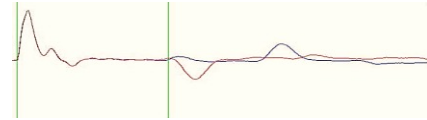


Application: Cable Fault Locating



Application Description & Equipment Considerations

Many faults occur throughout the year. How quickly they are found depends on the quality of the equipment used, the methodology, and the skills of the locator. Some faults may be in 5 kV cable close to the surface and easy to find, some may be in URD 15 kV cable installed in ways making fault locating difficult, and some may be in 35 kV or 69 kV cable requiring higher voltages and higher joule ratings to locate along with a superior acoustical/electro-magnetic listening device. A TDR/Radar unit is usually helpful to pre-locate the fault, saving hours of walking the line and minimizing further damage to the system by limiting the thumping time. If it's a Network system, don't be stuck opening and pumping out manholes to listen for the bang. The proper thumper and magnetic, above ground, fault detection device is essential. **HVI has it all.**

Cable faults are inevitable. Make finding them as efficiently as possible by arming your crews with the proper tools needed to get the job done fast. Don't handicap their fault finding efforts by buying inferior equipment to save money. Choose a thumper and its accessories with the capabilities to do the job; like **variable output voltages, multiple thump voltages, high joules and fault burning current**, and an integral **TDR/Radar interface filter**. Finish with a quality acoustical and magnetic listening device, and other features needed to get any fault finding job done fast with operator ease, and while minimizing additional damage to your system from repeated, excessive voltage thumping. The right tools are key for any critical job.

Ideal Solution

HVI offers complete thumpers with all the features needed to get the job done in most situations. **Don't be outgunned** by using a mini or suitcase type thumper that lacks power and voltage, or a larger thumper but with limited controls and no hipot/burner, or a thumper with only one output voltage forcing one to thump at too high a voltage, or a battery unit that isn't charged when you need it and runs out too quickly anyway, or an impressive looking automated thumper operated by an LCD touch screen but can't be figured out by the operators. **Go back to the basics: simple operation, high joules, 2 or 3 voltage outputs, high mA cable fault burner, and a quality listening device.** Maybe include a **VLF hipot** as well.

HVI Products & Approaches

HVI thumpers are full featured designs containing all the tools needed to find most faults fast. You may have to turn a knob and push a button instead of programming on a touch scene, but it's easy and fast. Our models are shown below and can be seen in greater detail on the **CDS Series** Thumper home page and other application information offered by HVI.



CDS-2010U

Output Voltage: 0 - 5/10/20 kV
Burn Current: 400 mA
Energy: 1000 joules
TDR/radar ready



CDS-3616U & CDS-3632U

Output Voltage: 0 - 9/18/36 kV
Burn Current: 280 mA
Energy: 1600 or 3200 joules
TDR/radar ready



VT33 VLF Thumper

VLF: 0 - 33 kV AC @ 0.1 Hz
Thump: 0 - 13 kV @ 760 joules
VLF Cable Burner
TDR/radar ready



Cable Test/Fault Locate Pkg.

Instant trouble truck. Any product combination is possible to meet your test & repair needs in one package. VLF, Tan Delta, Thumper, TDR, cable reels, Data Logger, Pinpoint Device etc.