GDR Telecom Site Energy Systems

RFID added to optical fiber

Overview

Managing large-scale optical distribution networks is a daunting task. This paper introduces a novel solution using radio frequency identification (RFID) technology to transform the procedure we monitor and manage the complex optical network dumb resources (ONDR). The system includes a plurality of OFN components, and at least one RFID tag that includes RFID tag data that has at least one property of the OFN component associated with the RFID. Our RFID systems are designed for electronic identification, documentation, brand protection, and misconnection prevention. By integrating RFID tags into custom overnut assemblies on SMA connectors, we provide a value-added solution that enhances traceability and security. For Medical Applications:. Optical fiber communication network is the support of each network operation, optical cable line is an important part of optical fiber communication network, and the transmission quality of optical cable and the maintenance and management of optical cable are directly related to the overall. This inventionrelates to methods and apparatus for managing and automating the physical connectivity of optical fiber networks, in particular, automated systems to inventory, locate, discover and test a network with a large number

of physical communication links comprised of optical and electronic. Apparatus and methods in a system automatically track the physical connection configuration of fiber optic cables between all network devices in an optical fiber network using high spatial resolution RFID tag readout and high resolution optical scanning. The system is controlled by one or more.

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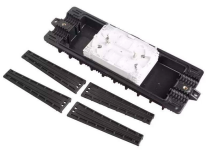
The use of RFID tags integrated into fiber optic structured cabling components enables network operators to automatically discover and track the location and connectivity of their cabling...

Aiming at the current situation of optical cable line maintenance and management, the paper puts forward the solution of communication optical cable patrol management system based on ...

In a preferred embodiment, inexpensive, networked RFID readers with multiplexed antenna arrays are integrated with or added externally to fiber optic patch-panels and networking apparatus.

The present invention relates to optical-fiber-based communication systems and networks, and particularly to systems and methods of deploying and maintaining optical fiber networks using...



Our RFID systems are designed for electronic identification, documentation, brand protection, and misconnection prevention. By integrating RFID tags into custom overnut assemblies on SMA ...

This article proposes a passive radio frequency identification (RFID) sensor that can verify the fiber connection pairing and detect on-port power level nonintrusively. The sensor collects ...

This paper presents an innovating approach to revolutionize the monitoring and management of optical fiber connections by integrating RFID technology. By harnessing the passive and unique RFID tags, ...

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Apparatus and methods automatically track the physical connection configuration of fiber optic cables using high spatial resolution RFID tag readout and high-resolution optical scanning In...

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