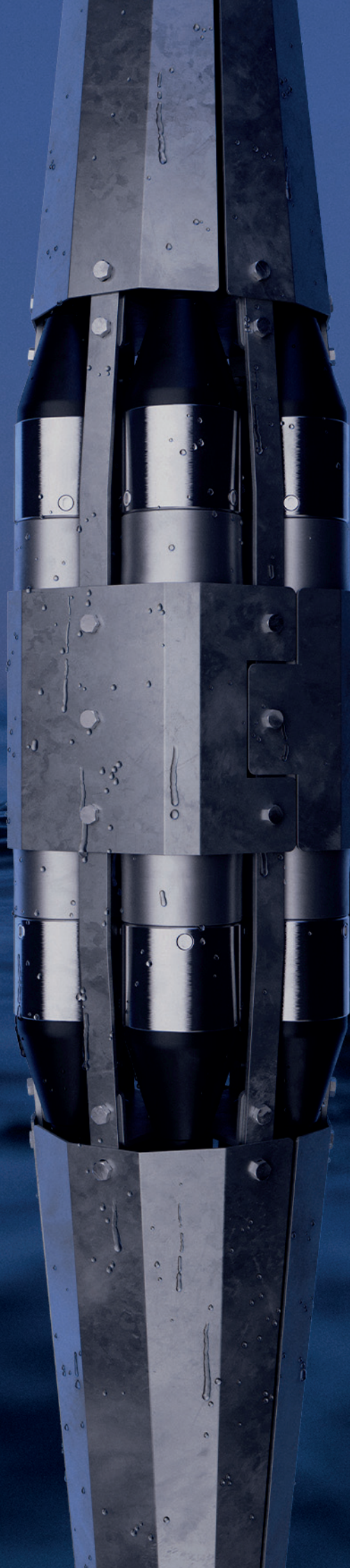


Seaflex®
Submarine fiber
jointing. Simplified.



tykoflex.com/products/seaflex

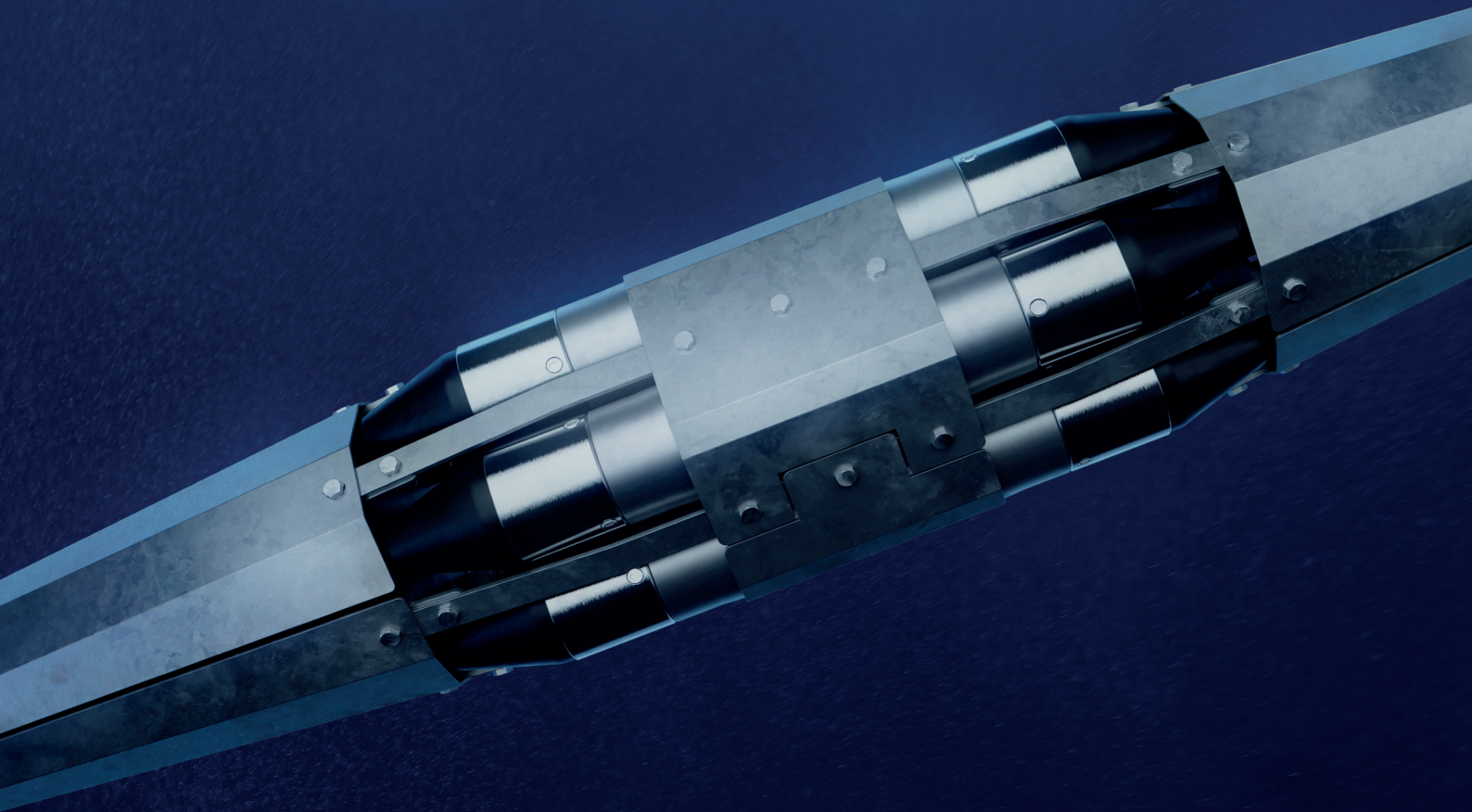


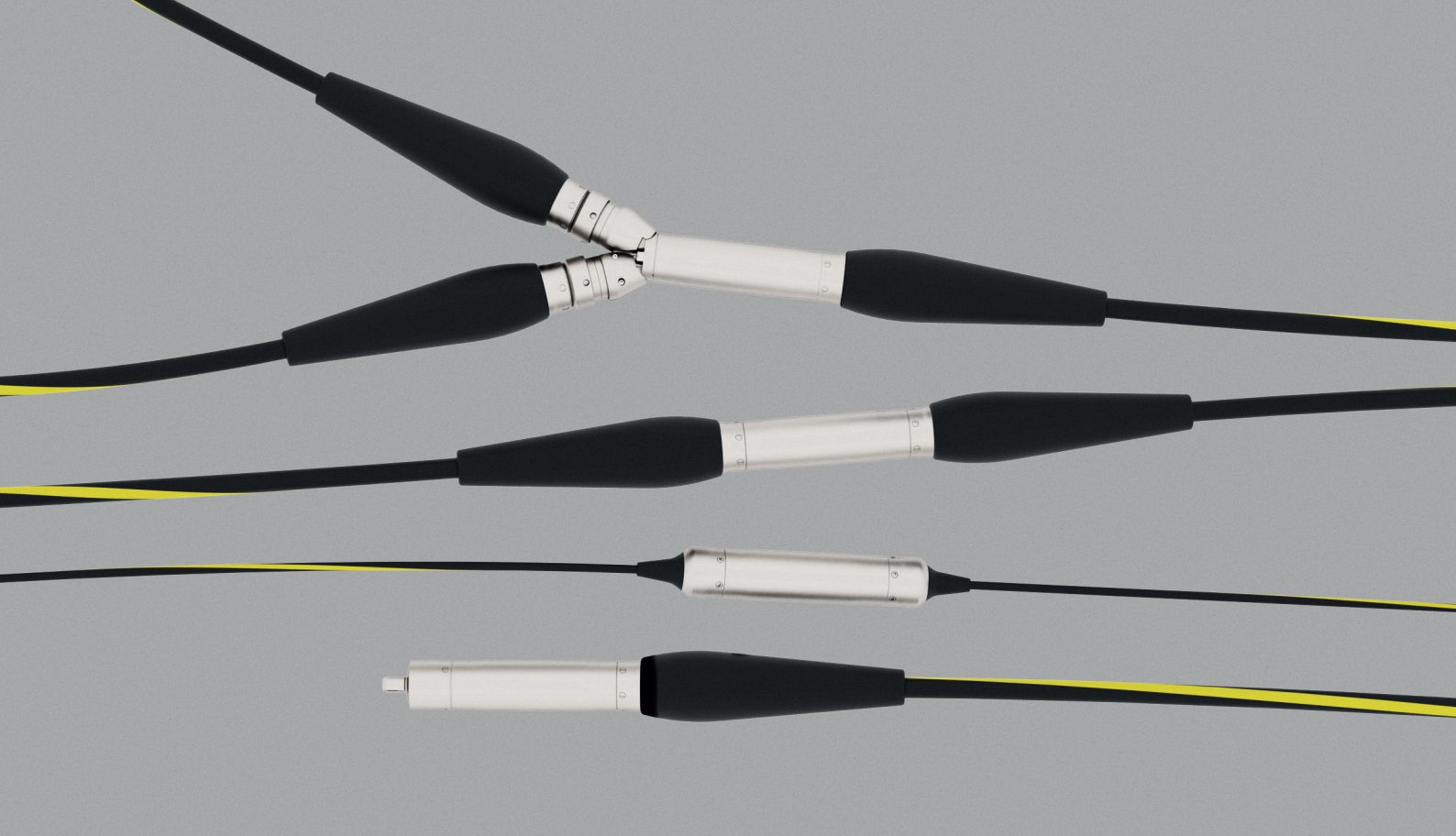
Built for rapid deployment, long-term reliability, and extreme depths, Seaflex® brings flexibility and proven performance to the world's most demanding marine environments.

Seaflex® is Tykoflex's premium solution for submarine fiber optic cable jointing, engineered for exceptional performance in harsh subsea conditions. Whether installed along coastlines, across fjords, or on the seabed in offshore environments, Seaflex® combines rugged durability with out-standing adaptability.

Its proven design ensures protection and continuity for fiber closures subjected to water pressure, salinity, shifting substrates, and mechanical stress. Easy to configure and install, Seaflex® helps reduce downtime, minimize maintenance costs, and secure long-term operational integrity. Trusted by infrastructure providers worldwide, Seaflex® sets a new standard in submarine cable joint technology.

For marine and
offshore environments





Seaflex® Standard

"Seaflex" is a family of joints designed for optical submarine cables. It is made of highly corrosion resistant material and applicable to most cable designs. The joint is designed for an easy and quick assembly with common and ordinary tools. The assembly procedure of the joint includes no welding or soldering. The assembly procedure is also carried out without interruption.

General data:

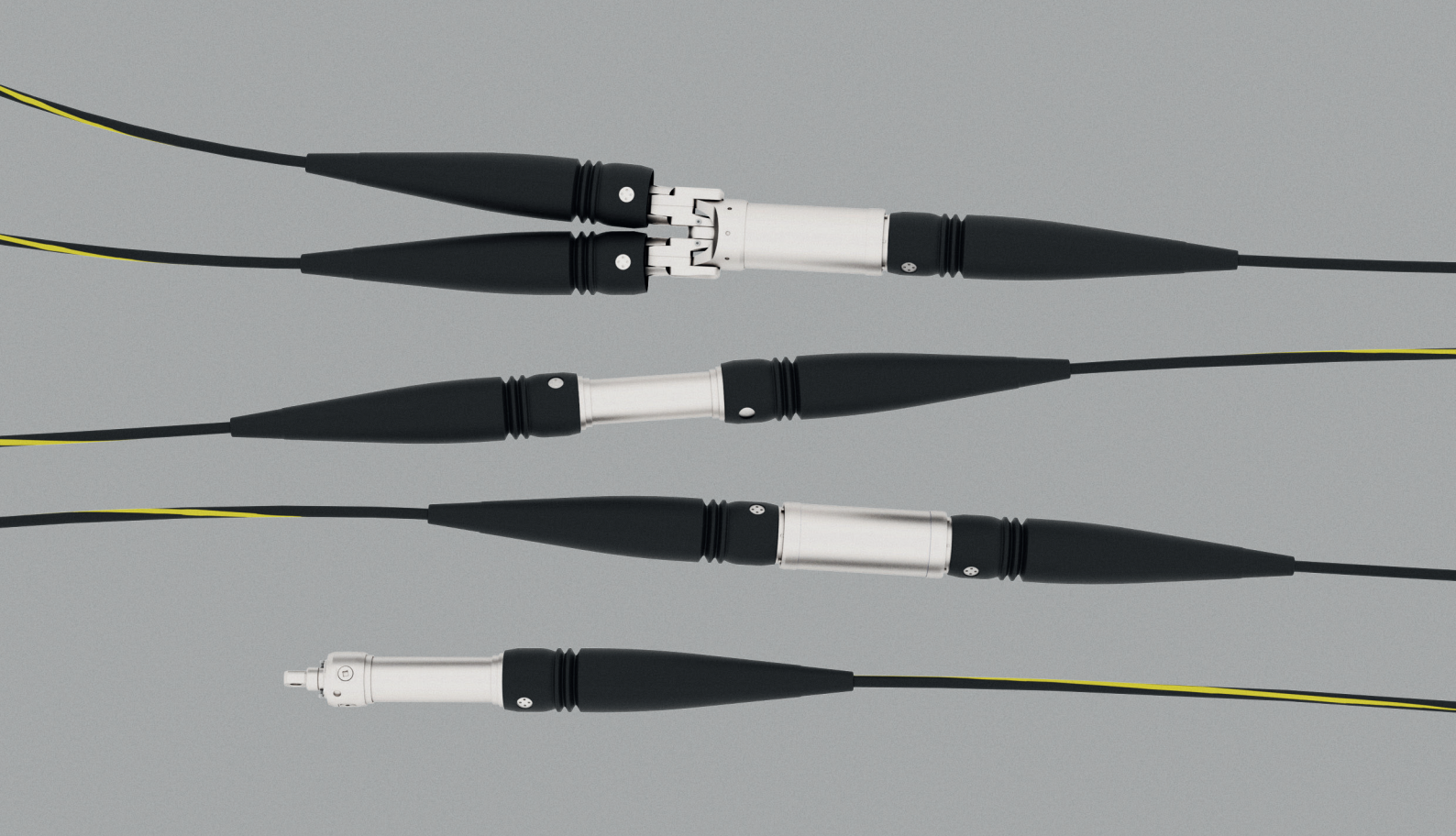
Minimum bending radius: 1.5 m

Approved installation depth: 3000 m (Depending on cable)

Material: Stainless steel, offshore quality

Operational life: Designed for more than 25 years (track record 30 years).

Product	Fiber capacity	Diameter	Weight	Length
Seaflex® STD Straight Joint	288	Ø115 mm	~48 kg	1650 mm
Seaflex® STD ROPA Unit	144	Ø115 mm	~48 kg	1650 mm
Seaflex® STD Branch Unit	288	Ø115 mm	~70 kg	1650 mm
Seaflex® STD lay down loop head	288	Ø115 mm	~36 kg	1165 mm
Seaflex® STD integrated	288	Ø115 mm	~22–25 kg	600–754 mm



Seaflex® Heavy Duty

Seaflex Heavy Duty is a family of joints designed for optical submarine cables. Compared to the Seaflex standard family, the Heavy Duty family is designed for even higher cable loads, making it suitable for installation down to 5000 m. Just as the Seaflex Standard, it is applicable to most cable designs and is designed for an easy and quick assembly with mostly common and ordinary tools.

General data:

Minimum bending radius: 1.5 m

Approved installation depth: 5000 m (Depending on cable)

Material: Stainless steel, offshore quality

Operational life: Designed for more than 25 years.

Product	Fiber capacity	Diameter	Weight	Length
Seaflex® HD Straight Joint	288	Ø165 mm	~65 kg	2080 mm
Seaflex® HD ROPA Unit	288	Ø170 mm	~100 kg	2200 mm
Seaflex® HD Branch Unit	432	Ø180 mm	~130 kg	2400 mm
Seaflex® HD lay down loop head	288	Ø165 mm	~60 kg	1440 mm

Benefits

Fast & simplified deployment

Quick and reliable operations reduce project delays. Compact, space-saving jointing tools can be air-shipped for rapid delivery, stored directly on vessels, and handled easily on site. The installation process requires no injection moulding, x-ray, welding, or heavy hydraulic tools making it straightforward and time-saving without compromising reliability. Suitable even for small barges, enabling versatile deployment and repair options.

Efficient & flexible certification

Fast, accessible training ensures teams are operational sooner. Certification can be completed in as little as two days, with re-certification required only every three years - far less frequent than other industry alternatives.

Cost-effective solution

Streamlined processes and extensive in-house capabilities reduce overall costs without compromising on quality or performance.

Trusted globally

Seaflex® has been relied upon worldwide since 1996, with proven and consistent performance in some of the most demanding offshore conditions.

Universal compatibility & modular design

Works seamlessly with most cable designs and manufacturers. The modular system, built around a main closure housing with cable-specific kits, adapts to different installation needs - whether in-line, branch, or ROPA configurations.

Engineered for demanding environments

Crafted from high-grade offshore stainless steel in Sweden, Seaflex® ensures durability, reliability, and full quality control in even the toughest conditions.

Ease of maintenance

A re-enterable design simplifies maintenance and minimises long-term operational disruptions. Specialised versions are available for micro cables, ribbon fiber, and single fiber applications.

Fiber closures as an innovation platform



Seaflex is not just a fiber closure. It is an innovation platform developed through strategic collaboration with partners such as Kongsberg Discovery and as part of EU-funded research initiatives like the Subsea Resilience Program. Together, we are exploring how smart enclosures can play a critical role in the future of subsea infrastructure.

By integrating sensors, monitoring capabilities and intelligent technologies, the enclosure becomes an active part of the network. A smart node designed to provide insights, increase resilience and support long-term operational reliability in demanding environments.

Do you want to explore the future of smart fiber enclosures with us?

Co-funded by the
European Union



Key Strengths

Fibers

Supports jointing submarine cables with up to 1728 fibers.

1728

Depth

Operational depth of up to 5000 meters

5000 m

Strength

High tensile strength requirements, handling up to 400 kN.

400 kN

Lifespan

Operational lifespan exceeding 25 years.

25+

