

Technical Bulletin

To: Irrigation Professionals

Date: August 5, 2010

Subj.: Grounding, Bonding and Shielding



Paige Electric is pleased to announce two major improvements in its recommendations for Grounding, Bonding and Shielding. We are happy to announce the Insulated Conductor Ground Plates™ (ICGP™.) Attached are product and application details for these innovative new products. **Patent Pending.**

The products and methods Paige introduced 14 years ago, and refined over the years, have saved the industry millions of dollars in reduced cost from lightning and surge damage. We recently learned (although we have never experienced this problem with our products) that in some rare instances, the copper wire attached to copper ground plates can experience premature corrosion where there is a drastic change in soil or soil amendment composition. We will be issuing a "White Paper" to explain the science behind this phenomenon soon.



The ICGP™ also solves certain issues associated with measuring earth ground resistance when bare copper grounding and bonding wires are within a single electrical conduit at the controller location. It is impossible to measure the earth resistance of the individual electrodes if the electrode ground wires are in contact with the bonding wires.

The ICGP™ incorporate a copper wire with a special insulation, green with yellow stripes, 0.030" thick. The photo to the right shows the typical connections at the irrigation controller. To read the ground resistance to the ground rod and/or the ground plate, it is simply necessary to loosen the set screws of the bus bar and slide the wires that should not be connected out of the way. This wiring method also has a **Patent Pending.**

Please don't hesitate to call us if you have any questions.

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