



### Purpose of Field Service Kit

To create a temporary ESD Protected Area (EPA). An EPA is a working space where electrostatic discharge sensitive devices (ESDS) may be unpacked, handled and packed with the minimum risk of being damaged by static electricity.

### Instructions for use

- Remove kit from pouch.
- Open mat and place on a flat stable surface. Use of the floor or a temporary working surface is acceptable.
- Mat is usually used with black conductive surface uppermost. However, if equipment being worked upon remains powered, it is recommended that the mat should be used with the blue static dissipative surface facing upwards.
- Connect the straight ground cord by its snap fastener to either press stud on the mat.
- Connect the straight ground cord to Earth or to the Earth terminal of the equipment to be serviced. If necessary use the crocodile clip to do so.
- Put on adjustable wrist band so that it fits snugly. Separate instructions for use are supplied with band.
- Connect coiled cord by a snap fastener to the wrist band. There is a 1 megohm resistor at both terminations, so either fastener can be used.
- Connect coiled cord by the other snap fastener to the unoccupied stud on the mat. Alternatively, the cord can be connected to Earth or the equipment Earth terminal.
- EPA is now ready for use.

### General Instructions

- Always replace kit in pouch after use.
- Pouches sewn into mat are suitable for holding components, PCBs and ESD compatible tools.
- If possible test the overall resistance to Earth of the personnel regularly. This can be effected by preparing the kit for use and measuring the resistance from the operator's finger tips to Earth. The resistance should be approximately 3 megohms, but certainly be between 0.75 and 35 megohms.
- Do not clean mat with solvents. Use Desco Europe bench top cleaner or a mild detergent and warm water.

### Properties

- Black surface of the mat is conductive  $R_S: 10^4$  ohms
- Blue surface is static dissipative  $R_S: 10^8$  ohms
- $R_G: 10^5$  to  $10^7$  megohms



Made in the United Kingdom

*"All field work shall adhere to the requirements specified for permanent EPA [ESD Protected Area] with respect to the material quality, training, labelling, packaging and personal responsibilities. The operator, any temporary work surface ... and the equipment being serviced shall be bonded and, where practical, connected to EPA ground.*

*When ESDS are removed from equipment and transferred to a temporary work surface away from the equipment, the ESDS shall be placed in protective packaging.*

*Faulty ESDS which may be required for failure analysis or repair shall be placed in protective packaging prior to removal from the EPA." (EN 61340-5-1 clause 5.4 Field Work)*

Unless otherwise noted, tolerance +/- 10%  
Specifications and procedures subject to change without notice.



### Blue Portable Light Weight Field Service Kit w/2x10mm Studs, 0.6m x 0.6m

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