

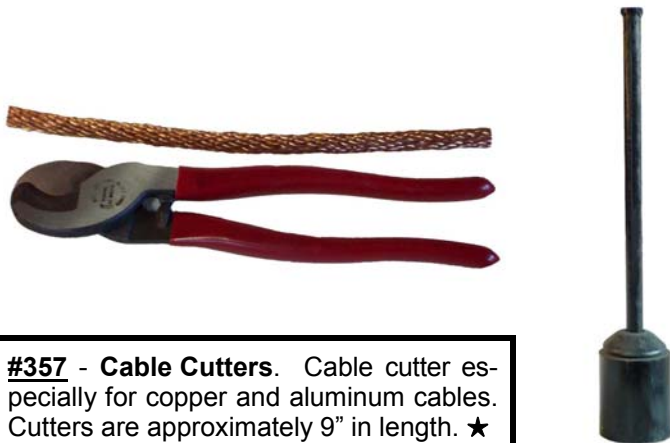


Specialized Tools

Following are some specialized tools that are helpful in the installation of lightning protection equipment. Many common tools, such as Channel Locks®, hammers, screwdrivers, wrenches, etc., are likely available in your inventory. These additional tools will provide you added assistance as they are specially geared for our equipment.



#354 - Collapsible Cable Stand. Our stand is made entirely of steel but still is light, sturdy and durable. The stand is a big aid for small and large jobs as cable is unwound from the spool. Unit weight is approximately 9 lbs. ★



#357 - Cable Cutters. Cable cutter especially for copper and aluminum cables. Cutters are approximately 9" in length. ★

#365 - Ground Rod Driver. Driver is designed for driving ground rods into mother earth. Is much easier and safer to use than a sledge hammer. Handle is a hollow pipe and slides up and down the rod. Driver is approximately 25" in length and weighs about 19 lbs. Our ground rod drivers offer a cost effective alternative to more expensive electric drivers. ★



#369 - Point Levels. Is satisfactory for any of our points. Is small enough to carry in your pocket. Level is made of aluminum. ★

★ Denotes normally stocked item available for shipment within 48 hours. Items not stocked are available within 14 days.



Independent Protection Co., Inc.
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 Ph: 574.533.4116 or 800.860.8388
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Ground Resistance Tester



#383 - Tester is used for measuring the resistance of a grounding electrode or ground rod. The tester will provide the user with a three point fall of potential ground resistance field test for projects and installations where this is required. Unit is very compact, battery powered and comes in a convenient soft-vinyl carrying bag. Complete instructions are provided by the unit's manufacturer. ★



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Adhesive Requirements

IPC offers two types of adhesives for fastening bases and cable fasteners to various surfaces. Please note that prior to placement, all surfaces should be cleaned of loose dirt, dust and particles. After adhesive is applied and the part is placed on the roof surface, allow 24 hours set up time before placement of air terminals or cable. A gallon of adhesive will provide coverage for approximately 50-60 bases or 150-200 cable fasteners. Product is ready to use with no premixing necessary. These adhesives are **not** intended for rubber roof applications.

Due to the various types of roofing options available within the construction industry, we suggest that you contact the roofing materials manufacturer for their help in selecting the right adhesive. With their assistance, you can determine the best adhesive product to use in conjunction with the roofing surface. Securing the right product for the application will also eliminate any worry about warranty issues because the wrong adhesive was used.

#172 - Roof Adhesive. Suitable for attaching any paste down bases or cable fasteners to asphalt or built-up roof applications. Available in gallon cans. Approximate weight is 10.5 lbs. ★

#172X - Construction Mastic. Suitable for attaching bases and cable fasteners to metal, limestone, concrete wood or similar surfaces. Available in gallon cans. Approximate weight is 9.6 lbs. ★

#172XQ - Construction Mastic. As above description except in quart size cartridge. Approximate weight is 2.5 lbs. ★

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ThermOweld® - Exothermic Welding



In some commercial or industrial applications, engineers or the owners may request exothermic welding connections versus the conventional bolt-type connections. For these situations, we recommend the ThermOweld® (TM) process.

The ThermOweld® electrical connection process is a simple, efficient method of welding copper to copper or copper to steel. No outside source of power is required when using ThermOweld®. ThermOweld® connections use the high temperature of reaction of powdered copper oxide and aluminum. The reaction takes place in a semi-permanent graphite mold (ThermOweld®) that last for fifty or more welds if properly care for. The ThermOweld® reaction takes place in a very few seconds, therefore the total amount of heat (calories or BTU's) applied to the conductors or surfaces is considerably less than that employed in brazing or soldering. This is an important consideration when welding to insulated cable or thin wall pipe.

ThermOweld® is ideal for field use, since it is light and portable and requires no outside power source. It requires very little time or skill to obtain an efficient, maintenance free electrical connection when using ThermOweld®.

The ThermOweld® connection is a molecular weld. The weld metal has the same melting point as copper. Because of these factors, along with the increased cross section of the connection, ThermOweld® connections:

1. Will not be affected by a high current surge. Tests have shown that the electrical conductor will melt before the ThermOweld® connection when subjected to high short circuit current. Consult I.E.E.E. Standard 837-1989.
2. Will not loosen or corrode at the point of weld. There are no contact surfaces or mechanical pressures involved. A ThermOweld® connection becomes an integral part of the conductor.
3. Have a current-carrying capacity equal to or greater than that of the conductors.

For additional information related to using this process and equipment needs, please contact our engineering department who can provide assistance. Because of the number of connection types and cable sizes available, our engineering team will be able to select the right products for the job. We have an inventory available on the most commonly used items and special ordered items normally arrive within 10-14 days. If you require an expedited delivery, just let us know and we will be glad to work with our vendor.



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