

How to install the fiber optic cable extruder head

Article Overview

Installing a fiber optic cable extruder head requires careful disconnection of the old head, proper mounting of the new head, secure cable connections, and adherence to fiber handling guidelines.

Preparation and Safety

Before starting, power off the extruder and allow it to cool to prevent burns or electrical hazards . Ensure the work area is clean and free of sharp objects that could damage the fiber optic cable . Wear protective gloves and follow any manufacturer-specific safety instructions.

Removing the Old Extruder Head

- o Disconnect power and signal cables: Remove any 3-wire or 4-wire connectors from the extruder PCBA or control board .
- o Loosen mounting screws: Using the appropriate hex keys (commonly 2.5mm or 2mm), slightly loosen the screws securing the extruder to the chassis. Many extruder brackets have keyhole slots, allowing the head to slide out without fully removing screws .
- o Remove feed tubes: Detach the fiber Bowden tube and fiber feed tube carefully to avoid bending or twisting the fiber .
- o Remove the extruder head: Slide the old extruder head out of the chassis and set it aside.

Installing the New Extruder Head

- o Mount the new head: Align the keyhole slots on the extruder bracket with the chassis screws and slide the head into place. Tighten the screws to secure the base .
- o Reconnect power and signal cables: Insert the 3-wire and 4-wire connectors fully into the correct ports on the new extruder. Ensure directional connectors are correctly oriented to avoid shorts or errors .
- o Attach feed tubes: Reconnect the fiber Bowden tube and fiber feed tube, ensuring smooth curves and no sharp bends that could damage the fiber .

Fiber Handling Guidelines

- o Maintain minimum bend radius: Avoid sharp turns or twisting of the fiber optic cable to prevent attenuation or breakage .
- o Avoid pulling on connectors: Always pull the cable by the sheath, not the connector .
- o Use figure-8 loops: When laying fiber on a surface, use figure-8 loops to prevent twisting .
- o Protect cable ends: Keep fiber ends capped or taped to prevent contamination .

Final Steps

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- o Power on the extruder and verify that all connections are secure .
- o Run calibration or test extrusion to ensure the new head operates correctly and produces consistent fiber quality .
- o Document installation: Note the installation date, cable routing, and any adjustments for future maintenance . Following these steps ensures a safe and effective installation of a fiber optic cable extruder head while maintaining the integrity of the fiber and the extruder system.

Learn the best practices for installing fiber optic cable, from patch cords to bulk distribution

Fiber optic cabling installation might not be as straightforward as one may imagine or

Fiber optic cables offer superior performance compared to traditional copper cables, making them the

In today's digital age, having fast and reliable internet is essential for both work and leisure, and installing fibre optics

It is possible to store simplex and duplex type cables and coils with cables up to 4 mm in diameter by laying them on the head.

Mechanical Installation of Fiber Optic Connectors Fiber optic connectors play a pivotal role in establishing reliable and

This document covers the installation of OPGW fiber optic cables, including transport, accessory assembly, verification

A brief over view of the the techniques, materials, methods and safety considerations for

6. Can I install fiber optic cables myself? Yes, with the right tools and guidance, you can certainly install fiber optic

All Fiber Optic Cable reels should be stored upright Laying the reel on its side may cause damage to the reel flange and/or cause the

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Bausano designs complete extrusion systems for the production of fiber optic cable sheathing, configurable

The information contained in this manual should serve as a guide to proper handling, installing, testing, and

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for troubleshooting

The following items are key considerations in preparation for installing the fiber optic cable when the

Learn the essential steps and tools for preparing fiber optic cables for connectors or

Welcome to our comprehensive guide on Fiber Optic Cable Installation Do"s and Don"ts!

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