How broadband gets into homes & businesses

Ensure’s signature PLC splitters can be crafted with various bandpasses, splitting ratios, fiber types and connector/packaging options. Every splitter is tested prior to shipment according to your specifications, with the strictest quality control procedures using calibrated test equipment.

We produce our own chips and wafers in our facilities and control the production process from beginning to end—ensuring premium quality for our customers.
PLC Wafers

With our engineers closely involved during production, Ensure’s planar lightwave circuit (PLC) wafers are premium quality. Our wafers are crafted through the coating, lithography, and exchange of glass substrate, fabricated onto different channels of quartz (2-4-8-16-32-64). We assure the highest level of optical performance, with outstanding yield, stability, and reliability.

Main features:

- Outstanding optical performance
- Low PDL & IL
- Excellent uniformity/vibration/drop resistance
- Full bandwidth applications
- High reliability compliance with Telcordia-1209 & 1221, PCT environmental tests
### Product information:

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PLC Chip

As one of the key components of Ensure’s PLC splitters, our chips have been renowned in the marketplace for superior optical performance, stability, and reliability for many years. An integral part of passive optical networks that allow multiple subscribers to receive light signals simultaneously, our PLC chips utilize lithography technology to divide optical power from one or two input ports into multiple output ports.

PLC chip is one of the key part of PON networks to cover many subscribers for receiving light signals at the same time with his efficiency.

Main features:

- Low PDL & IL
- Uniform chemical characteristics
- Wide range of operating wavelength
- RoHS compliance
## Product Information

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PLC Splitters

Main features:
- Smart design offering low IL and PDL
- Superior reliability
- Wide operating wavelength
- Wide operating temperature

Main applications:
- FTTH
- LAN/WLAN system
- PON
- CATV system
- Other fiber systems

PLC splitter types
- Cassette
- Tray
- Modular
- Bare-fiber
- Mini
- Rack-mounted

1xN PLC Splitter

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NOTE: Insertion loss is depicted as non-connectorized.
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NOTE: Insertion loss is depicted as non-connectorized

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Mini PLC

Main features:
- Smart and compact design
- Low IL and PDL
- Superior reliability
- Wide operating wavelength range
- Wide operating temperature range

ABS Cassette

Main features:
- Smart and compact design
- Low IL and PDL
- Superior reliability
- Wide operating wavelength range
- Wide operating temperature range
Additional information

Enviromental specifications

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Reliability specifications

Our PLC splitter technologies are Telcordia GR-1209 and GR-1221 qualified.

Packaging

We test every splitter we make with the strictest quality control prior to shipping, according to your specifications. We offer various packaging options and can custom-design your packaging including your logo, tailored to your needs.
Advanced PLC manufacturer

At Ensure, we love what we do and the industry in which we work. Alongside our parent company, HH Group plus our corporate telecom siblings, we’ve helped customers meet the future head-on since 2001. With a massive commitment to R&D, we manufacture the highest-quality optical network components in our own facilities plus provide premium connectivity solutions that consistently exceed customer expectations.

We’re well-known in the marketplace for best-in-class design and manufacture of PLC splitters. We control the entire production chain in our own facilities from beginning to end, starting with first-stage essential components all the way through to full turnkey OEM solutions for clients who desire ready-to-ship products in custom-designed, branded packaging.

Here’s how we do it:

1. **Communications start here**
   We invest substantial capital in specialized equipment to manufacture PLC wafers, chips, FA arrays and ceramic ferrules. We take great pride in the quality and precision of our components.

2. **All steps under control**
   Our team oversees every step of the way in our high-capacity production facilities, with manufacturing procedures adjusted to the exact specifications of our clients.

3. **Quality and finish assured**
   We base our processes on the strictest international quality standards, ensuring premium quality in every PLC splitter that rolls off the line.
Client testimonial

“Vodafone’s quality assurance system guarantees strict adherence to internal quality standards as well as compliance with international standards and guidelines. Ensure’s ongoing evaluation of splitter performance and manufacturing contribute significantly to our achievement of the highest quality levels. Vodafone Portugal has been using Ensure optical splitters since 2015 without a single problem, giving us the confidence we need.”

Movistar’s official supplier

After a rigorous quality control assessment, Ensure has become an official supplier of premium connectivity components to Spanish multinational telecommunications company Telefónica and its subsidiary mobile and broadband services provider, Movistar. One of the world’s largest telecommunications and network enterprises, Telefónica entrusts Ensure to help Movistar achieve the highest level of quality for its customers while complying with strict internal and international standards.
Millions of PLC splitters shipped worldwide

We’ve shipped millions of passive components to satisfied customers around the world since 2001. Some fast facts:

- **1400+ Employees, including 60+ engineers**
- **24 Countries with happy clients**
- **55 Patents**
- **100% client satisfaction worldwide**

Give us a shout!

- Malu Town, Jiading District, Jiangsu Province
- Hong Xing Road, Minhang District, Shanghai
- Dingzhu, Nanning Province
- Odivelas (Lisbon), Portugal
- hello@ensure-ks.com
- www.ensure-ks.com