

Can cable trays be used for electrostatic discharge bridging



Overview

Just stick an 2 layer antistatic mat on the aluminum trays, it will make good contact with the boards and prevent any static from building up in the transport, as well will slowdown discharge. You can also refer ANSI/ESD S20. 20 (Chapter 8: ESDs item Handling). The ESD workpiece carriers reliably prevent the generation of electrostatic charges and discharge existing charges in a controlled manner. The rapid discharge can be harmful to some components, and could possible cause other issues if the Aluminum trays are used after test where capacitors may hold a charge and then short into other parts, cause sparks, etc. Even very small voltages that are not noticeable to humans can destroy microchips or circuit boards. These trays are made from materials that have conductive or dissipative properties, allowing them to safely dissipate any static electricity that may build up.

Article Content

Sep 02, 2025

Electrostatic Discharge (ESD) Packaging: Its Working and Configurations

Various Configurations of Electrostatic Discharge (ESD) Packaging Electrostatic discharge (ESD) packaging generally comes in three categories- conductive material, dissipative

Apr 18, 2026

ESD workpiece carrier | swissplast plastics technology

ESD workpiece carriers and trays are designed to protect sensitive electronic components from electrostatic discharge. ESD trays from swissplast are useful for your company when storing and

Aug 03, 2025

ESD Trays

A grounded person touching a charged part or moving that part to a workbench or a metal tray can create a rapid discharge, an ESD event, that damages the part.

Dec 07, 2025

A Guide to Electrostatic Discharge (ESD): Bondline Electronics Ltd

BONDLINE A Guide to Electrostatic Discharge (ESD) ESD Terminology Glossary Antistatic The term "antistatic" is a minimal generation or retention of a static charge. It usually refers to the property of a

Apr 14, 2026

Fundamentals of Electrostatic Discharge

Electrostatic discharge can damage devices so a parameter fails immediately, or ESD damage may be a latent defect that may escape immediate detection, but may cause the device to

Jun 15, 2026

ESD Protection for Components: Measures & Solutions

ESD trays are specially shaped carriers that hold components precisely in place while protecting them from electrostatic discharge. Ideal for automated processes

May 26, 2026

Electrostatic Discharge (ESD) Protection Design Guide

Electrostatic discharge protection can be acquired in PCBs by using ESD protection design guidelines during circuit design and by following PCB design rules. ESD protection design

Jun 21, 2026

EOS/ESD Fundamentals Part 3 | EOS/ESD Association,

When used with ESDS items the main function of packaging and materials handling containers is to limit the possible impact of ESD from triboelectric charge

Oct 03, 2025

Cable Tray Technical Guide A practical guide to product selection and ...

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and any additional loading that may be applied to the cable tray system (e.g.,

Mar 01, 2026

Aluminum Trays and Rapid Static Discharge

Boards should also be handled using antistatic trays rather than aluminum trays since an antistatic tray will allow any static charges to bleed out in a controlled fashion, and will also not be as hard as an

Dec 10, 2025

Electrostatic Discharge Best Practices - Rhombus Support

Workstation Rules Helpful Links Contact Support or Sales Overview Electrostatic Discharge (ESD) is the flow of electric current between two electrically charged

Oct 01, 2025

Guide To Electrostatic Discharge ESD Protection

When working with electronic components, its critical to be aware of electrostatic discharge, or ESD. I cover the many ways to implement ESD protection.

May 20, 2026

ESD PCB Trolleys

ESD PCB trolleys, also known as ESD (Electrostatic Discharge) carts or ESD racks, are specialized equipment designed to safely transport and store

Apr 10, 2026

Methods for Electrostatic Discharge Prevention

Sensitive electronic circuits can be damaged by electrostatic discharge. Use electrostatic discharge prevention methods to suppress this harmful discharge.

Jun 21, 2026

What is the use of ESD tray?

Introduction to ESD Trays ESD stands for “electrostatic discharge”. This refers to the sudden flow of electricity between two electrically charged objects. In the

Dec 14, 2025

How to Choose the right ESD Trays for Protecting

ESD trays, also known as anti-static trays or conductive trays, are specially designed containers used for storing and transporting electronic components that are

Jun 21, 2026

Points of Control

For this reason, ESD control programs place considerable emphasis on controlling personnel generated electrostatic discharge. Similarly, the movement of mobile equipment (such as carts or trolleys) and

Jul 04, 2025

The Prevention and Control of Electrostatic Discharge

We experience occurrences of static electricity everyday. While this sudden discharge of static electricity does not result in any harm to the human

Jun 29, 2025

Semiconductor Packing Material Electrostatic Discharge (ESD) Protection

The testing included trays, tape and reel, and magazines. Additional units were subjected to the same discharge, without the protection of the packing material. Test results showed that the packing

Sep 10, 2025

Best Practices for Preventing Static Discharge | Q Source Inc.

Protecting electronic components from static discharge is crucial for maintaining their integrity and functionality. This guide covers essential steps and precautions that electronic

Dec 05, 2025

Cable Carriers

Special ESD (electrostatic discharge) cable carriers are used in numerous industrial sectors.

Feb 25, 2026

Understanding ESD Antistatic Blister Trays for Electronics Packaging

Made from materials that dissipate static electricity, these trays help protect delicate components from electrostatic discharge. Traditional blister trays are often inadequate when it comes to safeguarding

May 24, 2026

Understanding ESD Trays: Essential Components for Electrostatic ...

ESD trays are specially designed containers that safely hold and transport electronic components while minimizing the risk of ESD. These trays are made from materials that have

Jan 03, 2026

Electrostatic Discharge (ESD) (Rev

ABSTRACT This application report provides an overview of electrostatic-discharge (ESD) test models, failure modes, protection strategies, and Texas InstrumentsTM procedures to guard against ESD

Feb 09, 2026

ESD Trays & ESD Containers | MFG Tray

Fiberstat shallow trays ensure complete protection from electrostatic discharge for the life of the product. MFG Tray ESD nesting boxes combine impressive strength, durability, and ease of handling with

Sep 01, 2025

ESD Protection Methods & Best Practices: A Complete Guide

Conclusion Electrostatic discharge may be invisible, but its effects on electronics are costly and disruptive. The good news is that with the right ESD protection methods and best

Jan 08, 2026

Fundamentals of Electrostatic Discharge

Electrostatic discharge can change the electrical characteristics of a semiconductor device, degrading or destroying it. Electrostatic discharge also may upset the normal operation of an electronic system,

Dec 20, 2025

Electrostatic Discharge: Everything You Need to Know

Electrostatic discharge (ESD) is a sudden transfer of static electricity between two objects with different electric potentials. In electronics, ESD can

Dec 21, 2025

Electrostatic Discharge

Electrostatic discharge is defined as the sudden flow of electricity between two charged objects, which occurs when a static electric charge is released, often producing a random pulse event. This

Jun 05, 2026

Electrostatic Discharge

Electrostatic Discharge Edited by Jonathan Ledet (Spring 2017) Electrostatic Discharge (ESD) is the swift transfer of charges between objects at

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://elagage-lorrain.fr>

Email: sales@elagage-lorrain.fr

Phone: +33 6 47 82 19 35

Address: 15 Rue de la République, 69002 Lyon, France

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