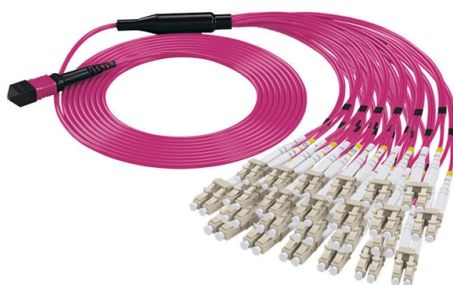


## Specifications of optical cable outer sheath extruder



### Overview

**Optical Cable Sheath Extrusion Line** An optical cable sheath extrusion production line is a specialized set of automated industrial equipment used for extru.

### Key Takeaways

An optical cable outer sheath extruder is designed to coat optical cable cores with protective polymer sheaths, offering precise control over diameter, thickness, and material properties. **Core Function**

The extruder continuously melts and applies polymer materials such as PE, PVC, LSZH, TPU, LDPE, MDPE, or HDPE onto the optical cable core, forming a uniform protective layer that provides mechanical protection, electrical insulation, and identification markings for the cable .

#### Key Specifications

- **Finished Outer Diameter:** Typically ranges from 2.8 mm to 35 mm, depending on cable type and extruder model .
- **Extruder Screw Diameter:** Commonly 90 mm or 120 mm, with precision screw and barrel systems for uniform extrusion .
- **Cable Types Supported:** Central tube, stranded, ribbon, loose tube, parallel twin wire, and medium messenger aerial cables .



- **Production Length:** Continuous extrusion up to 40 meters or more, with high-speed take-up systems .

- **Material Compatibility:** Supports single or composite sheaths, including PE outer sheath, aluminum-plastic compound belts, steel-plastic compound belts, and PE composite sheaths .

#### Control and Automation

- **Temperature Control:** PID smart controllers (e.g., Omron) ensure precise polymer melting .

- **Tension Control:** Advanced double-wire tension controllers prevent core damage during extrusion .

- **PLC and HMI:** Industrial PLCs with color touchscreens (Siemens or equivalent) allow real-time monitoring, parameter adjustment, and fault diagnostics .

- **Precision Parameters:** High accuracy in sheath thickness, outer diameter, concentricity, and adhesion .

#### Auxiliary Equipment

- **Pay-Off System:** Heavy-duty stands for smooth cable core release, with tension control to prevent fiber damage .

- **Core Straightening Devices:** Optional units to remove natural curvature from reels before extrusion .

- **Cooling and Take-Up Systems:** Water baths or air cooling, combined with large-capacity take-up reels for continuous production .

- **Optional Printing Units:** For cable identification, meter marks, and branding .

#### Performance and Reliability

- **High Efficiency:** Capable of long-length continuous production at high speeds .

- **Strong Adaptability:** Handles indoor, outdoor, direct burial, and aerial cables .

- **Mechanical Protection:** Ensures resistance to tension, crushing, impact, and bending during installation .

- **Electrical Insulation:** Especially important for metal-armored optical cables .

#### Brands and Components

- **Motors:** Siemens

- **Transducers:** Emerson

- **Bearings:** NSK or equivalent

- **Electrical Parts:** Siemens, Omron, Schneider

- **Screw and Barrel: Jinhu Company** This combination of precision control, material versatility, and robust auxiliary systems ensures that optical cable outer sheath extruders produce high-quality, defect-free sheaths suitable for a wide range of fiber optic applications.

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During cable extrusion process, the outer cable sheathing surface of the plastic wire and cable must be printed with

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The wires are manufactured by coating the conductors with insulators via extrusion process to make a continuous profile. Co

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The main function of the fiber cable outer sheath is to protect the optical fibers in the optical cable from external damage.

Cable Extrusion Machine

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Tight buffered fiber extrusion line-optical cable machine

This Optical fiber cable production line makes tight buffered fiber 0.6/0.8/0.9mm. Cable

Fiber Optic Cable Extrusion Line

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Power Cable Sheath Extruder Line

Power Cable and Wire Jacket Extrusion Line Our power cable jacket extrusion line is specifically designed for low to high-voltage

Understanding the Cable Extrusion Process: Your

An extruder is an essential device in manufacturing cable as it facilitates the formation of raw

Outer Sheath

Information package of the outer sheath process requirements Recommendation for the line lay-out arrangement and equipment

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Optical Cable Sheath Extrusion Production

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Extrusion Process of Wire and Cable Production

The extrusion process includes both the insulation and sheath production process. The basic method of producing the plastic

Cable sheath extruder machine

Types of Cable Sheath Extruder Machines A cable sheath extruder machine is a vital piece of industrial equipment used to apply

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Wire and Cable Extrusion Working Principle

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Fiber Optic Cable Sheathing

The sheathing process is where you apply the final touch to your loose tube fiber optic cable. Mechanical properties for different

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