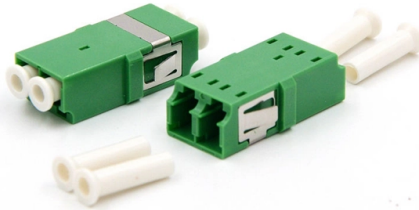


Methods for splicing optical cables in low-voltage electrical systems



Overview

It describes three main splicing methods - de-matable connectors, mechanical splices, and fusion splices. Fusion splicing welds two fibers together using an electric arc and provides the lowest loss. The goal is to achieve the lowest possible optical loss (signal). Fiber optic joints or terminations are made two ways: 1) splices which create a permanent joint between the two fibers or 2) connectors that mate two fibers to create a temporary joint and/or connect the fiber to a piece of network gear. Either joining method must have three primary characteristics. Executive Summary: A fiber optic pigtail is one of the most commonly specified yet least understood components in structured cabling. For network managers and technicians, a poor splice can lead to significant signal degradation, network downtime, and costly troubleshooting. Whether you're working with fiber optics, coaxial.



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III. Fiber-Optic Systems in Electric Utility Space Fiber-optic cables can be placed in ducts, buried in the ground, suspended in the air between poles, and installed as part of the ground wire on the high

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