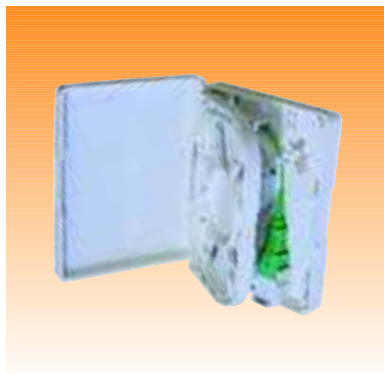


Ultra Compact Termination Box



The OAsys Ultra Compact Termination Box is designed for use in residential and business applications for the termination of up to 2 fibres. The wall box enables the installation of a small cable to be spliced to up to 2 SC pigtails (PC or APC), which connect to shuttered adapters at the base of the unit. The unit can be quickly installed within an office, house or communication room environment.

Additional Items

Required

- > Splice Protectors

Optional

- > Patchcords
- > Adapters
- > Pigtails

Reference Data Sheet WM022

Features and Benefits

- > Compact and ergonomically designed box.
- > Ability to allow cables to enter from rear, bottom or top of the unit.
- > All fibres are positively managed to maintain a 20mm minimum bend radius.
- > Can be used with either G652 or G657 fibre.
- > Supplied with pre-installed fibre pigtails.
- > Flip tray to allow access to connectorised tails and cable entry.
- > Removable cover for easy access.
- > Unit manufactured from fire resistant UL94-V0 rated material.
- > Patchcords exit unit on bottom face via two shuttered SC adapters.
- > Standard colour white RAL 9016. Other colours available on request.
- > Ability to accommodate field mounted connectors. (Please contact Prysmian to discuss your requirements).
- > Heatshrink or mechanical splice versions available.

Pigtail Technical Data

The standard fibre types supplied are G652 and G657 Single Mode. Please contact the sales desk if other fibre types are required.

	UPC	APC
Insertion Loss (max)	0.3 dB	0.2 dB
Return Loss (min)	-55 dB	-65 dB

Characteristics

Number of input cable positions	3
Maximum input cable diameter (mm)	6
Maximum capacity	2 fibres
Maximum no. of customer feeds	2 patchcords
Required space envelope (mm)	(l)100 x (w)80 x (d)24
Operating temperature	-40°C to +70°C (5% to 95% RH)
Material	
Base	FR ABS, White RAL 9016
Cover	FR ABS, White RAL 9016
Splice tray	FR ABS, White RAL 9016
Testing	
Optical	Tested 1310, 1550 & 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
Packing dimensions (mm)	(l)110 x (w)90 x (d)35
Weight (kg)	Packed weight: 0.080 Net weight: 0.073

Compact Termination Box

The OAsys Compact Termination Box is designed for use in residential and business applications for the termination of up to 4 fibres. The wall box enables the installation of either a single Sirocco blown tube cable using up to a 4 fibre blown unit or two 2 fibre ruggedised cables to be spliced to 4 SC pigtails (UPC or APC), which connect to adapters at the base of the unit. The unit can be quickly installed within an office, house or communication room environment.

Can be purchased as part of an integrated FTTH Entry Kit (page 36).



Features and Benefits

- > Compact and ergonomically designed box.
- > Ability to allow cables to enter from rear or bottom of the unit.
- > All fibres are positively managed to maintain a 30mm minimum bend radius.
- > Optional removable rear entry cable management.
- > Flip tray to allow access to connectorised tails and cable entry.
- > Compact, low profile, wall mounted unit used for small and large business premises.
- > Removable cover for easy access.
- > Tamperproof cover security screws available as an option.
- > Unit manufactured from fire resistant UL94-V0 rated material.
- > Patchcords exit unit on bottom face and are protected by two protection covers.
- > Standard colour white. Other colours available on request.
- > Heatshrink or mechanical splice versions available.

Additional Items

Required

- > Splice Protectors

Optional

- > Patchcords
- > Adapters
- > Pigtails
- > Security Screw Kit

Reference Data Sheet WM001

Characteristics

Maximum capacity

Number of input cable ports	1
Maximum input cable diameter (mm)	10
Maximum capacity	4f
Maximum no. of customer feeds	4 patchcords
Required space envelope (mm)	(l)80 x (w)120 x (d)25

Material

Cap	FR high impact polystyrene
Base	FR high impact polystyrene
Splitter trays	FR high impact polystyrene
Packing dimensions (mm)	(l)100 x (w)150 x (d)50
Weight (kg)	Packed weight: 0.5 Net weight: 0.25

For detailed product Data Sheets visit www.prysmian.com

Riser Box



The Riser Box is designed for use within apartment blocks and mid/highrise office blocks. The unit houses a single integral splice tray, and allows fibres from an in-line blown fibre tube cable to be spliced to up to 12 customer drop cables. In cases where blown fibre tube cables are to be used for the customer drops, blown fibre bulkhead tube connectors can be fitted to the unit.

This unit can be used to extract a single tube from a 7-way internal cable ascending the riser. A 12-fibre EPFU (fibre unit) installed through this tube could feed up to 6 separate 2-fibre units into single tube internal cables for horizontal distribution.

Additional Items

Required

- > Customer Connect Kit – Blown Fibre Tube
- > Customer Connect Kit – Conventional Cable

Optional

- > Security Screw Kit
- > Splice Protector Heatshrink
- > Splice Protector Crimp

Reference Data Sheet WM013

Features and Benefits

- > Compact wall mounted unit allows installation within small spaces in residential and business premises alike.
- > Removable cover for easy access.
- > Tamperproof cover security screws available as an option (refer to optional items).
- > Unit manufactured from fire resistant UL94-V0 rated material.
- > Kit supplied complete with all components necessary to install an in-line or butt cable and splice the fibres to either blown fibre tube customer drop cables or conventional customer drop cables.
- > Customer drop cables exit the unit from the bottom. Drop cables are secured using either rubber grommets for conventional cables, or bulkhead connectors for blown fibre tube cables. Refer to additional items.
- > All fibres positively managed to 30mm minimum bend radius.
- > Capacity is up to 12 fibre.
- > Cables up to 18.6mm in diameter can be accommodated.

Characteristics

Maximum capacity

No. of splice trays	1
Maximum fibre capacity	12
Maximum cable diameter (mm)	18.6
IP rating	45
Required space envelope (mm)	(h)150 x (w)220 x (d)50
Packing dimensions (mm)	(h)160 x (w)230 x (d)60
Weight (kg)	Packed weight: 0.55 Net weight: 0.5

External/Internal Compact Termination Box

The External/Internal Compact Termination Wall Box is designed for use in residential, small and large business premises. The unit houses a single splice tray and allows fibres from external cables to be spliced to pigtails for connection to customer drop patchcords.

The external cable enters from the bottom of the unit, with the customer drop cables (patchcords) exiting from the bottom of the unit or directly through the back of the box and through the wall.



Features and Benefits

- > The Termination Box can be mounted internally or externally.
- > Removable cover for easy access and fitted with a lock for enhanced security.
- > Unit manufactured from fire resistant UL94-V0 rated material.
- > Single hinged splice tray provides access for working. The splice tray is supplied with interchangeable inserts and can accommodate up to 8 fusion splice protectors (heatshrink or crimp) or mechanical splices.
- > Customer drop cables exit from the bottom of the unit and are sealed using a split grommet. Drop cables can be routed through the wall.
- > Up to 4 SC or 8 LC pigtails and adapters can be accommodated.
- > All fibres positively managed to 30mm minimum bend radius.
- > External input cable (up to 11mm diameter) enters the unit from the bottom.
- > For Sirocco blown fibre applications, a Gas Seal Connector can be housed within the box.

Additional Items

Required

- > Splice Protectors
- > Splice Protector Heatshrink
- > Splice Protector Crimp
- > Splice Protector Mechanical

Optional

- > Gas Seal Connector

Reference Data Sheet WM017

Characteristics

Maximum capacity		
No. of splice trays	1	
Maximum fibre capacity	8 (LC) or 4 (SC)	
Maximum cable diameter (mm)	11	
Required space envelope (mm)	(h)185 x (w)140 x (d)32	
IP rating	55	
Operating temperature	-20°C to +50°C (5% to 95% RH)	
Packing dimensions (mm)	(h)195 x (w)150 x (d)40	
Weight (kg)	Packed weight: 0.35	Net weight: 0.30

For detailed product Data Sheets visit www.prysmian.com

External Customer Splice Box



The External Customer Splice Box is designed for use on the external wall of residential or small business premises. The unit, which houses a single splice tray, is used to enable fibres from external cables (blown fibre or conventional) to be spliced to pigtails and fed through the wall fabric using a 25mm diameter conduit and then connected to the optical network unit. It can also be used as a transition point between external and internal cable, protecting the cable through the wall fabric.

Additional Items

Optional

- > Splice Protector Heatshrink
- > Splice Protector Crimp
- > Security Screw Kit
- > Resin Pack

Reference Data Sheet WM014

Features and Benefits

- > Compact wall mounted unit typically used for residential or small business premises.
- > Removable cover fitted with re-enterable seal. Water ingress protection to IP66.
- > Tamperproof cover security screws available as an option.
- > Unit manufactured from UV resistant material.
- > Standard kit supplied complete with all components necessary to splice an external cable to 4 pigtails to be taken through the wall. For applications where 12 fibres are to be spliced (external to internal cable) extra splice protectors will be required.
- > Rear cable entry port allows pigtails to enter the customer premises, protected by 25mm diameter conduit. An internal Customer Lead-in Unit (CLI) is used to manage the bend radius of the pigtails or cable at the inside wall.
- > All fibres positively managed to 30mm minimum bend radius.
- > Cables up to 13mm in diameter can be accommodated with a cable gland. (Diameters up to 18mm can be accommodated using a cable port adapter.)
- > Cable interstices can be sealed against water/gas ingress at the entry port if required using a quick set resin (optional items – Resin Pack and Disposable Funnel Kit).
- > Compatible with blown fibre products.

Characteristics

Maximum capacity		
No. of splice trays	1	
Maximum fibre capacity	12	
Maximum cable diameter (mm)	18	
IP rating	66	
Required space envelope (mm)	(h)150 x (w)220 x (d)50	
Packing dimensions (mm)	(h)160 x (w)230 x (d)60	
Weight (kg)	Packed weight: 0.55	Net weight: 0.5

Internal Customer Splice Box

The Internal Customer Splice Box is designed for use in residential, small and large business premises. The unit houses a single splice tray and allows fibres from internal or external cables to be spliced to pigtails for connection to the optical network unit. The unit can be quickly installed within a home, office or communication room environment.



Features and Benefits

- > Compact wall mounted unit used for residential, small and large business premises.
- > Removable cover for easy access.
- > Tamperproof cover security screws available as an option (refer to optional items).
- > Unit manufactured from fire resistant UL94-V0 rated material.
- > Single hinged splice tray enables access for working. Tray cover provides circuit protection and contains fibre ID label.
- > Pigtails exit from the bottom of the unit.
- > Up to 12 SC type pigtails can be accommodated. Other adapter types can be accommodated. Contact Prysmian for further information.
- > All fibres positively managed to 30mm minimum bend radius.
- > Cables up to 13mm in diameter can be accommodated with a cable gland. Diameters up to 18mm can be accommodated using a cable port adapter.
- > If an external cable is terminated, cable interstices can be sealed against the ingress of water/gas at the entry port using a quick set resin (optional items – Resin Pack and Disposable Funnel Kit).
- > Compatible with blown fibre products. Note: for certain applications where external blown fibre tubing is terminated, a Gas Seal Connector (not supplied) will be required to seal the tube (refer to optional items).

Additional Items

Optional

- > Gas Seal Connector
- > Security Screw Kit
- > Resin Pack
- > Customer Lead-in Unit
- > Splice Protector Heatshrink
- > Splice Protector Crimp

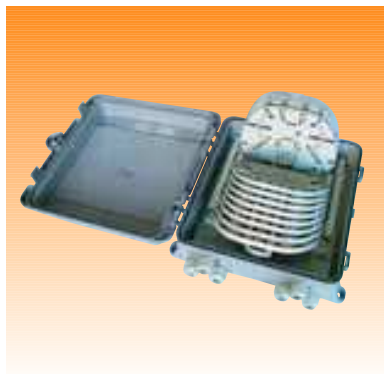
Reference Data Sheet WM015

Characteristics

Maximum capacity	
No. of splice trays	1
Maximum fibre capacity	12
Maximum cable diameter (mm)	18
IP rating	45
Required space envelope (mm)	(h)150 x (w)220 x (d)50
Packing dimensions (mm)	(h)160 x (w)230 x (d)60
Weight (kg)	Packed weight: 0.55 Net weight: 0.5

For detailed product Data Sheets visit www.prysmian.com

Internal/External Splice Only Box



The OAsys Internal/External splice only box is designed for the splicing of optical cables in either internal or external applications. There are three units available, with capacities of 48 fibres, 96 fibres and 144 fibres, all of which are wall mountable. The units are designed for splice only applications using 12 fibres splice cassettes. The cassettes are hinged for easy access during splicing and maintenance. The units have multiple cable entry points for cables ranging from up to 18mm. The unit is supplied with a lockable hinged door and a rubber seal which gives an IP rating of IP55.

Features and Benefits

- > Compact and Robust Internal/External wall box.
- > IP55 rated.
- > Available in 48, 96 and 144 fibre capacities.
- > Hinged 12 fibre cassettes for easy installation and maintenance.
- > Lockable hinged lid for extra security.
- > Heatshrink and crimp splice protectors available.
- > Cable entry gland sizes range from 13mm up to 20mm.
- > Up to 9 cable entry/exit points.
- > All fibres are positively managed to a 30mm minimum bend radius.
- > Compatible with Blown Fibre products. Note: for certain applications where external Blown Fibre tubing is terminated, a Gas Seal connector (not supplied) will be required to seal the tube (see additional items).

Additional Items

Required

- > Splice Protectors (Heatshrink or Crimp).

Optional

- > Splice Protectors Heatshrink
- > Splice Protectors Crimp
- > Gas Seal Connectors
- > Splitter Cassettes

Reference Data Sheet WM029-01

Characteristics

Number of splice trays	4, 8 or 12	
Maximum fibre capacity	48, 96 or 144	
Maximum cable diameter (mm)	20	
IP rating	55	
Required space envelope (mm)	(l)270 x (w)272 x (d)100	
Operating temperature	-20°C to +50°C (5% to 95% RH)	
Material		
	External Box	PC
	Splice tray	PC
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
Packing dimensions (mm)	(l)300 x (w)300 x (d)120	
Weight (kg)	Packed weight: 2	Net weight: 1.50

Cable Transition Box

The OAsys Cable Transition Box provides the capacity to connect up to three external cables to three internal cables to a maximum spliced capacity of 36 fibres.

The box is supplied with three splice trays each able to accommodate up to 12 splices, cable clamps and all of the components required for a full installation.



Features and Benefits

- > Cable continuity in line or branch.
- > Maximum spliced capacity of 36 fibres.
- > Up to six cables (3 external and 3 internal) can be installed.
- > Storage of excess fibre length.
- > Shock resistant construction.
- > Anchoring system for cable strength members.

Characteristics

Maximum capacity	
Maximum fibre capacity	36f
Maximum number of trays	3
Maximum cable entries	3 in, 3 out
Maximum cable outside diameter (mm)	20
Required space envelope (mm)	(h)81 x (w)310 x (d)158
Packing dimensions (mm)	(h)90 x (w)320 x (d)170
Weight (kg)	Packed weight: 1.30 Net weight: 1.15

Additional Items

Required

- > The OAsys Cable Transition Box is supplied with splice trays, cable clamps and all of the necessary components for a complete installation.

Note: Splice Protectors can be ordered separately.

Optional

- > Splice Protectors

Reference Data Sheet WM004

Multi Dwelling Unit (MDU) Cabinets



Example of blown fibre MDU cabinet.



Example of optical cable MDU cabinet.

The Multi Dwelling Unit (MDU) Cabinet range of products is designed to allow inter-connection between external network cables and the MDU internal cable network within a compact and secure cabinet. A variety of configurations are available for splice and/or patch applications along with housing different passive optical splitter devices. Differently sized cabinets allow connection capacities to be optimised dependent upon the requirement and network design for both point to point or PON architectures. The cabinets can be configured to hold a number of fusion (concatenated) or planar passive optical splitters (from 1x2 to 1x32) and are also designed to be compatible with conventional internal optical cables or Sirocco blown fibre.

Features and Benefits

- > Cabinets can be designed to meet specific customer requirements or customers can select from a range of standard designs (from 12 to 144 customers in one cabinet).
- > Modular system allows for easy install and upgrade with both splice trays and splitter modules.
- > Cable management within the unit ensures the minimum bend radius for optical fibre is not exceeded.
- > Patch panels can be configured with a variety of standard connector types depending upon customer requirements.
- > 'Plug and Play' bulkhead connectors allow for easy tube routing within blown fibre cabinets.
- > A range of input and output ports can be configured depending on customer requirements.
- > Cable entries are sealed using glands to prevent dust entry into cabinet.
- > Knock out ports allow for easy cable installation.
- > Cabinets are ergonomically designed.
- > Lockable strong metallic cabinet ensures security and long life.

Please contact Prysmian to discuss your exact requirements.

Additional Items

Required

- > Expansion Kits
- > Splice Trays
- > Splitter Modules
- > Cable Entry Glands & Fixings
- > Splice Protectors
- > Bulkhead Connectors

Optional

- > Pigtailed
- > Patchcords

Reference Data Sheet WM008
(32 Port version)

Other versions available on request

Multi-Operator MDU Distribution Box (MMDB)

The OAsys Multi-Operator MDU Distribution Box (MMDB) allows the connection of several operators on a common network inside buildings. This MMDB can be installed in the building basement or utility cupboard. It allows one common building optical fibre (cabling from building basement to the connection housing on the floors network) to be shared across several operators.

The MMDB has a modular designs with two different modules configurations: a Customer module to terminate the building cable(s) feeding the premises and an operator module to terminate the external operator network cable(s).

Features and Benefits

- > The customer module can be equipped with up to 24 splices and patching for SC/PC or SC/APC type connectors (optional for 36 SC).
- > The operator module can be equipped with up to 24 ruggedised pigtails.
- > The customer and operator modules are mechanically linked together creating a patching channel to route the fibres with ruggedised pigtails from one module to another.
- > Depending on the building requirements several customer modules can be added on top of each other.
- > In the case of shared building cable networks, two or more operators can use separated operator modules to connect to the same customer module.
- > The operator module accepts loop cables for a 'daisy chain' installation.
- > A dedicated storage area is available inside the operator module for non connected pigtails.
- > To limit the access to the modules, each module has two secured separate doors, one for the splicing area and one for the patching area.
- > Four Single element trays are available per module.
- > All cables are safely secured and managed inside each module.
- > Within the modules, all fibres are positively managed to maintain a 30mm minimum bend radius.

Characteristics

Number of ports	Operator module	2 inlet cable entries
	Customer module	up to 4 inlet cables
Required space envelope (mm)	(l)440 x (h)175 x (d)102	
Material	Metalwork	Mild Steel
	Plastics	FR Polymer
Finish	Metalwork	Painted light grey (RAL 7035)
	Plastics	Grey/black
Packing dimensions (mm)	(l)500 x (w)200 x (d)200	
Weight (kg)	Packed weight: 3.1	Net weight: 2.5
Installation instructions included		



Additional Items

Required

- > The Multi-Operator MDU Distribution Box is supplied with the customer or operator modules packed separately.

The customer module is supplied fully loaded with 24 SC pigtails.

Optional

- > 2mm OD Ruggedised Pigtails
- > 900 Microns Pigtails
- > Cable Fixing and Routing Components
- > Splice Protectors

Reference Data Sheet WM023-01

FTTH Entry Kits



Reference Data Sheet WM010

The FTTH Entry Kits are used to provide an ergonomic and managed cable entry (conventional cable or blown fibre tube cable) at the customer premises. The kits contain all of the items necessary to secure the cable to the outside wall of the building, take the cable elements through the wall in a controlled manner and terminate them within the customer premises.

The kits can be supplied in a number of different formats, for optical cable or blown fibre tube cable using a range of External and Internal Customer Lead-In (CLI) units. The termination box can be supplied empty or with 1 to 4 SC/UPC or SC/APC pigtails and adapters pre-installed.

Features and Benefits

- > Compact, ergonomically designed wall mounting units.
- > All cables and cable elements are controlled to ensure that a minimum bend radius of 30mm is not compromised.
- > Kits are available for both blown fibre tube cables and conventional cables up to a maximum diameter of 13mm.
- > All internal products are fire resistant to UL94-V0.
- > The internal compact termination box can house up to four SC type pigtails and adapters for connection to the optical network unit (ONU).
- > In cases where a single blown fibre tube cable is being installed, the components required to achieve a full gas block, both on the cable interstices and the blown tube external to the building, are supplied.
- > Conduit is supplied to allow a smooth transition through the wall and provides further protection (500mm length of 25/22mm conduit).
- > IP rating of 68 for external unit when resin filled.

Characteristics

Maximum capacity	
Maximum cable diameter (mm)	13
Minimum bend radius (mm)	30
Dimensions (mm)	
	Depends upon product selection
Weight (kg)	
	Packed weight: 1.0 – 1.2

Customer Lead-in Units

The Customer Lead-in Unit (CLI) is designed for use in residential and small business premises to manage the entry of cables into buildings. There are 3 versions of the CLI unit; a single blown fibre tube cable entry, a single optical cable entry up to a diameter of 13mm and a large blown fibre tube cable entry (up to 24 blown fibre tube cable) which also accommodates optical cables up to a diameter of 32mm.

Can be purchased as part of an integrated FTTH Entry Kit (see page 36).

Features and Benefits

- > All fibres are positively managed to maintain a 30mm minimum bend radius.
- > The unit prevents the accidental damage of optical cables during installation through walls and therefore eliminates return-to-site costs due to fibre breaks/macro bending.
- > Length of conduit supplied (500mm) to protect cables/blown fibre tube cables through wall. Diameter either 25/22mm for single blown fibre tube/small optical cable or 36/32mm for large cables.
- > Transition point between external grade tubing to internal low smoke tubing.
- > Gas/water block facility for a single tube cable.
- > Removable cover for easy access.
- > Internal unit manufactured from fire resistant UL94-V0 rated material.
- > IP rating of 68 for external unit when resin filled.



Additional Items

Optional

- > Gas Seal Connector
- > Resin Pack
- > Blown Fibre Gas Seal Unit

Reference Data Sheet WM002 (small)
WM007 (large)

Characteristics

Maximum capacity	Small unit	Large unit	
Maximum no. of cables/tubes	1	1	
Maximum cable diameter (mm)	13	32	
Required space envelope (mm)			Packed weight (kg)
Single blown fibre tube cable	Internal unit	(h)65 x (w)26 x (d)15	0.5
	External unit	(h)180 x (w)36 x (d)36	
Optical cable (up to 13mm OD)	Internal unit	(h)180 x (w)36 x (d)36	0.5
	External unit	(h)180 x (w)36 x (d)36	
24 way blown fibre tube cable (optical cable up to 32mm OD)	Internal unit	(h)182 x (w)58 x (d)68	0.7
	External unit	(h)182 x (w)58 x (d)68	

For detailed product Data Sheets visit www.prysmian.com