Lc cold joint parts connection



Overview

3MTM Cold Shrink LC Series Joints use 3MTM Cold Shrink Technology, eliminating the need for resin, heat and special tools, making a quick, simple and reliable installation.

Key Takeaways

LC Cold Shrink Joints are low voltage cable joints that use pre-stretched, heat-free tubes to connect and insulate cables up to 3. 3kV, providing a reliable environmental and mechanical seal.

Components of L

C Cold Shrink JointsLC cold shrink joints typically include the following parts: Cold Shrink Outer Tube: A pre-stretched, elastomeric tube that shrinks over the cable connection when the removable core is withdrawn, forming a waterproof and UV-resistant seal. Insulation Tape: Used to wrap the cable cores and provide additional electrical insulation and mechanical protection. Connection Components: Includes crimp connectors, shearbolt connectors, or terminal lugs for joining copper or aluminum conductors.

Removable Core: A temporary support that holds the tube in an expanded state during installation; removed to allow the tube to shrink over the joint. Cable CompatibilityLC cold shrink joints are suitable for: Cable Types: XLPE/PVC insulated, lead-sheathed, steel wire armoured (SWA), PVC sheathed, rubber, and unarmoured cables. Voltage Ratings: Up to 1.

9/3. 3kV for low voltage applications. Core Configurations: Single-core and multi-core cables, with cross-sectional areas ranging from 1.

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5–300mm² for multi-core and 50–1000mm² for single-core. Special Applications: Marine, offshore, and industrial environments, including emergency lighting, control systems, and fire pump circuits.

Installation Process

Prepare the Cable: Strip insulation and armour as required. Position the Cold Shrink Tube: Slide the pre-stretched tube over the cable joint while it is supported by the removable core. Connect Conductors: Use crimp or shearbolt connectors to join the cable cores.

Remove the Core: Withdraw the core to allow the tube to shrink and form a tight, waterproof seal. Apply Insulation Tape: Wrap additional insulation tape if required for extra protection. AdvantagesTool-Free Installation: No heat, resin, or special tools required.

Environmental Resistance: Resistant to UV, ozone, acids, and alkalis. Mechanical Protection: Provides robust protection for indoor, tray, or confined space installations. Shelf Life: Typically 5 years when stored at 10–27°C and

Article Content

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3MTM Cold Shrink LC Series Joints use 3MTM Cold Shrink Technology, eliminating the need for resin, heat and special tools, making a quick, simple and reliable installation.

Cold Shrink Cable Joints | 3M Cold Shrink Low Voltage Cable 1.9kV

3M LC series of cable joints are designed for use with selected multipair instrumentation cables and flexible or trailing cables. 3M cold shrink range is an effective alternative to traditional resin based or

Cold Shrink Cable Joints and Terminations | TE Connectivity

Cold Shrinkable Disconnectable Joints (CSJD) Designed for 1 core shielded power cable (15 – 28 kV) applications, the CSJD connects tape shield, LC shield, JCN and flat-strap shielded cable to

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The core is removed after the tube is positioned for installation over an inline connection, or terminal lug, allowing the tube to shrink and provide a waterproof seal.

Medium voltage joints, terminations and cable accessories.

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Ever since the installation of the first 3MTM Cold Shrink termination in 1972, we have developed products that deliver market leading efficiencies and reliability to our customers.

Inline Splice: Cold Shrink, 15-35 kV

Question: What type of connectors are included in In-Line Joint Cold Shrink? Answer: Our Raychem In-Line Joint Cold Shrink can be used with both compression or shear bolt connectors for both copper

3M LC3 | Cold Shrink Cable Joint | 10sqmm-16sqmm | XLPE EPR

The following 3M Electrical video demonstrates the procedure for installing 3M LC3 Cold Shrink joints – for further information or to discuss a particular jointing application please do not hesitate to contact us.

3M Cold Shrink Cable Jointing Kits

Cold shrink cable jointing kits are suitable for jointing cables indoor, outdoor, overhead or installed in cable trays - this includes both onshore and offshore

3M Cold Shrink Cable Joint 24.9 To 56.4mm Dia 3M LC4 Cable Joint

The document provides information about 3M cold shrink joints and terminations for low voltage cables, including product codes and specifications for different cable types and sizes that can be used with

3M Cold Shrink Inline Joints for Low Voltage Polymeric Cables

3M™ Cold Shrink LC Series Joints have been designed for multi core Low Voltage Power – Cables up to and including 1.9/3.3kV.

3M LC1 Cold Shrink Cable Joint

3M Cold Shrink LC1 Cable Joint 3M LC1 Cold Shrink Cable Joint Suits: XLPE/PVC/EPR Insulation, Lead Sheath, Steel Wire Armour, Steel Wire Braid, PVC Sheathed for Cables rated 0.6/1kV up to 1.9/3.3kV.

3M LC5 | Cold Shrink Cable Joint | 70sqmm-120sqmm | XLPE EPR

LC5 cold shrink cable joint kit, manufactured by 3M Electrical, is designed for use on XLPE/PVC/EPR, insulation, Lead Sheath, Steel Wire Armoured (SWA), Galvanised Steel Wire Braided (GSBW) and

Datasheet

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Low Voltage - Cold Shrink Joints & Terminations 3M Cold Shrink Joints and Terminations use a series of Pre-stretched tubes, which are factory expanded and assembled onto a removable core. The core is

3M Cold Shrink Cable Joint 24.9 To 56.4mm Dia 3M LC4 Cable Joint

3M Cold Shrink Cable Joint 24.9 to 56.4mm Dia 3M LC4 Cable Joint - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The document provides information about 3M cold shrink joints

3M Cold Shrink Inline Joints for Low Voltage Polymeric Cables

3M™ Cold Shrink LC Series Joints have been designed for multi core Low Voltage Power – Cables up to and including 1.9/3.3kV. Also suitable for some multi pair cables – Designed for flexible or trailing

3M Cold Shrink Cable Joints Inline

This document provides information on 3M''s Cold Shrink LC Series Joints for low voltage polymeric cables. The joints use cold shrink technology to provide a quick and reliable seal without heat or

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.

Related Video Reference

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

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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