What is pigtail fabric placement



Overview

Catheter-based thoracostomy using “pigtail catheters” has become a ubiquitous procedure for the management of pleural effusion or pneumothorax in many patient populations.

Key Takeaways

Proper pigtail placement ensures reliable splicing, minimal signal loss, and organized fiber management. 1.

Understand the Role of Pigtails

Fiber optic pigtails are short optical fibers with a factory-installed connector on one end and a bare fiber on the other, designed to splice into existing fiber infrastructure. They act as a bridge between bulk fiber cables and network equipment, allowing for clean, reliable connections without the need to terminate connectors in the field. 2.

Choose the Correct Fiber Type

Select pigtails that match your network's fiber type—single-mode for long-distance, high-bandwidth applications, and multimode for shorter distances like LANs. Mixing fiber types can cause signal loss and network errors, so consistency is critical. 3.

Prepare the Fiber Properly

Before splicing, strip the protective coatings carefully to expose the bare fiber, typically about 30mm. Clean the fiber with 99% isopropyl alcohol to remove dust, oils, and moisture, as even microscopic contamination can cause high signal loss. Use a high-precision cleaver to create a flat, square end for fusion splicing.

4.

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Plan Placement in Fiber Management Systems

Install pigtails in Optical Distribution Frames (ODFs), fiber terminal boxes, or splice trays to protect the fiber and maintain organization. Ensure that splice points are accessible for future maintenance and that fibers are routed without sharp bends to prevent microbending or breakage. 5.

Splicing and Securing

Use fusion or mechanical splicing to join the pigtail to the trunk fiber. Fusion splicing is preferred for lower insertion loss and higher reliability. Secure the pigtail in the tray or box to prevent stress on the splice and maintain proper bend radius.

6.

Test and Verify

After placement, test the connection for insertion loss and return loss to ensure optimal performance. Properly installed pigtails reduce network downtime and maintenance costs. 7.

Additional Best Practices

Avoid touching the bare fiber with fingers or letting it contact surfaces before splicing. Use high-quality, factory-polished pigtails to minimize field termination errors. Label pigtails clearly for easy identification and troubleshooting.

Maintain a clean, dust-free environment during installation to protect fiber integrity. By following these key points, pigtail placement can be optimized for network reliability, signal integrity, and long-term maintainability.

Article Content

Pigtail Catheter Placement | Springer Nature Link

Pigtail Catheter Placement Chapter First Online: 16 July 2022 pp 131–134 Cite this chapter Download book PDF Download book EPUB Save chapter

Mastering the Percutaneous Pigtail Thoracostomy Catheter

Catheter-based thoracostomy using “pigtail catheters” has become a ubiquitous procedure for the management of pleural effusion or pneumothorax in many patient populations.

Pigtail catheter chest drain insertion

Pigtail catheters are an effective, reliable and possibly less traumatic way of treating pneumothoraces and draining pleural fluid compared to traditional chest drains. Pigtail catheter chest drains are

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Critical Insights into Pigtail Catheter Placement Into the Chest

The pigtail catheter (PC) is a safe, reliable, less invasive, and less morbid alternative to traditional chest tubes. Boasting a success rate of 85.7% in the treatment of spontaneous

Wire Guided Pigtail Catheter Placement copy

Wire Guided Pigtail Catheter Placement copy. Step 1: Use lidocaine to make skin wheel and anesthetize underlying SQ tissue and pleura. Apply negative aspiration force and aspirate until bubbles

EMCrit 255 – Pigtails for Pleural Problems (Percutaneous Thoracostomy)

Pigtails should replace chest tubes for most pneumothoraces and pleural effusions requiring drainage. In this episode, I discuss points on use and placement. The next post will be a

UMEM Educational Pearls

Insert the obturator all the way into the pigtail catheter with the stop cock, and lock it in place. This will ensure that your chest tube is rigid and make it easy to feed over the guidewire and

Pigtail Chest Catheter Placement with Ultrasound Guidance

A bedside thoracentesis is performed for both diagnostic and therapeutic purposes in patients with pleural effusions. The needle should be advanced just above the superior aspect of the

101 Skills: Percutaneous Pigtail Catheter Placement

The Cardiothoracic Surgery Network (CTSNet) connects the global cardiothoracic community through communication, collaboration, education, and interaction amongst cardiothoracic surgeons and their...

Pigtail catheter chest drain insertion

Pigtail catheter chest drain insertion Pigtail catheters are an effective, reliable and possibly less traumatic way of treating pneumothoraces and draining pleural fluid compared to traditional chest

UMEM Educational Pearls

Emergency Medicine Cases offers these excellent tips on pigtail catheters placement. Their video/website is worth a look. PEARL # 1 – LOCATION/LANDMARK: Minimize skin to pleural

Outcomes of Pigtail Catheter Placement versus Chest Tube Placement

© 2026 EXF OPTICAL NETWORKS - All rights reserved

A debate currently exists regarding the efficacy of pigtail catheters vs chest tubes in the management of thoracic trauma. This meta-analysis aims to compare the outcomes of pigtail

Critical Insights into Pigtail Catheter Placement Into the Chest

Pigtail catheter placement into the chest is easy, but it does not come without complications. Learn how you can minimize risk with HPC.

How to insert a small percutaneous chest tube (aka "pigtail")

This short video shows you how to insert a small percutaneous chest tube ("pigtail cath") for treating a simple pneumothorax. There are lots of practical tips and tricks shared.

101 Skills: Percutaneous Pigtail Catheter Placement

This contemporary video demonstrates the step-by-step process of placing a pigtail catheter to treat both pneumothorax and effusion. The authors break the placement of a pigtail

Understanding Fiber Pigtail Connectors: Types, Installation, Advantages

Discover the types, installation process, and advantages of fiber pigtail connectors. Learn about single-mode and multimode fiber pigtails.

Pigtail catheter placement for pneumothorax

An approach to the insertion of pigtail chest tube catheters. Led by Gil Yehudaiff. An excerpt from the 2023 EM Cases Summit. For full access to EM Cases Summit talks, panel discussions, rants and ...

Fiber Optic Pigtail: What Is It and How to Splice It?

Fiber optic pigtails are essential components in fiber optic installations, used to connect fiber optic cables to devices or equipment. They provide a

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 EXF OPTICAL NETWORKS - All rights reserved

Contact Us

Continue your research online:

Website: https://explosivefunctions.co.za
Technical inquiry: https://explosivefunctions.co.za/contact.html
EU project coordination: Parque das Nações, Lisbon, Portugal

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 EXF OPTICAL NETWORKS - All rights reserved