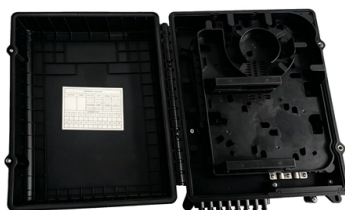


How to use a cold-joint straight-through type



Overview

Learn how to install Axis's heat shrinkable jointing kits for 11kV Tape Shield 3-core XLPE Insulated Cables.

Key Takeaways

Cold-shrink straight-through joints are installed by preparing the cable, positioning the pre-expanded silicone joint, and gradually removing the holdout tube to allow the joint to shrink securely onto the cable.

Cold-shrink straight-through joints are used to connect two medium-voltage cables in a straight line, maintaining electrical insulation and mechanical protection. They are pre-expanded silicone rubber bodies mounted on a removable plastic or spiral holdout tube, which allows for tool-free installation and consistent radial pressure on the cable. These joints are compatible with specific connectors from the same manufacturer and are designed for indoor, outdoor, underground, or submerged applications.

Step-by-Step Installation

- Cable Preparation
- Strip the cable insulation, semi-conductive layers, and shielding according to the joint manufacturer's instructions.
- Ensure the conductor ends are clean and free of oxidation.
- Measure and mark the correct lengths for the joint body and connectors.

- Connector Installation
- Attach the mechanical or compression connectors to the cable cores.
- Ensure a secure and electrically sound connection, as cold-shrink joints rely on proper conductor contact .
- Positioning the Cold-Shrink Joint
- Slide the pre-expanded silicone joint over the prepared cable ends while it is still on the holdout tube.
- Align the stress cones and conductive layers with the cable shielding and connectors to ensure proper electrical stress control .
- Removing the Holdout Tube
- Gradually pull the holdout tube out, allowing the silicone body to shrink tightly around the cable.
- Ensure the joint body fully covers the connectors and cable insulation, forming a continuous seal .
- Final Inspection and Securing
- Check that the joint is evenly seated with no gaps or voids.
- Apply any additional mastic, tape, or overwrap if recommended by the manufacturer for extra moisture protection .
- Verify that the joint is mechanically stable and electrically insulated before energizing the system.

Advantages of Cold-Shrink Joints

- Tool-free installation reduces labor and risk of errors.
- Consistent radial pressure ensures long-term insulation and moisture resistance.
- High dielectric strength and low-temperature recovery make them suitable for harsh environments .
- Can be used in limited or difficult work conditions where heat-shrink or cast-resin joints are impractical .

Safety Considerations

- Always follow manufacturer-specific instructions for cable preparation and joint installation.
- Ensure the joint is compatible with the cable type and connector brand.
- Wear appropriate personal protective equipment (PPE) when working with medium-voltage cables.
- Test the joint for insulation integrity before energizing the system. By following these steps, a cold-shrink straight-through joint can be installed efficiently, providing a reliable, long-lasting connection for medium-voltage cable systems .

Article Content

Straight Through Jointing Kit

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HT Cable Straight Through Joint Procedure Part -2,

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Straight Through Joint Installation Explained!

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Inline Joint: Cold Shrink, Straight up to 42 kV

Answer: Yes, our Raychem Cold Shrinkable Straight Joints can be installed with compression or shear bolt connectors; you need to

How to Install Straight-Through Cable Joints With Connectors?

Inadequate or improperly applied insulation can leave straight-through cable joints with connectors vulnerable to moisture ingress

cold joints Topic

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Cable Terminations

Various types of cable jointing systems and termination kits are available today, designed to

Cold Solder Joint: Understanding and Prevention

A cold solder joint is a defect caused by improper melting of solder to bond PCB electronic components. This defect

Cold Welding Explained: What is it? How It Works

Cold welding joins metal at ambient temperatures without heat or electrical current flow in the joint. Applying force to

Types of Beam Column Joints | Beam Column Joint Detailing

For interior joints, both the top and bottom beam bars must pass through the joint without any cuts. Also, the bars should be

Cable Joint Types & Applications | RS Australia

1. Straight-Through Joints Straight-through joints are designed to connect two lengths of cable with the

Cold Joints in Basement Walls: Waterstop Retrofits and "Outside

What practical techniques can I use to install a waterstop in a cold joint from the inside or outside? From the outside, clean the joint,

RAYCHEM 11KV CABLE JOINTS, 11KV JOINTS, 11KV PILC XLPE

The Universal 11kV Cable Joint is essential if cable type is uncertain until cable excavation or during shutdown - Universal 11kV

Scotchcast™ Cable Jointing Kits | 3M South Africa

High mechanical stress, changing temperatures, application underwater and underground: jointing kits must resist the highest levels

Eiae unit 4 jointing of cables1 | PDF

The main types of joints discussed are straight through joints, branch joints like T-joints and Y-joints, pot end joints, and

33kV Cable Joints 3 Core XLPE Heat Shrink Straight Joint Kits

33kV cable joints use heat shrink tubes and suit 33kV cables with 16sqmm to 300sqmm 3 core conductors (copper Cu and

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