

Should cold-joints be illuminated with red or blue light



Overview

The uncircled red wire at the top is definitely a cold solder joint. Cold solder joint means the joint has not been heated through enough and the solder is only sticking to the surface. Are the solders in blue cold solders or something else?

They are connected to LEDs and they are glowing dim now, but they used to glow bright when their wires were soldered properly. The others are hard too tell because the. A cold joint in concrete is an area or surface with a structural discontinuity caused by the delayed concrete pouring between two layers of concrete. The delayed placement prevents full integration and knitting between the concrete batches and might lead to reduced structural robustness, increased. This guide explains what a cold solder joint is, what it looks like, why it happens, and how to reliably identify, fix, and prevent it. Whether you're troubleshooting a failed board or optimizing an SMT production line, this article gives you a practical, engineering-level reference for eliminating. Among the most commonly used light therapies are red light therapy (RLT) and blue light therapy (BLT).



Article Content

Hot

Visual Inspection for Cold Solder Joints on Handshake Pins

Learn the best techniques to visually inspect for cold solder joints on handshake-related pins like RTS, CTS, DTR, and DSR. Discover indicators of cold joints and specific focus areas for

Mar 06, 2026 Hot

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.

Jan 12, 2026 Hot

Cold Joints in Concrete: Invisible Threat to Structural

A cold joint in concrete may appear minor at the time of construction; however, long-term cold joints can have serious long-term effects.

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Cold Solder Joint

If you find that the light passes through the solder joint easily, you can get assurance of inadequate bonding of solder connections. Besides, you can

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What is a Cold Joint in Concrete? (And How to Fix them!)

The longer the period between the placement of the adjacent layers, the higher the risks of a cold joint. A common sign of a cold joint is a pouring line with different colour tones (refer to the picture below).

May 10, 2026 Hot

What is a Cold Solder Joint and How to Fix or Prevent It

Learn what a cold solder joint is, why it's a problem, and how to identify, prevent, and fix it.

Feb 23, 2026 Hot

Cold Solder Joints: How to Identify, Fix, and Prevent the #1 Hidden ...

Discover what cold solder joints are, how to detect them, and proven methods to fix and prevent failures. This complete guide

Jun 09, 2026 Hot

Correct execution of cold joints during concreting

Learn how to create cold joints during concrete pouring to ensure strong and durable results. Discover techniques, tips, and best practices for effective cold joint formation in your construction projects.

Sep 19, 2025 Hot

Cold solder joints

Imagine a world without technology, where wires hang loose and components fail to connect. The culprit? Cold solder joints—a notorious

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What is a Cold Joint in Concrete? (And How to Fix them!)

A cold joint in concrete is an area or surface with a structural discontinuity caused by the delayed concrete pouring between two layers of concrete. The delayed

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Cold Solder Joints in PCBs: Causes, Effects, and Solutions

However, during the manufacturing and usage of PCBs, cold solder joints are a common issue. This article will delve into the causes, effects, and

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Cold Solder Joint Explained: How to Spot and Fix It

Learn how to identify, fix, and prevent cold solder joints. These hidden defects can cause intermittent failure in electronic circuits.

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What is Cold Joint Concrete | Effects, Tips to Avoid and

Cold joints in concrete can occur for a variety of causes. There is no structural concern if the joint bears compression forces, but it should be avoided

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The Ultimate Guide to Preventing Cold Solder Joints:

Learn how to prevent cold solder joints with our ultimate guide. Master temperature, techniques, and tools for reliable PCB connections.

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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 and

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Non-Destructive Evaluation of Cold Joints in Concrete

This technical note briefly discusses non-destructive evaluation of cold joints in concrete structures. We will review how structural engineers and quality

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Everything You Should Know About Cold Solder Joint

Cold joint- happens whenever the solder doesn't completely melt when soldering. Overheated joint- occurs when the flux on the board is

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Cold Joint in Concrete | Why Important to Know

Cold joint in concrete a structure can be occurred due to the lack of attention of the supervision team or unawareness of the setting time of the concrete.

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Understanding Concrete Cold Joints: Causes, Prevention, And Repair ...

Learn about concrete cold joints: their causes, prevention strategies, and effective repair techniques to ensure structural integrity and durability.

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Reducing pain or swelling in your limbs/ joints by hot and cold ...

This is a form of therapy which involves placing your affected body part in warm/ hot water, followed immediately by cold water. Research suggests that this process has a positive affect on blood flow to

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WhatSoldering | Beginner Place to Learn Soldering

Cold solder joints can cause circuit issues. Learn how to identify and fix them effectively.

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What is a Cold Solder Joint and How Can You Prevent it?

The common soldering error that results in the cold joint is there is no proper heating for both surfaces at the same time or not heating effectively. It

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Red Light vs. Blue Light Therapy: What's the Difference and Which One ...

Blue light may cause slight dryness or sensitivity in some users. Red light rarely has side effects but should be avoided over

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Cold Solder Joint Guide: How to Identify, Fix, and Prevent

Learn what a cold solder joint is, what it looks like, and its causes. Expert engineering guide on how to fix and prevent these defects in PCB assembly.

Jan 03, 2026 Hot

What is Cold Solder Joint and How to Avoid It

Conclusion A cold solder joint can be a nightmare for engineers but say no more because this article has covered it all! From understanding what

Apr 08, 2026 Hot

Is this a cold solder joint and do LEDs dim if it is a cold

Indeed it is cold solder joints, because the solder has not "wet"

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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

Mar 23, 2026 Hot

Cold Joints In Concrete: Causes, Detection, And Prevention

A cold joint in concrete is a boundary between two layers of concrete that have not properly bonded together. This can occur when the second layer is placed before the first layer has

Nov 08, 2025

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