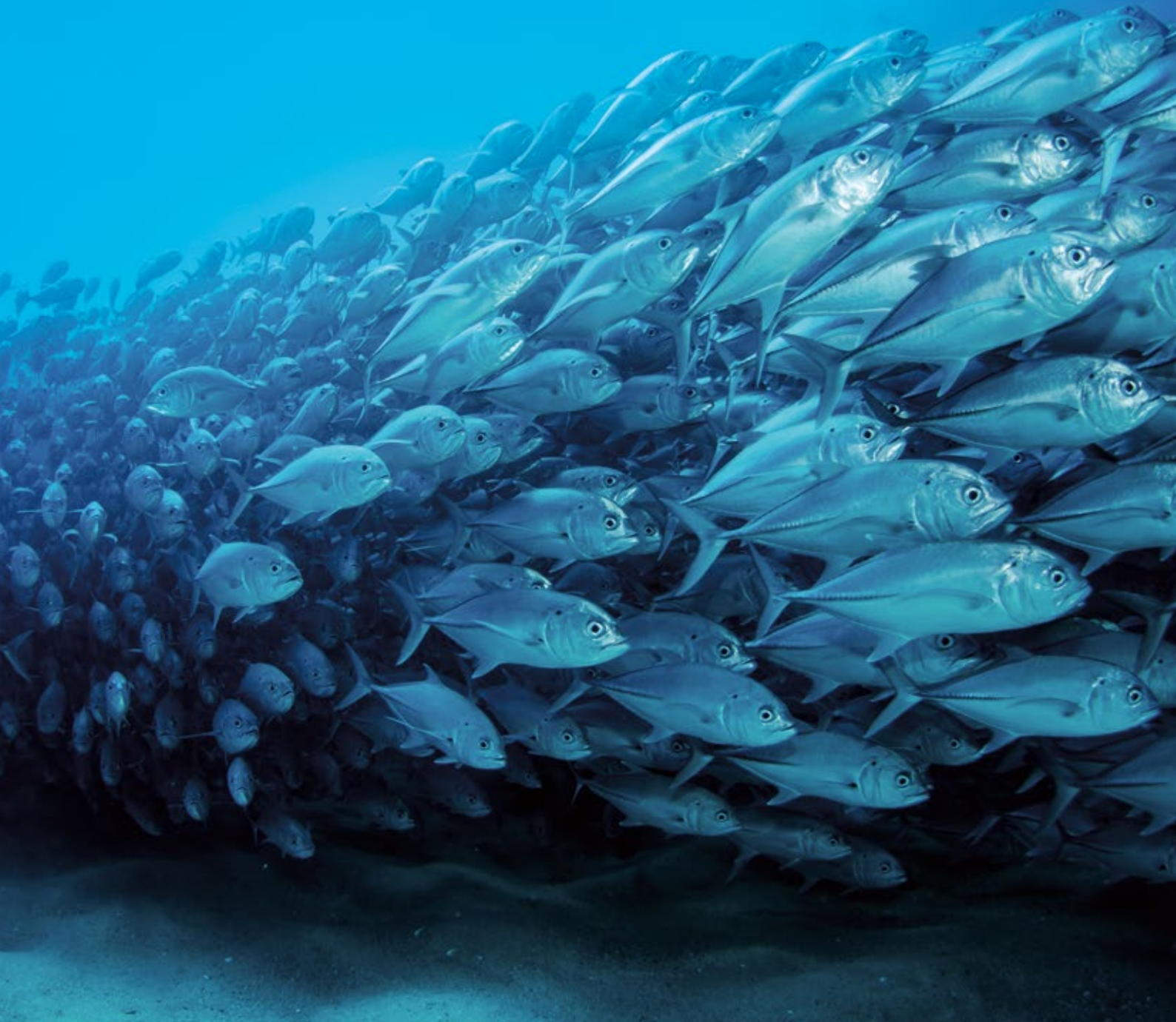


Time to split!

With our fibre joints and closures,
splicing is done in perfect formations.



Prysmian
Group

Linking
the Future

CONNECTING THE WORLD. TODAY AND IN THE FUTURE.

**Prysmian Group is world leader
in the energy and telecom cables
and systems industry.**

**With 140 years' experience,
the Group is strongly positioned
in high-tech markets and offers
the widest possible range of
products, services, technologies
and know-how.**

140

YEARS OF
EXPERIENCE

25

R&D CENTRES
AROUND
THE WORLD



We specialise in underground and submarine cables and systems for power transmission and distribution, special cables for applications in many different industries, and medium and low voltage cables for the construction and infrastructure sectors.



For the telecommunications industry, the Group is the world's largest provider of cutting-edge cables and accessories for voice, video and data transmission, offering a comprehensive range of optical fibres, optical and copper cables and connectivity systems.



We are committed to environmental responsibility in our production processes, the protection of the global environment, and the responsible management of relations with the local communities in which we work.



For us, innovation means meeting the needs of our customers and communities by understanding their business drivers as quickly as they do. To do that, our team of over 900 Research & Development professionals is constantly looking to the future, predicting and identifying emerging trends in each of our industries and sectors. Acting on this intelligence from 25 R&D centres around the world, we're constantly close to our customers in their own local markets.





Linking communities to the new digital world.

The world is in the midst of a data explosion. Across the globe, people are sharing, purchasing, downloading, streaming, connecting and communicating in the digital sphere. Living and working digitally is the new normal. And for network operators, this means managing a near-exponential increase in bandwidth. Modern day networks must provide robust physical infrastructure, trusted IT security and long-term reliability in order to meet the world's rising demand.

At Prysmian, we've been refining our technical expertise for more than 140 years, so we can support our partners with communication solutions throughout every step of their evolution.

Our global presence, combined with our experts' regional knowledge, mean we're uniquely placed to support the needs of every customer: from manufacturing high-performance and cost-effective data cables within tight lead times, to offering specialised network solutions which enable high-speed connectivity in the core network, within datacentres, or at the edge. And of course, our proprietary optical fibre technology sets us apart from our competitors.

At Prysmian, whether it's supporting our OEM customers to become specified within target projects or enabling our distribution partners to secure key orders and satisfy market demand, every solution we create is designed to help them follow or even shape global trends, and meet the needs of their own customers.

TAILORED TELECOM SOLUTIONS

When it comes to serving our Telecom customers, our FlexRibbon cabling solutions feature increased fibre density, allowing more efficient data transmission between the world's increasingly important Data Centres. Our SIROCCO family of cables enable network deployment where it's desperately needed within overcrowded infrastructure – all the while, performing at the highest standards of safety and technical compliance, and meeting key industry legislation. In fact, whatever product or service we supply, it's tailored to help customers and partners deliver the connected buildings, advanced IoT networks and smart factories of tomorrow.

STATE-OF-THE-ART FIBRE OPTICS

Our fibre optic systems are being adapted for special applications across the world: the cornerstone of building network and sensing solutions for industrial and Oil & Gas partners, providing a versatile connectivity solution designed for cable management needs – whatever the network type. And as the fiberisation of power networks continues, we are combining our experience with Energy Utilities and Telecom networks to provide solutions to deploy fibre through energy networks with OPGW, ADSS, and lashed systems.

WITH OUR CUSTOMERS, REACHING FOR INNOVATION

Above all, everything we do helps our customers become more innovative, reach more of their business milestones, and grow to be even more competitive within their market. We've been working with many of our customers for more than 30 years, continuing to deliver the service and quality they expect – whether we're supplying next-generation miniaturised cabling, or working to build a complete end-to-end IoT enabled solution.

By building long-term relationships with our customers, and understanding their business intimately, we can help them grasp new opportunities afforded by 5G, cloud-based Data Centres, Industry 4.0, Radio Access Networks, Pulse Electricity, and more.

For Prysmian, it's about more than being a market leader or setting global and regional quality standards. It's about adding, complementing and enhancing what's possible for our customers, helping them power the world's networks of tomorrow. And providing our service in the way they need it most.

It's about being the telecommunications industry's trusted partner of choice, and connecting people across the globe – today and in the future.

Time to split!

With our fibre joints and closures, splicing is done in perfect formations.

We can offer a wall-to-wall portfolio of well-ordered solution for splicing and distributing optical fibres in both point-to-point and passive optical networks (PON). Our different joints and closures can lodge a wide variety of fibre cables and the multi-functional closures are using the same type of circular ports to reduce the number of spares glands required, making installations fast and easy.

What we offer

From now on you only need one supplier to purchase both your fibre optic cables and connectivity products. Our range of joints and closures fit like hand in glove with our state-of-the-art range of Loose Tube, Mini Loose Tube and Flextube fibre cables as well as blown fibre. To make it even better: they are fully compatible with other brands available on the market, too.

All our multi-functional joints, Ultra compact Multi-function Joint (UMJ), Compact Multi-function Joint (CMJ), Medium Multi-function Joint (MMJ) and

Large Multi-function Joint (LMJ) have the same mechanical cable sealings and entries to reduce installation time and the number of spares glands required.

To our strengths we'd also like to add our ability to deliver on time and have a well-developed process for product availability. Other important strengths are inventory, cost leadership, channel management and customer relationships. Plus, we provide you with all the services that you might need: before, during and after purchase.



Multi-function joints

Prysmian multi-function joints offer complete fibre management for simple and fast installation. They are specially designed for track, spur and loop applications due to the compact sizes and fibre capacities, and ideal for use as Cable Chamber Joints, Track Joints, Spur Joints or Distribution Joints. You can rest assured that all our joints and closures are highly reliable with robust constructions based on highest quality materials.

APPLICATIONS

- **Backbone networks**
- **Distribution networks**
- **FTTH networks**

ULTRA COMPACT MULTI-FUNCTION JOINT (UMJ)

Key features

- Can accommodate up to 72 single splices.
- Accommodates 6 SE, 12 SC or 3 ribbon trays. The SE trays can also accommodate one splitter with up to 1:8 splitting ratio.
- Splice trays hinge upwards individually, allowing easy access to spliced fibres.
- Integrated loop storage facility for cable elements, providing also mid span access.
- Mechanical gland system to seal and grip cables. Heat shrink sealing also available on request.
- Can be used in aerial or underground networks.
- Reduced footprint with slim line bracket to allow fixing in small spaces.
- No need to over-sleeve elements with transport tubes. Route any fibre to any tray with raceway.
- Manifold system below trays allows fibre direction to be changed and can accommodate optical splitters.
- UV protected and hard-wearing, yet flexible, materials.
- IP68 sealed.

COMPACT MULTI-FUNCTION JOINT (CMJ)

Key features

- Can accommodate up to 144 single splices.
- Accommodates 12 SE, 24 SC or 6 ribbon trays. The SE trays can also accommodate one splitter with up to 1:8 splitting ratio.
- Splice trays hinge upwards individually, allowing easy access to spliced fibres.
- Integrated loop storage facility for cable elements, providing also mid span access.
- Mechanical gland system to seal and grip cables. Heat shrink sealing also available on request.
- Oval port entry uses heat shrink or mechanical system.
- Can be used in aerial or underground networks.
- No need to over-sleeve elements with transport tubes. Route any fibre to any tray with raceway.
- Manifold system below trays allows fibre direction to be changed and can accommodate optical splitters.
- UV protected and hard-wearing, yet flexible, materials.
- IP68 sealed.



MEDIUM MULTI-FUNCTION JOINT (MMJ)

Key features

- Can accommodate 288 single splices.
- Accommodates 24 SE, 48 SC or 12 ribbon trays. The SE trays can also accommodate one splitter with up to 1:8 splitting ratio.
- Splice trays hinge upwards individually, allowing easy access to spliced fibres.
- Integrated loop storage facility for cable elements, providing also mid span access.
- Mechanical gland system to seal and grip cables. Heat shrink sealing also available on request.
- Can be used in aerial or underground networks.
- Oval port entry uses heat shrink or mechanical system.
- No need to over-sleeve elements with transport tubes. Route any fibre to any tray with raceway.
- Manifold system below trays allows fibre direction to be changed and can accommodate optical splitters.
- UV protected and hard-wearing, yet flexible, materials.
- IP68 sealed.



LARGE MULTI-FUNCTION JOINT (LMJ)

Key features

- Can accommodate up to 4032 single fibres.
- Available in various lengths.
- Fully modular for adding tray stacks and back plates.
- Three cap sizes available: Small (48 trays), Medium (80 trays) and Large (112 trays).
- Mechanical gland system to seal and grip cables.
- Up to 720f Flextube loop storage and 276f Loose Tube cable loop storage.
- Modular system.

- Up to 112 trays (SE or SC) or 56 ribbon in largest cap size.
- Splice trays available for heat shrink or crimp splice protectors.
- Full flexibility for fibre routing to either side of stack. Any fibre can be routed to any tray.
- Input manifolds for stack to stack routing and fibre reversal.
- Can accommodate a range of splitter modules.
- Possibility of accommodating tubes and gas blocks.
- UV protected and hard-wearing, yet flexible, materials.
- IP68 sealed.



Joint closures

Our compact joint closures are designed for track and branch applications and made in high-qualitative materials to withstand wear and tear.

APPLICATIONS

- Distribution networks
- FTTH networks

MINI SPLICE BOX (MSB)

Key features

- Can accommodate up to 4 single splices.
- Compact design.
- Minimal visual impact.
- Quick and easy access.
- Up to four cable entries 4 mm to 6 mm.
- Easy to install.
- UV protected and hard-wearing, yet flexible, materials.
- IP68 sealed.



SMALL JOINT CLOSURE (SJC)

Key features

- Can accommodate up to 24 single splices.
- Closure has four knock out ports.
- Each port can accommodate one cable from 5 to 12 mm or two cables from 4 to 6 mm in diameter.
- Closure is supplied with two glands. Additional glands are available separately.
- Splice tray accommodates 2.2 mm splice protectors.
- Cable management plate to secure cables and route fibres.
- Robust construction enabling direct buried applications.
- Can be used underground or mounted to a wall.
- Gland available for double entry – 8 entries in total for 4–6 mm cables.
- UV protected and hard-wearing, yet flexible, materials.
- IP68 sealed.



MULTI-FUNCTION JOINT SEALING SYSTEM

The glands can be installed onto the cable and then simply pushed into the base of the joint. Multi-way glands are available to install multiple smaller cables into one circular port. Mechanical ports make the installation of the cable easier and quicker. If you prefer a heat shrink sealing we can offer that as well for some of the joints.





PRE-CONNECTORISED XMJ CLOSURE FOR MICRODUCTS

Key features

- A compact closure for the splicing and patching of optical cables, optimised for use with microducts and blown fibres/cables.
- Supplied with up to 2 (CMJ)/6 (MMJ) single element trays each able to accommodate 12 splices providing a maximum capacity of 24 (CMJ) 72 (MMJ) fibres.
- Drop cable capacity 12SC/24LC (CMJ) 24SC/48LC (MMJ)* via microducts
- Each tray has the provision to mount optical splitters.
- The closure base has 4 circular entry ports and an oval port.
- Drop cables are installed through a split seal and routed around the input mandrels
- A further two small ports are available as emergency ports.
- Circular port cables are sealed using a split mechanical sealing gland and supplied with pre-installed microducts.
- Oval port cables are sealed using adhesive lined heat shrink sleeves or using a mechanical oval port entry kit.
- Multi Way Split Entry Glands are available to allow the installation of a number of cables into one circular port.
- Splice trays hinge upwards individually, allowing full access to spliced fibres without disturbance to live fibres in adjacent trays.
- Integrated loop storage basket for mid-span applications.
- Can be supplied with a pole/wall mounting bracket.
- Always supplied with a pressure relief valve for safety reasons. These can also be used for earthing.
- Closure and glands sealed to IP68.

*MMJ closure cannot support 48 individual drop cables. Multi-fibre drops should be used to utilise the full capacity.



SIROCCO^{HD} XMJ CLOSURE

Key features

- A high capacity closure for the splicing and patching of optical cables, optimised for use with microducts and blown fibres/cables.
- Supplied with up to 36 single element trays each able to accommodate 12/24 splices (2.2/1.3 mm) providing a maximum capacity of 432/864 fibres.
- Each tray has the provision to mount optical splitters.
- The closure base has 4 circular entry ports and an oval port. Microducts up to 23 mm in diameter can be installed into each port.
- A further two small ports are available as emergency ports. These ports are for heat shrink entry and can accommodate a microduct of up to 12 mm in diameter.
- Circular port cables are sealed using a mechanical sealing gland and can be supplied with pre-installed microducts.
- Oval port cables are sealed using adhesive lined heat shrink sleeves or using a mechanical oval port entry kit.
- Multi Way Entry Glands are available to allow the installation of a number of microducts/cables into one circular port.
- Splice trays hinge upwards individually, allowing full access to spliced fibres without disturbance to live fibres in adjacent trays.
- Supplied with microduct restraint bracket for single way or multi way.
- Microducts can enter straight into the closure via a gland or reduced in diameter.
- Integrated loop storage basket for mid-span applications.
- Can be supplied with a pole/wall mounting bracket.
- Always supplied with a pressure relief valve for safety reasons. These can also be used for earthing.
- Closure and glands sealed to IP68.

COMMITTED TO INNOVATION

Ultra compact Multi-function Joints for fast fibre access.

"Densification is only going to increase as we move towards full FTTH and the roll-out of a 5G network. Space really is at a premium, so the focus for our product development teams is on producing ever more compact solutions."

Adam Ashenden, Product Manager for Prysmian Connectivity

Our R&D teams continue to link societies to the future. Our new Ultra Compact Multi-function Joint (UMJ) is designed to cope with increased congestion of ducts and chambers and the resulting space limitations for all fibre accessories. The UMJ is designed to accommodate up to 72 single splices. It can be used in aerial or underground networks and is an ideal solution for FTTH or smaller commercial fibre applications.

The UMJ is just the latest in a series of product developments to address the increasing challenge of fibre densification in telecommunications networks.

Do you want to know more?

Visit our website: www.prysmiangroup.com

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