

Best standard:
Our FO components



Added value 5

Assortment

Production 8

Our company 9

Data intensive applications require connections with the highest transmission rates. Alongside system solutions, HUBER+SUHNER develops and produces **the full breadth of standard components, in order to fulfil increasing broadband demands.** With benefits in the field of fiber optics, which are well above average – from safety to security to ease of installation.



Standard fiber optic components

Components which are above average

Save space, increase efficiency, and reduce costs: standard fiber optic components from HUBER+SUHNER offer you many advantages. They can be installed quickly and safely, even under rigorous conditions, reliably, and fulfil all the prescribed standards. Customers trust our precision and the high availability of our products worldwide.

- **Standards and regulations**

HUBER+SUHNER is an active member of the International Standardization Committee IEC ensuring that standards and regulation are followed.

- **Patents and licenses**

HUBER+SUHNER secures its own developments through patents, and is the licence holder for LC, E-2000™ (FLSH) as well as LX.5 products.

- **Test laboratories and processes**

HUBER+SUHNER operates its own internal laboratories for all mechanical testing processes and test procedures relevant for the environment: fire, ageing, water, climate, bending, etc.

- **Research and development**

HUBER+SUHNER extends its product portfolio with specific platform strategies and with the focus on direct advantages for its customers.

- **Quality management**

HUBER+SUHNER ensures Swiss Excellence with an integrated, global management system for all business processes.



Added value



HUBER+SUHNER places value on fiber optic standard products: Discover the many advantages which make our connectors, adaptors, pigtails, patch cords and cables the first choice for innovative FO solutions. You will find further good reasons at:

hubersuhner.com/fo-components





Tremendously small: LC push-pull

Copied many times, never achieved: The original HUBER+SUHNER push-pull mechanism combines the simplest installation with the highest packing density. Ideal for situations in which access is made more difficult through neighbouring connectors and adaptors.

- Improved plugging function through access to the unlocking mechanism from all sides
- Patented mechanism (US 8.221.007)
- Single piece design for simple manufacture
- Short rigid length
- Available as simplex and duplex models
- Change channels without using any tools



LC push-pull

Premium quality: E-2000™

Wherever highly sophisticated demands are made on connecting performance, safety and stability, HUBER+SUHNER offers a large product assortment in highly reliable and easy to use E-2000™ connector plugs.

- Automatically closing protective covers, which protect against dirt and invisible laser light
- Minimal signal line loss
- Single piece design for simple manufacture
- Colour coding and mechanical coding for quick identification of transmission lines



LSH™

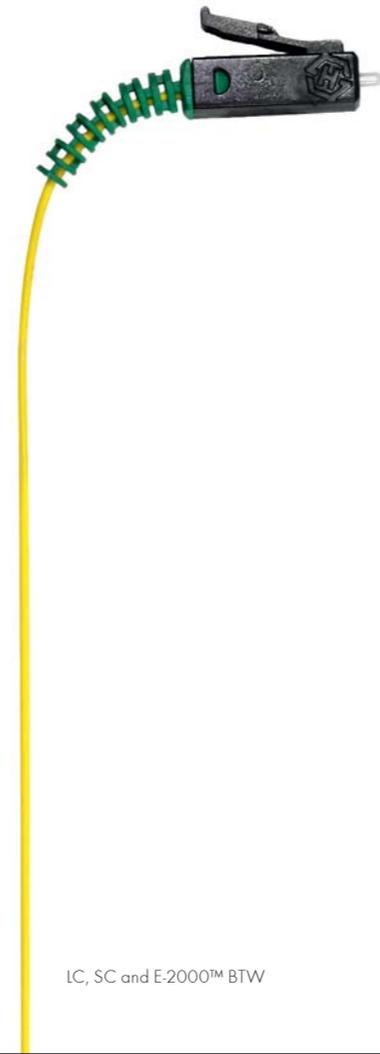




Maximum flexibility: Pigtails

Fiber optic requirements can be achieved without any problem using HUBER+SUHNER technology. With our pigtails the tightest of spaces can be used in an optimum way. They are setting new standards with their minimum bending radius.

- Smallest axial space on the market
- Patented mechanism (US 8.931.963)
- Optimum connection between the connector plug and the adaptor
- Bending protection with improved bending characteristics
- Complies with RoHS and REACH guidelines



LC, SC and E-2000™ BTW

High density for all: SC HD Clip

Simple and future-proof: HUBER+SUHNER adds a system to fiber management. With a high packing density: The SC HD Clip is available for all fiber management cassettes.

- Highest packing density through an extending grip
- Established adapted design
- Stable lever for simple use
- Annotation of channels is possible



SC HD





Stable values: Adaptors

HUBER+SUHNER standard also means constantly having the correct solution readily available and functioning where others already failed a long time ago.

- Highest mechanical stability
- Fewer interfaces
- Higher performance
- Minimal losses



Adaptor

Standard for the home: Blink and Clik

The next generation: HUBER+SUHNER taps into the residential field with the maximum possible bandwidth using the latest innovations in the field of fiber-optic connectors.

- 4.9 mm diameter for fiber in the home (Clik)
- Simple installation without any housing installation (Clik)
- Metallic dust and laser guards (Blink)
- Self-release mechanism (Blink)
- Patented design (EP 1504296)
- Standardized according to IEC 61754-29 and IEC 61754-30



Blink

Clik





FO Cable

From Wide Area Network (WAN) down to Fiber in the Home (FiH): The worldwide need for fiber is growing and growing. HUBER+SUHNER covers this with FO cables, which withstand the highest demands and can be equipped with up to 288 fibers.

- **Indoor cables** are easy to install, rapidly and securely with a minimum bending radius
- **Outdoor cables** with high resistance to weathering, for installation in the ground and in rough surroundings
- **Universal cables** with the best characteristics from both worlds (indoor/outdoor)
- **Special cables** with a higher resistance for customer-specific industrial applications



Standard fiber optic components

Breakout

Optipack



Manufacturing competency through knowledge and experience

HUBER+SUHNER operates more than 13 production facilities worldwide, in which our Swiss know-how unfolds globally. Ecological sustainability forms one focus of our manufacturing. This is taken into consideration and examined as early as the development and construction of the components.



- **Specialized in injection moulding**
HUBER+SUHNER has specialized in the processing of high-performance materials and high-temperature polyamides for precision components.
- **Leading in extrusions**
HUBER+SUHNER develops and manufactures fiber optic cable worldwide with state-of-the-art technology, in order that high efficiency, reliability and quality are guaranteed.
- **Automatic installation**
HUBER+SUHNER has a fully automatic, flexible installation process in Switzerland, with an output of up to 80 million items per year.
- **Flexible manufacturing**
HUBER+SUHNER provides numerous pre-assembled standard solutions as well as their own special tools, with which their components can be manufactured.
- **Years of expertise**
HUBER+SUHNER has been one of the leading manufacturers of fiber optic components for many years - from high-precision tool-making to high-end test procedures.



Standard fiber optic components

Production

Closer to the customers through a global presence

Excellence in Connectivity Solutions - all around the world: HUBER+SUHNER remains close to its customers in more than 60 countries. Comprehensive solutions in the three technologies of radio frequency, fiber optics and low frequency for the three markets of communication, transport and industry making the Swiss company into your ideal partner for the best connections.

Swiss values, experienced worldwide

HUBER+SUHNER embodies everything that makes the Swiss one of the leading industrial nations: quality, precision, reliability, high-performance. We also strive to achieve our values worldwide: honesty, fairness and social responsibility.

Production and installation, manufactured worldwide

HUBER+SUHNER operates its own manufacturing plants throughout the entire world, and in this way ensures that regional requirements are fulfilled. In addition, we cooperate with numerous assembly plants, in order to extend our capacity and range of cover.

Sales and support, delivered worldwide

HUBER+SUHNER has a global presence for maximum market accessibility. With 14 subsidiary companies and representatives in more than 60 countries. Our global network guarantees not only the fastest availability, but also support, which is best in class at all our locations.



Our company

Network solutions, industrial applications or fiber in the home: **The wide assortment of HUBER+SUHNER standard fiber optic components connects each field with the future.** We are continually developing our product assortment for you with our Swiss pioneering spirit, engineering skills and global reach.

hubersuhner.com/fo-components

HUBER+SUHNER AG
Fiber Optic Business Division
Degersheimerstrasse 14
9100 Herisau
Switzerland
Phone +41 71 353 4111
hubersuhner.com

HUBER+SUHNER is certified to ISO 9001, ISO 14001, ISO/TS 16949 and IRIS.

Information

The details in this document are for information purposes only.