and out
- Semi transparent for easy identification of contents
- Surface resistance 108 to 1011Ω
- Conforms to **MIL-PRF-81705D Type III, EIA 625, EIA 541, ANSI/ESD S-20.20**
- Supplied in **packs of 100**

All sizes are approximate.

Type	Order code	1+	10+
76 x 127mm	87-9720	6.16	5.83
102 x 152mm	87-9722	7.20	6.87
127 x 203mm	87-9724	10.81	10.27
152 x 203mm	87-9726	12.43	11.35
152 x 254mm	87-9728	14.38	13.41
203 x 254mm	87-9730	18.38	17.20
203 x 305mm	87-9732	20.23	18.92
254 x 305mm	87-9734	23.80	21.64
254 x 355mm	87-9736	23.92	22.35
305 x 406mm	87-9738	31.33	27.58

552638



Bondline Open Top Metallised Shielding Bags

- Size ranges available: 75 x 125mm to 350 x 450mm
- Conform to **EN-61340-5-1**
- Supplied in **packs of 100 bags**

Size (W x L)	Order code	1+	10+	25+
75 x 125mm	87-1410	5.92	5.38	4.72
100 x 150mm	87-1412	5.92	5.38	4.72
125 x 200mm	87-1414	7.87	7.12	5.92
150 x 200mm	87-1415	7.69	6.93	5.76
150 x 250mm	87-1416	10.13	9.05	8.11
200 x 250mm	87-1418	12.89	11.89	11.34
250 x 300mm	87-1420	17.90	17.30	16.12
300 x 400mm	87-1422	28.60	25.69	23.83
350 x 450mm	87-1424	40.56	38.17	35.25

030884

Tekstat Electrostatic Conductive Transit Packs

A range of Electrostatic Conductive Transit Packs from Teknis that offer both 'Faraday cage' and mechanical protection for your ESD sensitive devices and assemblies. The boxes are manufactured from corrugated conductive cardboard coated on both sides and come complete with pink dissipative foam to ensure both physical and electrical protection.

- Electrostatic Conductive Transit Packs
- Offers both 'Faraday cage' and mechanical protection
- Physical and electrical protection
- Rs <105Ω
- Printed with ESD warning logo



Size	Order code	1+
178 x 127 x 38mm	87-1700	3.45
229 x 191 x 64mm	87-1702	4.91
267 x 217 x 64mm	87-1704	4.42
394 x 318 x 64mm	87-1706	8.50
521 x 394 x 64mm	87-1708	10.69

518330

ESD Hand Tools www.rapidonline.com



Type	Order code	1+	5+	10+
PCB Rack	87-1695	29.55	26.87	25.68

Teknis Electrostatic Shelf Bins Cardboard Dip Tube Box

A range of Electrostatic Cardboard Shelf Bins ideal for storing IC or other ESD component tubes. The boxes are made from conductive cardboard that is coated on both sides. The partially open front allows easy access when the boxes are stored in shelving, making them ideal for use in warehouses and other storage areas.

- Electrostatic Cardboard Shelf Bins
- Ideal for storing IC and other ESD component tubes
- Ideal for use in warehouses and other storage areas
- Rs <105Ω



400 X 150 X 150MM

£2.79

ORDER CODE 87-1714

600 X 205 X 100MM

£4.00

ORDER CODE 87-1716

630 X 110 X 110MM

£3.77

ORDER CODE 87-1718

ESD Matting

Antistatic mats and ESD flooring are effective methods of controlling electrostatic discharge within ESD Protected Areas (EPA). Antistatic matting must be either conductive or dissipative and be connected to a suitable grounding point. It slows down and controls this discharge allowing static electricity to transfer safely to ground. It also protects the surface of the sensitive devices from wear and tear during processing.

These mats are designed to be laid out in workshops, laboratories or other areas used for ESD components, communication equipment and ICs.



Bondline Killstat Anti-Static ESD Bench Mats

Anti-static bench matting in a variety of colours and sizes.

- Durable two-layer synthetic rubber material
- Top layer is static dissipative
- Bottom layer is conductive
- Resistance to ground typically 106 to 108Ω
- 10mm stud in each corner
- Resistant to solder splash and abrasion
- Smooth surface for easy cleaning
- Thickness 2mm
- **Bondline types KSM32** (900 x 610mm) and **KSM42** (1,200 x 610mm)

Please note: Grounding Cables and Wrist Straps are available separately and are not included with these mats.

Size (mm)	Colour	Order code	1+
900 x 610	Blue	87-1534	22.95
900 x 610	Grey	87-1536	22.95
900 x 610	Beige	87-1538	22.95
1200 x 610	Blue	87-1540	29.75
1200 x 610	Grey	87-1542	29.75
1200 x 610	Beige	87-1544	29.75

017353



Antistat Workstation Kit Blue Mat

This ESD workstation kit from Antistat includes blue matting, signage, bonding plugs, wrist strap and leads.

Kit includes:

- 1 ESD mat (600 x 1200 x 2mm) with 10mm stud in each corner
- 1 ESD Protected Area vinyl sign
- 1 Earth bonding plug 3x10mm stud
- 1 x 10mm fabric adjustable wrist strap hypo allergenic
- 1 x 10mm coiled earth lead
- 1 x 10mm straight lead
- Instruction leaflet

Other mat colours available on request.

Colour	Order code	1+
Blue	87-9528	38.99

530106

Conformal Coating

Browse our range of suitable solvents for the specialised protection of electronic circuit boards from moisture, dust, chemicals and extreme temperatures. Conformal coatings in acrylic, silicone and polyurethane can be applied by spray, helping to keep surfaces free of corrosion, contamination and increase voltage ratings. We stock high performance products from Ambersil and Electrolube.

Ambersil 30235-AA Acrylic Conformal Coating 400ml



A low viscosity, solvent drying acrylic based conformal coating with excellent insulating properties.

Type	Order code	1+	12+
Conf. coating 400ml	87-7354	7.56	6.86

123034

Electrolube DCA/DCR Conformal Coating SCC3



A flexible, modified silicone resin conformal coating especially formulated for the protection and camouflage (red formula) of defence and aerospace electronic assemblies.

- Provides protection from the environment
- Increases the lifetime of vital equipment in harsh conditions
- Red formula also disguises design if required
- Exhibits excellent adhesion and resistance to salt spray and moisture
- Wide temperature range and good dielectric properties at all frequencies
- When fully cured, the coating is resistant to most solvents but may be soldered through for repair activities
- **Electrolube types DCA200H, DCA01L** (clear) and **DCR200H** (red)

Type	Order code	1+	12+
Clear (DCA) 200ml	87-1206	11.03	10.27
Red (DCR) 200ml	87-1208	11.11	10.70
Clear (DCA) 1 litre	87-1209	92.93	

034045

Electrolube HPA Acrylic Conformal Coating



A flexible, transparent acrylic coating for the protection of electronic circuitry, formulated to meet the highest defence and aerospace requirements.

Type	Order code	1+	12+
Acrylic conformal coating	87-1210	9.49	8.71

034046

Antistat ESD Field Service Kit



Kit includes: 1x red pouch, 1 mat (590 x 590mm), 1x 10mm wrist band, 1x coiled earth lead (10mm to banana), 1x straight earth lead (banana to banana with crocodile clip).

Colour	Order code	1+	10+
Red	87-9526	40.35	35.30

Antistat Straight Ground Cord Mat/Floor Cord



£3.96
ORDER CODE
87-9834

Antistat Caution Sign - ESD Protected 300 x 150mm Rigid



£15.14
ORDER CODE
87-9446

Antistat Yellow ESD Printed Floor Tape 75mm x 33m



£17.64
ORDER CODE
87-9438

ESD Tapes

Like normal adhesive tape, but for use in ESD environments. Antistatic tape replaces regular tape in most ESD applications, providing protection against chemicals, moisture, gases and static build-up. It is ideal for use in applications such as wave solder masking and electrical insulation, and for packaging that demands the tightest of seals.

Rapid's range of ESD tapes include the legendary Kapton tape (used to seal a leak on the International Space Station in 2018) and gridded tape with an ESD pattern for identification.



Antistat Kapton Tape

Although thin and lightweight, Kapton® tape offers high levels of protection from chemicals, moisture, gases and foreign materials, so that highly sensitive parts can operate reliably in demanding environments.

Applications include wave solder masking tape for PCB assembly and other applications where a thin, tough insulating material is required, e.g. for wrapping capacitors, coils, transformers, etc.

- High temperature resistance
- Low residue
- Silicone adhesive
- Thickness 0.065mm
- Supplied on **33m reels**

Type	Order code	1+	10+
6mm	87-9318	7.67	7.17
10mm	87-9320	9.38	8.71
12mm	87-9322	8.82	8.61
19mm	87-9324	14.13	13.45
25mm	87-9326	15.78	15.33



Bondline Antistatic Adhesive Tape

Adhesive tape suitable for sealing boxes and bags in Electrostatic protected areas.

- Very low electrostatic charge generation
- Core diameter 75mm
- Available in **18 and 25mm** widths
- Supplied on **66m reels**
- **Bondline types AS18 & AS25**

Type	Order code	1+	6+	12+
18mm x 66m	87-2960	4.27	4.02	3.64
25mm x 66m	87-2958	5.19	4.93	4.67



Antistat Antistatic / ESD Grid Tape

Polypropylene self-adhesive tape with a gridded static-dissipative surface. The tape replaces regular tapes in most applications, providing protection against static build-up during storage or application of the tape.

- Grid pattern includes the ESD logo to **EN 61340-5**
- Silicone-free with low residues
- Typically used for sealing primary or intimate packaging
- Thickness 49µm
- Core diameter 75mm (3in.)
- Available on **12 and 24mm widths**
- Supplied on **40m reels**

Width	Order code	1+	10+	25+
12mm	87-9300	4.36	4.20	3.63
24mm	87-9302	4.74	4.30	



Antistat High Temperature Marking Dots

Use these high temperature **masking dots** from **Antistat** to protect gold fingers on printed circuit boards during wave solder or solder dip processes or for electrical insulation. Supplied on a **roll of 1000** in a range of sizes, these dots are made from polyimide film with silicone adhesive on a clear, easy-release liner.

- Excellent electrical and physical properties over a wide range of temperatures
- Low residue
- Neither corrosive nor ozone depleting
- Flame and chemical resistant

Diameter	Order code	1+
6mm	87-9530	26.00
8mm	87-9532	33.79
10mm	87-9534	41.60
12mm	87-9536	46.80

ESD Tools

A range of tools are available from Rapid for the thorough cleaning of PCBs, motherboards, integrated circuits and other delicate components – including specially developed brushes designed to dissipate the build-up of static charges.

Other tools and equipment useful in ESD areas include earthing plugs to provide grounding via mains connections, as well as pumps, dispensers and bottles made from static dissipative polyethylene, in order to dispense alcohol, isopropanol, ethanol, methanol and other liquids.



BJJ ESD Cleaning Brushes

These ESD Cleaning Brushes from BJJ have been designed to perform the safe cleaning of ESD equipment and components such as PCBs and motherboards, discharging any static electricity to the floor.

Excellent for removing dirt and dust, and therefore ideal for getting into difficult to reach areas without generating any dangerous static charges, these brushes have a comfortable grip and are easy to use. Manufactured to a high standard using bristles made from conductive modified nylon that remain much more versatile than carbon fiber bristles.

- Black colour
- Available in different styles and sizes

Size (L x W)	Bristle	Order code	1+	5+
150 x 40mm	14mm	51-8124	15.99	14.99
25 x 3mm	15mm	51-8133	8.79	8.29
35 x 10mm	15mm	51-8123	5.69	5.39
110 x 20mm	20mm	51-8130	5.39	4.99
70 x 15mm	20mm	51-8131	3.99	3.79
25 x 3mm	25mm	51-8132	8.79	8.29



Bondline Nail Brush

Brush with conductive polypropylene handle and 25 x 70mm conductive fibres consisting of 40% polypropylene, 45% Polyamide and 15% carbon fibre.

- Allows thorough cleaning of ESD sensitive assemblies, avoiding any static build up
- Existing charges are reduced more effectively if operators are grounded
- Approved to **EN100015-1**

Bristle width x length	Order code	1+	5+	10+
25 x 70mm	87-1916	8.47	7.78	7.06



Bondline Earth Point Bonding Plugs

Earth point bonding plugs providing a safe and effective method of utilising the mains earth as ground.

- Plug is connected to earth and is terminated in a range of connectors on the back of the plug
- Live and neutral pins are insulated and used as locating pins only
- Available in **single** and **3-way** versions
- 3-way version is available with either 3x 10mm studs or 1x 10mm stud plus 2x 4mm sockets
- 3-way versions are connected to earth via a 1MΩ resistor in accordance with **CECC 00-015**
- **Bondline types BP** (single), **BP3** (3-way) & **BP2J** (3-way with 2x 4mm)

Type	Order code	1+
Single - no resistor	87-1275	3.49
3-way with 1M res.	87-1277	5.19
Stud + 2x 4mm with 1M res.	87-1279	5.48



Bondline Earth Bonding Points

'L' shaped Earth bonding brackets, ideal for under-worktop or under-shelf mounting.

- Choice of 4mm banana plugs or 10mm studs
- Three bonding points with individual 1MΩ resistors
- 2m bonding cable terminated with 5mm ring tag
- Dimensions 70 x 37 x 22mm
- Supplied complete with mounting screws and washers
- **Bondline types LSBJ** (bananas) and **LSBS** (studs)

Type	Order code	1+
4mm banana sockets	87-1530	5.59
10mm studs	87-1532	5.59



Antistat ESD Flux Bottle 2oz 26 Gauge Needle

This Antistat ESD Flux Bottle will dissipate a static charge of $\pm 5000V$ in less than two seconds at 40% relative humidity - without demonstrating the less desirable features associated with Enthoxylated Tertiary Amine which is present in most similar antistatic agents.

- Static free
- Non-greasy
- Free of tertiary amines
- Humidity independent
- 2oz bottle with 26 gauge needle
- Manufacturer's part **146-0001**

Bottle size	Order code	1+	10+
2oz	87-9470	8.00	7.72

530086



Antistat ESD Solvent Dispenser

This 4oz ESD solvent dispenser from Antistat is ideal for use in cleanroom environments.

- Bottle size 4oz
- Manufacturer's part **146-0041**

Size	Order code	1+	10+
4oz	87-9480	14.90	13.58

530089

Integrity® Pre-Saturated Tub Wipes 70% IPA 30% DI Water 200 Wipes

£3.99
ORDER CODE 87-9540



Knipex Electronic Super-Knips® ESD

Knipex Electronic Super-Knips® ESD are precision pliers with electrically discharging handles designed for ultra fine cutting work, particularly in computer systems. Available in surgical stainless steel or high-grade special tool steel versions, with or without lead catchers.

- Ground, very sharp cutting edges without bevel for flush cutting
- Precision shaped tips cut wires resting on a board from 0.2mm diameter
- Joint with stainless steel rivet
- Extremely smooth movement
- Opening spring and opening limiter

Pliers	Lead catcher	Order code	1+
Stainless steel	No	50-9280	17.98
High-grade steel	No	50-9279	18.66
High-grade steel	Yes	50-9278	21.15

527216



Bernstein ESD Tweezers

Precision tweezers with ESD coating, specially designed for use with static-sensitive surface-mounting components.

- Stainless steel
- Rustless
- Antimagnetic
- Acid resistant

Type	Order code	1+
Straight Pointed	86-1534	14.12
Bent Sharp	86-1536	15.44
Curved Sharp	86-1538	10.87
Bent	86-1539	15.83

078034



Wera 6-Piece ESD Kraftform Micro Screw-driver Set

Micro ESD screwdrivers with slotted and Phillips blades suitable for use in a variety of electronic applications.

- Weight 222g

Type	Order code	1+
6-Piece Set	54-7139	21.45

538413



C.K. SensoPlus ESD 14-Piece Tool Kit

Set of Sensoplus ESD pliers, Tweezers and Xonic ESD screwdrivers in a tough plastic storage case. Contains: T3772D 120mm Snipnose pliers, T3773D 115mm Sidecutters, T2334 Positioning tweezer, T2343 Precision tweezer, T4880XESD Slotted screwdriver 1.5x60, 1.8x60, 2.5x60, 2.5x75, 3.0x100, 4.0x100. T4882XESD Phillips screwdrivers PH00x60, PH00x60, PH0x60 & PH1x80

Type	Order code	1+
ESD Tool Kit 14 piece	93-1160	151.00

501333



Wera ESD II-Piece Kraftform Kompakt Micro Screwdriver Set

This set from Wera includes 1 Kraftform Micro ESD bit-holding screwdriver, plus a selection of 10 blades, suitable for slotted, Phillips, Hex-Plus and Torx screws, nuts and bolts.

- Blade length: 44mm

Type	Order code	1+
11-Piece Set	54-6471	42.00

537745



Weller ESD Safe Soldering Station

£369.03
ORDER CODE 85-4914

Wrist Band tester:

This Antistat wristband tester has been designed to measure both high and low fail and pass function. Testing is achieved by placing the jack plug into the socket and wearing the wristband - touch the touchplate and the status of the wristband will be revealed.

Antistat Wristband Tester - Complete With Wallmount & Foot Plate 9V



£220.70
ORDER CODE 87-9468



Raaco 900 Series ESD Cabinets 417 x 306 x 150mm - 18/36/45 Drawers

Type	Order code	1+
45 drawers	14-2608	67.69
36 drawers	14-2610	67.69
18 drawers	14-2612	67.69
Cabinet turntable	14-2614	239.99

554088