

## CF70 -12 / -24

### Primary Cable Fault Locator

---



■ **HIPOTRONICS CF Series** test systems for fault locating of primary cables consist of a dc proof tester, a burner and a capacitive discharge fault locator (thumper). These self-contained, portable units are rugged, reliable and compact making them ideal for field use. The CF70-12 or -24 has a continuously adjustable impulse rate from three to thirty seconds. Test ratings are a 0-70 kV dc proof test voltage, a 100 mA burn current and a 0-25kV dc capacitive discharge (thumper) voltage.

The units can be used with a high voltage coupler (HVC-4100 Series) and a time domain reflectometer (TDR-1150 or TDR-1170) to quickly provide a specific distance to the fault in feet or meters. This combination of equipment can greatly reduce the amount of high voltage (number of thumps) applied to the cable, resulting in reduced damage or degradation to the cable under test.

HIPOTRONICS has years of experience in cable fault locating the toughest faults. Our line of cable fault locating equipment is designed and manufactured based upon our field expertise. Whether you use the fault locator alone or with other accessories you've got a powerful tool to help restore power to your customers quickly.



---

### FEATURES

- ☑ **Self-Contained Unit** Features Proof Tester, Burner and Thumper in One
- ☑ **Burn Currents** to 100 mA
- ☑ **Impulse Energies** of up to 7000 Joules
- ☑ **Automatic and Manual** Thumper Mode
- ☑ **Operable** from Line Voltage or Generator
- ☑ **Single HV Output** for All Modes
- ☑ **Zero Start** Interlock
- ☑ **External** Interlock
- ☑ **Mode Indicator** Lights
- ☑ **Electrically Operated** Shorting Solenoids with Mechanical Ground Assurance

---

### BENEFITS

- Positive Fault** Identification and Location
- Isolated Return** for Increased Operator Safety
- One Unit** for all URD Cable Maintenance Testing
- User Safety** – visual verification of grounding status via face panel window
- Repeatable Impulse** level
- Variable Impulse Rate** from 3 to 30 Seconds

---

### APPLICATIONS

- Electrical Utilities
- Test Companies
- Petrochemical Facilities
- Facility Maintenance

## TECHNICAL SPECIFICATIONS

### General

Input Voltage & Frequency:	* In the model number, designate 'A' for <b>120V/60Hz</b> input or 'B' for <b>230V/50Hz</b> input		
Output:	Proof Tester, 0-70 kV dc	Burner, 100 mA	
Capacitor Discharge:	CF70-12, 0-25kV @ 12 $\mu$ F	Energy @ 25kV	3750 joules
	CF70-24, 0-25kV @ 24 $\mu$ F	Energy @ 25kV	7000 joules
Metering:	Proof Test Voltage	0-70 kV dc $\pm$ 2%	Standard Polarity
	Proof Test Leakage Current	0-1/10/100 mA $\pm$ 2%	Negative Output.
	Burner Current	0-100 mA	
Duty Cycle:	Continuous		
Terminations:	Input Line	50 ft. (15.2 m)	Cable
	Return and High Voltage	100 ft. (30.4 m)	Double Shielded Cable
	Ground	Ground 25 ft. (7.6 m)	No. 2 Welding Cable
Weight and Dimensions shipping	16"W x 36"H x 50"D (41 x 91 x 127cm) 675 lb (307 kg) Net		894 lb (352 kg)

## SCOPE OF SUPPLY

- Qty.1 CF70-12 or -24 with terminations as described above
- Qty.1 Safety interlock plug
- Qty.1 Operations Manual
- Qty.1 Calibration Certificate

## ORDERING INFORMATION

### System

Cable Fault Locator	<b>CF70-12-A or B</b> <b>CF70-24-A or B</b>
Cable Fault Locator with only 15 feet of return and HV cable and MC type connector for use with HVC series coupler and 8100 cable rack.	<b>CF70-12-PT-A or B</b> <b>CF70-24-PT-A or B</b>

## CONTROL PANEL



### Accessories

Spare parts kit for CF70	<b>SPK1-CF70-12</b> <b>SPK1-CF70-24</b>
Time Domain Reflectometer	<b>TDR1150</b> <b>TDR1170</b>
HV Coupler for use with the TDR	<b>HVC4170</b>
Cable Reels	<b>8100</b>
FlashPhone Acoustic/Ballistic Cable Fault Locator	<b>H - FLASH</b>