

# ***CABLE FAULT LOCATING***

## ***APPLICATION GUIDE***

[www.hipotronics.com](http://www.hipotronics.com)





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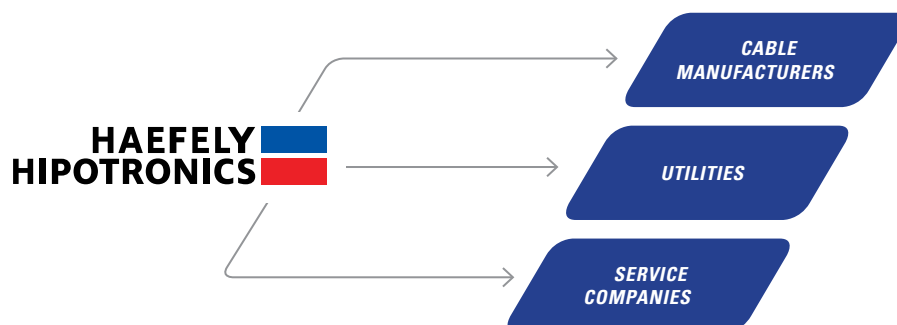
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## MARKET SEGMENTS

### CUSTOMER BASE FOR CABLE FAULT LOCATION

HAEFELY HIPOTRONICS aims to provide a wide variety of high voltage test solutions to customers such as manufacturers of high voltage equipment, utility companies, maintenance & service companies, government and military, etc.

Our cable fault locating product line has been tailored to the wants and needs of this large customer base. Continuous product improvement is made possible thanks to the detailed feedback we receive from our many great customers in the industry. These working relationships give us the reputation as the go-to provider of cable fault locating equipment in the field.



## PRODUCT LINE OVERVIEW

Utility line crews, maintenance technicians, and equipment manufacturers rely on the HAEFLY HIPOTRONICS cable fault locating line to pinpoint faults in underground power cable quickly and effectively.

With our up-to-date Time Domain Reflectometry (TDR) method and high voltage capacitive discharge units, precise pinpointing of cable faults is easy. Each product offers easy operating features which minimize user training and reduce excessive damage to the cable under test. See our full range of cable fault locating tools and equipment below.

	TDR SERIES	CF SERIES	CET SERIES	5250 SERIES	X-WAVE	WB20 CB	PTC SERIES	FLASHPHONE	800 SERIES
<b>FAULT PRE-LOCATION</b>	•			•	•				
<b>FAULT PINPOINTING</b>							•		
<b>FAULT BURNING</b>		•	•						
<b>ACOUSTIC / BALLISTIC LISTENING DEVICE</b>							•		
<b>OPEN &amp; SHORT LOCATING</b>	•	•	•	•	•	•			
<b>PHASE TRACING</b>							•		
<b>DC HIPOT TESTING</b>		•	•						•

## ROBUST AND POWERFUL

Scan the image using your smartphone to get access to more testing information on cable fault locating.





# VEHICLE-MOUNTED FAULT LOCATORS

	VOLTAGE LEVEL			CURRENT BURN LEVEL		
	0 - 30 kV	≤ 70 kV	> 70 kV	0 - 50 mA	≤ 100 mA	≥ 160 mA
<b>CF30</b>	•		FOR HIGHER VOLTAGE / ENERGY REQUIREMENTS  <b>Please consult factory.</b>	•		
<b>CF70</b>	•	•		•	•	
<b>CET2000</b>	•			•	•	•

## EASY TO OPERATE

- ✓ Designed for use in large metropolitan networks
- ✓ Variable high voltage output
- ✓ Easily mounts to truck
- ✓ Ideal for use on high voltage power cables



## ACCESSORIES



# PORTABLE FAULT LOCATORS

HAEFLY HIPOTRONICS' line of portable cable fault locators are designed to be used on primary power cables for quick fault detection.

Their simplistic designs and wide range of features benefit users of all experience levels. Read about the new X-WAVE as well as our 5250 Series.

	CABLE CLASS			MAX. ENERGY	
	500 V - 15 kV	≤ 32 kV	350 J	1000 J	2000 J
<b>X-WAVE</b>	•		•		
<b>5250-15</b>	•			•	
<b>5250-30</b>	•	•			•



## X-WAVE

### APPLICATIONS

- Sectionalizing Underground Residential Distribution (URD) Loop Feed Installations
- 500 V - 15 kV Class Power Cable

### SAFE. SIMPLE. SOUND.

- ✓ Step-by-step directions
- ✓ Lightweight and portable design
- ✓ Battery-operated

### DATA ANALYSIS

- Results can be stored / saved for further analysis
- Graphical results can be exported via USB



## 5250 SERIES

### MULTI-FUNCTIONAL

- ✓ TDR 1150 traces can be viewed graphically or numerically
- ✓ High energy capacitive discharge unit
- ✓ High voltage coupler
- ✓ Basic or advanced mode operation
- ✓ Battery-operated

# OPEN & SHORT LOCATOR

WB20 CB

## BENEFITS

- ✓ Three tests in one unit: OPENS, SHORTS & DC PROOF
- ✓ Variable high voltage output
- ✓ Easily mounts in a rack
- ✓ Ideal for telephone, power, and shielded ground cables

## FUNCTIONALITY

Designed to detect OPENS in individual conductors by locating break positions in one wire out of a pair of wires, using 0-1 kV AC voltage.

SHORTS between neighboring conductors are located using 0-20 kV DC voltage. Copper cross, high resistance, or infinite resistance high voltage arc shorts can all be found using this technology.



# PHASE TRACER

PTC SERIES

## APPLICATIONS

- Identifying individual phases of three-phase cable
- Positively identify a cable phase with several cables present
- Power circuits
- Feeders
- Distribution networks



## TRANSMITTER



## PULSE DETECTOR



## PICK-UP COIL



## TEST CABLES



**PHASE TRACER  
Accessories  
& Options**



## CABLE FAULT LOCATING ACCESSORIES



The **FlashPhone Pinpointing Device** is designed to locate the exact position of primary cable faults when combined with a capacitive discharge unit. The FlashPhone's unique combination of seismic & electronic sensors, microcomputer technology and digital signal processing is key to its superior performance.



The **8100/8100W Cable Rack** provides 125 ft / 38 m of high voltage cable. It is a convenient and flexible device to safely and quickly make connections to cables under test.



The **Grounding Stick** can be used to deenergize devices under test; it is suitable for AC or DC hipots rated up to 120 kV.



The **800 Series of DC Hipot testers** is an economical solution to DC field testing of cables and other electrical apparatus. All models are self-contained in a rugged and durable enclosure.



## TRAINING OPPORTUNITIES

### CABLE FAULT LOCATING COURSE

Sign up for our "Cable Fault Locating" training course, offered through HIPO UNIVERSITY. This course will help users learn how to operate a wide range of cable fault locators to allow for quick sectionalizing of faulted loop feed URD cables.

**HIPO UNIVERSITY**

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
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