SFO (Splitter Fan-Out)
Increase efficiency in FTTH distribution centres



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HUBER+SUHNER

Innovative solutions

In addition to a high-performance distribution center, a modern fiber optic infrastructure is the core element for high data rate transmission. High-quality and high-density components ensure the provision of new services, such as 5G, Industry 4.0, IoT and virtual reality, as well as the growing volume of data and connections they bring.

At HUBER+SUHNER, we help you to get more out of your GPON networks to achieve higher scalability and a more efficient operation. To do this, we work closely with all of our customers to develop advanced products that meet growth needs and are ready for the next generation of communication networks.

Our goal:
More power - compact product solutions - optimal performance.



Our extensive knowledge and experience make us the leading provider of connectivity solutions and innovative services for indoor and outdoor FTTH applications.



HUBER+SUHNER technical consultants support you to do more with less space by designing and setting up an immaculate system that delivers optimal performance – now and in the future.



With a global production network and our own companies and representatives in more than 80 countries, we are there to support our customers every step of the way.

Revolution in the distribution center

In the early 19th century, oil and coal were the main driving forces behind the development and performance of industrialisation. Today, the success of distribution centers and headends has become the new measure of the digital evolution. Performance, efficiency and data speed, as well as scalability and sustainability, are the cornerstones of a modern data network. As such, fiber optic network structures are critical for success. Only FTTH networks can reliably transmit the data capacities that the digital world will demand in the future.

“Data means to this century what oil meant to the past: an engine for growth and change.“

The Economist 5/6/1

Network operators face major challenges

When setting up and expanding FTTH main distribution frames and GPON network installations, a lack of clarity and limited space are often major obstacles. During planning or network expansions, operators, installers and maintenance teams repeatedly face the challenge of full racks and many different individual cables and plug-in modules. These have to be connected, labelled and neatly routed, taking up precious time and resource.

HUBER+SUHNER develops innovative products that help data networks become more efficient, while being easy to install and handle.



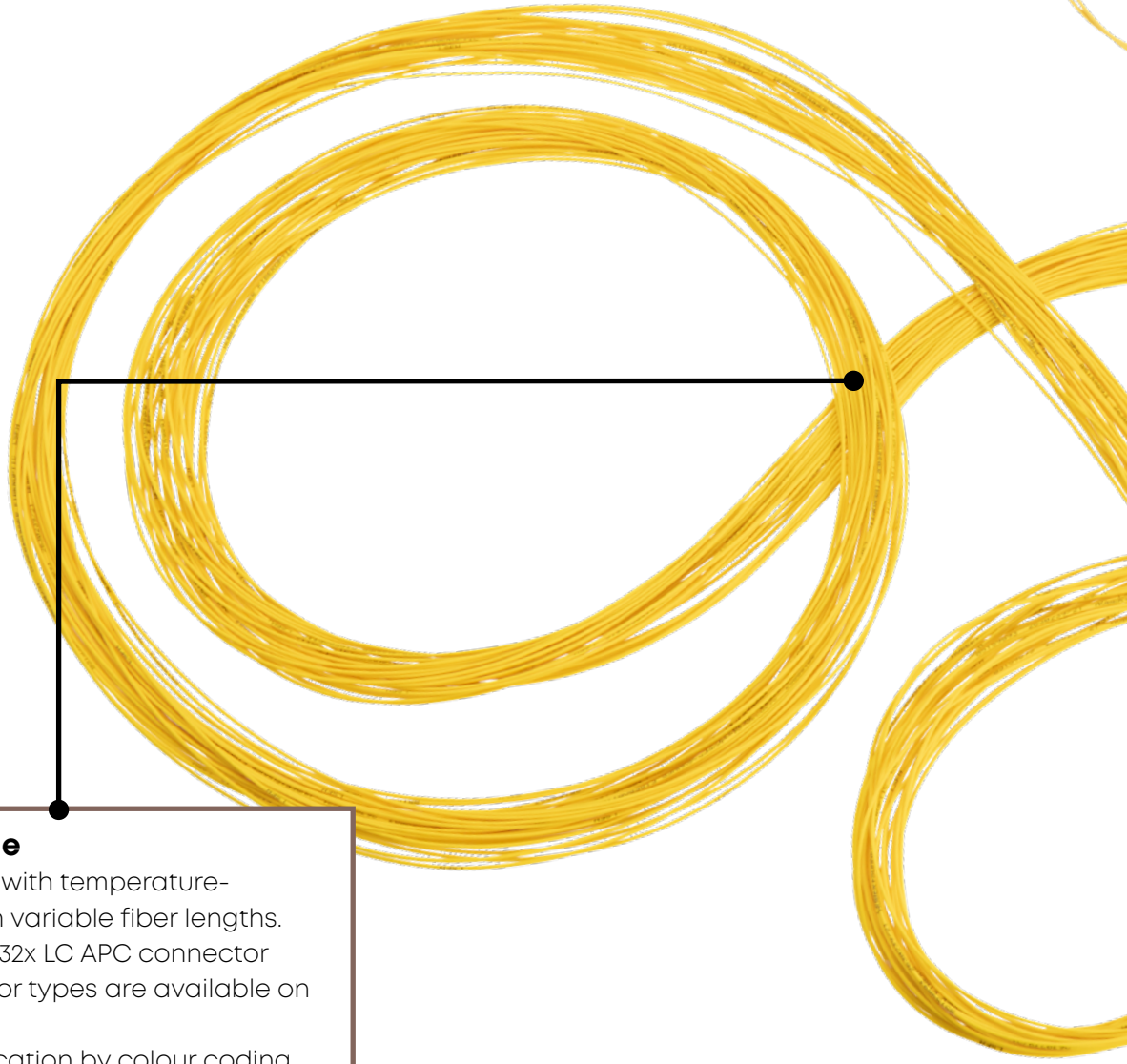
SFO (Splitter Fan-out) cable system
The three-in-one solution

Using our fiber optic cable manufacturing experience of more than 30 years, we have developed the new SFO Splitter Fan-Out cable system to revolutionise the existing distribution structures in your GPON networks.

With the new SFO solution, planners, installers and network operators can reduce the space requirements in their distribution centers to make the most out of the space they have. The SFO's smart, simple and efficient design ensures clarity and reduces the risk of human error during installation and maintenance.

In addition to functionality, the temperature resistance, durability and sustainability of the materials used in the solution was a priority during the development phase.

The SFO cable system combines three essential components into one: Patch cable, breakout cable and splitter box – all in one convenient, multifunctional module.



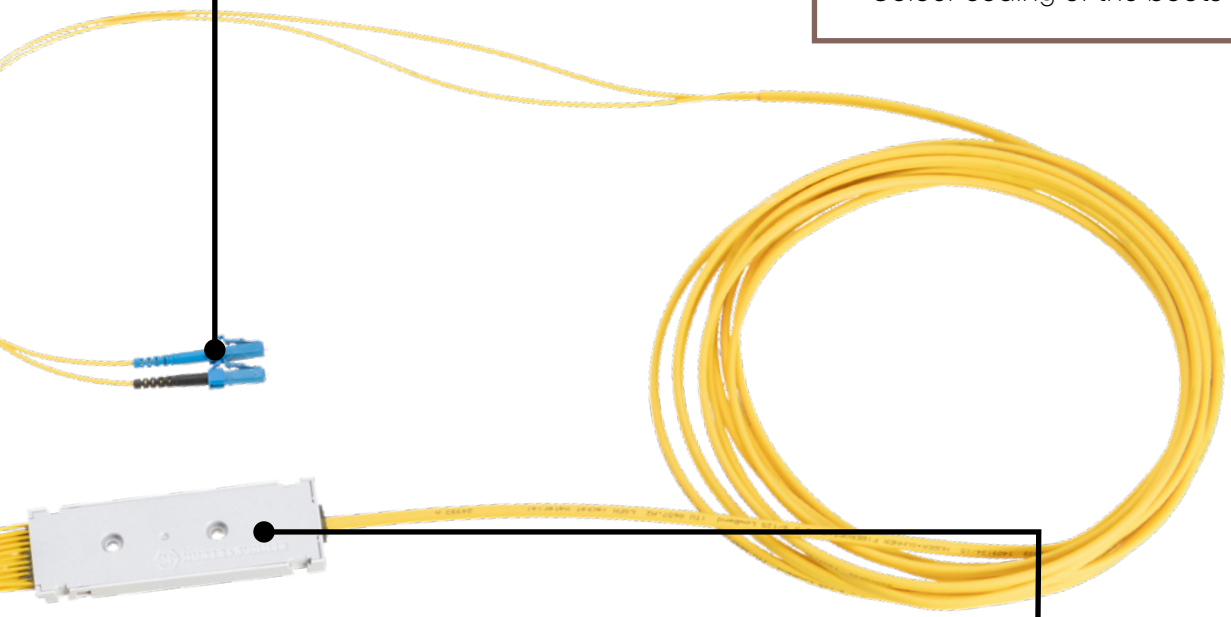
Breakout cable
Fiber optic cable with temperature-resistant jacket in variable fiber lengths.

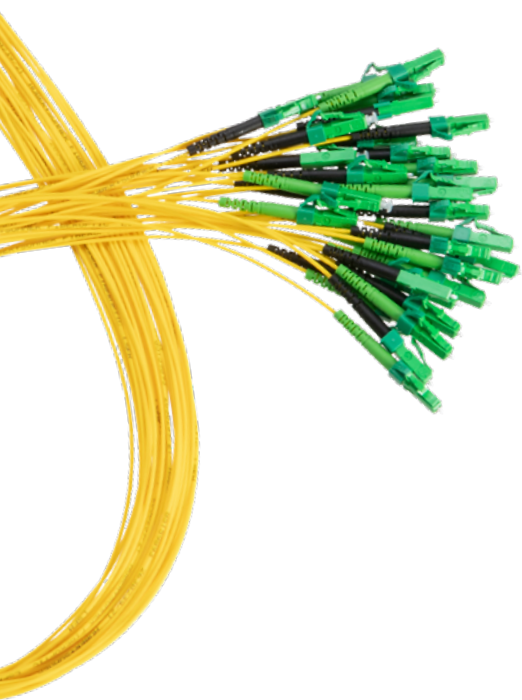
- Versions in 16x, 32x LC APC connector (other connector types are available on request)
- Splitter identification by colour coding

Patch cable

Fiber optic cable with temperature-resistant jacket in variable fiber lengths.

- Double jacketed cable for extra protection
- 1- or 2-fiber input
- LC/APC connector (other connector variants available on request)
- Colour coding of the boots





Splitter module

Ultra-compact splitter module made of hard plastic.

- Smallest dimentions with only 60 × 100 × 180 mm
- Maximum stackability in an optional metal housing for up to 6 splitter modules (3 can be stacked)
  Alternative: Carrier suspension up to 26 splitter modules (saving 8-13 HU conventional splitter cassettes)
- Available versions:
  - 2x 1:8 or 2x 1:16 splitter
  - 1x 2:16 or 1x 2:32 splitter
- Individual labelling possible





SFO (Splitter Fan-Out)
Expansion through reduction

The SFO cable system by HUBER+SUHNER is designed for fixed-access network customers that are looking for a cost-effective, space-saving and easy-to-install solution for GPON applications. It connects the optical network termination (OLT) port to the customer port in the optical, main or secondary distribution frame.

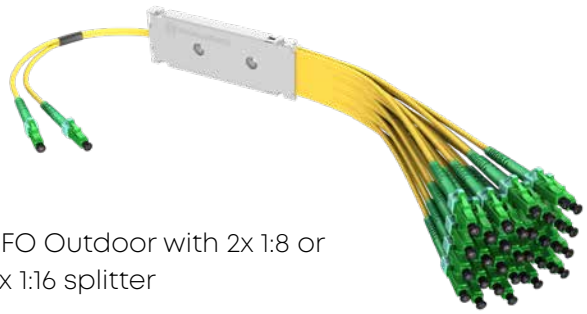
The three-in-one product combination reduces installation time, decreases the risk of human error and improves serviceability. It increases fiber optic density and maximises space – saving up to 30 percent rack space. The elimination of a large number of splitter cassettes enables additional devices and applications to be installed, resulting in a more efficient data network. In addition, due to the lower number of plug connections the optical signal strength is better at the customer connection than at the classic expansion.

SFO for outdoor applications

Thanks to the new outdoor version, the ultra-compact distribution module can now be used in outdoor applications and distribution points in more extreme environmental conditions. During development, great importance was attached to requirements such as durability and longevity. Especially in outdoor distribution points such as street cabinets or POPs, harsh conditions such as humidity or extreme heat or cold loads are prevalent. The performance of the SFO Outdoor cable system is not affected even with temperature fluctuations of -25°C to +70°C. At the same time it provides all the advantages of the indoor variant.



SFO Outdoor 1x 2:16 or
1x 2:32 splitter
(black cable = MOQ)



SFO Outdoor with 2x 1:8 or
2x 1:16 splitter



Your benefits at a glance

Reduce complexity

Versatile three-in-one product combination consisting of a patch cord, splitter box and single fiber fan-out.

Save valuable rack space

Ultra-compact splitter module eliminates the need for a large number of single splitter boxes.

Improve efficiency

With fewer connections and ease of use, installation time is reduced, resulting in lower failure rates.

Better signal quality

Fewer connections mean lower insertion loss, resulting in higher and more stable distance transmission.

Optimisation of operating costs

Easy installation, ease of maintenance, and the elimination of up to 26 splitter cassettes save time and money.

Invest in growth

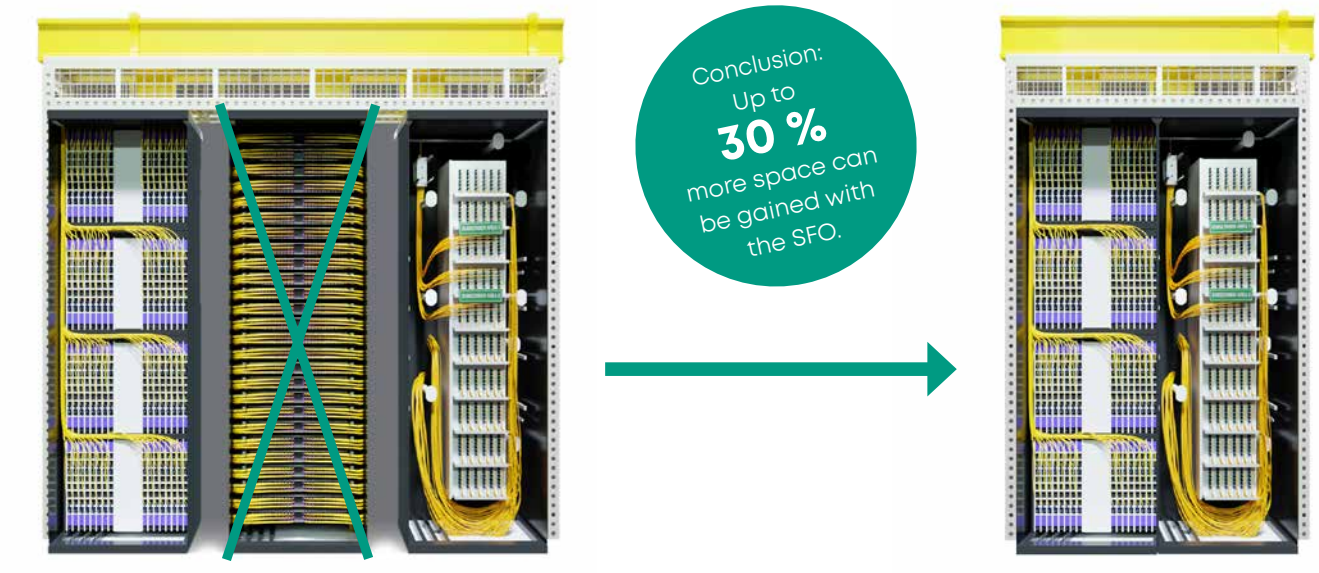
Versatile variations allow for easy integration into existing street distribution cabinets and future-ready installations.

Robust in outdoor areas

The SFO Outdoor is moisture resistant and can withstand temperatures from -25°C to +70°C.

Durable and reliable

High-quality materials enable outdoor applications and ensure many years of use.





Connecting – today and beyond

About HUBER+SUHNER

We are a leading global supplier of components and systems solutions. With our broad range of products and deep know-how, we serve the industry, communications and transportation markets with applications from the three technologies of radio frequency, fiber optics and low frequency. And as a global company with a presence in over 80 countries, we stay close to our customers. Always.

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