

How to drill outer sheath holes in a 48-core optical cable

Article Overview

Drilling holes in a 48-core optical cable requires careful preparation, the right drill bits, and precise technique to avoid damaging the fibers inside.

Tools and Materials Needed

- o Drill machine: A high-speed, stable drill is essential for precision .
- o Drill bits: Diamond or carbide bits are recommended for cutting through tough outer sheaths .
- o Sheath knife: For scoring the outer sheath before drilling .
- o Needle-nose pliers: To handle ripcords and manipulate the sheath .
- o Safety gear: Gloves and safety glasses to protect against sharp fibers and debris .

Step-by-Step Procedure

- o Mark the drilling location: Identify the exact point on the outer sheath where the hole is needed. Ensure it is away from the cable ends and any internal strength members .
- o Score the sheath (optional): For armored or thick sheaths, lightly score the outer layer with a sheath knife to guide the drill and reduce the risk of slippage .
- o Drill the hole: Use a diamond or carbide drill bit at a slow, steady speed. Avoid excessive pressure to prevent crushing or splintering the fibers inside .
- o Remove debris: Clear any plastic or metal shavings from the hole to prevent contamination of the fiber core .
- o Access the ripcords: If the cable has ripcords, use needle-nose pliers to pull them through the drilled hole to slit the sheath further if needed .

Alternative Method: Sheath Stripping Tools

For multi-core or armored cables, specialized tools like the ALROC OGA cable outer jacket stripping tool can create longitudinal cuts or holes without drilling. These tools allow adjustable cutting depths and reduce the risk of fiber damage .

Safety Precautions

- o Always wear safety glasses and gloves to protect against sharp fibers and metal shards .
- o Avoid drilling directly over the fiber core or strength members.
- o Dispose of any sheath fragments carefully to prevent injury. By following these steps and using the appropriate tools, you can safely drill holes in a 48-core optical cable while maintaining the integrity of the fibers inside.

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Description of 48 Core GYTY53 fiber optic cable Fiber optic cable GYTY53, 2~144 fibers, central strength member (steel), jelly filled,

Description HOC loose tube fibre cable CST armoured for 48 core is usually used in exterior or interior

Hold the knife at a 45° angle to the cable to prevent the blade from slipping out of the sheath. Slit the armor and outer jacket of the

2. Applicable Standards: The cable shall conform to the standards named below and the technical specifications described in the

#hellotechIn this video I show you how to open a 48 fiber cable. Make sure you subscribe

For injection-molded cable products such as optical cables, surface defects are a common product quality problem.

The fibre cable shall contain 48 to 144 fibres and have an armoured loose tube construction. It shall be suitable for indoor

Requirements So the material of the fiber optic cable outer sheath must be able to withstand the sun and rain, and not

1.1 This procedure describes general sheath removal methods for armored and non-armored versions of Corning Cable Systems

In this video, learn the steps required for accessing an outside plant cable within the

Drilling holes for fiber optics may seem like a daunting task, but with the right tools and techniques, it can be a

48 Cores Double sheath ADSS fiber optic cable is loose tube stranded Fiber cable, which is positioned into

For all fibre optic cable splicing, the cable shall be stripped back a sufficient length such that the fan-out or fibre units shall provide for

This instruction manual is a step-by-step guide for end and mid-sheath access of armored fiber optic cables, including sheath

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Introduction This Cable Jacket Selection Note is intended to provide the reader with an organized selection methodology when

Sumitomo 48-core fiber optic cable is a completely standard cable that is suitable for terrestrial environments. This fiber optic cable

Web: <https://www.kremgroup.co.za>

