

# PCFL-32/2000

## Portable Cable Fault Location Trolley



- » Cable insulation testing with DC voltage up to 32 kV.
- » Suitable for 380 V...220 kV rated cables with PILC, XLPE, PVC, rubber and etc. insulation.
- » Strong protection reflectometer by Linux and industrial level computers with 12.1-inch TFT display and touch screen control TDR, MIM, ICE and Decay pre-location method.
- » Surge generator up to 2048 J.
- » Integrated insulation resistance test function up to 5 kV.
- » HV connection cable 25 m included, high quality silicone rubber material, good cold resistance performance.
- » Advanced safety systems.
- » Easy to handle system.

### DESCRIPTION

The PCFL-32/2000 Portable Cable Fault Location Trolley is designed for high-voltage direct current insulation testing of power cables, insulation breakdown on damaged cable sections using direct current, pre-locating of cable faults with an aid of the integrated reflectometer using a TDR, MIM, ICE and Decay methods.

KiloVolt represents a Portable Cable Fault Location Trolley with voltage and power ratings to meet your testing requirements. Our systems function in compliance with recognized national and international industry testing standards. PCFL-32/2000 Portable Cable Fault Location Trolley available from KiloVolt are designed for safety and ease of operation, and readily adapt to development, maintenance or production testing.

## TECHNICAL SPECIFICATIONS

### HV Impulse Generator

Output DC voltage	0...32 kV
Surge energy	2048 J at all voltage range
Surge rate	3..8 s, single pulse
Capacitor	4 $\mu$ F, single stage capacitor
Working mode	single surge, continuous surge, DC mode
Operation	touchscreen and control knob
Language	English, Turkey, Russian, Ukraine
Discharge	automatic discharge
HV connection cable	25 m, silicon rubber material

### Digital reflectometer

Pre-location methods	TDR, MIM (10 measurements in one ARM shot), ICE, Decay
Fault detection range	50 m...50 km
Resolution	0.1 m
Accuracy	$\pm 1$ %
Velocity	100...300 m/ $\mu$ s
Sampling rate	up to 200 MHz
Pulse width	100 ns...5 $\mu$ s
Display	industrial computer, 12.1-inch TFT display
Language	English, Turkish, Russian, Ukrainian
Connection interface	USB 2.0
Operation	touchscreen and control knob
Data storage	4 Gb
Continuous operation time	6 hours

### Insulation Resistance Testing

Rated voltage range	500 / 1000 / 2500 / 5000 V
Discharge	automatic discharge
Display	insulation resistance, PI, DAR
Energy saving	automatic off after 10 minutes no operation

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### General

Power supply	230 V AC $\pm 15$ %, 50/60 Hz, 2 kVA
Dimensions (LxWxH)	530x430x960 mm
Weight	48 kg