How to connect a 3M cold splice

Overview

View and Download 3M Cold Shrink QS-III Splicing Kit instructions manual online. Cold Shrink QS-III Splicing Kit cables and connectors pdf manual download. Also for: 5467a-we.

Key Takeaways

To connect a 3M cold splice, prepare the cables, install the connector, handle neutral wires, and carefully apply the cold shrink tube over the splice body for secure insulation. Step 1: Prepare the CablesDe-energize and ground all electrical systems before starting. Verify that the cable size fits within the splice kit's insulation outer diameter range.

Remove the cable insulation according to the connector type: typically 1/2 connector length plus allowance for crimping, not exceeding 2 1/2" (64 mm) for most crimp-type connectors. Clean the cable surface using a cable cleaning pad; avoid solvents or abrasives on the semi-conductive insulation shield. Step 2: Install the ConnectorSelect the appropriate connector for the conductor material (copper or aluminum) and size.

Insert the prepared cable ends into the connector and crimp according to manufacturer specifications. Apply a tape marker on the semi-conductive insulation shield to indicate the splice location. Step 3: Handle Neutral Wires (for JCN or CN Cables)For Jacketed Concentric Neutral (JCN) cables, route neutral wires straight across the splice body and secure with vinyl tape.

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Wrap the neutral pad over one end of the splice and cable semi-conductive layer, securing with two wraps of vinyl tape. For Concentric Neutral (CN) cables, bend neutral wires back over the binding, press against the cable, and temporarily secure with vinyl tape. Step 4: Apply Cold Shrink TubeSlide the cold shrink tube over the splice body, starting with the loose core end.

Slowly unwind the inner core counterclockwise while keeping the outer core stationary. If the outer core moves, gently adjust it toward the second mastic seal. Ensure the splice body ends overlap the semi-conductive layer of each cable by at least 1/2" (12.

7 mm). Avoid pushing the splice body toward the tape marker to prevent rolling under. Step 5: Shielding and GroundingCenter the expanded shield sleeve over the splice body and hand-tighten from the splice center outward.

Connect the shield sleeve to the cable metallic shield using vinyl tape and constant force springs. Trim excess sleeve 1/2" (13 mm) from the springs and wrap two layers of stretched vinyl tape over the springs. If grounding is required, connect a ground wire to the pre-installed ground braid and secure with mastic strips and tape as instructed.

Step 6: Final InspectionVerify that the cold shrink tube is fully seated and that all neutral wires, mastic, and shielding are properly secured. Ensure there are no air voids or exposed conductors. Confirm that the splice is mechanically stable and electrically insulated before re-energizing the system.

Following these steps ensures a reliable, moisture-resistant, and electrically safe connection using a 3M cold shrink splice.

Article Content

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3M Cold Shrink Splices: Splices to Fit All Electrical Cable Systems

While splice design plays an important role in splice reliability, there are other factors that are essential such as cable preparation and proper training. 3M ofers training on why cable preparation is so

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Slide jacketing tube onto one cable end. Slide splice body onto opposite cable, loose core end first. For size transitions, park splice on smaller cable (Figure 10). Note: Jacketing is not optional. Cold shrink

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Watch this step-by-step application video on how to install a 3M™ Cold Shrink QT-III Silicone Rubber Skirted Termination. For more tips, go to: scien...

3M Cold Shrink QS-III Splicing Kit 5776A-MT Instructions

Carefully slide the splice body off the marker tape by pulling and twisting until the entire marker tape is exposed. Continue removing the core to complete splice body installation.

3M Cold Shrink Cable Splice Kit

This is a very easy to install cable splice kit that is an excellent choice for underground applications. The cold shrink wraps around the cable providing a weather rated install.

3M Cold Shrink QS-III Splice Kit 5467A-WG, 1/0 AWG-350 kcmil

Continue removing core to complete the splice body installation. Note: The splice ends must overlap onto the semi-conducting layer of each cable, 1/2" (13 mm) minimum. Note: While removing

How To Apply 3M Cold Shrink Tubing – Underground Cable Joints

This video by 3M Electrical shows how to apply 3M Cold Shrink tubing safely for underground cable jointing processes and applications.

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5.5 Position the splice body over connector area, aligning end of the splice body (not the core) at the center of the tape marker. Slowly start to remove the splice core by pulling and unwinding the loose

3M Cold Shrink QS-IIISplicing Kit 5777A-MT

* Splices (including size transitions) can be made to smaller or larger conductors, provided both cables are within the Insulation O.D. Range and the connector meets the dimensional requirements shown

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* Splices (including size transitions) can be made to smaller or larger conductors (but larger conductors may require special neutral handling), provided both cables are within the Insulation O.D.Range and

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Cold Shrink Low Voltage Inline Splice Kits 5730/5731 For use with 3/C or 4/C Armor Power Cable (TECK-90) up to 1000 Volts

3M Splice Kit 5551-3/C-AC

3.2 Begin to install the cold shrink jacketing tube by completely covering the rubber mastic, slowly pulling and unwinding the inner core counterclockwise towards the open splice area.

7 Best Fiber Optic Termination Kit | End-Face Flat

The kit is designed for cold-connect (mechanical splice) termination workflows common in FTTH builds. The included SC and FC connectors and the cold

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5.5 Position the splice body over connector area, aligning end of the splice body (not the core) at the center of the tape marker. Slowly start to remove the splice core by pulling and unwinding the loose

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5.0 Connect Copper Shield Sleeve 5.1 Position the Copper Shield Sleeve over splice opening as shown in Fig. 6. This will provide armor continuity. 5.2 At each end of the exposed armor, wrap several

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Product Description The 3MTM Cold Shrink QS-III Splice Kits 5535A and 5536A are 35 kV-class inline splices for tape, longitudinally corrugated (LC), wire and UniShield® shielded power cables. They are

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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