ZTP Thermal & Power

Core Switch ESD Cable

Overview

These fully integrated connectors and adapters provide protection from Electro Static Discharge (ESD) and Electronically Fast Transients (EFT) that can damage or even destroy your equipment. The connectors are designed to meet various IEC 61000-4-21, EN 61000-4-2 and IEC 61000-4. While we've all experienced ESD when we've been shocked by a metal doorknob or car door, most ESD strikes are quite harmless to. Electrostatic Discharge (ESD) is the sudden and momentary release of electric current that results from a voltage difference between two physically connected points. Power over Ethernet (POE) applications enable standard Ethernet cables to carry both data and power to remote devices, greatly simplifying the networked system. POE reduces the number of cables needed to connect networked devices and enables systems to access locations where power is not readily. Smart FilteringAs you select one or more parametric filters below, Smart Filtering will instantly disable any unselected values that would cause no results to be found. Focusing on eficiency, Nexperia produces semiconductor components at high vo ume, around 100 billion annually.

Core Switch ESD Cable

ESD protection by selecting the right components

They are often similar in size and have a compatible footprint on the PCB. Due to their small size, they can be placed close to the point of potential

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EOS/ESD Fundamentals Part 6 , EOS/ESD Association,

Learn more about how ESD standards help assure consistency of ESD-sensitive products and consistency of ESD control products and services, and provide

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Antistatic Cable , ESD Cable (Electrostatic Discharge)

Antistatic cable (ESD (Electrostatic Discharge) for test bench measurement technology, e.g. for test adapters on control units. The ESD cable is used wherever there is a risk of electronic components

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PB2016.07 System-Level Modeling Methodology of ESD

When a charged cable is plugged into an Ethernet connector, a cable discharge event (CDE) will occur. Ethernet transceiver pins are often affected by CDE as

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Electrostatic Discharge (ESD) Protection Design Guide

Littelfuse TVS Diode Arrays (SPA® Diodes) are an ideal choice for suppressing ESD as their switching speed and superior clamping levels are essential to protect today's integrated circuits, surpassing the

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Basics of ESD Protection (TVS) Diodes

Unless countermeasures are taken, electronic devices are susceptible to degradation and damage due to ESD. In addition, electronic devices are subject to increasing exposure to ESD

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APPLCI ATOI N HANDBOOK PROTECTION

optimized ESD protection concept. To this end, Nexperia's ESD competence can help minimize the risk of ESD damage -- supporting the design community in protecting application.

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ESD Protection Layout Guide (Rev. A)

Designing ESD protection into a system can be successful with the proper techniques applied. Following these ESD layout guide outlines will ensure the TVS has optimum conditions for dissipating the ESD.

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EMI Cores ESD-R-H Toroidal Cores for Round Cables for Low & High

Applications The KEMET ESD-R-H Series solid toroidal cores feature high heat resistance for round cables. KEMET's unique core material enables high performance in low frequency range with the

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System-Level ESD Protection Guide (Rev

To provide adequate system-level ESD protection, ESD and surge devices are used to guard against these higher power transient events. This guide discusses diode selection

and parameters, explains

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EMI Core ESD-SR Series Snap-on Cores for Round Cables

Overview Benefits EMI Cores Applications The KEMET ESD-SR Series snap-on cores are designed for use on round

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Series E (ESD/EFT) Transient Protected Connectors

Theconnectorshaveintegrated ESDtransientvoltagesuppressorsfromLittelfuse®,are available in industry standard sizes and are "drop in" replacements for unprotected connectors.

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Protecting Against Electrostatic Discharge

To maximize protection against ESD: Use shielded cables (STP), especially when installing devices outdoors. Use surge protectors throughout your network. In

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ESD and Surge Protection for USB Interfaces (Rev. B)

An ESD strike can enter through the connector and cause damage to the downstream components if the system is not protected properly. The following sections discuss the ESD protection requirements

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EMI Cores ESD-SR-H/HL Snap-on Cores for Round Cables for High

Overview The KEMET ESD-SR-H/HL Series snap-on toroidal cores feature high heat resistance and a cable holding mechanism designed specifically for round cables.

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Reading and Understanding an ESD Protection Data Sheet

Selecting the correct ESD protection device can be challenging since protecting devices on a PCB against ESD stress has become an increasingly complex task. Texas Instruments offers a wide

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ESD/EOS Protection Solutions for Ethernet Port

Explore effective ESD and EOS protection strategies for Ethernet ports, including differential and common mode surge defenses. Learn how to

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Transient Protection in POE Applications

POE systems must be designed to protect sensitive communication circuitry from transient events, such as Cable Discharge Events (CDE), or Electro Static Discharge (ESD) events. Cable Discharge

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ESD Packaging and Layout Guide (Rev. B)

ESD Packaging and Layout Guide ABSTRACT Electrostatic discharge (ESD) protection is essential on a system-level design for a wide range of end-equipment in consumer, industrial, and automotive

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EMI EMC EFT and ESD Circuit Design Considerations for 32-bit MCUs

Typically, transformer less power supply and Switch Mode Power Supply (SMPS)-based systems face more EFT issues compared to iron core transformer based systems (see ESD, EMI, and EFT

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Resistive Cables for Voltage Bleeding during ESD

Purchase Cables with 470k Ohm Resistors as Described in IEC/EN 61000-4-2 for High Voltage Bleeding Throughout the ESD Test Environment. ESDGuns is

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What you need to know about internal ESD protection on integrated

In addition to the on chip ESD protection circuits system designs also have capacitors that provide power-supply bypassing. These capacitors can provide a lot of benefit during an ESD event by

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EMI Cores ESD-SR Series Snap-on Cores for Round Cables

Overview Benefits EMI Cores Applications KEMET ESD-SR Series snap-on cores are designed for use on round cable and are available in a variety of sizes.

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How to Design ESD Protection Circuit for PCBs , Sierra

An ESD protection circuit safeguards sensitive PCB components from high voltage spikes caused by an electrostatic discharge event.

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Linked Ship/Shore Emergency Shutdown Systems for Oil and

A core recommendation of this paper is that, as a minimum, ESD is manually activated. Some ship and terminal systems will include the provision for automatic shutdown of cargo transfers in abnormal

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