

VERTV^{XS}

The ultimate solution for TV Broadband cabling



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.



Value Innovation for your Broadband Network

xsNET
INDOOR SOLUTIONS

xsNET
POP SOLUTIONS

xsNET
OSP SOLUTIONS

xsNET
ENGINEERING SOLUTIONS

QUICKDRAW^{XS}

SIROCCO^{XS}

OASYS

JETNET^{XS}

RETRACTANET^{XS}

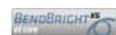
VERTICASA^{XS}

VERTV^{XS}

EASENET^{XS}

BENDBRIGHT^{XS}

Supported throughout by *BENDBRIGHT^{XS}* fibre technology



VERTV^{XS}

A revolutionary system for fibre TV cabling

VERTV^{XS} is an optical Multi Dwelling Unit (MDU) TV cabling solution. The plug and play system consists of patchcords of various lengths and floor boxes for splitting or tap-off. It has been designed to make installation simple as no fibre optical experience is required for installation, and no fusion or mechanical splicing is needed. Anyone familiar with copper cables, such as electrical engineers, can easily work with this solution.

To ensure a balanced installation and a uniform signal to all users, VERTV^{XS} allows the installation of three tap-offs plus one splitter 'in cascade'. This means 32 users can be connected and the insertion loss is lower than 15dB. By means of a 1x2 splitter installed at the LNB exit, it is possible to connect 32 users. In this manner, the performance of one single dish is fully optimised.

Technical Parameters

Maximum Insertion Loss for 16 outs	15 dB
Uniformity Insertion Loss	< 1 dB
Return Loss	≥ 55 dB



Features & Benefits



- Plug and play
- Miniaturised for use in confined spaces
- Patented mini-adapters and mini-connectors
- Wide range of tap-offs and splitters
- Splitters integrated into tap-off
- Typical application: a cascaded 32 user equalised configuration
- Fibre G657.A2/B2 BENDBRIGHT^{XS} (different fibres available upon request)
- Mini-to-mini patchcords supplied in standard lengths of 3.5m, 5m, 10m
- Mini-to-FC patchcords supplied in lengths according to customer's request
- Cable diameter: 2mm
- Sheath colour of patchcords is white
Sheath material is LSOH UV stable
- Qualified to Telcordia GR326 e IEC 61300 standards
- RoHS compliant materials
- All connectors are supplied with ceramic ferrules
- Full traceability and test certification supplied with each assembly
- Tailor-made solutions?
Contact Prysmian Group

Applications

- CATV
- FTTx
- Telecommunication
- Data Networks
- Tests & Measurements



Additional Items

- Steel Pulling Wire
- Mini-to-Mini Adapters
- Cleaning Pen
- Inspection Probe



Main Components

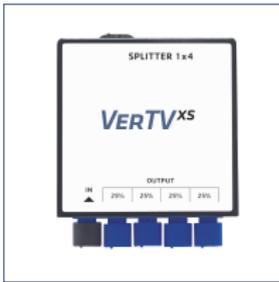


Patchcord G657.A2/B2 BENDBRIGHT^{XS} (1310/1550nm)

Maximum Insertion Loss	≤ 0.3 dB (Typical 0.2 dB)
Return Loss	≥ 55 dB
Intermateability	IEC 874-14
Operating Temperature	-40°C to +85°C

Geometrical and Mechanical Parameters

Bending Radius	7mm ≤ R ≤ 20mm
Max Pulling Force	150 N
Connector Diameter	4mm
Cable Diameter	2mm

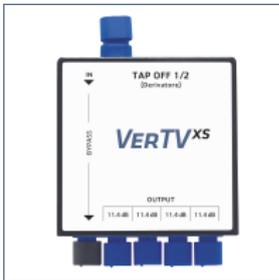


Splitters

	1x2	1x2	1x2	1x2	1x4
	90/10	80/20	70/30	50/50	
Maximum Insertion Loss (dB)	≤ 0.8/12.7	≤ 1.5/8.5	≤ 2.1/6.4	≤ 3.9/3.9	≤ 7.80
Uniformity Insertion Loss (dB)	≤ 0.6/1.2	≤ 0.6/1.2	≤ 0.6/1.2	≤ 1.2	≤ 1.00
PDL (dB)	≤ 0.3	≤ 0.3	≤ 0.2	≤ 0.20	≤ 0.25

Wavelength Range (Nm) 1310±50, 1490±10, 1550±30 for 1x2
1260-1650 for 1x4

Return Loss and Directivity (dB)	≥ 50 for the coupler and ≥ 55 for the PLC
Operating Temperature (°C)	-40°C to +85°C
Maximum Input Power (mW)	500 mW



Tap-Offs

	3/4	2/3	1/2
Max Insertion Loss of 4 Output Legs (dB)	≤ 15.00	≤ 13.20	≤ 10.90
Max Insertion Loss of Bypass Leg (dB)	≤ 2.5	≤ 3.1	≤ 3.8

Uniformity of Outputs (Client Legs) (dB)	≤ 1.00
Wavelength Range (Nm)	1260 to 1650 Nm
Return Loss (dB)	≥ 55
Operating Temperature (°C)	-40°C to +85°C
PDL (dB)	< 0.15

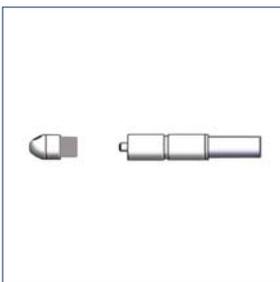
Accessories



Pulling Wire

Stainless steel pulling wire with cable butt connecting system to the mini-connectors. This avoids the need to prepare the cable end beforehand.

Also available with dielectric material.



Pulling Head for Optical Patchcord

The pulling head allows the installation of the pre-connectorised patchcord inside the duct.



Mini-to-Mini Adapter

Mini-to-mini adapter to connect together two patchcords equipped with mini-connectors.



Cleaning Pen

Used to clean the adapters and connectors on the splitter and tap-off boxes.

Each pen can be used for 500 cleaning operations.



Inspection Probe

An inspection kit for the mini-connector which includes a probe, a USB2.0 set, a 3.5" LCD monitor, a special tip and a carrying bag.

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

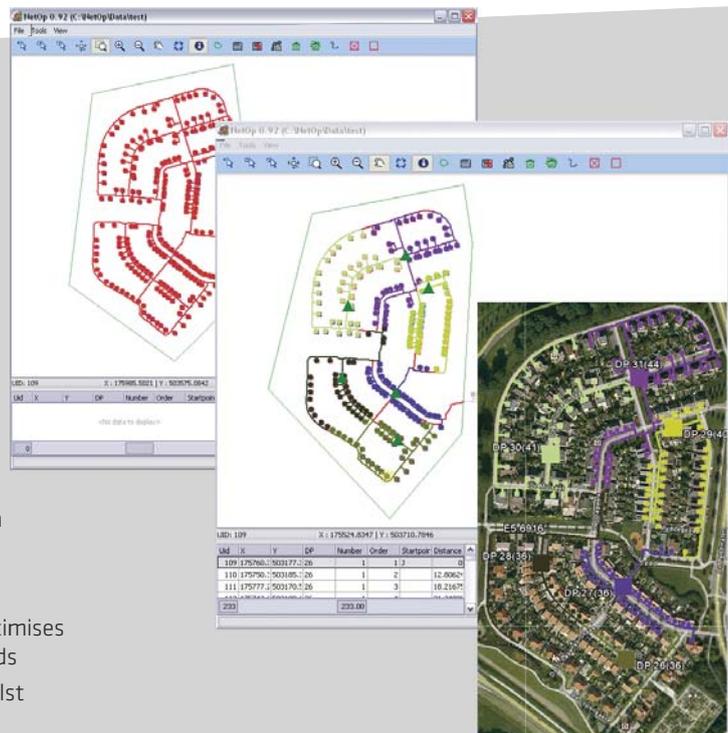
- Combined portfolio brings down the cost of FTTx
- Reach every community with an extensive portfolio of cable, connectivity and deployment technologies



Value Innovation for your Broadband Network

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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