

Single-disc type drop fiber optic cable



Overview

SPECIFICATIONS Fiber Optic Drop Cable assemblies shall be available for Toneable and Non-Toneable applications.

Key Takeaways

A single-disc (single-core) drop fiber optic cable is a lightweight, bend-resistant cable designed to connect the main fiber network to individual homes or businesses, typically containing one optical fiber with central reinforcement for durability.

Structure and Design

Single-disc drop cables usually feature a single optical fiber located at the geometric center of the cable, surrounded by a protective sheath. The fiber often uses G.657 small bending radius optical fiber, allowing installation with a bending radius as small as 20mm without signal loss. Reinforcements, either FRP (fiber-reinforced plastic) or steel wire, are placed parallel to the fiber to provide compression resistance and mechanical strength. The outer sheath is typically made of low-smoke-zero-halogen (LSZH) or flame-retardant PVC, ensuring safety and environmental compliance indoors, while outdoor versions may include waterproofing and UV-resistant jackets for durability in aerial or exposed installations .

Applications



Single-disc drop cables are primarily used in FTTH (fiber-to-the-home) and FTTP (fiber-to-the-premises) networks, serving as the last-mile connection between the distribution network and the end user. They are suitable for indoor routing through conduits or open wiring, and some designs can also be used for aerial or direct-buried outdoor installations. Their compact, lightweight design simplifies handling, splicing, and connectorization, making them ideal for residential and small enterprise deployments .

Key Features

- Bend-resistant fiber for tight installation spaces
- Central reinforcement for mechanical protection
- Lightweight and flexible for easy installation
- Flame-retardant and environmentally safe sheath
- Single-fiber configuration for household or small-scale connections
- Optional armored or figure-8 designs for aerial or outdoor use

Installation Considerations

Single-disc drop cables can be installed indoors, in ducts, or aerially. For outdoor aerial installations, some cables include a messenger wire or figure-8 design to support self-suspension between poles. For underground or direct-buried applications, cables may include water-blocking layers and rodent-resistant jackets. The simple structure allows for easy splicing, connectorization, and maintenance, and some modern designs incorporate FastAccess® technology for quicker fiber access during field installation . In summary, single-disc drop fiber optic cables provide a practical, durable, and flexible solution for last-mile fiber deployments, offering high bandwidth, low latency, and ease of installation for residential and small business networks .

Article Content

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A single-fiber drop cable suitable for aerial, duct, or direct-buried outdoor installations. Available with

Fiber Optic Drop Cable: An Ultimate Guide for 2024

This comprehensive guide delves into fiber optic drop cables, exploring their types,

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Compatible with industry-standard hardware and available in preconnectorized assemblies, SST-Drop Cables are the perfect solution

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The cable design is backward compatible for easy connectorization or splicing.

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There is no support or messenger wire required, allowing installation to be achieved in a single pass, dramatically reducing

Optical Fiber Drop Cable Explained: Type, Application & FTTH

Optical fiber drop cable, also known as FTTH (Fiber to the Home) cable, serve as the critical final segment in fiber

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The drop optical cable constitutes the optical cable line from the user access point to the

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Fiber optic drop cables are the critical link between the main fiber optic network and

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Demystifying Drop Cables: Understanding Their Types

What is drop cable? The introduction of fiber optic drop cable is critical to FTTH networks. It constitutes the optical

Fiber Optic Drop Cable Assembly Fiber Optic Drop Cable

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SST-Drop™ Single-Tube, Self-Supporting, Gel-Filled Cable

Corning SST-Drop™ All-Dielectric Self-Supporting (ADSS) cables offer the ease of installation of standard ALTOS cable in an easy

O-DF | CommScope

Fiber drop cables are typically used between the fiber terminal and the building or home and available for various indoor or outdoor

FTTH Outdoor Optical Fiber Drop Cable, G657A1, SMF, 1-core

FTTH Outdoor Optical Fiber Drop Cable, G657A1, SMF, 1-core, LSZH, 1000 feet

Fiber Optic Cable Types – Multimode and Single Mode

Application Fiber Optic connectors and cables are present in nearly every communications project that we might sell into, be it a DAS

FTTH Outdoor Optical Fiber Drop Cable 1 Core Single

FTTH Outdoor Optical Fiber Drop Cable 1 Core Single Mode, G657A1, LSZH Black Jacket, 1 Steel Wire+2

FTTH Drop Cable

The round type drop cable adopts a single 900um tight-buffered fiber as the optical transmission medium. Aramid yarns serve as the

2 and 4 Fiber Single Mode Drop Cable FTTH Indoor

Techlogiks 2-Fiber and 4 Fiber Single Mode G 657 A1 Fiber to the Home (FTTH) flat drop cable is designed for use in aerial and

Fiber Cable Assemblies

FTTH Drop Cable Assemblies Core Size and Type Singlemode Fiber Count Single Fiber Jacket O.D. 2.0 mm Ruggedized, 3.0 mm

Outdoor Single Mode FTTH Drop Fiber Cable – 1 Core

This Outdoor Single mode FTTH Drop Fiber Optic Cable provides a proper connection for FTTH networks, the operation is simple;

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables,

Fiber Optic Cable Types – Multimode and Single Mode

Fiber Optic Cable Types – Multimode and Single Mode Application Fiber Optic connectors and cables are present in

Pre-terminated Drop Cable Assemblies | AFL Global

AFL single-mode SC Angled Outdoor Drop Assemblies are designed to meet stringent performance requirements of the latest FTTH

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Fiber Optic Drop Cable -Types, Structure & FTTH

Learn what fiber optic drop cable is, its main types, structures, and FTTH applications.

Fiber Optic Cables

Rollable ribbon fiber technology is one of the latest technology advances that help data center managers meet demand while

Optical Fiber Drop Cable Explained: Type, Application & FTTH

Drop cable are engineered for flexibility and ease of installation, featuring a slim profile with 1-4 optical fiber

Fiber Optic Jumpers, Pigtails & Drop Cables | Multilink

Fiber optic drop cables: We offer three options for fiber optic drop cables: Surelight® H IP, OptiDrop™ and Surelight® Drop Cable,

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