

APPLICATION NOTE



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NOTEWORTHY SAFETY FEATURES IN THE LATEST KURTH TEST AND TRACE PRODUCTS



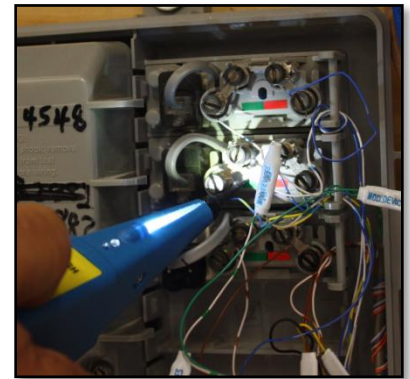
High on the list of priorities for companies doing installation and maintenance of communication facilities is user safety, and safety has featured strongly in the latest round of products from Kurth Electronic.

User Safety

Visibility in dim light: All of our probes have a bright, color-correct headlight. Many communication spaces are dimly lit, but with a press of the button a user can have confidence in knowing exactly where the probe tip is and what color the wires are.

No touchable electrically active metal parts on the probe: There are no exposed metal contacts connected to internal electronic circuits. The probe uses an insulated headset jack instead of butt set contacts.

Surviving accidental contact with high voltages: With a 500 V rating the Kurth 700 and 800 series of testers will survive contact with AC power, repeater voltage and powered communication cables. Such voltages normally would at least damage a small tester and at worst cause arcing while in the user's hand.



High voltage warning: It isn't enough to protect the tester from damage -- the Kurth testers also have a high voltage warning light to alert the user to the presence of an unexpected hazard. One light comes on for normal telephone voltages and a second light if the voltage exceeds 90 Vdc. At 100 V a beeper sounds.



Safety-rated test clips can be used: The 4 mm 'banana' plugs on the test leads of the 700 and 800 testers are compatible with a wide range of safety-rated clips. Many standard test clips leave exposed metal when attached to the tested circuit. These clips are commonly available because they are widely used in the electrical test industry.

Not to forget **Service Safety:** One result of inadvertent connection of test equipment to communication circuits can be that the service on the circuit can be interrupted. The Kurth testers are safe to use on high speed digital circuits including DSL – there is no effect on the transmission or on any power carried on the wires.