Straight-through cold splice for electrical wires



Overview

Our broad portfolio of electrical joints and splices are made for low, medium and high voltage electrical connections.

Key Takeaways

A straight-through cold splice connects two electrical wires without heat, using pre-stretched insulating sleeves that shrink to form a secure, moisture-resistant joint. What is a Cold Splice? A cold splice is a method of joining electrical wires or cables without applying heat.

Instead of soldering or using a heat gun, cold splices rely on pre-stretched insulating materials such as silicone or polyurethane that shrink around the conductors when a removable core is unwound. This creates a tight, sealed connection that protects against moisture, dust, and environmental contaminants.

Straight-

Through Application

A straight-through cold splice is used to connect two wires or cables in a linear configuration, maintaining electrical continuity without branching. These splices are commonly used in low and medium voltage networks, including underground, outdoor, and industrial installations. They are suitable for cables with PVC, XLPE, PE, or EPR insulation, and can accommodate both single-core and multi-core cables.

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Components and Installation

Typical straight-through cold splice kits include: Mechanical or compression connectors to join the conductors securely. Pre-stretched cold shrink sleeves that provide insulation and environmental protection. Removable core that, when unwound, allows the sleeve to shrink and seal the joint.

Installation steps generally involve: Stripping the cable ends to expose the conductors. Inserting the conductors into the mechanical connector and tightening. Sliding the cold shrink sleeve over the joint.

Removing the inner core to allow the sleeve to shrink and form a tight seal.

Advantages

No heat required, eliminating fire hazards and the need for hot-work permits. Quick and easy installation, reducing labor and downtime. Reliable insulation and sealing, suitable for harsh environments and underground applications.

Versatile, compatible with various cable types and voltage classes. ApplicationsStraight-through cold splices are widely used for: Extending cable runs in power distribution networks. Repairing damaged cables in industrial or outdoor settings.

Connecting telecom, data, or signaling cables where moisture resistance is critical. By using a cold splice, electricians can achieve a durable, safe, and efficient connection without the complexity and risks associated with heat-based splicing methods.

Article Content

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

3M Cold Shrink Splices

3M electrical splices feature cold shrink technology, which is engineered for easy installation by unwinding the inner core. Reduce the time, labor and cost that

3M™ Cold Shrink Splice Kit 5551-3C-AC | 3M United

Each kit contains all the materials (except connectors and optional ground strap)

Amazon : Insulated Wire Connectors

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Shop insulated electrical connectors designed for secure, waterproof connections. Available in various types and sizes for all your wiring needs.

3M Cold Shrink QS-III Splicing Kit Instructions Manual

For CN splices with exposed neutral connections: Carefully bend neutral wires back over binding (wire or tape). Press them against cables and temporarily secure

Wire Splice Connectors | Connectors, Interconnects | DigiKey

Wire splice connector terminals are devices that provide an insulated or non-insulated point of electrical connection for two or more conductors secured by crimping, soldering, friction, screw, IDC or a wire

Cable Joint Kits

Our Cable Joint Kits connect polymeric cables to provide electrical continuity in power distribution across spliced cables. Connecting two lengths of cable, often installed externally, is a highly specialist skill,

Electrical Cable Splices | McMaster-Carr

Choose from our selection of electrical cable splices, including crimp-on butt splices, screw-down butt splices, and more. Same and Next Day Delivery.

Amazon : Wire Connectors

Explore a wide range of wire connectors for automotive, marine, and electrical projects. Find heat shrink, splice, and crimp terminals.

Conductor splices

1. Western Union Splice Application: Used for joining small, solid conductors. Steps: Strip insulation from the wires and clean the conductor. Cross the wires and create long twists. Wrap each wire around

CoolSplice: Wire-to-Wire Splice Connectors | TE

Combine reliability with ease of termination Our CoolSplice connectors are wire-to-wire splices designed to connect discrete wires for a wide variety of indoor and

Wire splice types: selection, tools & waterproofing

Master wire splice types for repairs, outdoor wiring, and Raspberry Pi 5 projects—clear tables, tool list, gauge/AWG picks, and waterproofing steps.

Electrical Joints | TE Connectivity

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TE''s broad portfolio of electrical joints combines technologies from cold to heat shrink, including gel, resin and other insulation materials and offers reliability in harsh environments.

Inline Splice: Cold Shrink, 15-35 kV

TE''s Raychem in-line cold shrink joint (CSJA-1C) for 1/C shielded cable from 15 kV to 35 kV, is designed to splice tape shield, wire shield, LC shield, UniShield, JCN and flat strap shielded cables.

How to Splice Wire: Stripping the Wire & 3 Splicing Methods

There are many ways to splice wires together, from using wire caps to soldering them together. Once your wires are connected, cover the exposed ends with electrical tape or shrink tubes and they''re ready to use. In

Common Methods of Wire Splicing in Electronic

Learn the most common wire splicing methods in electronics, including soldering, crimping, and mechanical connectors for reliable joints.

How to Splice a Cable Wire: Step-by-Step Instructions

When the goal is to extend a wire in a straight line, an inline splice, also known as a butt splice, is employed to maintain the conductor''s straight path. This connection is typically achieved

How to Splice Electrical Wires: A Step-by-Step Guide

Discover how to splice electrical wires safely with our step-by-step guide. Learn essential techniques for splicing a wire using solder and other

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This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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