



Questionnaire: Cable Testing and Fault Locating

High Voltage, Inc. is making a renewed effort to serve your applications for cable fault locating and cable testing. HVI produces several of the top products available for these two areas. For example, our unique model VT33, a Very Low Frequency (VLF) AC Hipot-Thumper combination, is ideally suited for URD cable systems. This model provides a 0-33 kVac @ 0.1 Hz VLF output for testing cables after installation or repair, a 13 kVdc @ 860 joule thumper output, and a built-in TDR interconnect filter. HVI also offers several other thumper models: 0-5/10/20 kV @ 1000 joules and 0-9/18/36 kV @ 1600 or 3200 joules.

To best help you and to help us fine tune our line to meet your needs, we ask you to please answer the following questions. The answers you provide will help us to better serve you and the industry. Cable fault locating should never be about just buying a thumper. Rather, it should be approached with both testing and fault locating in mind, the different product technologies needed, and how best to combine these technologies and products into an integrated system designed to maximize the effectiveness of these instruments while minimizing the size, weight, cost, and portability of the system. HVI does this very well.

Thank you for your consideration of High Voltage, Inc. and for your time with this questionnaire. If you have any questions, please contact us at marketing@hvinc.com.

Your Company Information

Company	<input type="text"/>	Name	<input type="text"/>	Title	<input type="text"/>
Address	<input type="text"/>	City/St.	<input type="text"/>	Zip Code	<input type="text"/>
Email	<input type="text"/>	Web	<input type="text"/>	Phone #	<input type="text"/>
Misc. Info.	<input type="text"/>				

Present Hardware and Methods Used **required*

1. Do you now have a cable fault locator, or thumper? *

Check one

YES NO

2. If YES, what brand is it?

Model number?

How old?

<input type="text"/>	<input type="text"/>	<input type="text"/>
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3. What is the thumper voltage output?

Check one

- 5-10 kV 11-15 kV 16-20 kV 21-30 kV 31+ kV

4. What is the thumper joules rating?

Check one

- 0 - 500 501 - 1000 1001 - 2000 2001 - 3000 3001+

5. Does it have a variable hipot output to test or burn the cable?

Check one

- YES NO

6. If yes, what is the mA current rating?

Check One

- 1 - 20 21 - 50 51 - 100 101 - 200 201 - 400 401+

7. Do you use the variable hipot for DC testing the cable?

Check one

- YES NO

8. Do you use a TDR/radar to find the distance to the fault? If yes, what brand

Check one

- NO TDR/Radar YES - Brand Name

9. What kind of listening, or pinpointing, device do you use?

10. Do you ever use the small suitcase thumpers, or Sectionalizers? *

Check one

- YES NO

11. If yes, do you find they have enough power to find all your faults?

Check one

- YES NO

12. If the mini-thumper can't do the job, do you have a bigger thumper to use?

Check one

- YES NO

13. Are you happy with your present situation?

Check one

- YES NO



Cable System Facts

14. What are the voltage ratings of your system?

15. How many miles of underground cable is in your system?

16. How much of it is direct buried?

17. How old is the system? What are your oldest cables still in operation?

18. What kind of insulation is mostly used?

Check all that apply

PILC HMW EPR XLPE TR-XLPE Other

19. If "Other", what brand?

20. Do you have any unjacketed cables?

Check one

YES NO

21. Do you inject, or rejuvenate, cables to extend their life?

Check one

YES NO

Fault History

22. How many faults a year, or a month, do you have?

23. Are most faults in accessories or in the insulation?

Check one

Accessories Insulation

24. Do you find your faults in an acceptable time frame?

Check one

YES NO



25. Are you considering changes to your equipment and/or methods?

Check one

YES NO

26. What kind of cable testing do you do?

[Redacted]

27. What kind of product is used?

[Redacted]

28. Is your present method acceptable to you?

Check one

YES NO

29. When you install new cable, do you perform acceptance testing to make sure the installation was not flawed?

Check one

YES. DC hipot YES. hot stick adaptor YES. insulation resistance YES. VLF AC withstand NO

30. After a repair is made, what is done to verify the integrity of the cable, and the adjacent cables, before re-energizing?

[Redacted]

New Area of Testing - Concentric Neutral Corrosion Testing

Do you have problems resulting from corroded neutrals, like system voltage instability, stray currents in unwanted or dangerous places, return currents not returning, fault relay coordination disrupted, fault currents jumping to other underground utilities or to homes, etc?

31. Do you wish you had a way to measure your neutrals' integrity?

Check one

YES NO

Thumper Specification Questionnaire – What Would Your Ideal System Have

32. Maximum voltage output?

[Redacted]

33. Several output voltage taps?

Check One

YES NO

34. Joule/energy rating?

[Redacted]



35. DC hipot output for cable testing?

Check one

YES NO

36. AC VLF high voltage output for cable testing?

Check one

YES NO

37. Battery operation?

Check one

YES NO

38. TDR/radar operation?

Check one

YES NO

39. Built in TDR or remote?

Check one

Built in Remote

40. Types of fault location?

Check all that apply

Arc reflection Current pulse Voltage decay Other

41. Packaging requirements?

42. Standalone or built in?

Check all that apply

Portable Thumper Built into a van

43. Is there anything else we haven't covered that you want to share about your company's cable testing and fault locating needs?

If you would like an HVI product specialist to contact you for further discussion, please include your preferred method of contact below.

