

# VerTV System

Prysmian Part Numbers: *See page 3*



DRAFT



VerTV™ is an optical multi dwelling unit TV cabling solution. The plug and play solution 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, as no fusion or mechanical splicing is needed. The splitter and tap off boxes are simply connected together using patch-cords, which utilise a push fit small form connector.

## Features and Benefits

- A plug and play system for TV cabling. No fibre training is required for installation as no fusion or mechanical splicing is required.
- Floor boxes available for Tap Off or Splitter applications.
- A cascaded 16 user equalized configuration can be achieved.
- Miniaturized size. Floor boxes are compact and mini connector is less than 3mm in diameter. The cable diameter of patchcords is 2mm.
- Mini connector contains a pulling eye for installation into ducts.
- The standard fibre type supplied is G657A1 . (Other fibre types are available on request)
- Mini to Mini patchcords are supplied in standard lengths of 3.5m, 5m and 10m. Other lengths are available on request.
- Mini to FC patchcords are available in standard lengths of up to 50m. Other lengths available on request
- Sheath colour of patchcords is white. Sheath material is LSOH UV Stable.
- Qualified to Telcordia GR326 and IEC 61300 standards and RoHS compliant materials.
- All connectors are supplied with ceramic ferrules.
- Full traceability and test certification supplied with each assembly.

## Applications

- Telecommunications
- CATV

## Additional Items

- Pulling Wire
- Mini to Mini Adapter

## Technical Data

### Patchcord - Mini to Mini and Mini to FC

Parameter	Unit	Value
Maximum Insertion Loss	dB	≤ 0.30
Return Loss	dB	≥ 55
Intermateability	Ref	IEC 874-14
Operating Temperature	°C	-40 to 85
Maximum Pulling Force	N	150

### 16 User Cascade System – (Typical Install)

Parameter	Unit	Value
Maximum Insertion Loss	dB	≤ 15.50
Return Loss	dB	≥ 55
Uniformity	dB	< 2.00
PDL	dB	< 0.15
Operating Temperature	°C	-40 to 85
Box Dimensions	mm	82 x 60 x 17
Wavelength Range	nm	1260-1650

### Splitters

Parameter	Unit	1x2 Splitter 50/50	1x2 Splitter 90/10	1x2 Splitter 80/20	1x2 Splitter 70/30	1x4 Splitter
Maximum Insertion Loss	dB	≤ 3.90				≤ 7.80
Uniformity Insertion Loss	dB	≤ 0.60				≤ 1.00
PDL	dB	≤ 0.20				≤ 0.25
Wavelength Range	nm	1260-1650				
Return Loss and Directivity	dB	≥ 55				
Operating Temperature	°C	-40 to 85				
Maximum Input Power	mW	500				

### Tap Offs

Parameter	Unit	3/4 Tap Off	2/3 Tap Off	1/2 Tap Off
Maximum Insertion Loss of 4 Output Legs	dB	≤ 15.00	≤ 13.20	≤ 10.90
Maximum Insertion Loss of Bypass Leg	dB	≤ 2.5	≤ 3.1	≤ 3.8
Uniformity of outputs (Client Legs)	dB	≤ 1.00		
Wavelength Range	nm	1260-1650		
Return Loss	dB	≥ 55		
Operating Temperature	°C	-40 to 85		
PDL	dB	< 0.15		

## Part Numbers

### Splitter 1x2

The splitter 1x2 is used to split the power of the input signal into two parts for distribution on the floor or to the end user. The small compact unit has an input and two output ports for use with the push fit small form connector. Splitters are available with different split ratios from 50/50 to 70/30.

**Prysmian Part No. – XSPSC00112 – 50/50 split**  
**XSPSC00117 – 90/10 split**  
**XSPSC00118 – 80/20 split**  
**XSPSC00119 – 70/30 split**



### Splitter 1x4

The splitter 1x4 is used to split the power of the input signal into four equal parts for distribution on the floor to the end user. The small compact unit has an input and four output ports for use with the push fit small form connector.

**Prysmian Part No. – XSPSC00113**



## Tap Offs

Tap Off's split the power of the input signal into two parts. Most of it passes through to the next floor (by-pass port), whilst the rest of the signal is split into four equal parts and distributed on the floor to the end user (output ports).

### 3/4 Tap Off

The 3/4 Tap Off passes 75% of the power through to the next floor while the other 25% is split four ways for distribution on the floor to the end user.

**Prysmian Part No. – XSPSC00114**



### 2/3 Tap Off

The 2/3 Tap Off passes 66% of the power through to the next floor while the other 33% is split four ways for distribution on the floor to the end user.

**Prysmian Part No. – XSPSC00115**



### 1/2 Tap Off

The 1/2 Tap Off passes 50% of the power through to the next floor while the other 50% is split four ways for distribution on the floor to the end user.

**Prysmian Part No. – XSPSC00116**



## Part Numbers Contd.

### Patchcords – Mini to Mini

Mini to Mini patchcords are used to connect the Splitter and Tap Off boxes together. Both ends of the single fibre cable are terminated with a mini connector. The patchcords are 2mm in diameter.

**Prysmian Part Nos.:** *XPPSC00511 – 3.5 metres*  
*XPPSC00512 – 5.0 metres*  
*XPPSC00513 – 10.0 metres*  
*XPPSC00521 – 25.0 metres*



### Patchcords - Mini to FC

Mini to FC patchcords are used to make a connection from the satellite dish to the first Splitter or Tap Off boxes. A shorter Patchcord is also used to make the connection from the last Splitter or Tap Off box to the customers digital box. One end is terminated with the mini connector and the other end is terminated with an FC connector. The patchcords are 2mm in diameter.

**Prysmian Part Nos.:** *XPPSC00514– 0.20 metres (for last box to digital box)*  
*XPPSC00515 – 25 metres*  
*XPPSC00516 – 35 metres*  
*XPPSC00517 – 50 metres*



### Mini to Mini Adapter

The mini to mini adapter is used for the connection of two mini patchcords. The adapter is of bulkhead type for mounted to a panel.

**Prysmian Part No. – XPPSC00518 (pack of 10)**



### VerTV Connection Kit – (FC to Mini Patchcord 0.2m + Adapter)

The VerTV Connection Kit comprises of a Mini to FC patch cord of 0.2 metres in length and a Mini to Mini adapter in a bag. The kit is used for connection of the end user box.

**Prysmian Part Nos.:** *XPPSC00520*



### Pulling Wire

Pulling wire is a stainless steel wire used for pulling the patch cords through the duct. It is supplied in a length of 10 metres.

**Prysmian Part No. – XCPSC01344**

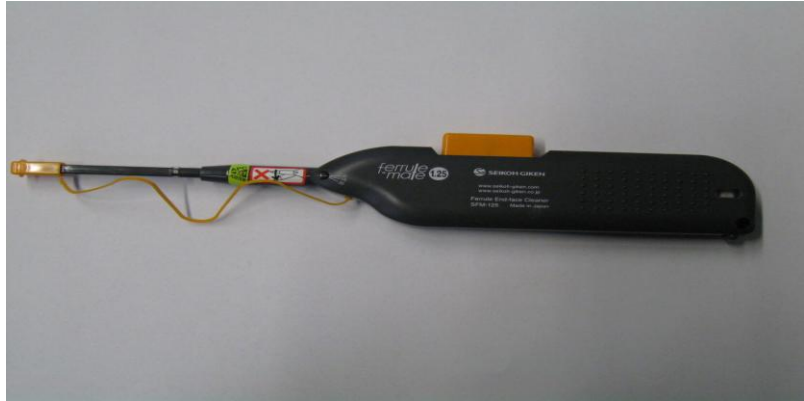


## Part Numbers Contd.

### 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.

*Prysmian Part No. – XCPSC01345*



### Inspection Microscope

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

*Prysmian Part No. – TBD*



#### Accessories:

1. Probe
2. USB2.0 set  
(converter + drive disc)
3. Special tip
4. 3.5" LCD monitor
5. Carrying bag

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