

Fiber optic cable end pulling



Overview

In general, fiber cables should be pulled with the least amount of tension in a steady, continuous motion to avoid exceeding the load. One common mistake is pulling fiber cable with tension only on the outer jacket of the cable, which is prone to stretching and can ultimately lead to tears or breaks in the jacket. Ideally, the tension should be placed on the fibers themselves. When using spooled fiber and field termination, installers need to ensure that fiber spools contain enough cable to accommodate the lengths. For preterminated fiber assemblies deployed in datacenter environments between and within racks, ordering the right lengths for fiber assemblies is essential. If the assemblies are too short and need to be reordered. For any fiber cable, the tensile load is the maximum amount of pulling force that can be placed on the cable without causing any damage to the fibers or altering optical performance. Typically measured in pounds per square inch (lbs./in²) or in Newtons (N), tensile load varies based on the type of cable and the number of fibers in the cable. Maximum tensile load. Another key specification is the maximum bend radius, which is dependent on the overall cable diameter—smaller cables have a smaller maximum bend radius and larger cables have a larger maximum bend radius. Exceeding the bend radius of a fiber cable can alter the optical characteristics of the fiber and cause the glass to crack over time. Like tensile load.

Article Content

Sep 19, 2025

The FOA Reference For Fiber Optics-Installing Fiber Optic Cable ...

Cable manufacturers install special strength members, usually aramid yarn (DuPont Kevlar), for pulling. Fiber optic cable should only be pulled by these strength members unless the cable design allows ...

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Microsoft Word

This instruction manual is a step-by-step guide for end and termination of tight-buffered cable, including sheath removal, core preparation, and fiber preparation.

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Best Practices for Pulling Fiber Optic Cable

Fiber optic cable is surprisingly strong, durable and pliable; however, several best practices should be followed to ensure a successful cable installation. This article explores recommendations for pulling ...

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Cable Pulling

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How to Terminate Fiber Optic Cable: Top 5 Essential Tips

Learn how to terminate fiber optic cable with connectors and splicing. Discover tools, techniques, and tips for precise termination.

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The Basics of Pulling Fiber

Failure to properly pull fiber can damage your cables and impact network performance. Learn the key specs to consider to pull your fiber properly.

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Everything you need to know about fiber optic termination

Multimode connectors are usually installed in the field on the cables after pulling, while singlemode connectors are usually installed by splicing a factory-made "pigtail" onto the fiber.

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The Right Fiber Pulling Eye Makes All the Difference

At the end of the gripping cord is a pulling eye. By attaching a hook through the pulling eye, installers can successfully pull fiber cable through ductwork (conduits, trays and raceways) or a small, tight ...

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Fiber Optic Cable Pulling Advice

So, to ensure a smooth and efficient fiber optic cable pulling, installers should get fully prepared, while taking various factors into account to avoid damaging the optical fiber. Here, we offer ...

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Pulling Fiber Optic Cable in Conduit

Note: The Corning recommendation for one cable exceeds the NEC recommendation (53%). Corning has determined, by field testing, that one cable occupying 65% of a conduit in good ...

Contact Us

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