

Cold-cooled connector with white joint



AI Overview

A cold-cooled connector with a white joint can refer to either a cold shrink electrical splice or a liquid cooling quick disconnect connector, designed for reliable, tool-free connections in harsh environments.

Electrical Applications In electrical systems, cold shrink joints and CoolSplice connectors are commonly used for wire-to-wire connections. TE Connectivity's CoolSplice connectors allow push-button termination of insulated wires without special tools, supporting wire sizes from 22 AWG to 12 AWG for solid and stranded wires. The white or clear body of these connectors enables visual inspection of the termination and distinguishes standard from sealed versions. Gel-filled versions provide ingress protection for outdoor or harsh environments, ensuring long-term reliability and insulation integrity.

Cold shrink joints, such as TE's Raychem CSJA, are pre-stretched silicone rubber sleeves that contract over the cable when installed, providing insulation, sealing, and mechanical protection without heat. These are suitable for medium-voltage power cables (15–35 kV) and are ideal where torch use is restricted.

Liquid Cooling Applications For cold plate liquid cooling systems, connectors with white joints often refer to quick disconnect couplings like CPC's Everis or Guchen UQD connectors. These are designed for dry-break, non-spill operation, allowing one-handed connection and disconnection. The white joint may indicate a specific material or seal type compatible with dielectric fluids or coolant. Features include:

- Leak-free performance under repeated connection cycles
- High flow rates with low pressure drop
- Hot-swappable capability for server or HPC systems
- Audible click and tactile feedback to confirm secure connection

These connectors are widely used in data centers, high-performance computing, and industrial liquid cooling, where reliable thermal management is critical.

Choosing the Right Connector When selecting a cold-cooled connector with a white joint, consider:

- Application type: electrical splicing vs. liquid...

Article Content

A Complete Guide to Cold Plate Fittings For Liquid

Cold plates are at the heart of modern direct-to-chip liquid cooling systems, but they can only perform reliably when their fittings and interfaces are designed to robust

Cold Solder Joints: Causes, Detection and Prevention

Learn what causes cold solder joints, how to detect them via visual/X-ray inspection, and proven prevention methods. Includes BGA/CSP solutions

Couplers hose clamps and fitting selection | Eaton

The selection of the proper fittings and hose clamps for cold plates and heat exchangers is critical to a reliable liquid cooling system. It can prevent unnecessary downtime and equipment damage.

Quick Connect & Disconnect Fittings | Coupling

CPC is the leading innovator of quick connect and disconnect fluid couplings, fittings and connectors rated for bio, medical and industrial applications.

Troubleshooting Cold Solder Joints? Hot Air Rework to

Cold solder joints can compromise the performance and reliability of your PCB, but with the right techniques, they're entirely fixable. By mastering

CPC (Colder) Quick Connect Disconnect

Special features of CPC products include precise hose barbs for superior grip, built-in shutoff valves for preventing spills, and easy-to-use, push-button thumb latches for quick connections and

What Is a Cold Solder Joint?

What are Cold Solder Joints? A cold solder joint is a type of electrical connection where the soldered joint has not been

Avoiding The Dreaded Cold Solder Joint

Avoiding The Dreaded Cold Solder Joint Good solder joint formation is a prerequisite in electronics manufacturing. The failure of one small solder joint can

Liquid Cooling Connections | Parker Hannifin

Engineered for secure connections and consistent performance, these couplings are designed to integrate smoothly into demanding environments where heat control

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

What is a Cold Solder Joint? Everything You Need to

A Cold Solder Joint occurs when the solder fails to properly melt and flow around the joint components, resulting in a weak and unreliable connection.

How to Identify and Repair Cold Solder Joints

Learn everything about cold solder joints - what causes them, how to identify dull grainy solder connections, their effects on circuits, and step-by-step repair

Quick Disconnect Couplers for Cold Plate Liquid

CPC's Everis ® quick disconnect couplings and connectors are designed with cold plate liquid cooling systems in mind. They're efficient, dry break non-spill

Choosing Connectors for Liquid Cooling Systems

QD is a tool-independent connection component that can be repeatedly connected and disconnected. It is fast, easy and safe, and can realize

Choosing Connectors for Liquid Cooling Systems

The decoupling process of cold plate liquid cooling needs to rely on multi-dimensional initiatives such as standardized product definitions of fluid

liquid cooling copper fittings from Kaweller

Kaweller supplies copper fittings for liquid cooling, which include bending, welding and embedded copper tubes for cooling plate, cooling blocks, connectors

Quick Disconnect Couplers for Cold Plate Liquid

Learn more about CPC liquid cooling QDs for cold plates. The efficient, non-spill design of our QDs is a great fit for high-performance computing applications.

Causes and Effects of Cold Solder Joints in PCBs

Causes of cold solder joints in PCBs and how they affect connection reliability, along with proven techniques for prevention and repair.

Cold Solder Joints – Identification, Effects, and Prevention

Learn what cold solder joints are, their causes, effects on PCB, and effective methods for identification, prevention, and repair.

The Ultimate Guide to Preventing Cold Solder Joints:

Stay patient—rushing through soldering often leads to mistakes like cold joints. By focusing on the right soldering iron temperature for cold joints,

Inline Joint: Cold Shrink, Straight up to 42 kV

Our Raychem CSJA Cold Shrinkable Single Core Straight Joints are designed to cover a wide range of applications and accommodate various cable and

Liquid Cooling Connectors (or Quick Disconnects

Liquid cooling is key to complex, high-power electrical system success. Learn more about CPC's high-performing Everis® liquid cooling connectors (also known as

Cold Solder Joints: Causes, Detection & Prevention Guide

A cold solder joint occurs when solder doesn't properly melt or bond, creating a weak electrical/mechanical connection —

Quick Connect & Disconnect Fittings | Coupling

CPC helps to improve patient care through quick connect couplings specially designed for surgical, IVD, and other medical applications. Discover why our

Electrical Joints | TE Connectivity

Our broad portfolio of electrical joints and splices are made for low, medium and high voltage electrical connections. These are engineered to withstand harsh conditions in extreme environments, providing

Contact Us

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