

# FAQs

FREQUENTLY ASKED QUESTIONS SPONSORED BY SOUTHWIRE COMPANY, LLC

## **Saving Time and Money Wiring Ductless Mini-Splits**

### **Q. How can contractors make wiring ductless mini-splits more efficient and cost-effective?**

One of the best ways to minimize installation time and maximize efficiency when installing ductless mini-splits is to use wire/cable designed specifically for the task. Southwire's EZ-In™ Mini-Split cable is specifically designed to be used with mini-split systems and meets all code requirements.

EZ-In™ Mini-Split cable has stranded bare copper THHN/THWN conductors with PVC insulation and a Nylon jacket cabled together with an aluminum interlocking armor applied over the assembly. It is moisture resistant, sun-light resistant and flame retardant, with a PVC jacket applied over the armor.

EZ-In™ Mini-Split cable is designed to be durable and easy to use on either side of the wall. The cable has a protective outer coating and eliminates the use of conduit or cable trays/raceways for mini-split installations.

EZ-In™ Mini-Split cable is available in both shielded and non-shielded configurations. The shielded construction allows for protection

from electrical noise when running mini-split cable alongside power cable and blocks electrical interference from occurring between the two side-by-side cables.

### **Q. How can contractors ensure solid connections in the mini-split wiring?**

The best connectors for EZ-In™ Mini-Split cable are those designed to work with mini-split solutions in mind. The liquid-tight, steel and zinc plated connectors fit perfectly with the EZ-In™ Mini-Split cable and EZ-In™ Shielded Mini-Split cable and offer a compact profile for easy installation with many different types of equipment.

Making connections is even easier with cutters and wire strippers designed specifically to work with shielded mini-split cable. The jacket scorer/cutter, rotary cutter and wire strippers constructed specifically for use with the mini-split cable make quick work of removing the PVC insulation, armor and wire insulation. Proper tooling also reduces the opportunity to damage internal wires, which could lead to improper functioning and wiring safety concerns.

## Q. How are connections made with EZ-In™ Mini-Split cable?

Making the proper connections is easy with the right tools. The cable must be properly prepared for a connection. The first step in making a connection with EZ-In™ Shielded Mini-Split cable is to use a jacket scorer/cutter to score and remove the outer cable PVC insulation. The second step is to cut back the armor shielding to the proper length using a rotary cutter. Simply lay the cable in the rotary cutter, secure it and rotate the handle to make a perfect cut. The armor can then be easily twisted off with your hands or with a plier tool. The last step is to strip the individual wires back to the proper length using wire strippers.

## Q. What are the most common mistakes contractors make when wiring ductless mini-splits?

Installation errors can occur during the wiring process, and those possibilities increase exponentially when using the incorrect cable types or not protecting cables with appropriate conduit or raceway protections per the NEC code. The reliability and durability of all the components in a mini-split installation are crucial. That especially includes the wiring.

Many types of cable or wire are not acceptable for installation in wet conditions. Outdoor cabling must be protected with liquid tight cables or conduit and secured with a liquid tight connector.

In cases where electrical interference can result with other cables or wires, a shielded configuration can eliminate the problem. EZ-In™ Shielded Mini-Split Cable's shielded construction allows for protection from electrical noise when running mini-split cable alongside power cables and blocks electrical interference from occurring between the two side-by-side cables.



 **Southwire**®

## HVAC Solutions: EZ-In™ Mini-Split Cable installations made easy



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[hvac.southwire.com](http://hvac.southwire.com)**