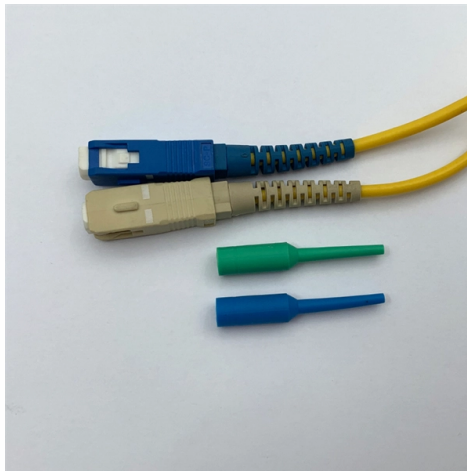


Method for winding pigtail tubes



Overview

Compared with the prior art, the present invention facilitates the orderly arrangement of the pigtails, and avoids the different sizes of the rings formed by free winding, which cause the wires...

Key Takeaways

A pigtail tube can be formed by carefully winding the tube around a mandrel or jig, using controlled rotation and axial guidance to achieve a smooth, uniform coil without kinks.

Tools and Setup

Winding Jig or Mandrel: Select a jig with a diameter slightly larger than the tube's outer diameter to prevent deformation. For copper capillary tubes, specialized winding machines can automate rotation and tension control. **Rotary Spindle:** Provides controlled rotation of the tube around the jig, allowing precise shaping of the pigtail.

Tube Support: Ensure the tube is supported along its length to avoid bending or kinking during winding.

Winding Procedure

Secure the Tube: Insert one end of the tube onto the mandrel or jig. **Apply Gentle Tension:** Maintain slight tension to keep the tube in contact with the jig while preventing stretching. **Rotate the Tube:** Use a rotary spindle or manual rotation to wind the tube around the jig in a smooth, continuous motion.

Axial Adjustment: Move the tube axially along the jig if forming a tapered or barrel-shaped pigtail, ensuring uniform spacing between coils. **Check for Kinks:** Inspect the tube during winding; any sharp bends can compromise flow or structural integrity. **Release and Inspect:** Once the desired number of turns is achieved, carefully remove the tube from the jig and verify the coil shape.

Tips for Success

Lubrication: For metal tubes, a light lubricant can reduce friction and prevent scratching. **Temperature Considerations:** Some metals, like copper, are easier to bend when slightly warmed. **Consistent Speed:** Maintain a steady rotation speed to ensure uniform coil diameter.

Practice on Scrap Tubing: Before working on the final piece, practice winding to perfect technique. By following these steps, a smooth, functional pigtail coil can be produced for applications in refrigeration, HVAC, or laboratory setups, ensuring proper flow and mechanical stability.

Article Content

CN111137749A

Compared with the prior art, the present invention facilitates the orderly arrangement of the pigtails, and avoids the different sizes of the rings formed by free winding, which cause the wires...

Method of Winding of Small-Diameter Pipes Using Vibration Effects

The paper proposes a new method of combined shaping and moulding by winding of small-diameter pipes made of polymer composite materials for the structures of various applications.

(PDF) Winding process of fibre-reinforced thermoplastic tubes with ...

This paper introduces a novel method for producing fibre-reinforced thermoplastic tubes by integrating tape production and consolidation into a single operation.

Method and device for forming pigtail for coil spring

PURPOSE:To improve forming accuracy and to obtain a uniform product by fixing the position where the forming of a coil spring is to be started, winding the open end thereof to a core jig for...

The FOA Reference For Fiber Optics

Fiber optic joints or terminations are made two ways: 1) splices which create a permanent joint between the two fibers or 2) connectors that mate two fibers to

Mechanical vs. Fusion Splicing: Which Is Right for You?

Comparing mechanical and fusion splicing for fiber optic cabling: costs, performance, and more. Discover the right splicing technique for your

Winding process of fibre-reinforced thermoplastic tubes with ...

The winding process presented here integrates the production of fibre-reinforced thermoplastic tape to produce fibre-reinforced tubes in circumferential winding and cross winding.

Damage analysis of 800 series materials from reformer tube outlet ...

Factors such as grain size, metal wall temperature and stress concentration significantly determine the safe service life of 800 series alloy materials for outlet components of reformer such as

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.

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

Pigtail Insertion | Emergency Physicians Monthly

Small-bore chest tubes – also referred to as pigtail catheters – are being used to relieve both spontaneous and in some cases, traumatic pneumothorax. These pigtails are placed with a

How to Pigtail Ground Wires (Guide with Photos)

Most of your home's receptacles should be grounded and some of them must use a pigtail. This article explains how to pigtail ground wires.

Pigtail Catheter Insertion for Pleural Drainage: A Safe Alternative

The pigtail catheter insertion for pleural drainage is a safe and effective alternative to large-bore French chest tubes. Learn more about it here.

How To Make An Electrical Pigtail | Any Hour Services

Have you ever started an electrical project in your home and realized the wires are too short? Maybe you're replacing a switch or outlet and you're running out of wiring. In this article, we'll

Method and apparatus for forming a pig tail end on a coil spring

Disclosed herein is a method and apparatus for producing a barrel-shaped coil spring, by forming a coil spring having a first pig tail at one end, with a second pig tail at the other end. The

MedScratch

This video shows how to secure and tie both a Pigtail and a large bore chest tube. This video is for educational purposes only.

Ultrasound-Guided Pigtail Catheter Drainage: An Effective Alternative ...

Objectives To study the effectiveness of ultrasound-guided pigtail catheter drainage as an alternative to exploratory laparotomy for the management of intra-abdominal abscesses or collections. Materials

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 S...

Related Video Reference

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

Contact Us

Continue your research online:

Website: <https://cgweb.co.za>

Technical inquiry: <https://cgweb.co.za/project-enquiry.html>

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

