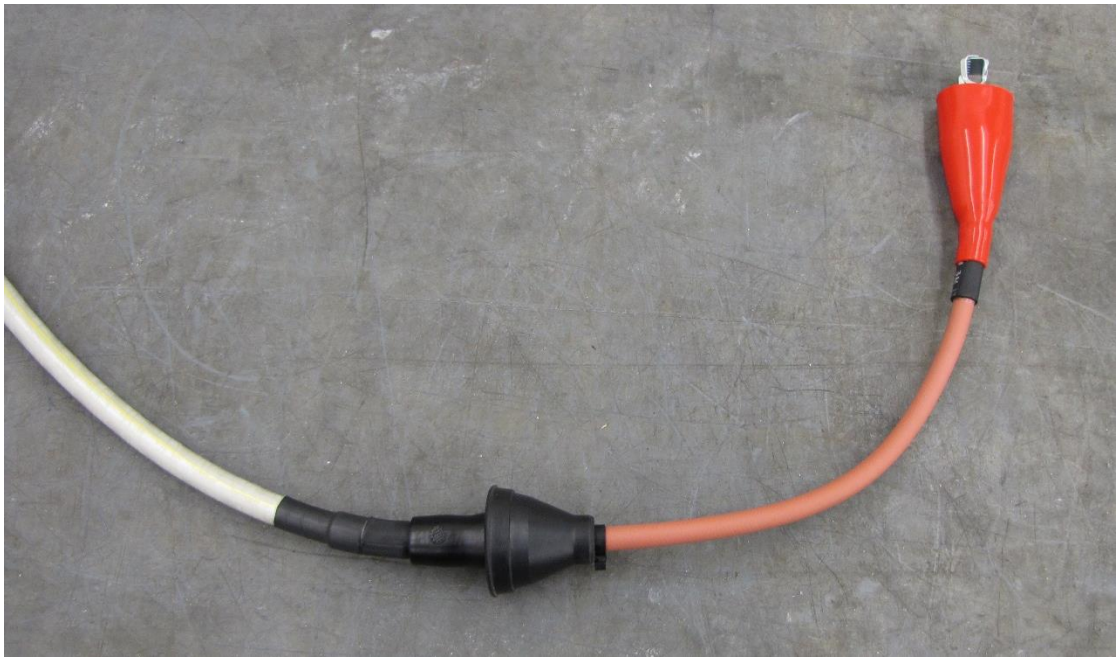
Output Cable Precautions

At HVI we make various hipots and other high voltage devices. Some of them have an output cable constructed from shielded X-Ray cable or other types of shielded cable. The cable shield is present for the full length of the cable, except for the very end, where it is terminated and an exposed length of unshielded cable is visible along with a battery clip and boot.



It is important to treat the entire unshielded (pink) part of the cable as if it was at high voltage. Never lay the pink insulation across a grounded surface or there is danger of insulation puncture. Also note that the white part of the cable is a plastic jacket layer over the grounded cable shield. Do not lay the pink part across the white part either.

Sometimes, for diagnostic purposes you want to test-the-tester and operate to full voltage with no connection to a test object. To do this you should support the cable from the shielded side of the stress cone (the white part of the cable), allowing the entire pink part and boot and clip to hang freely in the air.

The length of the pink part varies with voltage rating and one end is at high voltage while the other end is at ground. When connecting to your test object it is important that you correctly route the cable so that the unshielded part does not contact grounded parts and the shielded part does not contact high voltage parts.

At High Voltage, Inc. we are happy to discuss this and any other topic. Call us (East coast US business hours) at 518-329-3275 or e-mail sales@hvinc or send a request through our web site.