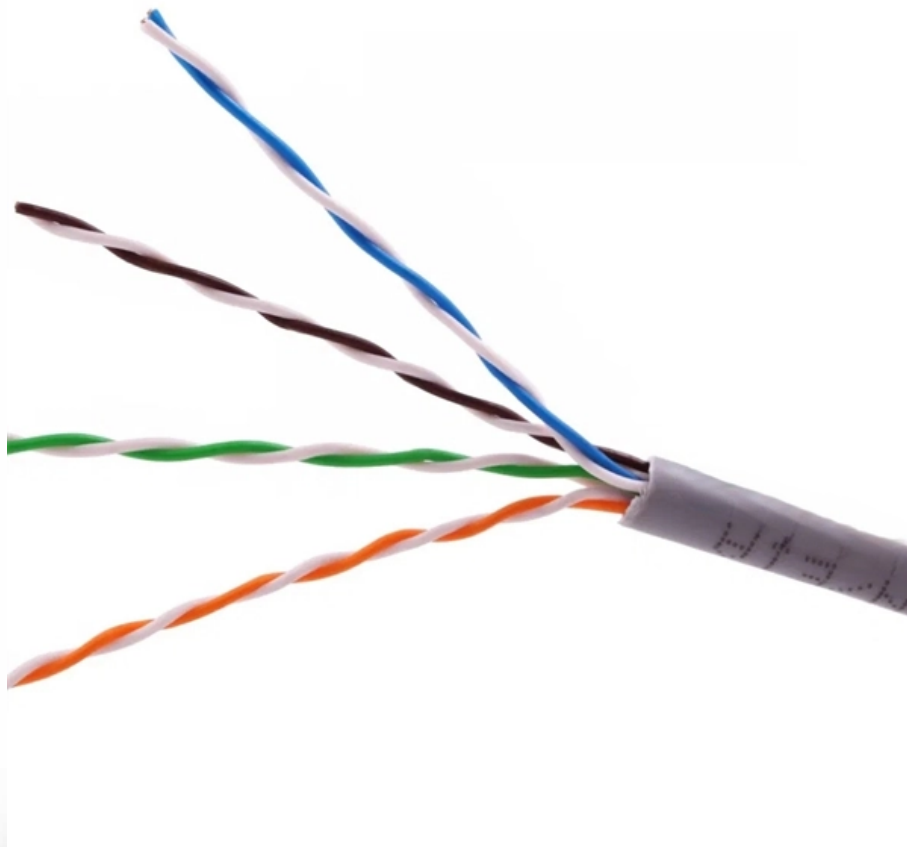


Intelligent Monitoring of High and Low Voltage Distribution Cabinets





Overview

Abstract: This paper introduces the power monitoring system based on the man-machine interface, intelligent electric measuring instrument and motor protector designed and implemented for distributed distribution, feeder and outgoing control circuits of distributed power. This design is based on the STM32 of ARM Company, which can control modules to collect various kinds of data such as voltage and current, temperature and humidity, smoke concentration. Digital technologies such as Cloud Computing, Big Data, Internet of Things (IoT), Artificial Intelligence (AI) and Industry 4. Monitoring temperature inside control cabinets is critical due to safety risks like overheating, fire, or failure of high-voltage components. Traditional electrical sensors are difficult to install, prone to signal interference, and cannot accurately detect internal hot spots masked by thermal mass. That means: This creates a dangerous illusion: everything appears stable—until it isn't. As data centers evolve toward higher density, the power system faces a contradiction: Yet. Cooper (Ningbo), a joint venture under Cooper Industries Group, is invested and established by Cooper China Investment Limited in 2007.



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An intelligent monitoring terminal for power distribution room based on edge computing is designed in this paper, which is important for the power distribution Internet of Things.

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