

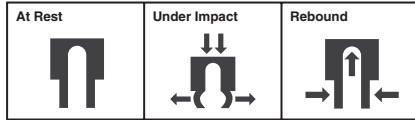


ESD Mats and Hardware

Static Control Anti-Fatigue Mats

3M Anti-Fatigue Mats consist of a matrix of hollow cylinders that function like a spring when compressed. These mats provide a durable cushion that offers secure, stable footing and a unique energized responsiveness. Their structure provides a stable surface supported by rubber cells that soften in response to surface activity. These cells provide the most effective cushioning solution because the 3M Static Control Anti-Fatigue Mats get softer as compressed, not harder like products made of foam. **Features:** • Color: Black • Resistance: Surface to Ground Snap: $<1 \times 10^{10}\Omega$, Surface to Ground: $<2 \times 10^{10}\Omega$ (when connected through 3M Ground Cord 3040) • Temperature Use Range: $-40^\circ\text{C} - 82^\circ\text{C}$

See www.digikey.com for detailed specifications and photos



Description	Digi-Key Part No.	Price Each	3M Part No.
3 feet x 5 feet (0.9m x 1.5m)	SCP247-ND	339.90	9900
22 Inch, Octagonal Shape	SCP248-ND	112.79	9920

1864 Series Conductive Mat / Runner

1864 Floor Mat is a semi-flexible conductive floor mat that contains a rubber filler for resilience. It also has a textured surface for better traction. It includes two 3034 Snap Fasteners (installed) and one 15 ft. (3.0m) Ground cord with a 1M Ω resistor.

1864R Floor Runner is a 50 foot (15.24m) long runner of the 1864 mat material. It includes two 15 foot (3.0m) 3040 Ground Cords with 1M Ω resistor, five 3034 Snap Fasteners and one Snap Fastener Installation Tool.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mat, Black, 0.125 in. (3mm) 4 x 6 ft. (1.2 x 1.8m)	SCP209-ND	270.55	1864 (1/8x4x6)
Floor Runner, Black, 0.125 in. (3mm) 2 x 50 ft. (0.6 x 15m)	SCP210-ND	1015.16	1864R

Dissipative Mats

8200 Series:

Vinyl mats are soft table and floor mats with a unique three-layer construction. The top layer is durable static dissipative vinyl, which has sufficiently low resistance to discharge static-laden conductors, yet will prevent the shorting of pins on the backs of printed circuit boards laid on the mat.

8200 Series Floor Mats: Includes one 15 foot (4.6m) 3040 Ground Cord and two 3050 Snap Fasteners (installed).

8210 Series Table Mats: Includes two 3M 3050 Snap Fasteners (installed) and one 3M 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

8800 Series:

Rubber mats consist of a top layer of static dissipative rubber laminated to a bottom layer of conductive rubber. Both layers are made from vulcanized synthetic rubber, which offers excellent resistance to oil, grease and most common solvents. They offer superior resistance to heat and hot solder as compared to vinyl or olefinic materials.

8810 Series Table Mats: Includes two 3034 Snap Fasteners (installed) and one 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mats			
Vinyl, Brown, 4 x 6 ft.	SCP214-ND	147.06	8201
Vinyl, Gray, 4 x 6 ft.	SCP215-ND	147.06	8203 FLOOR MAT
Vinyl, Blue, 4 x 6 ft.	SCP216-ND	147.06	8204 FLOOR MAT
Table Mats			
Vinyl, Brown, 2 x 4 ft.	SCP219-ND	58.54	8211 TABLE MAT
Vinyl, Gray, 2 x 4 ft.	SCP221-ND	58.54	8213
Vinyl, Blue, 2 x 4 ft.	SCP222-ND	58.54	8214
Rubber, Gray, 2 x 4 ft.	SCP224-ND	65.29	8810
Rubber, Blue, 2 x 4 ft.	SCP225-ND	65.29	8811

Field Service Kit

Static-Dissipative Portable Field Service Kit:

- Static-dissipative work mat with two pockets, .024 inches x 2 feet x 2 feet (0.6mm x 61cm x 61cm)
- Grounding cord assembly with alligator clip
- Charge-Guard™ Series adjustable wrist strap

Description	Digi-Key Part No.	Price Each	3M Part No.
Field Service Kit	SCP124-ND	65.45	8501

Lightweight Field Service Kit

The small lightweight kit offers the same level of static control as the full-sized 3M 8501 Field Service Kit, yet is small enough to fit in a shirt pocket.

Kit Includes:

- Static-dissipative work surface with pocket .015 inch x 15 inches x 20 inches (.38mm x 38.10cm x 50.80cm)
- 2204 Adjustable Wrist Band
- Lightweight Heavy-Duty Coiled Ground Cords: 2240 Wrist strap ground cord, 5 feet (1.52m); 2243 Extension ground cord, 5 feet (1.52m); 3063 Work surface ground cord 5 feet (1.52m)
- 3038 Alligator Clip

Description	Digi-Key Part No.	Price Each	3M Part No.
Lightweight Field Service Kit	SCP182-ND	99.02	8505

Grounding System for Wrist Strap/Table Mat

Easily snaps onto mats and runners; grounds two single conductor wrist straps.

Comes complete with ring connector and a 15 foot (4.6m) ground cord. Ground cord has 1M Ω resistor for mat connection only.

SCP206-ND..... \$17.62

Grounding Cord

15 foot (4.6 meter) Pre-installed male snap fastener with integral one megohm resistor on one end, solderless terminal on other end.

Description	Digi-Key Part No.	Price Each	3M Part No.
Grounding Cord	SCP114-ND	12.42	3040

Workstation Grounding Kits

Grounding Kits provide the basic items needed to create a static-safe work environment. They include a floor mat, table mat, adjustable wrist strap with grounding cord and accessories to properly connect all of the kit components.

Kit Includes: • Table Mat, 2 feet x 4 feet (.6m x 1.2m) • Floor Mat, 4 feet x 6 feet (1.2m x 1.8m) • 3M 3040 Ground Cord, 15 feet (4.6m) • 3M 3048 Grounding System for Wrist Strap/Table Mat • 3M 2214 Adjustable Wrist Strap

8020 Series Workstation Grounding Kit: The 3M 8020 Workstation Grounding Kits provide the complete static protection offered by all the 3M kits. Both the floor and table (8200) mats are made from soft three layer static dissipative material.

8030 Series Workstation Grounding Kit: These kits contain two different types of static control mats. The table mat is made of the soft three-layered, static dissipative 8200 material, while the floor (1864) mat is of the more rigid, conductive Velostat material.

Description	Digi-Key Part No.	Price Each	3M Part No.
Matching Table and Floor Mats			
Brown, 3 Layer Construction	SCP121-ND	415.88	8021
Gray, 3 Layer Construction	SCP123-ND	415.88	8023
Blue, 3 Layer Construction	SCP211-ND	415.88	8024
Colored Table Mat with Black Velostat Floor Mat			
Brown, 3 Layer Table Mat	SCP179-ND	391.72	8031
Gray, 3 Layer Table Mat	SCP180-ND	391.72	8033
Blue, 3 Layer Table Mat	SCP213-ND	391.72	8034

ACL Staticide®

ESD Mats

Dualmat™ Static Dissipative Work Surface Material

The Dualmat is a static dissipative industrial grade elastomer designed for use on table and other grounded work bench surfaces. The material meets both the ANSI/ESD S20.20 and European IEC 61340-5-1 specifications.

Features: • Embossed finish • Reversible • .080 inch (2mm) thickness • .05 sec. decay time • Low out gassing and VOC • Low abrasion • No vinyl monomers, or DOP • UV additives
Benefits: • One side colored other side black, ideal for fiber optics • Will withstand high temperature, solder, flux and harsh chemicals • Ideal for clean rooms and other controlled areas

Dimensions (Inches)	Color	Digi-Key Part No.	Price Each	ACL Staticide Part No.
24 x 36	Green†	ST1051-ND	63.25	8185GM2436
24 x 48		ST1052-ND	84.13	8185GM2448
24 x 60		ST1053-ND	105.13	8185GM2460
24 x 72		ST1054-ND	126.13	8185GM2472
30 x 60		ST1055-ND	131.38	8185GM3060
30 x 72		ST1056-ND	157.63	8185GM3072
24 x 36	Light	ST1033-ND	63.25	8085BM2436
24 x 48	Blue	ST1034-ND	84.13	8085BM2448

Dimensions (Inches)	Color	Digi-Key Part No.	Price Each	ACL Staticide Part No.
24 x 60	Light Blue	ST1035-ND	105.13	8085BM2460
24 x 72		ST1036-ND	126.13	8085BM2472
30 x 60		ST1037-ND	131.38	8085BM3060
30 x 72		ST1038-ND	157.63	8085BM3072
24 x 36	Royal Blue	ST1039-ND	63.25	8285RBM2436
24 x 48		ST1040-ND	84.13	8285RBM2448
24 x 60		ST1041-ND	105.13	8285RBM2460
24 x 72		ST1042-ND	126.13	8285RBM2472
30 x 60		ST1043-ND	131.38	8285RBM3060
30 x 72		ST1044-ND	157.63	8285RBM3072
24 x 36	Dark Gray	ST1045-ND	63.25	8385DGYM2436
24 x 48		ST1046-ND	84.13	8385DGYM2448
24 x 60		ST1047-ND	105.13	8385DGYM2460
24 x 72		ST1048-ND	126.13	8385DGYM2472
30 x 60		ST1049-ND	131.38	8385DGYM3060
30 x 72		ST1050-ND	157.63	8385DGYM3072

† Green Mats can be used to designate lead free work areas

DESCO

ESD Mats and Hardware

Statfree® T2 Rubber Table Mats

These table top kits are perfect for individual workstation control. The mat rolls are used for cut-to-fit workstation control. Durable rubber material, dissipative on one side and conductive on the other — .060" (1.5mm) thick. Workstation kits include mat, common point ground cord and universal snap kit. **Note:** Hardware not included with rolls.

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
T2 Workstation Kits				
2 x 3 (0.6 x 0.91)	Blue	16-1097-ND	80.11	66040
	Blue	16-1074-ND	99.46	66045
2 x 4 (0.6 x 1.2)	Dark Grey	16-1075-ND	99.46	66055

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
T2 Workstation Mat Rolls				
2 x 40 (0.6 x 12.2)	Blue	16-1072-ND	643.93	66070
	Dark Grey	16-1073-ND	643.93	66080

Statfree® Type B Vinyl Table Mats

These tabletop kits are perfect for individual workstation ESD control. Smooth finish on one side and a non-glare finish on the other — .100" (2.54mm) thick. Complete common point ground kit is included with table mat kits.

Note: Hardware not included with rolls.

Dimensions Ft. (Meters)	Color	Kit Includes	Digi-Key Part No.	Price Each	Desco Part No.
Type B Mat Top Kits					
2 x 3 (.61 x .91)	Beige	Bench	16-1042-ND	70.03	16201
	Blue	Ground Kit	16-1044-ND	70.03	16213
2 x 4 (.61 x 1.22)	Beige	Bench	16-1043-ND	84.57	16202
	Blue	Ground Kit	16-1045-ND	84.57	16214

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
Type B Rolls				
2 x 40 (0.6 x 12.2)	Beige	16-1076-ND	492.84	16250
	Blue	16-1077-ND	492.84	16260
	Brown	16-1078-ND	410.00	16270
2.5 x 40 (0.76 x 12.2)	Beige	16-1079-ND	615.44	16255
	Blue	16-1080-ND	615.44	16265
	Brown	16-1081-ND	512.00	16275

Statfree® EB Rubber Floor Mat

Excellent floor mat for worker comfort and productivity. Durable homogeneous rubber — .50" (12.7mm) thick.

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
3 x 5 (0.9 x 1.5)	16-1067-ND	311.14	40935

Statfree® CV Conductive Vinyl Floor Mat Kit

Excellent floor mat for hard surface and carpeted area using rolling chairs and carts. Durable and long lasting vinyl material; reversible — .125" (3.2mm) thick.

Ground kit is included with floor mat kits. **Color:** Black

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
CV Floor Mat Kit			
4 x 6 (1.2 x 1.8)	16-1071-ND	226.37	15006

(Continued)

More Product Available Online: www.digikey.com

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DESCO

ESD Mats and Hardware (Cont.)

Staffree Z2™ Dissipative 3 Layer Vinyl Mat Top Kits

Staffree Z2 Material is a highly effective three-layer material. Its durable vinyl top layer makes it ideally suited for use as an ESD protective bench mat. Its highly conductive middle layer provides a faster discharge path to ground.

The cushioned dissipative bottom layer provides excellent protection against physical damage, and makes it easier to pick up small parts.

Note: Kits include common point ground kit.

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	Blue	16-1092-ND	75.43	42460
2 x 4 (0.6 x 1.2)		16-1093-ND	90.15	42465
2 x 3 (0.6 x 0.91)	Grey	16-1094-ND	75.43	42470
2 x 4 (0.6 x 1.2)		16-1095-ND	90.15	42475

Universal Snap Kit for Mats

Universal Snap Kit for Mats, 6 pieces. (connects wrist strap to mat)	16-1012-ND	5.05	09864
Push and Cinch Snaps			
Pronged 10mm Stud Snap	16-1052-ND	4.08	09861
Pronged 10mm Socket Snap	16-1053-ND	4.08	09863

Staffree i™ Conductive Ergonomic Rubber Interlocking Room System

This material is designed primarily to be used as a floor runner or to protect an entire room. The unique anti-fatigue dome/support cells provide extra comfort and prevent the mat from shifting on the floor. Its interlocking strip can be easily trimmed to give clean beveled edges.

Color: Black.

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	16-1090-ND	130.15	40930
3 x 4 (0.91 x 1.2)	16-1091-ND	240.41	40931

Ground Point for Bench Mat and Two Wrist Straps without Resistor



Description	Digi-Key Part No.	Price Each	Desco Part No.
10mm Socket, 10' (3.05m) Cord	16-1050-ND	22.18	09820
10mm Stud, 15' (4.57m) Cord	16-1051-ND	22.60	09825

Floor and Work Surface Ground Cord

Screw allows ground cord to be bolted to mat to keep cord from disconnecting.

Description	Digi-Key Part No.	Price Each	Desco Part No.
Without Resistor, 10mm Snap Stud, 15' Cord	16-1063-ND	22.18	09814

3M

Static Control Wrist Straps, Heel Straps and Testers

Charge-Guard™ Adjustable Wrist Strap



Flex life 1,000,000.

Wrist straps are the front line of defense in all static control processes. Ensure a comfortable fit with the Charge-Guard Series Adjustable Wrist Strap. One size adjusts to any size wrist to provide reliable, 360° protection.

Charge-Guard™ Disposable Wrist Strap

The Charge-Guard Disposable Wrist Strap provides cost-effective and reliable static protection.

The wrist strap is suited for shipping valuable products to ensure protection at the receiving end.

Highland Model™ 2272 Adjustable Static Control Wrist Strap

Conductive comfort band: Silver-plated, continuous monofilament threads establish a 360° contact zone and a reliable path to ground. The banding gently contacts the skin and allows it to breathe for extreme comfort. The stainless steel backplate secures the end of the band in the clasp and ensures reliable electrical bond.

Flex life: 350,000.



Description	Digi-Key Part No.	Price Each	3M Part No.
Wrist Strap with Coiled Cord, 5 ft.	SCP141-ND	17.72	2214
Wrist Strap with Coiled Cord, 10 ft.	SCP142-ND	24.61	2224
Replacement Wrist Bands	SCP144-ND	7.07	2204
Disposable Wrist Strap	SCP145-ND	1.20	2209
Adjustable Wrist Strap, with 5 ft. Coiled Grounding Cord and Alligator Clip	SCP172-ND	7.69	2272
Adjustable Wrist Strap	SCP173-ND	3.34	2271

Wrist Strap Grounding System



Wrist Strap Grounding System with two banana jacks and one 10 foot (3.0m) grounding cord.

SCP115-ND \$21.85

Static Control Shoe Grounding Assemblies (Heel Straps)

Long lasting Static Control heel straps provide static protection while retaining worker mobility.

Features: • Increase personnel mobility • One size fits most shoes • Extra long contact ribbon accommodates most boots

Note: The Grounding Assemblies are not to be used in areas where the individual may come in contact with electrical circuitry exceeding 250 volts.



Description	Digi-Key Part No.	Price Each	3M Part No.
With 1meg Ohm Resistor	SCP163-ND	8.34	2051

Charge-Guard™ 746 Wrist Strap Tester

The 746 wrist strap tester is a compact unit much like the 745 but it operates on either battery or AC power.

Can be used in production facilities to field service locations.

Unit comes complete with an AC adapter, lithium battery and wall mounting kit.

SCP235-ND \$201.07



Wall Mount Wrist Strap Tester

The 3M 740 Wrist Strap Tester is an AC-powered unit designed to be wall-mounted in a production facility for daily testing of employees' static control wrist straps. Simple to operate, with red and green LEDs giving a clear "go" or "no go" indication. Comes with the base unit, output connector, wall-mounting system and template, cover for the wrist strap plug-in jack and the AC/DC transformer.

Dimensions: 5.43 x 7.48 x 2.09 inches (13.8 x 19.0 x 5.3 cm)

SCP204-ND \$426.54

Wrist Strap Workstation Monitor

The 3M 724 Wrist Strap Workstation Monitor continuously verifies the resistance of the operator and work surface ground connections. The monitor uses a reliable resistance method that actually includes the operator's skin resistance to determine if the system is operating properly. If the operator's resistance exceeds 10 megohms or 35 megohms, or the wiring connections exceed 3.7 megohms, audible and visible alarms are triggered. The unit will also warn of potentially dangerous low-resistance situations. The monitor uses the light and compact dual conductor wrist strap. Dual conductors provide the resistance circuit that is monitored as well as provide grounding redundancy. If one conductor fails, the other will still function to prevent sensitive components from being exposed to static. Comes complete with a quick connect/disconnect 732 Remote Jack and mounting hardware.

Dimensions: 6.5 x 3.25 x 1.5 inches (162 x 82 x 38mm)

Description	Digi-Key Part No.	Price Each	3M Part No.
Workstation Monitor Kit with Hardware	SCP226-ND	149.49	724
Dual Conductor Fabric Wrist Strap Adjustable	SCP232-ND	8.79	2368
Dual Conductor Coiled Cord 5'	SCP233-ND	17.69	2360
Dual Conductor Coiled Cord 10'	SCP234-ND	20.53	2370
Dual Conductor Coiled Cord 20'	SCP246-ND	36.14	2371
Dual Conductor Coiled Cord, 5', R/A	SCP240-ND	25.50	2360R
Dual Conductor Coiled Cord, 10', R/A	SCP241-ND	29.61	2370R
Dual Conductor Coiled Cord, 20', R/A	SCP242-ND	36.14	2371R
Dual Conductor Coiled Cord, 5', R/A	SCP243-ND	25.50	2391
Dual Conductor Coiled Cord, 10', R/A	SCP244-ND	29.61	2392
Dual Conductor Coiled Cord, 20', R/A	SCP245-ND	36.14	2393

‡ 3.4mm Plug-Not for use with SCP226-ND - Recommended for use with other manufacturers' monitors that use a larger input jack design.

Ground Man, Ground Monitors for Tools

Features: • Ground Man Monitors measure ground impedance in accordance with requirements of ANSI/ESDA S.20.20 standard • The alarm threshold can easily be adjusted at anytime in a range of 1 - 20Ω • Ground Man Monitors provide logic signal to the tool to shut it down when any of the grounds fail

Ground Man Plus: With the Ground Man Plus Monitors, you would cover all important ground connections in the tool and an operator

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Man Ground Monitor	SCP260-ND	193.86	CTC333-WW
Ground Man Plus Ground Monitor	SCP261-ND	249.28	CTC334-WW
Replacement Terminal Board with Jack	SCP262-ND	13.95	CTA251

Iron Man™ Workstation Monitors

Features: • Overvoltage monitoring of electronics assemblies • Soldering iron overvoltage failure alarm • Audio and visual alarms

Iron Man Plus™: With Iron Man Plus Monitors, an operator, a dissipative mat, and most importantly, all board assembly in progress are covered

Description	Digi-Key Part No.	Price Each	3M Part No.
Iron Man Soldering Iron Monitor	SCP258-ND	144.58	CTC330-WW
Iron Man Plus Soldering Iron Monitor	SCP259-ND	221.38	CTC331-WW

WS Aware® Dual Workstation Monitors

Ultra-Low Voltage WS Aware Monitors provide only 25 millivolts of signal to any part of the wrist strap at anytime, even when it is open

Features: • Dual wrist strap monitor • Body voltage monitoring • Metal ground monitoring • EMI on metal ground • Programmable thresholds • Individually Calibrated • Big Brother generator detection

Description	Digi-Key Part No.	Price Each	3M Part No.
Dual ESD Monitor	SCP251-ND	524.40	CTC061-3-WW
Dual ESD Monitor with Big Brother™	SCP252-ND	588.00	CTC061-3-BB-WW
Replacement Jacks	SCP253-ND	16.65	CTA245

Ground Master® Equipment Ground Monitor

Features:

• Ground Master measures ground impedance in accordance with requirements of ANSI/ESDA S.20.20 standard • The alarm threshold can be easily adjusted at anytime in a range of 1 - 20Ω • Each ground connection is protected by individual fuses to protect equipment in case of mis-wiring of neutral, power and ground • Ground Master RT provides relay closure and logic signal to the tool to shut it down when any of the grounds fail • Ground Master monitors EMI on each ground and indicates EMI status and more

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Master Ground Monitor	SCP263-ND	680.92	CTC065-RT

Ground Pro™ Ground Integrity Meter

Features: • Broadband EMI measurements • Audio alarms • Ground Master measures ground impedance in accordance with requirements of ANSI 6.1 and ANSI/ESDA S.20.20 standards • Ground Pro provides accurate ground impedance measurement in the presence of noise and ground currents; something a regular multimeter cannot do.

Description	Digi-Key Part No.	Price Each	3M Part No.
Ground Pro Ground Integrity Meter	SCP264-ND	1154.20	CTM051

Workstation Monitor Checker

The Workstation Monitor Checker was designed specifically to verify the proper operation of your dual wrist strap, workstation and ground monitors. The Checker simulates the proper resistances and signals to check the correct response and verify that the monitors are in compliance with your facilities specifications.

Description	Digi-Key Part No.	Price Each	3M Part No.
Monitor Checker	SCP265-ND	922.20	CTE701

(Continued)

More Product Available Online: www.digkey.com

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Static Control Wrist Straps, Heel Straps and Testers (Cont.)

ScanEM® Probes

Features: • Pinpoint exact sources of EMI • Detect electric and magnetic fields separately • Small size • Self-contained • LED color bar • Will not disturb circuit operation • RF output to spectrum analyzer and oscilloscope • DC output to a multimeter and more

Accessory Kit Includes: • Cable SMB/BNC 6' (1.8m) • BNC to Male N Adapter • BNC to Banana Plug Adapter

Description	Digi-Key Part No.	Price Each	3M Part No.
ScanEM-C Near-field Probe	SCP255-ND	806.20	CTK015
ScanEM-QC Near-field Probe	SCP256-ND	922.20	CTK019
ScanEM-C/QC Accessory Kit	SCP257-ND	108.80	CTA101

Electromagnetic Compliance Training Kit

With CTK031, following the clearly illustrated step-by-step instructions, you can demonstrate and experience:

- The difference between electric and magnetic fields
- The effectiveness of a ferrite as a high frequency noise suppressor
- The effectiveness of a shielding material
- Ground plane currents
- The location of hidden traces generating emissions
- Pinpoint sources of emission and more

Description	Digi-Key Part No.	Price Each	3M Part No.
EMC Training Kit	SCP254-ND	1038.20	CTK031

NEW! ESD Pro Event Detector

Locate and identify ESD events in your process

The ESD Pro is a hand-held indicator of ESD events that detects and counts the discharges as well as shows the relative strength of each ESD event. It offers variable settings of the discharge alarm threshold to detect and count only those discharges that exceed the threshold. Specifications: • Sensitivity: 1 – 1,000V • Threshold: Adjustable • Discharge Polarity: Both • Event Count: 4-digit counter • Event Magnitude: LED Bar • ESD Event Indication: LED bar, buzzer

Description	Digi-Key Part No.	Price Each	3M Part No.
Event Detector	SCP266-ND	1154.20	CTM082 ESD-PRO

DESCO

Static Control Wrist Straps, Heel Straps and Testers Adjustable Wrist Straps

Elastic wrist straps have silver impregnated nylon knitted inside with a soft lightweight fabric, allowing softness, comfort and flexibility. May be fitted to any size. 4mm snap.

Speidel® wrist straps are Twist-O-Flex® metal wrist straps made of non-allergenic stainless steel for reducing reactions and providing long service life.

Use Replacement Coiled cords for wrist straps, smocks and gloves. 4mm stainless steel contact snap to connect directly to wrist straps. Molded in one mehgm series resistor at snap end to protect operator from line voltage.

Hook and Loop wrist straps are one size fits all. Return loop makes for quick and easy adjustment. Non-reactive anti-microbial, anti-bacterial medical grade conductive strip; the best choice for users with ultra sensitive skin.

Description	Digi-Key Part No.	Price Each	Desco Part No.
Elastic Band Wrist Strap			
With 6' (1.8m) Coil Cord, Blue	16-1087-ND	25.34	09070
With 12' (3.66m) Coil Cord, Blue	16-1086-ND	27.84	09069
Straps Only (no cord)	16-1085-ND	10.08	09028
Replacement Strip for 09028	16-1066-ND	4.55	09029
Economy Adjustable Wrist Strap with 6' (1.8m) Coiled Cord	16-1021-ND	14.84	09039
Speidel® Twist-O-Flex® Metal Band Wrist Strap			
With 6' (1.8m) Coiled Cord, Black	16-1006-ND	43.32	09085
Strap Only (extra large, no cord)	16-1008-ND	31.66	09042
Replacement Coiled Cords			
6' (1.8m) Economy Coiled Cord Only, Black, 4mm Snap	16-1022-ND	17.66	09480
6' (1.8m) (Relaxed) Retraction, R/A, Coiled Cord Only, Bk., 4mm Snap	16-1064-ND	17.10	91095
Hook and Loop Wrist Strap			
Straps Only (no cord)	16-1088-ND	12.54	09060

Dual ESD Ground Point Bench Mount



Description	Digi-Key Part No.	Price Each	Desco Part No.
With 10' (3.05m) Cord	16-1055-ND	23.50	09740

Foot/Heel Grounders

Features: • Exceptionally tear resistant dual layer rubber with inner scrim • Hook and loop fastening assembly • 8 strand nylon polyester grounding tab • Will not mark shoes

Description	Digi-Key Part No.	Price Each	Desco Part No.
Adjustable Hook and Loop Heel Strap with 1 Meg Res.	16-1024-ND	12.70	17200
Heel Grounder with 1 Meg Resistor	16-1068-ND	8.78	07588

Wrist Strap Tester

Battery powered 9 volt tester that tests wrist straps with a single touch at the workstation. Test results include Fail Low, Pass and Fail High. 800KΩ – 10MΩ

Description	Digi-Key Part No.	Price Each	Desco Part No.
Touch Tester, 9VDC	16-1089-ND	97.48	19240

Wrist Strap and Footwear Combo Tester with Stand or Footplate

Battery powered 9V tester that tests wrist straps with a single touch at the workstation. Test results include Fail Low, Pass and Fail High. Wrist Strap Range: 750KΩ – 10MΩ Footwear Range: 750KΩ – 100MΩ

Description	Digi-Key Part No.	Price Each	Desco Part No.
Combo Tester with Stand	16-1084-ND	430.87	19252
Combo Tester with Footplate	16-1098-ND	386.63	19253

Jewel® Mini Monitor

Ensures ESD protected workstation. Provides true 100% continuous monitoring; cannot be fooled, no false alarms. Small size takes up minimal work surface area. Size: 2.77 inches x 2.07 inches

Description	Digi-Key Part No.	Price Each	Desco Part No.
Jewel Mini Monitor, 120V, Sapphire	16-1083-ND	131.97	19212

3M Static Control Shielding Bags and Labels

Economy Static-Shielding Bags

(1900 Series Metal-In): Use these more economical Static Shielding Bags for less demanding applications where reuse and high durability are not a prime consideration.

The metal-in aluminum vapor coating is on a thinner 0.48 mil polyester as opposed to the 0.92 mil polyester in the 2100 series.

Economy ZipBag Static-Shielding Bags

(1910 Series Metal-In): The 1910 features a dual track closure for easy opening and closing.

Size Inch (cm)	Digi-Key Part No.	Price Each 25	Price Each 100	3M Part No.
1900 Series Metal-In Transparent Shielding Bags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP153-ND	2.48	8.91	1900 3x5
4 x 6 (10.16 x 15.24)	SCP154-ND	2.87	10.31	1900 4x6
4 x 24 (10.16 x 60.96)	SCP155-ND	7.75	27.90	1900 4x24
4 x 30 (10.16 x 76.20)	SCP156-ND	9.69	34.87	1900 4x30
5 x 8 (12.70 x 20.32)	SCP157-ND	4.06	14.62	1900 5x8
6 x 10 (15.24 x 25.40)	SCP158-ND	5.31	19.12	1900 6x10
8 x 10 (20.32 x 25.40)	SCP159-ND	6.55	23.56	1900 8x10
8 x 12 (20.32 x 30.48)	SCP160-ND	7.18	25.83	1900 8x12
10 x 14 (25.40 x 35.56)	SCP161-ND	10.24	36.85	1900 10x14
12 x 16 (30.48 x 40.64)	SCP162-ND	13.87	49.91	1900 12x16
1910 Series Metal-In Shielding ZipBags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP165-ND	3.38	12.17	1910 3x5
4 x 6 (10.16 x 15.24)	SCP166-ND	3.91	14.08	1910 4x6
5 x 8 (12.70 x 20.32)	SCP167-ND	5.55	19.96	1910 5x8
6 x 10 (15.24 x 25.40)	SCP168-ND	7.25	26.10	1910 6x10
8 x 10 (20.32 x 25.40)	SCP169-ND	8.94	32.17	1910 8x10
10 x 12 (25.40 x 30.48)	SCP170-ND	12.05	43.36	1910 10x12
12 x 16 (30.48 x 40.64)	SCP171-ND	18.77	67.57	1910 12x16

Clear Anti-Static Tape

Size	Digi-Key Part No.	Price Each 5	3M Part No.
Unprinted			
1/2" x 72 yards	3M40A-ND	11.52	10.53
1" x 72 yards	3M40B-ND	23.03	21.06
Pre-printed with Static Symbol			
1/2" x 72 yards	3M41A-ND	11.52	10.53
1" x 72 yards	3M41B-ND	23.03	21.06

Labels

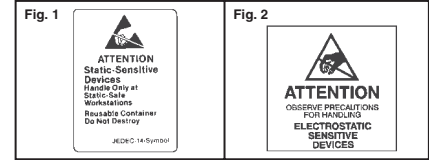


Fig.	Digi-Key Part No.	Size Inches (mm)
1	SCP129-ND	1.75 x 2.5 (44.45 x 63.5)
	SCP128-ND	1.75 x 2.5 (44.45 x 63.5)
2	SCP127-ND	2 x 2 (50.80 x 50.80)
	SCP126-ND	2 x 2 (50.80 x 50.80)
	SCP130-ND	4 x 4 (101.60 x 101.60)

Description	Quantity (per roll)	Digi-Key Part No.	Price Each	3M Part No.
(JEDEC-14) Orange†	500	SCP129-ND	28.87	7101
(JEDEC-14) Yellow†	500	SCP128-ND	32.09	7102
(Mil. Std. 129J) Yellow†	500	SCP127-ND	36.51	7201
(Mil. Std. 129J) Yellow†	500	SCP126-ND	36.51	7202
(Mil. Std. 129J) Yellow†	250	SCP130-ND	59.12	7203

† With Black type • Reusable * Destructible

Ionized Air Blowers

The 963 neutralizes static charge on non-conductive materials and helps prevent static from damaging sensitive electronic components. 120 Volts, 6 x 6 x 2.5 inches (15.24 x 15.24 x 6.35cm)

SCP207-ND\$399.14

Overhead Air Ionizer 991

FEATURES: • Input Voltage: 100 – 230 VAC, 50/60 Hz • Input Current: 0.4A max. with North American Power Cord • Dimensions: 44 x 6 x 4 inches (111.7 x 15.2 x 10.1cm) • Certifications: cULUS, TUV-GS, CE and C-Tick

See Digikey.com for detailed specifications

SCP249-ND\$993.75
SCP250-ND (Replacement Filters - 3 pack)\$9.00

DESCO

Static Control Shielding Bags, Labels and Desiccant Packs

Statshield® EM/RFI ESD Moisture Barrier Bags

This bag combines the properties of MOISTURE-VAPOR-BARRIER with EMI/RFI-ESD shielding. Manufactured from a Type 1 Class N652-260M film which is qualified to MIL-B-81705- Rev C Type I.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
6 x 10 (15.24 x 25.40)	16-1016-ND	9.89	20.29	13808
10 x 12 (25.40 x 30.48)	16-1018-ND	17.93	36.81	13816
12 x 16 (30.48 x 40.64)	16-1019-ND	28.32	58.12	13824
18 x 24 (45.72 x 60.96)	16-1020-ND	59.76	122.70	13832

Statshield® ESD Shielding Bags – Metal Out

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Meets the electrical and mechanical requirements of MIL-PRF-81705D, EIA541. Superior durability at a low cost.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1056-ND	3.71	9.54	13010
4 x 6 (10.16 x 15.24)	16-1057-ND	4.61	11.87	13020
5 x 8 (12.70 x 20.32)	16-1058-ND	6.20	15.97	13035
6 x 10 (15.24 x 25.40)	16-1059-ND	7.73	19.94	13050
8 x 10 (20.32 x 25.40)	16-1060-ND	9.26	23.84	13065
8 x 12 (20.32 x 30.48)	16-1061-ND	10.85	27.85	13070

(Continued)

More Product Available Online: www.digikey.com

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380

(T083) 2249

DESCO

Static Control Shielding Bags, Labels and Desiccant Packs (Cont.)

Statshield® ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies.

Meets the electrical and mechanical requirements of MIL-B-81705C. Superior durability at a low cost.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1027-ND	2.23	5.90	13405
4 x 6 (10.16 x 15.24)	16-1028-ND	2.49	6.63	13415
5 x 8 (12.70 x 20.32)	16-1029-ND	3.94	10.49	13430
6 x 10 (15.24 x 25.40)	16-1030-ND	4.78	12.63	13445
8 x 10 (20.32 x 25.40)	16-1031-ND	6.83	18.07	13460

Statshield® Zipper-Style ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Features a reclosable polyethylene zipper for safe and easy opening and reclosing of bag.

Meets or exceeds one of more of the following standards: electrical and physical requirements of ANSI/ESD S20.20, Mil-PRF-81705D Type III, EIA 541, EIA 625, MIL-STD-1686 and EIA 583.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1032-ND	3.68	9.76	13605
4 x 6 (10.16 x 15.24)	16-1033-ND	4.78	12.65	13615
5 x 8 (12.70 x 20.32)	16-1034-ND	6.98	18.49	13630
6 x 10 (15.24 x 25.40)	16-1035-ND	8.34	22.12	13645
8 x 10 (20.32 x 25.40)	16-1036-ND	11.85	31.38	13660

Statshield® Lead-Free Area ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Green color provides easy identification of Lead-Free assemblies and components in the manufacturing process.

Meets ANSI/ESD S20.20 and MIL-PRF-81705D, Type III.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	100	Desco Part No.
4 x 6 (10.16 x 15.24)	16-1099-ND	2.26	5.16	12780
5 x 8 (12.7 x 20.32)	16-1100-ND	3.58	8.18	12781
6 x 10 (15.24 x 25.4)	16-1101-ND	4.31	9.86	12782
8 x 10 (20.32 x 25.4)	16-1102-ND	6.16	14.09	12783
8 x 12 (20.32 x 30.48)	16-1103-ND	7.12	16.27	12784
10 x 12 (25.4 x 30.48)	16-1104-ND	8.21	18.78	12785
10 x 14 (25.4 x 35.56)	16-1105-ND	9.79	22.37	12786
10 x 24 (25.4 x 60.96)	16-1106-ND	17.49	39.97	12787
12 x 18 (30.48 x 45.72)	16-1107-ND	15.03	34.36	12788
15 x 18 (38.1 x 45.72)	16-1108-ND	19.24	43.97	12789
18 x 18 (45.72 x 45.72)	16-1109-ND	22.37	51.13	12790
18 x 24 (45.72 x 60.96)	16-1110-ND	29.87	68.27	12791

Static Label for Packaging

Static Attention labels used for sealing Shielding Bags and marking ESD Containers.

Color: Yellow/Black

Description	Digi-Key Part No.	Price Each	Desco Part No.
2" x 2" (50.8mm x 50.8mm) 500 pieces	16-1001-ND	16.14	06722



3M ESD Card Carriers

Single Card Carriers

Single card carriers protect individual PCB's from static and physical damage during storage and transport. Interiors are lined with dissipative foam cushioning. The lid of each carrier can be modified for identification labels or company logos.

The 12 compartment tray is a molded ESD safe tray for transporting components within the plant or for storing components during PCB assembly.

Description	Digi-Key Part No.	Price Each	3M Part No.
Card Carrier 10" x 8" x 1.25" with Hinged Lid	SCP237-ND	24.43	8520
Card Carrier 12" x 9" x 1.25" with Hinged Lid	SCP238-ND	30.37	8521
Card Carrier 18" x 17" x 2" with Hinged Lid	SCP239-ND	61.94	8522
Card Carrier 10" x 8" x 2" with Hinged Lid	SCP190-ND	28.35	8523
Velostat™ Single Device Carrier 1.55" x 1.01" x 0.46"	SCP131-ND	5.75/10	5701

ACL Staticide

Static Control Cleaning Products General Purpose Staticide

(For Non-Porous Surfaces)

Solves static related problems such as:

- The attraction of dirt, dust and bacteria to all environmental surfaces, products and product packaging.
- Charge generation on surfaces of tote boxes and carriers used to process and store electronic components.
- Damage or destruction of sensitive electronic components and subassemblies during their manufacture, shipping or receiving.
- Data processing "glitches" ... memory loss, data errors, paper jams.

ST1002-ND (quart) \$11.50

ST1059-ND (24 Individual Wipes)..... \$8.63

Heavy Duty Staticide

(For Porous Surfaces)

- Ideal for eliminating costly static problems on carpeting.
- Ideal for eliminating jamming or slipping of materials during printing, packaging or converting.
- Ideal for eliminating ignition of combustible vapors, dust or solvents causing fire or explosion.

ST1003-ND (quart) \$18.75

ST1001-ND (4 oz. Spray Pump) \$6.50

Mat and Table Top Cleaner

Non-abrasive, non-streaking and non-flammable wipes/cleaner ideal for general use on work stations, table tops and anti-static mats. It effectively removes dirt without degrading the surface's anti-static properties.

ST1004-ND (1 quart spray bottle)..... \$7.38

MTT20-ND (Wipes 20 count)..... \$10.63

Anti-Glare Screen Cleaner

Perfect for monitors and screens, won't streak or stain. 4oz. bottle with pump.

ST1025-ND \$5.63

Industrial Size Wipes

These strong, highly absorbent lint free cloths are for use on any surface.

Ideal for computer screens and computer screen filters.

Twice the size of a conventional wipe 11" x 8". The extra big wipe with muscle.

ST1031-ND (Bundle of 75) \$11.88

Ideal for use in industrial, commercial and technical environments.

ST1006-ND (Box of 50)..... \$33.25

Notebook / Laptop Cleaning Wipes

Designed exclusively for all notebook computer screens for use to remove fingerprints, ink, nicotine and other contaminants. 50 pre-saturated wipes in a handy dispenser.

ST1020-ND \$13.63

ESD Hand Sanitizer

This product provides excellent sanitization without the use of water or towels; contains 60% ethyl alcohol to prevent bacterial transfer. Comes in a 500ml pump bottle.

ST1030-ND \$11.25

Anti-Bacterial Static Dissipative Soap

This product is specially formulated with .3% Triclosan, natural moisturizers and proprietary additives. This helps to kill gram-positive and gram-negative bacteria, as well as clean and moisturize the skin to protect against static. Comes in a 500ml pump bottle.

ST1058-ND \$14.51



CD-ROM Scratch Repair Kit

Fix those damaged CD's. Repairs scratches and cleans fingerprints, dust and dirt. Staticide's new solution combines safe and effective cleaners with special polymers that actually molecularly bond to the disc surface repairing the toughest scratches.

Use on both old and new discs regularly to actually make them more durable.

ST1019-ND \$17.38

Premoistened Wipes

Pre-moistened Staticide Wipes: Meets or exceeds military electrostatic decay criteria. This long lasting wipe prevents dust attraction, is biodegradable, and is safe and easy to use. For use on all materials that are not adversely affected by water or alcohol. Wipes (80 count) supplied in reclosable container.



Staticide Telephone Cleaning Wipes: An effective way to clean and disinfect hard non-porous surfaces. Cleans and disinfects telephones, earphones, and other telecommunications equipment. Wipes supplied in reclosable container.

Staticide Clean & Clear Optical Wipes: These pre-moistened wipes contain a unique solution that cleans better and keeps lenses cleaner longer. Ideal for cleaning most types of glass and plastic lenses including goggles, cameras, binoculars, microscopes, camcorders and magnifiers. It also fights fog build-up. Wipes supplied in reclosable container.

ST1057-ND Pre-moistened Staticide Wipes \$8.88

ST1028-ND Staticide Telephone Cleaning Wipes..... \$15.70

ST1029-ND Staticide Clean and Clear Optical Wipes..... \$14.88

Anti-Static Starter Kit

This compact kit contains staticides, cleaner, lotion, swabs and wipes for all of your everyday static problems.

ST1032-ND \$24.95

DESCO

Static Control Lotion and Cleaner

Reztore™ ESD Hand Lotion

Specially formulated for use in the electronic manufacturing environment. The moisturizing hand lotion can be used to enhance the effectiveness of ESD control wrist straps, particularly for individuals with dry skin. It is free of chemicals that may adversely affect solderability or cause corrosion of electronic components.

Contaminants: No soap, lanolin, free-salts, silicones or mineral oil

Description	Digi-Key Part No.	Price Each	Desco Part No.
ESD Hand Lotion, (1 quart pump)	16-1070-ND	18.98	81082

Reztore™ Antistatic Cleaner

Cleans and restores ESD mats and will not degrade surface's ability to drain charges. Does not contain silicon or alcohol. Ideal for cleaning mats, electronic instrumentation, medical equipment and computer monitors, keyboards and equipment.

Description	Digi-Key Part No.	Pricing 1	12	Desco Part No.
Cleaner, (One Quart)	16-1054-ND	10.66	97.58	10435

ITW Chemtronics

ESD Hand Lotion

Non-contaminating hand lotion for electronics. Contains no silicon. Non-greasy formula with a fresh natural fragrance in an 8 oz. (.24 liter) pump. Minimizes potential for static damage and build-up. Won't affect the solderability of components or PCBs.



Digi-Key Part No.	Price Each 1	25	100	500	ITW Chemtronics Part No.
C805-ND	8.27	7.47	6.98	6.35	C805

More Product Available Online: www.digkey.com

2250 (T083)

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