

# Prysmian Group

# XSNET

Value Innovation for your Broadband Network

## JETNET<sup>XS</sup>

The fast track to fibre



 PRYSMIAN

 Draka

## Linking the future

As the worldwide leader in the cable industry, Prysmian Group believes in the effective, efficient and sustainable supply of energy and information as a primary driver in the development of communities.

With this in mind, we provide major global organisations in many industries with best-in-class cable solutions, based on state-of-the-art technology. Through two renowned commercial brands – Prysmian and Draka – based in almost 100 countries, we’re constantly close to our customers, enabling them to further develop the world’s energy and telecoms infrastructures, and achieve sustainable, profitable growth.

In our energy business, we design, produce, distribute and install cables and systems for the transmission and distribution of power at low, medium, high and extra-high voltage.

In telecoms, the Group is a leading manufacturer of all types of copper and fibre cables, systems and accessories – covering voice, video and data transmission.

Drawing on over 130 years’ experience and continuously investing in R&D, we apply excellence, understanding and integrity to everything we do, meeting and exceeding the precise needs of our customers across all continents, at the same time shaping the evolution of our industry.

## Introducing *xsNET*

From aerial and underground installations, through to both simple and more complex residential networks, Prysmian’s *xsNET* family of products and solutions represents a new standard in Fibre To The Home (FTTH). Answering the critical need for ease of deployment, flexibility, reliability and cost-efficiency – and being backed by a full suite of valuable support services – *xsNET* is the ideal range of cabling for today’s changing world.



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*xsNET*  
**INDOOR SOLUTIONS**

*xsNET*  
**POP SOLUTIONS**

*xsNET*  
**OSP SOLUTIONS**

*xsNET*  
**ENGINEERING SOLUTIONS**

**QUICKDRAW<sup>XS</sup>**

**SIROCCO<sup>XS</sup>**

**OASYS**

**JETNET<sup>XS</sup>**

**RETRACTANET<sup>XS</sup>**

**VERTICASA<sup>XS</sup>**

**VERTV<sup>XS</sup>**

**EASENET<sup>XS</sup>**

**BENDBRIGHT<sup>XS</sup>**

Supported throughout by *BENDBRIGHT<sup>XS</sup>* fibre technology



# JETNET<sup>XS</sup>

## Revolutionary idea, proven concept

If you have expansion in mind for the future, then *JETNET<sup>XS</sup>* from Prysmian offers the flexibility required for both installation and future adaptation.

Used worldwide and proven in countless applications, *JETNET<sup>XS</sup>* is based around flexible ducted systems, with microtubes housing a selection of miniaturised fibre optic cables. Zero splicing and compatibility with existing technologies mean it can be easily extended with additional microducts and higher-count fibre cables.

*JETNET<sup>XS</sup>* also leads the market in the support it offers its customers. Not only providing all the components, tools and accessories for installation and implementation, but also incorporating valuable support services, from initial network design through to installation, as well as training and coaching.



## Versatile concept for both outside plant and indoor technology

*JETNET<sup>XS</sup>* offers solutions for all portions of the network. Tubes are easily accessible and the concept offers great branching flexibility in fixed networks using simple connectors. Easily segment individual applications (CATV, telecom, traffic control all in different tubes).

## Future-proof and open to new fibre technologies

Add capacity without disturbing existing traffic, or easily and quickly add, replace or upgrade fibre in the future.

## Low initial investment, maximal spread of the investment over time

Greater savings are offered in overbuilds where new civil work can be eliminated.

## Protection of the optical fibre with miniature cable

Miniaturised optical fibre cables inside the duct are thoroughly protected against environmental influences. Cables comply with all national and international standards and recommendations for outside plant applications.

## Resists moisture, vapour and humidity and aggressive substances

Outer sheath construction of the *JETNET<sup>XS</sup>* cable protects the optical fibres against pollution and aggressive materials like oil and chemicals. The *JETNET<sup>XS</sup>* system doesn't depend on microducts and connecting parts for protection from water, vapour and humidity, thanks to a watertight design.

## Mechanical strength

The *JETNET<sup>XS</sup>* cable protects the optical fibres against pulling, crushing, kinking and outside influences, especially valuable during the building phase.

## Long jetting lengths, cascade possibility

With just one jetting unit, distances of up to 2,5 kilometres can be reached. By cascading multiple jetting units, only the production length of the cable limits the jetting length.

## High numbers of optical fibres per microduct

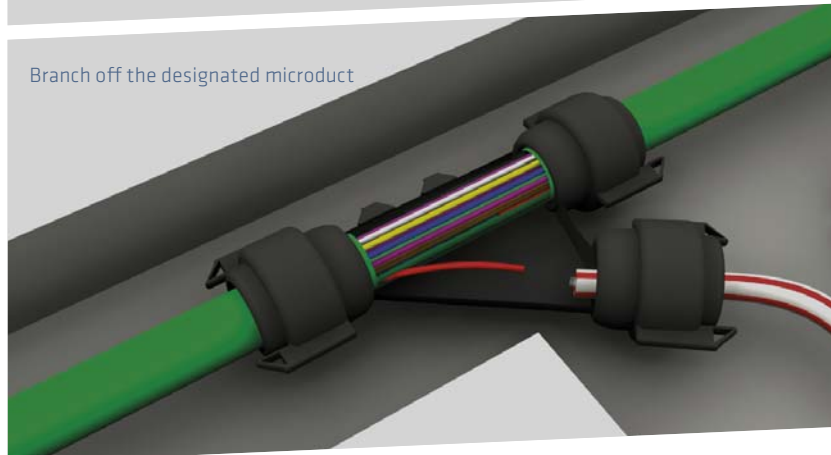
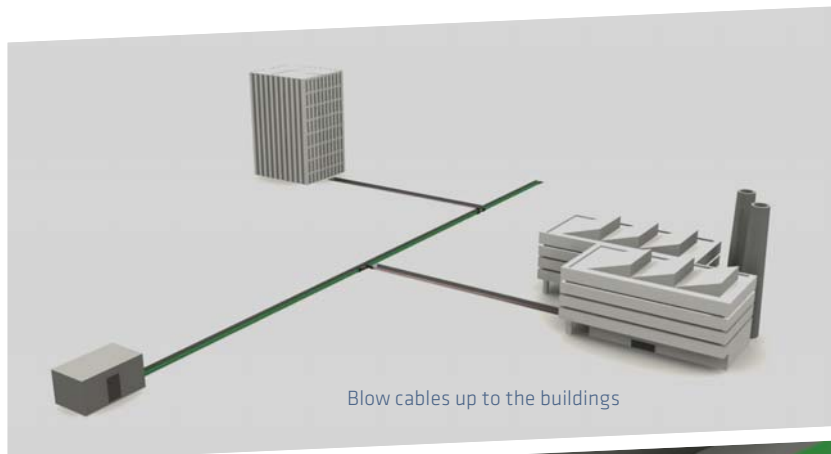
High fibre count cables greatly increase the capacity of a single microduct and the protective duct.

## Roll out: just three simple stages:

- 1 - Laying the protective ducts
- 2 - Jetting the microducts  
(or use pre-installed microducts)
- 3 - Jetting the cable

## The *JETNET<sup>XS</sup>* system is based on five basic components:

- The external protective duct
- Individual microducts in loose bundles
- Connectors and branching units for direct continuous paths
- Optical fibre cables
- Jetting technology



# JETNET<sup>XS</sup>

## Today's technology for tomorrow's demands!

Microduct insertion is achieved more economically in a factory environment than in the field and the pre-installed microducts allow for faster installation, with no need for jetting equipment on location.

Up to ten times the amount of fibre can be placed in the duct compared to traditional fibre optic infrastructures, and the need for splicing can be entirely eliminated. With JETNET<sup>XS</sup> cable loops or parallel ducts needn't be stored along the feeder duct from multiple splice points to the customer, saving material costs and installation time. At barriers such as road crossings the duct is cut and connected with simple standard couplings, allowing the microducts and cables to be jetted during the next stages, without interruption and with maximum jetting lengths. Also, fibres are less exposed to damage during the initial phase of construction.



### Components: outdoor

- Protective duct 40mm (1.25 inch)
- Individual microducts of 7 up to 12mm or bundles of 6 x 4mm
- Cable 3.9 up to 8.1mm or 1.8mm
- Street cabinet
- Handhole and joint
- Full range of accessories

### Components: indoor

- Flexible duct, flame retardant
- Pre-installed 4mm microducts
- Cable 1.8mm flame retardant
- Indoor duct distribution point
- Indoor fibre distribution point
- Full range of accessories





# One-stop-shopping with Prysmian's comprehensive integrated *xsNET* portfolio

Deploying a future-proof FTTx network is all about achieving the highest network reliability and customer satisfaction, whilst making the most of available resources and keeping costs low. Prysmian's fully integrated range of connectivity products provides all you need to build or adapt each segment of a low-maintenance FTTx network quickly and cost-effectively.

Our integrated *xsNET* range offers high grade optical fibre cables, carefully matched and easy-to-handle connectivity components and a choice of ducting solutions for indoor networks, outside plant networks and POP. And there's more: flexible design software and engineering advice based on three decades of broadband network design. With minimal effort, any network design, regardless of complexity or size, can be put together from scratch, updated or reconfigured.

## Prysmian Group's fibre optic and connectivity products

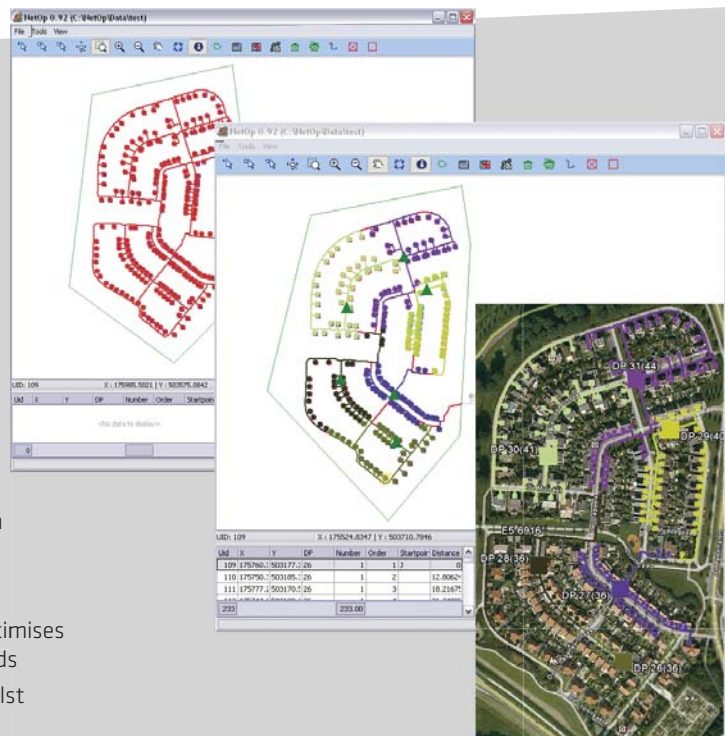
- Combined portfolio brings down the cost of FTTx
- Reach every community with an extensive portfolio of cable, connectivity and deployment technologies



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### Integrated *xsNET* concept

- Each standardised *xsNET* solution integrates seamlessly with the rest of the portfolio
- Each *xsNET* solution contains everything required to build a specific part of the network
- Operators can make service choices now, but also accommodate future upgrades and expansion
- Reduces the need for skilled labour
- Excellent logistical support
- Proprietary design software maps, configures, optimises and calculates costs of network concepts in seconds
- Changes and variations are easy to implement whilst designing and even after installation
- Expert engineering and consultancy services, plus professional support for building a winning business case



# Linking communications to communities

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