

## RDCD-521W Cable Outer Sheath Fault Tester

The RDCD-521W Cable Outer Sheath Fault Tester is designed based on the MURRAY bridge principle. The equipment adopts a switching power supply to form a high-voltage constant current source, uses a high sensitivity amplifier and a galvanometer to indicate balance, and forms a balance bridge with a proportional potentiometer. The high-voltage constant current source and bridge are integrated into a portable aluminum alloy box. Therefore, the device



has high voltage, light weight, convenient operation, and safe use. This Cable Outer Sheath Fault Tester is particularly suitable for high resistance breakdown points of cables after laying, such as linear high resistance breakdown of cable intermediate joints. Flashover type breakdown point, after breakdown, the constant current source can maintain the arc, and there is a stable current passing through the bridge, which has sufficient sensitivity. Defect points that have not yet been broken down but have low resistance, such as insulation defect points with low cable resistance found by a megohmmeter but do not break down under operating voltage.

### Product features

1. Output voltage adjustable
2. No blind spots within the testing range
3. High accuracy and stability
4. High sensitivity amplifiers and galvanometers to indicate balance
5. Zero position protection

### Product specifications and technical parameters

1. Input voltage: AC 220V  $\pm$  10%, 50Hz  $\pm$  1Hz
2. No load voltage: 7.5kV or 10kV (optional)
3. Short circuit current: 40mA
4. Measurement accuracy:  $\pm (0.2\% \cdot L \pm 1)$  meters



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