

Simplex & Duplex Indoor Optical Fiber Cable Production Line



1. Introduction

Simplex and duplex indoor optical cables are suitable for the interconnection between instruments and communication equipment. It uses tight sleeve optical fiber, high-strength aramid reinforcement, with flame-retardant outer sheath structure. The structure of the optical cable is simple, with a small outer diameter and light weight; the all-dielectric structure is free from electromagnetic interference. It is easy to strip and use, so it has a very wide range of applications in indoor optical communication systems.

We have many years of experience in research and development and manufacturing of optical fiber and cable production equipment. The simplex and duplex indoor optical cable production lines provided are suitable for the production of 1-2 cores indoor optical cables which can extrude PVC, LSZH and other jacket materials. The production line has the characteristics of uniform extruding outer diameter, smooth appearance, fast production speed, high production efficiency, precise take-up and pay-off tension, and easy operation. It is a professional production equipment for single-core and double-core indoor optical cables.

The whole machine of this production line adopts the control technology combining industrial computer and programmable logic controller, namely PC + PLC mode to realize the synchronous operation of the whole line and the independent operation of the single machine. The operation of the production line, the setting and display of parameters, etc. are all carried out by industrial control computer, the production control process such as motor start, stop, signal given, motor speed and other production status collection are realized by PLC. Data communication is carried out between the industrial computer and the PLC through the communication port. It can realize the functions of production operation, alarm display, and emergency stop of the production line.

2. Main Technical Parameters

Suitable extrusion material	PVC, LSZH
Structure speed	150m/min
Production speed	max.100m/min (simplex cable, LSZH) max.80m/min (duplex cable, LSZH)
Pay-off tension	(0.4N ~ 1.5N) \pm 0.05N
Pay-off bobbin	PN236, PN400
Aramid pay-off tension	(0.4N ~ 3.0N) \pm 0.05N
Aramid head	10

Take-up bobbin	PN400, PN630
Additional fiber loss	$\leq 0.02\text{dB/km}$

Product

link : <https://www.lintop.com/simplex-duplex-indoor-optical-fiber-cable-production-line.html>