Customized 24-core fiber optic cable for smart buildings

Overview

In conclusion, the 24 c fiber optic cable represents a smart, scalable solution for modern connectivity challenges.

Key Takeaways

Yes, 24-core fiber optic cables for smart buildings can be fully customized in terms of fiber count, length, connectors, jacket type, and ratings.

Customization Options

Fiber Count and Modality: You can order 24-core cables in multimode (OM1, OM2, OM3, OM4) or singlemode (OS2) configurations, with options for 1, 2, 4, 6, 8, 12, 24, 48 fibers, and more. Connectors: Common connector types include LC, SC, ST, FC, MTP/MPO, APC, UPC, and duplex configurations. Pre-terminated assemblies come with connectors already attached, reducing installation time.

Jacket Type and Rating: Cables can be customized for indoor, outdoor, armored, plenum (OFNP), riser (OFNR), LSZH, or tight-buffered jackets. Some indoor/outdoor cables are suitable for open plenum ceilings and hydrostatic ceilings. Length and Deployment: Pre-terminated assemblies can be made to any length, from 10 feet up to 5,000 feet, and are available with fan-out lengths for easy termination.

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Cables over 100 feet are typically spooled for installation. Mechanical Features: Options include pulling eyes for easier installation, water-blocking aramid yarn for strength, UV-resistant jackets, and interlocking armor for mechanical protection in harsh environments. Installation and CompatibilityIndoor/Outdoor Use: Many 24-core cables are suitable for both indoor and outdoor installations, including underground conduits and multi-floor deployments.

Integration: Pre-terminated cables can be used with compatible chassis and fiber panels, allowing seamless integration into existing smart building networks. Outdoor Overhead: Standard indoor/outdoor pre-terminated jumpers are generally not recommended for overhead outdoor use; specialized industrial fiber cables are preferred for such applications.

Example Specifications

Cable Diameter: For a 24-core duplex LC pre-terminated cable with 0. 5m fan-out, the thickest part of the connector measures 60mm, and 65mm including the pulling eye. Plenum Rating: LSZH outer sheath cables can be rated OFNP, suitable for open plenum ceilings without active returns.

Summary24-core fiber optic cables for smart buildings are highly customizable to meet specific network requirements. You can select fiber type, connector type, jacket material, length, and mechanical features to ensure compatibility with indoor/outdoor environments, plenum spaces, and existing network infrastructure. Pre-terminated assemblies simplify installation and reduce labor costs while maintaining high performance and reliability.

Article Content

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