



# 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 Inc. 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.



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### 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

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### 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

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### APPLICATIONS

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

## TECHNICAL SPECIFICATIONS

### General

|                       |  |  |   |
|-----------------------|--|--|---|
| Input Voltage:        | - A 120 V AC, 60Hz<br>- B 220 V AC, 50/60Hz                        |  |   |
| Output:               | Proof Tester, 0-70 kV dc   | Burner, 100 mA   |   |
| Capacitor Discharge:  | CF70-12, 0-25kV @ 12 $\mu$ F<br>CF70-24, 0-25kV @ 24 $\mu$ F       | Energy @ 25kV  | 3750 joules<br>7000 joules                            |
| Metering:             | Proof Test Voltage<br>Proof Test Leakage Current<br>Burner Current | 0-70 kV dc $\pm$ 2%<br>0-1/10/100 mA $\pm$ 2%<br>0-100 mA    | Standard Polarity Negative Output.                    |
| Duty Cycle:           | Continuous   |  |   |
| Terminations:         | Input Line<br>Return and High Voltage<br>Ground                    | 50 ft. (15.2 m)<br>100 ft. (30.4 m)<br>Ground 25 ft. (7.6 m) | Cable<br>Double Shielded Cable<br>No. 2 Welding Cable |
| Weight and Dimensions | 16"W x 36"H x 50"D (41 x 91 x 127cm) 675 lb (307 kg) Net           |  | 894 lb (352 kg) shipping                              |

### 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><br><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><br><b>CF70-24-PT-A or B</b> |

### CONTROL PANEL



#### Accessories

|                                 |  |
|---------------------------------|--|
| Spare parts kit for CF70        | <b>SPK1-CF70-12</b><br><b>SPK1-CF70-24</b> |
| Time Domain Reflectometer       | <b>TDR1150</b><br><b>TDR1170</b>           |
| HV Coupler for use with the TDR | <b>HVC4170</b>                             |
| Cable Reels                     | <b>8100</b>                                |

European Contact  
**Haefely Test AG**  
Lehenmattstrasse 353  
CH-4028 Basel  
Switzerland  
☎ + 41 61 373 4111  
☎ + 41 61 373 4912  
✉ [sales@haefely.com](mailto:sales@haefely.com)

Locate your local  
sales representative at  
[www.high-voltage-hubbell.com](http://www.high-voltage-hubbell.com)

USA Contact  
**Hipotronics Inc.**  
1650 Route 22  
PO Box 414  
Brewster, NY 10509 USA  
☎ + 1 845 279 8091  
☎ + 1 845 279 2467  
✉ [sales@hipotronics.com](mailto:sales@hipotronics.com)