

VERTICASA LDWB PRE-SPLICED SOLUTION®



DESIGN & CONSTRUCTION

- Minimised splicing for installer.
- The LDWB is pre-terminated in the factory in the factory to a length of cable using the latest splicing equipment.
- Fully tested in the factory, Each box is supplied with data for estimated splice loss and red-light test.
- The standard cable length is 50m. Other lengths can be supplied. Contact Prysmian for further information.
- Termination Box manufactured from fire resistant UL94 V0 rated material.
- Full traceability and build records including operator, splitter serial numbers and packing contents.
- Cable is Construction Products Regulation Cca classification.
- Cable is retained in LDWB using a gland and cable ties for extra durability.
- All fibres are positively managed to maintain a 30mm minimum bend radius within the wall box.
- The Boxes are moulded from UV stable material to prevent discolouring.

PRODUCT DESCRIPTION

The Verti Casa pre-spliced Riser solution combines a 72 or 144 fibre Verti Casa cable (data sheet ref TV06843-en / C24_en) with the Prysmian Connectivity LDWB (data sheet ref: WM055.) It combines these items by the fusion splicing fibres from the Verti Casa cable to the outputs of up to 4x 1:32 splitters mounted inside the LDWB. The wall box is supplied on a cardboard reel with 50 Meters of cable pre-installed in the factory. This process eliminates the need for excessive splicing in the MDU base. The cable is simply pulled directly out of the box and up the riser. The Large distribution wall Box can be secured to the wall using the supplied drilling template.

Kit Contents

- The box will contain a LDWB with 50 meters of cable pre-spliced to it.
- The 50 meters of cable and LDWB will be fixed to a cardboard drum.
- The kit bag will contain a gland and grommet with cable ties for the input cable that will be spliced to the input fibres of the splitters with the installation guide.

Additional Items - Required

- Splice Protectors (see last page for part number)

Additional Items - Optional

- Drop Cable kit (3-6mm) – 6 Port
- Drop Cable kit (6-12mm) – 2 Port (see last page for part number)

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Technical Data

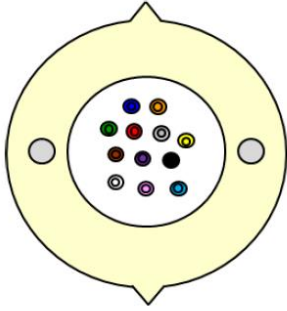
· Number of Input cable ports:	1 (can also be used for in-line pass through). Note output ports can also be used as additional input ports.
· Number of Output cable ports:	48 for 3-6mm cables (24 on top and 24 on bottom face of box) 8 for 6-12mm cables (4 on top and 4 on bottom face of box). 1 with Verti Casa cable pre-installed
· Maximum Input cable diameter (mm):	12 (M20 Cable gland).
· Maximum Output cable diameter (mm):	3-6 (48 ports), 6-12 (8 ports)
· Maximum number of splice trays:	20 Single Element Trays = 240 fibres 40 Single Circuit = 160 fibres on 4f per trays basis (note = 20 double SC trays where each tray has two storage areas)
· Required space envelope (mm):	(w) 320 x (h) 410 x (d) 115.
· Operating temperature:	-20oC to + 50oC (5 to 95% RH)
· Material:-	
· Box (White):	FR ABS White (RAL9016)
· Splice trays:	FR ABS White (RAL9016)
· Testing:-	
· Optical:	Tested 1310nm,1550nm and 1625nm
· Dry heat:	BS EN 60068-2-2 Test Bb
· Damp heat:	IEC 60068-2-3: 1969
· Change of temperature:	IEC 60068-2-14: 1984
· Vibration:	IEC 60068-2-6: 1995
· Shock:	IEC 60068-2-27: 1987

Technical Data – Fibre Termination

· Termination type:	Fusion Splice
· Estimated Splice Loss @ :	≤0.05dB.
· Operating temperature :	from -20oC to + 50oC (5 to 95% RH)
· Testing specification :	

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Technical Data - Cable



-24F version illustrated not to scale -

Cable

- **Fibers:** G.657.A2
- **Buffers:** 0.9mm easy stripping buffers with 2, 4 fibres (2f, 4f ESFU).
- **Outer Sheath:** Flame retardant LSOH, 2 glass fibres reinforced plastic material (GRP) embedded, disposed at 180°.

Technical data

No. of Fibers		12	24	48	72	24	48	96	144
Fibers/module			2			4			
Number of modules		6	12	24	36	6	12	24	36
Buffer diameter - ø	mm	0.9							
GRP - ø	mm	0.7	1.0			0.7	1.0		
Sheath thickness	mm	1.75	1.8	2.5		1.75	1.8	2.5	
Cable diameter - ø	mm	8.5	10	12	13.5	8.5	10	12	13.5
Min. bending radius	mm	Under Tension: 20xCable-ø				Without Tension: 10xCable-ø			
Temperature range	°C	Transport: -10 -> +60			Installation: -10 -> +40			Operation: -10 -> +60	

Color Coding:

Element No.	1	2	3	4
Fiber	Blue	Orange	Green	Red

Element No.	1	2	3	4	5	6	7	8	9	10	11	12
Module	Blue I	Orange I	Green I	Red I	Grey I	Yellow I	Brown I	Violet I	Black I	White I	Pink I	Aqua I

Element No.	13	14	15	16	17	18	19	20	21	22	23	24
Module	Blue II	Orange II	Green II	Red II	Grey II	Yellow II	Brown II	Violet II	Black II	White II	Pink II	Aqua II

Element No.	25	26	27	28	29	30	31	32	33	34	35	36
Module	Blue III	Orange III	Green III	Red III	Grey III	Yellow III	Brown III	Violet III	Black III	White III	Pink III	Aqua III

I – one black mark; **II** – two black marks; **III** – three black marks
I – one white (yellow) mark; **II** – two white (yellow) marks; **III** – three white (yellow) marks

Logistics

- Packing Dimensions (mm): (w) 710 x (h) 710 x (d) 365
- Packed Weight (Kg): 18.1 (72f)
- Net Weight (Kg): 18 (72f)
- Installation Instructions Included

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Part Numbers

Prysmian Part No.	Designation	Product Content
XCPSC04160	LDWB Pre-Spliced 3x 1:32 Splitter – 50m of 144f	Internal LDWB equipped with 3 x 1:32 splitters that are spliced to 50 meters of Verti Casa 144f internal cable.
XCPSC04161	LDWB Pre-Spliced 4x 1:32 splitter – 50m of 144f	Internal LDWB equipped with 4 x 1:32 splitters that are spliced to 50 meters of Verti Casa 144f internal cable.

Optional Items

Drop Cable kit (3-6mm) – 6 Port

This kit consists of six cable ties and six rubber grommets and is used to install additional drop cables into six of the 24 drop ports (for cables of 3-6mm in diameter) on the bottom or top face of the box.

Prysmian Part No. – XKTSC00384 (External Box – Black grommets)
XKTSC01110 (Internal Box – White grommets)



Drop Cable kit (6-12mm) – 2 Port

This kit consists of two cable glands and cable ties and is used to install additional drop cables into two of the four ports (for cables of 6-12mm in diameter) on the bottom or top face of the box.

Prysmian Part No. – XKTSC00385 (External Box – Black gland)
XKTSC01111 (Internal Box – White gland)



Heat Shrink Splice Protectors

Splice protectors are used to protect the fibre splice. They are 1.3mm in diameter and 30mm in length.

Prysmian Part No. – XKTSC01284 (pack of 12)

