Lc elbow cold splice



Overview

The cold shrink splice body is a one-piece molded design made of specially formulated silicone rubbers, while the jacketing is made of EPDM rubber for physical protection.

Key Takeaways

LC elbow cold splices are cold-applied silicone or EPDM rubber kits designed to join or terminate longitudinally corrugated (LC) medium-voltage cables safely and reliably without heat. OverviewLC elbow cold splices are used to connect or repair longitudinally corrugated shielded cables in medium-voltage systems (typically 15–35 kV). These splices are cold-applied, meaning they do not require heat or open flames, making them safer for environments with combustible gases or outdoor installations.

They are suitable for indoor, outdoor, and direct-burial applications.

Materials and Construction

Splice Body: Typically made of silicone rubber, providing high UV resistance, flexibility, and dielectric strength. Jacketing: Often EPDM rubber, offering physical protection and corrosion resistance. Mastic or Sealant: Some kits include mastic strips for additional moisture sealing, especially for elbow-to-cable jacket applications.

Connectors: Compatible with copper or aluminum compression (crimp) connectors or shearbolt connectors for reliable electrical continuity.

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Key Features

Cold Shrink Technology: The pre-expanded tubing contracts onto the cable when the support core is removed, creating a tight, circumferential seal. Active Memory Seal: Maintains tight contact during thermal expansion and contraction, ensuring long-term reliability. Voltage and Temperature Ratings: Many kits, such as the 3M QS4 series, are rated for 35 kV with a BIL of 250 kV and operating temperatures up to 105°C, with emergency overload up to 140°C.

Ease of Installation: No hot-work permits are required, and installation is straightforward with minimal tools.

Applications

Inline Splices: Joining two LC cables in series.

Elbow-to-

Cable Connections: Sealing the interface between a cable and an elbow termination. Size Transitions: Accommodates conductor size changes within the kit's range (e.g., 1/0 AWG to 1000 kcmil),.

Outdoor/

Exposed Environments: UV-resistant silicone and EPDM materials allow use in trackside or direct-burial installations.

Popular Products3

M Cold Shrink QS4 Integrated Splice Kits: Designed for LC, JCN, tape shield, and flat strap cables; rated 35 kV, BIL 250 kV, silicone body with EPDM jacketing.

T

E Connectivity Cold Shrink Splices (CATJ, CSJD, CST): One-piece cold-applied splices for LC and other shielded cables, including integrated stress control and mastic for void filling. DSG-Canusa CSS Series: Cold-applied silicone rubber kits for in-line or elbow-to-cable applications, with optional mastic strips and external ground kits.

Installation Notes

Prepare Cable: Strip insulation and shields according to kit instructions. Install Connector: Use compatible compression or shearbolt connectors. Position Cold Shrink Tube: Slide over the splice area.

Release Core: Allow the tubing to shrink and form a tight seal. Optional Mastic: Apply mastic strips for additional moisture protection if included.

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C elbow cold splices provide a safe, reliable, and maintenance-friendly solution for medium-voltage cable systems, ensuring electrical integrity and environmental protection without the need for heat or complex installation procedures.

Article Content

3MTM Cold Shrink QS4 Integrated Splice Kits 35 kV

The cold shrink splice body is a one-piece molded design made of specially formulated silicone rubbers, while the jacketing is made of EPDM rubber for physical protection.

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

Medium Voltage (MV) Accessories Catalog

It is designed to splice tape shield, wire shield, LC shield, UniShield, JCN and flat strap shielded cables. Compact structure allows for installation in confined areas and requires less cable to be prepared.

Cold Seal Splice Kits: CSS Series | DSG-Canusa

CSS series cold applied splice sealing products are made of specially formulated silicone rubber that offers excellent insulation and moisture proof sealing for in

Cold Shrink Cable Joints and Terminations | TE Connectivity

TE''s line of medium-voltage cold-shrink cable accessories is designed to provide a "holistic solution". This includes disconnectable splices, in-line splices, transition splices, and trifurcating splices, all

Inline Splice: Cold Shrink, 15-35 kV

Our Raychem CSJA-1C In-Line Joint Cold Shrink 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.

LC, Single-Mode OS2, Field Installable Splice Connector

Field-Installable Connectors. The mechanical splicing method uses no epoxy or polishing, requires no special tools for assembly in the field, and offers reusable termination capability.

3M LC4 | Cold Shrink Cable Joint | 25sqmm-50sqmm | XLPE EPR

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3M LC4 cable joint uses Cold Shrink technology for repairing, splicing and jointing polymeric (XLPE EPR) cables eliminating resin handling or exposure to naked flames associated with heat-shrink joints.

CSH Series | Cold Shrink Hammerhead

The Cold Shrink Hammerhead epitomizes this legacy by introducing a truly unique, robust solution for terminating and splicing medium voltage power cable. We''ve

RAYCHEM 16PAGER.pdf

LOW VOLTAGE COLD-APPLIED SPLICES GelWrap Splice Closure 6MIG conveniently insulate and seal buried electrical connections rated to handle the harsh environments of direct burial and

3M™ Cold Shrink QS-III Inline Shielded Cable Splice Kits 5513A,

The 3M™ Cold Shrink QS-III Shielded Cable Splices 5513A, 5514A, 5515A and 5516A Series are 15 kV class inline splices for joining tape shield, wire shield, UniShield® or longitudinally corrugated (LC)

SSC Series

The SSC Series from Richards Manufacturing is a cold shrink splicing system for use on medium voltage power cables through 35kV. Equipped with numerous advantages and features, the SSC Series is

600/900A Deadbreak Elbow

600/900A Deadbreak Elbow The 600/900A Deadbreak Elbow from Richards Manufacturing provides an easy, reliable way to terminate cables and equipment and splice primary cable up to 35kV. The

MEDIUM VOLTAGE

DESCRIPTION The new ElaspeedTM Splice (25% shorter in length) is a low-profile, range-taking, 105°C-operating-temperature cable splice. It is designed to splice tape shield, wire shield, LC shield,

8459/8460/8461/8462 Shield Adapter Kit

600A Moudular Splice Elbow Loadbreak 2.8 Align edge of Cold Shrink rubber tube (not core) with step 9 (Figure 8and 8b). Remove core by pulling while unwinding the core counter-clockwise. Figure 8a 2.9

Elastimold Underground Cable Accessories | ABB

Elastimold''s brand''s long, innovative history includes pioneering such products as extended, repair, and jacket seal elbows Elastimold''s accessories, available from

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How to Install LC Cold Splice Connector (Step-by-Step) #shorts # ...

No splicing needed! This step-by-step tutorial shows you how to easily install an LC cold splice connector with professional results. Perfect for FTTH projec...

15/25 kV Deadbreak T Body Elbows for Metallic Tape Shielded Cable ...

15/25 kV Deadbreak T Body Elbows for Metallic Tape Shielded Cable Installation Demo Prysmian North America 732 subscribers Like

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

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