

## 10kV Distribution Network Automation for Defect Elimination



### Overview

In order to improve the distribution of network fault finding, isolation and restoration line, Firstly, the paper analyzes the current situation of 10kV distribution lines and the types and characteristics of the fault, The local intelligent processing principle to solve the. In order to improve the distribution of network fault finding, isolation and restoration line, Firstly, the paper analyzes the current situation of 10kV distribution lines and the types and characteristics of the fault, The local intelligent processing principle to solve the. The utility model discloses a 10kV distribution automation test platform, including organism, divide -shut brake detection module and electric current detection module, the top of organism is equipped with the handle, the middle part of organism is provided with the baffle, and the baffle divide. see figure 1 and figure 2, the present invention provides a technical solution: a 10kV power distribution automation test platform, which solves the problems of the equipment. Completed the test of segmental load current measurement on the column and the remote control of the boundary. Siemens Distribution Automation functionality ranges from monitoring to fully automated applications, including FLISR (fault location, isolation and service

restoration), voltage and reactive power compensation and power quality. Ensure an efficient, stable, secure and sustainable power supply and. ion of partial discharge (PD) signals. Experiments were applied on a 10kV 30m XLPE cable and three typical types of insulation efect models were designed and tested.

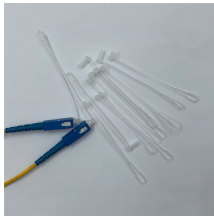
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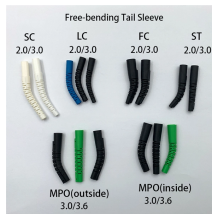
Aiming at the low positioning accuracy, long time consumption, and limited coverage types in existing positioning algorithms, a new intelligent distribution network fault positioning algorithm is ...



In this report, groups of DA functions have been combined into Distribution Automation scenarios, so that the combined capabilities can be assessed. In addition, many of the DA functions must rely on ...



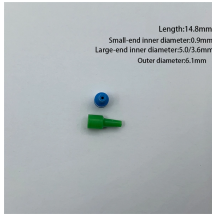
In order to improve the distribution of network fault finding, isolation and restoration line, Firstly, the paper analyzes the current situation of 10kV distribution lines and the types and characteristics of the ...



The utility model relates to Distribution Network Equipment maintenance technology field, is specially a kind of 10kV power distribution automation test platform.



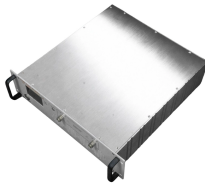
By applying wireless transmission technology to distribution network detection and deploying sensor networks on overhead lines to monitor the operation status of the system, it is easier to locate the ...



Completed the test of segmental load current measurement on the column and the remote control of the boundary switch, so that it can be judged more quickly whether it is a problem with the primary ...



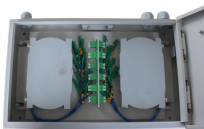
Abstract. In order to monitor the insulation condition of XLPE cables which have been one of the most popular equipment used in power transition, a method is proposed in this paper to identify the ...



This study investigates the influence of distribution automation on the dependability of electricity networks, concentrating on important functional metrics and their relationship with network ...



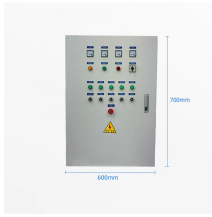
In order to reduce the response time and missed detection rate of 10kV distribution network power equipment operation status monitoring, a method for 10kV distribution network power equipment ...



In order to meet the requirements of transforming electric power network into digital, networked and intelligent new power system, an intelligent operation, maintenance and communication device of ...



PDF | On Jan 1, 2017, Jing Hua and others published Fault Analysis and Automation Technology of 10kv Distribution Line | Find, read and cite all the research you ...



Our distribution automation solutions optimize primary equipment O& M, boost supply safety & voltage quality, and adapt quickly to network changes. They also feature fault detection, location, ...

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