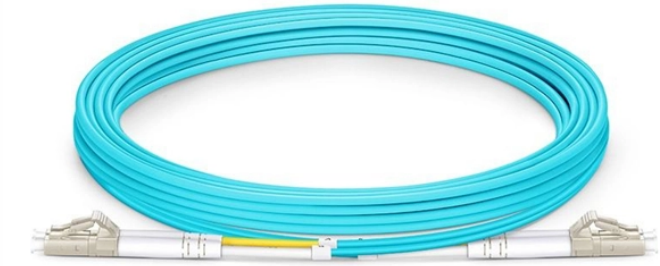
Working principle of optical cable sheath extruder



Overview

During the extrusion process, the plastic loaded into the hopper enters the barrel by gravity or feed screw, and under the thrust of the rotating screw, it continuously advances and gradually moves from the preheating section to the homogenization section; at the same time, the. During the extrusion process, the plastic loaded into the hopper enters the barrel by gravity or feed screw, and under the thrust of the rotating screw, it continuously advances and gradually moves from the preheating section to the homogenization section; at the same time, the. The optical cable sheath extruder is a groundbreaking machine that plays a vital role in the production of fiber optic cables. By applying a protective layer around the delicate optical fibers, it ensures their durability and longevity. In this article, we will delve into the working principle of. An optical cable extrusion production line, commonly referred to as an extrusion line or sheathing line, is an industrial production system that uses an extrusion molding process to tightly coat one or multiple layers of polymer sheath onto the cable core (the component where the optical fibers. ical conductor, whereas cable is a bunch of wires wrapped in a single sheathing. Most of the wires are made out of conductor like copper or

aluminium as core and insu e conductors with insulators via extrusion process to make a continuous profile. Standard extruders typically use an inline die to shape the molten polymer into its final form. In contrast, cable extruders use a specialized crosshead die that allows a wire or cable core to pass. During cable extrusion process, the outer cable sheathing surface of the plastic wire and cable must be printed with permanent identification marks such as the manufacturer's name, model, specifications, manufacturing length, and manufacturing year. Multicore cables - whether with or without braiding - require a sheath.

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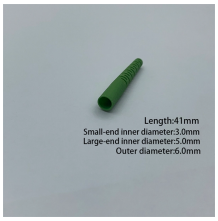
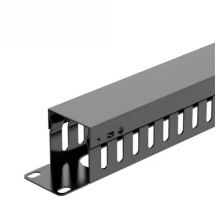
	The extruder machine utilizes a high-performance screw mechanism to propel the molten plastic through a die, which imparts the desired shape and dimensions onto the newly formed cable sheath.
	The plastic insulation and sheath of the wire and cable are made by continuous extrusion. The wire and cable extrusion equipment is generally with a single screw extruder.
	Establishing a functional Simplex and Duplex fiber cable sheath extrusion line requires meticulous planning and adherence to foundational procedures. The initial setup forms the backbone ...
	The utility model relates to the technical field of optical cable production equipment, and discloses an extruder for producing an optical cable sheath, which comprises a base, wherein...
	Low Temperature Flexibility- At very low temperatures, the wire & cable materials should not lose flexibility or become brittle, causing crack while remaining in a bent condition.

	Similarly to the core insulation process, the sheath is applied with an extruder. This consists of a metering unit for the plastic granulate, a screw that transports and heats the material, ...
	Function: Provides stable, continuous pulling force to draw the finished sheathed optical cable from the end of the production line. Type: Typically uses a caterpillar puller, which grips and pulls the cable ...
	This document provides specifications for an optical cable sheath production line that can extrude inner and outer sheaths for optical cables using materials like LDPE, MDPE, and HDPE.
	In this blog post, we''ll explore the inner workings of the cable extruder, delving into its key elements, operational principles, and the diverse applications that leverage its capabilities.
	In order to provide a more intuitive understanding of this complex process, we have specially created an animated demonstration of the working principle of the cable extruder.

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