

# Let the good times roll.

VertiCasa<sup>XS</sup> – our new way of feeding people with fibre.



# Our new way of feeding people with fibre.

No matter the number of floors in Multiple Dwelling Units, access to fibre has now become simpler. The heart of the VertiCasa<sup>XS</sup> system features a new concept in optical cable construction allowing remarkably easy fibre access and break-out, reducing the demand for skilled labour and installation time and cost. How's that for a taste?

## VERTICASA<sup>XS</sup>

### Cutting the cost of MDU network installation

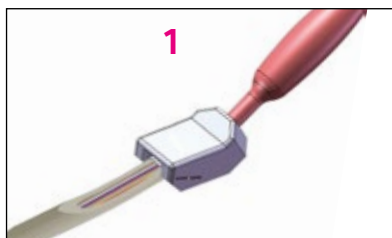
Designed specifically for bringing optical fibre directly to residents of high and low rise apartments and offices, the heart of the VertiCasa<sup>XS</sup> system features a new concept in optical cable construction allowing remarkably easy fibre access and break-out, reducing the demand for skilled labour and installation time and cost.

The VertiCasa<sup>XS</sup> system provides a fast and flexible means of connecting users in a Multi Dwelling Unit (MDU). The system comprises a main riser cable of up to 144 fibres, which can be easily accessed as needed and either branched directly to individual subscribers on different floors of the MDU without the need for the splicing of fibre within the riser of the building, or alternatively spliced at the riser to a drop cable that runs to the premise

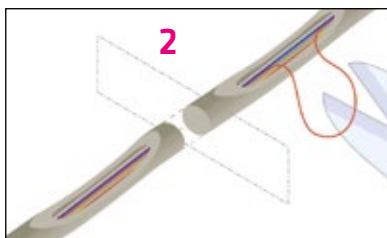
Fibres are extracted from breakout windows cut into the main cable which allows the required length of protected 'easy strip' fibre to be routed directly from the riser breakout point through to the end user, or spliced to a drop cable that is then run to the customers premise.

The VertiCasa<sup>XS</sup> system comprises all supporting accessories and connectivity products necessary to complete the full installation from main fibre distribution point, generally in the basement of the MDU, through to the end user.

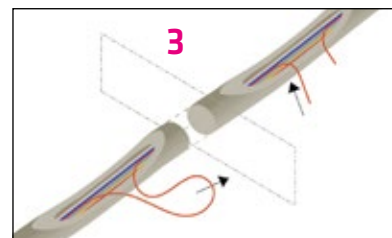
### Fibre Access Breakout



1. The VertiCasa<sup>XS</sup> stripping tool safely cuts a breakout window in the riser cable, providing access to the fibres.



2. The selected fibre unit (ESFU) can be extracted and cut. This operation is performed some floors above the floor where the customer is to be connected.



3. At the floor where the fibre connection is requested, the ESFU that was cut on the higher floor can now be easily extracted and either run direct to the customer premise without splicing or spliced to a drop cable for final customer connection.





## Features & Benefits:

- Innovative cable system.
- Extractable Easy Strip Fibre Units (ESFU) are protected by a Low Smoke Zero Halogen (LSOH) covering.
- A range of supporting connectivity products for cable breakout, splicing and customer termination.
- Latest bend insensitive fibre technology supplied in VertiCasa<sup>XS</sup> cables.
- Re-enterable system.
- Reduced fusion splicing time, cost and power loss.
- No need for skilled labour.
- Verticasa<sup>XS</sup> system works with fusion splice methods as well as the most common mechanical splices and field mountable connectors.



The latest optical fibre technology applied to a new optical cable and connectivity products allows easy installation of the VertiCasa<sup>XS</sup> system in different scenarios: mid-size buildings, high-rise buildings, low-rise/high occupancy buildings, offices/ open spaces.

## Mid-sized Buildings

### Typically up to 10 floors

The VertiCasa<sup>XS</sup> system can be installed in mid-sized buildings in order to bring optical fibre to individual subscribers on different floors. The system is equally applicable to existing and new-build constructions and is environmentally friendly in terms of both its minimal size and neutral colour scheme.

A complete range of connectivity products provides full compatibility for various scenarios:

- Zero splice  
The ESFU extracted from the riser cable via the 4 port breakout unit can be routed directly to the customer termination through the drop tube, without the need for any splice.
- Preconnectorised drop cable  
To cover longer distances on the floor, a mechanical splice holder can accommodate up to 2 mechanical or fusion splices allowing the outgoing drop cable to reach the customer termination box.
- High subscription rate per floor  
The riser box and the internal transition box enable the splicing of the customer drop cables to the main VertiCasa<sup>XS</sup> riser cable providing the flexibility to serve a larger number of final customers.

## High-rise Buildings

### More than 10 floors

The installation methodology for VertiCasa<sup>XS</sup> utilised in mid-sized buildings can be extended in a modular fashion in order to address the requirements of high-rise buildings. Cable installation and fibre breakout is carried out for the first 10 floors in exactly the same way as for a mid-sized building. For the next 10 floors a second cable is run from the basement up the riser, as far as level 20.

The first 10 floors are by-passed by this cable and a loop is made in the cable at floor 10. Customers are then connected on floors 11 to 20 in the same manner as with the first cable.

The process is repeated with floors 21-30 being served by a third cable with a loop introduced at floor 20. Subsequent levels are served by further repeating this process. The looping process prevents any gravitational forces being applied to the ESFU when it is cut prior to being removed from the breakout window.

## Low-rise Buildings

### Hotels, Resorts, Schools, Hospitals and Retirement villages

The VertiCasa<sup>XS</sup> system can also be used in low-rise constructions of just a few floors. A single cable can serve multiple end users on a single floor thanks to the adaptability of the supporting accessories and connectivity products.

The VertiCasa<sup>XS</sup> cable, due to its small diameter, can be installed in existing ducting together with other utility cables. Further applications may include any network where cascaded connections are needed e.g. video surveillance in subway systems through to providing broadband connections in the cabins of luxury cruise liners.

## Business

### Offices, Work Areas, Shopping Malls and Airports

In open spaces such as office environments, the VertiCasa<sup>XS</sup> riser cable can be routed around the perimeter wall or under the floating floor providing connections as and where needed. Internal transition boxes can splice up to 4 drop cables to a main cable. This can be extended to 12 by use of a riser box.

The compact termination box can be used to terminate fibres for both business or residential applications. The overall system is therefore highly flexible and can accommodate changes such as adding extra workstations or even modifying the architecture within the workspace.

## External Applications

### External Risers, Old Buildings and Rurals

The VertiCasa<sup>XS</sup> system is also suitable for external installation. A range of external cables and accessories has been developed to resist the most severe environmental and weather conditions. This new design maintains the main characteristics of the VertiCasa<sup>XS</sup> system, namely the ease, speed and flexibility of installation.

Also in this case a fibre module length can be extracted from the riser cable and directly routed to a termination (or distribution) box through an external drop tube.

The Verticasa Internal Retractable Fibre Access System mates perfectly with our Retractanet External System which takes the extractable fibre concept to the outdoors. For Information on how Verticasa and Retractanet can offer you a low cost fibre rollout please contact us for a full consultation and visit our web site for further information on the complimentary Retractanet solution.

## Product List

### CABLE SYSTEM

#### VertiCasa<sup>XS</sup> Riser Cable

A patented cable system of up to 144 fibres which can be branched directly to individual subscribers on different floors of the MDU.



#### VertiCasa<sup>XS</sup> Drop Tube

Routes the extracted fibre directly to the end user.



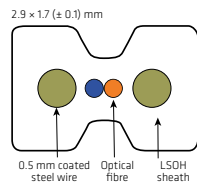
#### VertiCasa<sup>XS</sup> Drop Cable

Ruggedised 1 or 2 fibre G657 drop cable.



#### Fl@tcore™

Indoor drop cable with 2 fibres in the centre and 2 coated steel wires laid next to them.



#### VertiCasa<sup>XS</sup> Stripping Tool

A special tool to cut a breakout window in the cable allowing easy fibre access.



### RISER BOX

#### VertiCasa<sup>XS</sup> Riser Box

Allows the VertiCasa<sup>XS</sup> cable to be spliced to up to 12 customer drop cables.



#### VertiCasa<sup>XS</sup> Internal Transition Box

Enables the splicing of up to 4 drop cables to a main in-line cable.



#### VertiCasa<sup>XS</sup> Vertical Storage Box Internal

Enables to coil and store over-lengths of Verticasa fibre modules. The box can be used at the top of a vertical riser cable or on the end of a horizontal cable run.



#### VertiCasa<sup>XS</sup> Pizza Box

A pre-terminated Compact Termination Wall Box designed for residential and business installations. Eliminates splicing at the customer's premise thus saving significant time and cost.



### ACCESSORIES

#### VertiCasa<sup>XS</sup> 1 port and 4 port Breakout Units

Distributes the fibres from an in-line VertiCasa<sup>XS</sup> cable into drop tubes.



#### VertiCasa<sup>XS</sup> Cable Protection Cover

Covers the breakout section of the cable.



#### VertiCasa<sup>XS</sup> MSH

Splice holder which can be used for both fusion and mechanical splices.



### CUSTOMER TERMINATION

#### Compact Termination Box

Designed for the termination of up to 4 fibres.



#### Ultra Compact Termination Box

Designed for the termination of up to 2 fibres.



#### VertiCasa<sup>XS</sup> Multi-Operator MDU Demarcation Box

Connects the vertical in-building cable with the input fibres from one or more operators.





# Linking the future

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