7twenty
PRODUCTS THAT CONNECT THE WORLD
7twenty.tech

7Twenty is a world class company that is customer and solution driven.
We use innovative and unique skill sets to stand out from our competitors.

Expert Connectivity Products:
Our products support the installation and connectivity of fibre optic networks, focusing on functionality, cost-saving and rapid deployment.

Complete, Custom Solutions:
A dedicated team of industrial designers, toolmakers and a state-of-the-art injection moulding facility enables us to ideate, design and manufacture your connectivity needs. The results are practical, beautiful solutions that reduce the total cost of ownership of network builds.

Next generation, fit-for-purpose telecom solutions

OUR PROCESS

Concept Ideation

We conceptualise and innovate around your brief, considering practical and economic viability and longevity.

Design and Prototype

On approval of design, we create a prototype for testing. After robust evaluation and feedback final designs are updated.
R&D is crucial and this step may involve several iterations to ensure exceptional quality.

Tool and Manufacture

The magic happens as your product comes to life through 3D designs. Samples are assessed and refined and your product manual is collated.
Production can begin

OUR VISION IS VAST

A globally recognised organisation. known for building the future.

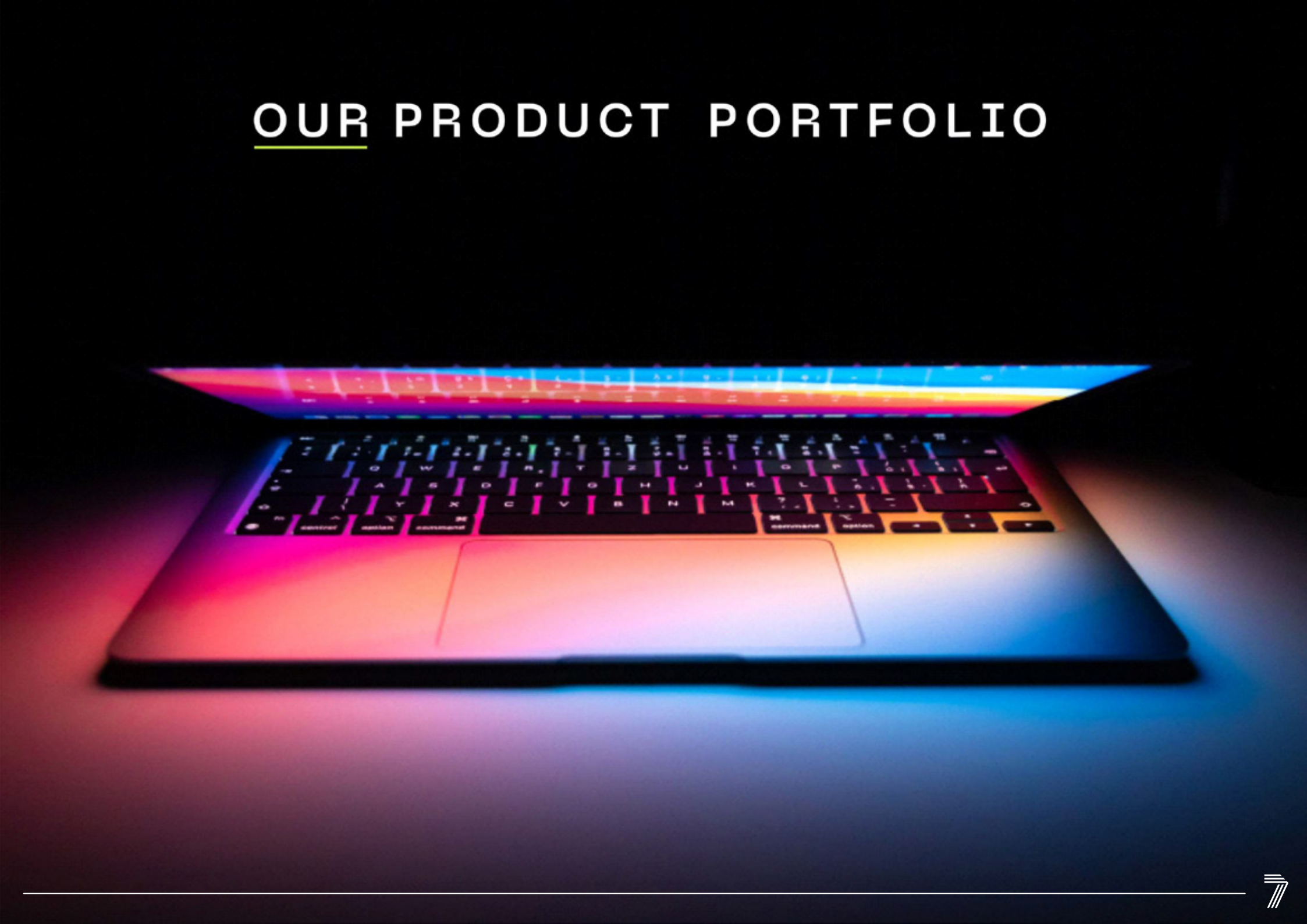
A trusted, shared-value partner to network operators and installers around the world.

Flexible, functional first-class products, impeccably executed through our design, development and manufacturing capabilities.

Unrivalled, adaptable, rapidly-deployed solutions that reduce the total cost of ownership of network builds.

An evolving, iterative, entrepreneurial culture

OUR PRODUCT PORTFOLIO



M4 MICROLOOP ENCLOSURE

A ROBUST MULTIFUNCTIONAL ENCLOSURE IDEAL FOR FTTX MASS DEPLOYMENT.

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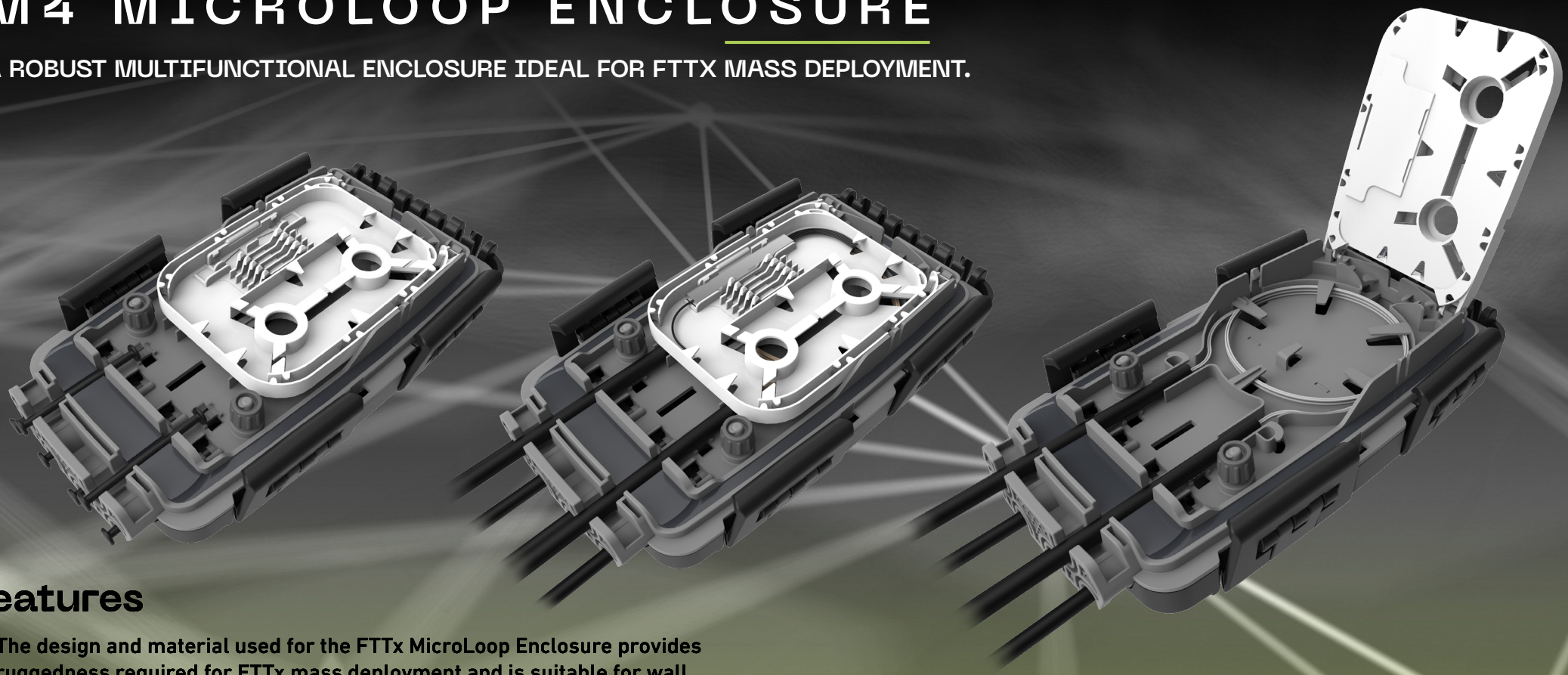


Features

- The design and material used for the FTTx MicroLoop Enclosure provides ruggedness required for FTTx mass deployment and is suitable for wall mount or placement inside underground chambers.
- Available with or without a barrel lock for security.
- Optional customer branding can be provided on the lid.
- The enclosure's lid opens upward and contains a self supporting hinge to allow the lid to remain in the open position while accessing the inner cable assembly.
- The inner cable assembly can easily be removed for preparation and maintenance work away from the main body, for example: in wall mount applications.
- There is a continuous seal formed around the inner cable assembly to ensure IP68 sealing. The seal incorporates the master seal, as well as the cable entry seals. Cable entries are formed in the seal and ranges from 2-4mm or 4-6mm cable diameters.
- The loop storage basket is designed to provide quick access to pack away the bare fibre loop with a capacity to store <70m of 250µm bare fibre.
- The splice tray contains a splice bay for 10 off 2.4 x 45mm heat shrink splice protectors double stacked and a PLC splitter bay for either bare fibre or pre-connectorized 900µ PLC Splitter modules. The slice tray hinges upwards and remains in position allowing unhindered access to the loop storage tray. Once the splice tray is returned to the resting point, there are two clips securing the tray in place.
- The inner enclosure assembly can only be fitted into the main body with the loop storage area facing towards the back. This provides protection to the primary looped fibre upon opening of the enclosure.
- The FTTx MicroLoop Enclosure was designed with a maximum fibre bend radius of 10mm and it is recommended for use with enhanced bend insensitive fibres such as G657.A1, G657.A2/B2.
- The drop cable entry side of the enclosure has two plate options. An adapter plate for 4 x SC simplex adapters (flangeless) or LC duplex or a bare fibre management plate.

M4 MICROLOOP ENCLOSURE

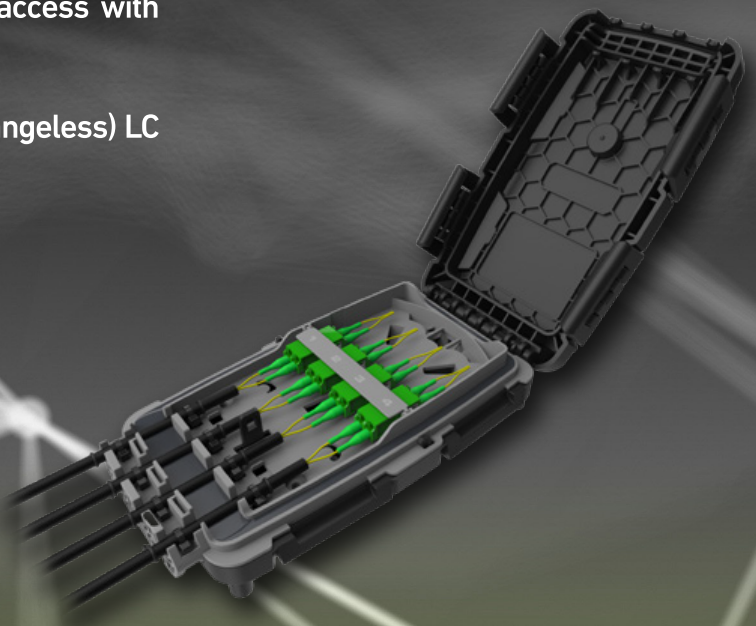
A ROBUST MULTIFUNCTIONAL ENCLOSURE IDEAL FOR FTTX MASS DEPLOYMENT.

As part of our Rapid Deployment System, the M4 Microloop Enclosure is equipped for mid-span access with integrated bare fibre loop storage. It facilitates up to 4 drop cables either pre-connectorized or sliced.

The M4 drop cable entry side has two plate options: An adaptor plate for 4 x SC simplex adaptors (flangeless) LC duplex or a bare fibre management plate.

Features

- The Enclosure's lid opens upward and contains a self supporting hinge to allow the lid to remain in an open position whilst accessing the inner cable assembly.
- The inner cable assembly can easily be removed for preparation and maintenance work. This is ideal for mounting applications.



- The M4 was designed for a maximum fibre bend radius of 10 mm and is recommended for G657. A1 and G657.A2 fibre. There's an optional barrel lock for security.
- The splice tray accommodates a single PLC Splitter whether pre-connectorized or bare fibre from 1:2 to 1:8. It contains a splice tray bay for 10 off 2.4 x 455 mm heat shrink splice protectors double stacked.

- A continuous gel seal incorporates cable entries and the enclosure seals to an IP68 rating.
- It is ideal for wall and pole mounting and suitable for placement in manhole chambers or boundary access point.

M8 MICROLOOP ENCLOSURE

IDEAL FOR BOTH AERIAL AND UNDERGROUND NETWORK APPLICATIONS

M8 MICROLOOP ENCLOSURE

IDEAL FOR BOTH AERIAL AND UNDERGROUND NETWORK APPLICATIONS

The M8 facilitates up to 8 customer drops from a single node, which reduces implementation costs to reach more homes.

Features

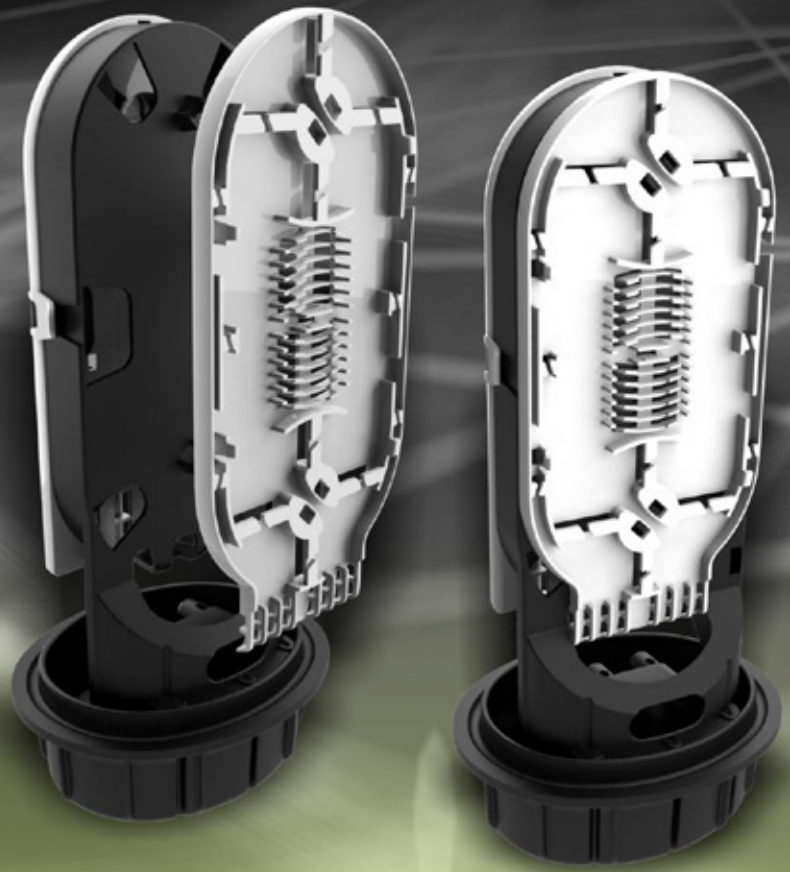
- 2 x network cable entry ports with strength member & aramid fixation.
- Removable pole mount brackets enables the enclosure to be directly mounted to transmission poles.
- Wall mounting points under the cover for improved security.
- External padlock staples to fit conventional padlocks for maximum security.
- Improved toggle clamps that are tamper resistant.
- 8 x Drop cable exit ports up to 6mm with adapter plate to fit 4 SC simplex or 4 LC duplex adapters.
- Option of 2 x 12F splice trays with PLC splitter bay per tray; or a high-density 1 x 48F splice tray which incorporates 1 x PLC Splitter Bay.
- PLC splitter bay houses a small form module for bare fibre or 900µm tails.

LOOP DOME JOINT

LOOP DOME JOINT

INTERNAL COMPONENTS

The FTTx Loop Dome Joint is a versatile splice enclosure deployed in FTTx networks and incorporates mid-span access, loop storage and a patch plate for pre-terminated drop cable. The base comprises 5 round port entries and a single oval port entry. A loop storage basket is positioned between a 12F single element splice tray and a 5 x SC SX (or 5 x LC DX) adapter tray on either side. The splice tray makes provision for 1 PLC Splitter (1:2 to 1:16).



The FTTx Loop Dome Joint was developed with high density deployment in mind and therefore the dome is supplied in a configuration that reduces the preparation time significantly and in turn increases the deployment volume. The FTTx Loop Dome Joint fits adjacent to the Aerial Slack Bin for FTTH/B aerial network distribution.

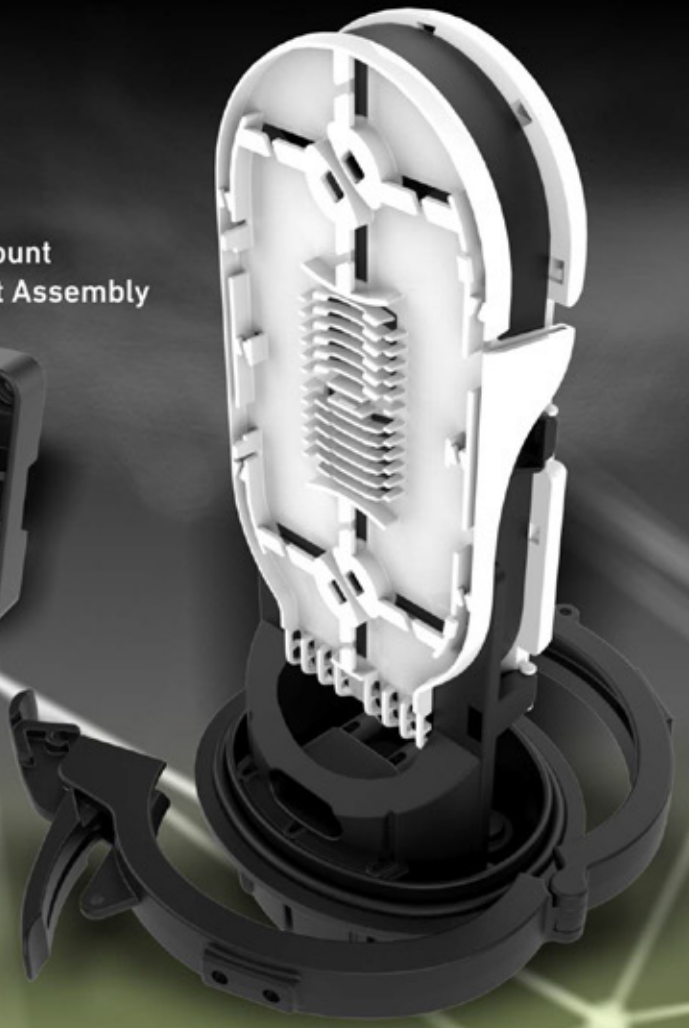
LOOP DOME JOINT

INTERNAL COMPONENTS

Oval Port Gland Assembly

Dual Port Gland

Pole Mount Bracket Assembly



Seal Clamp & Bracket Mount Assembly

Features

- The Loop Dome Joint is designed to improve aesthetic appeal on aerial networks in suburbia.
- The Joint can be secured with a padlock.
- The main splice & loop assembly is supplied separate from the base and clips onto the base with a single motion. This enables the technician to prepare the mid-span access loop with ease and speed.
- The loop basket accommodates cable with up to 12 fibre elements with a storage capacity of 1 600mm of 2.0mm fibre elements.
- The splice tray can fit either 24F heat shrink splices (2.4mm) double stacked or 12F mechanical splices including a single PLC Splitter (4x4x40mm) from 1:2 to 1:16 split ratio. Fibre elements are secured to the splice tray using standard cable ties.
- The adapter tray/patch panel can fit 5 off SC SX adapters or 5 off LC DX adapters including 5 cable landings. Drop cables are secured using cable ties.
- Five round single mechanical entry ports (3-5mm) and 1 oval mechanical entry port (8-16mm) comprises the base.
- A cable twist block is supplied to provide additional lateral support to the mid-span cables entering through the oval port, effectively limiting any movement of the cables inside the dome.

RAPID-STOR

MULTI-PURPOSE CABLE SLACK MANAGEMENT SYSTEM

RAPID–STOR

MULTI–PURPOSE CABLE SLACK MANAGEMENT SYSTEM

As part of our Rapid Deployment System the Rapid-Stor purposefully organizes network poles to reduce clutter and unsightly cable management whilst increasing the rate of deployment in order to reduce total cost of implementation.

Rapid-Stor Storage Frame

UV stable material suitable for an outdoor environment

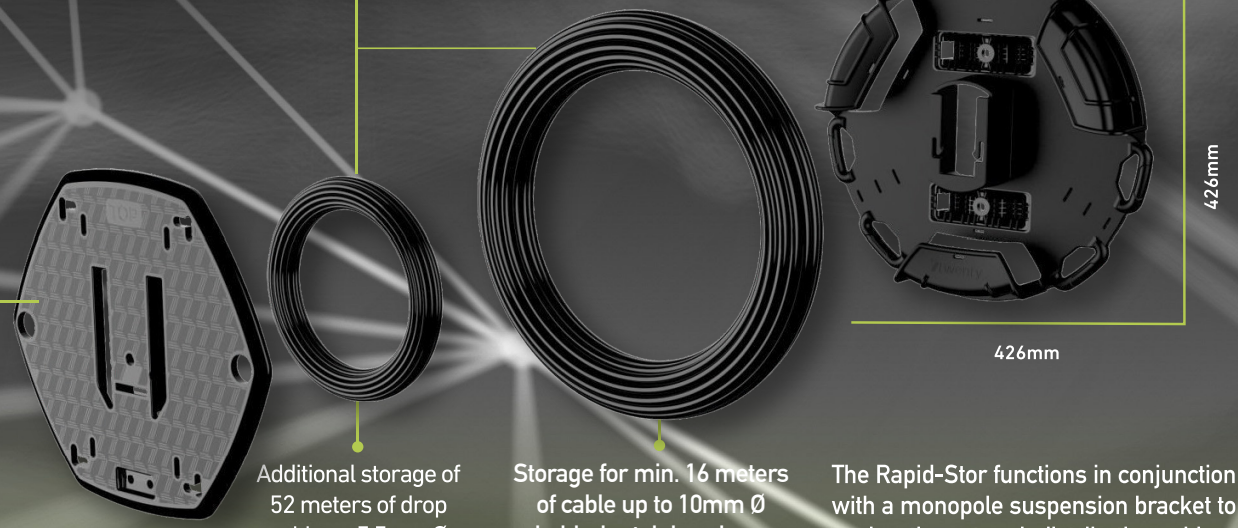
Cable Coils

Combines both access network and customer drop cables in one central hub

Equipment Mounting Plate

Drill holes for pre-located punch holes or use prelocated slots

Detachable equipment mounting plate enables ground service management



Additional storage of 52 meters of drop cables ≤ 5.5mm Ø

Storage for min. 16 meters of cable up to 10mm Ø behind retaining claws

The Rapid-Stor functions in conjunction with a monopole suspension bracket to anchor the network distribution cable

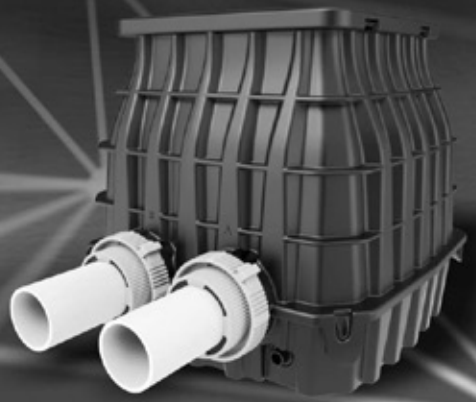
Features

- Detachable equipment mounting plate enables ground service management.
- Pre located slots, alternatively drill new holes for bespoke enclosures.
- Storage for min. 16 meters of drop cables up 10 mm Ø behind retaining claws.
- Additional storage of 52 meters of drop cables up to ≤ 5.5mm Ø.
- Combines both access network and customer drop cables in one central hub.
- UV stable material suitable for outdoor environment.
- Integrated steel strap pole mounting system or optional coach screw.
- Optional velcro or ip tie slots to secure cable coil.
- 6 x Drop cable D-ring hardpoints to secure cable dead-ends to a maximum tensile load of 490N per D-ring.

ACCESS BOX

ACCESS BOX

The Access Box is a underground mini handhole that provides easy access to feeder & distribution cables and or ducts. The Access Box allows for mid-span breakout from distribution cable, or duct, to the customer premises for FTTH/FTTB network deployment. The Access Box is configured to house enclosures and or cable slack.



Features

- The lid is removable to provide maximum entry into the Access Box and is tethered to the Access Box top, so that the lid remains attached.
- A dust cap prevents soiling of the mechanical lock.
- The top is designed with a gutter to drain water run-off from the lid and therefore requires no rubber seal between the lid and top.
- The main body was designed with a ribbed structure for increased compression strength.
- The Access Box was tested for mechanical strength in accordance with SANS 554: 2016
- Equipped with a quick clip mechanism to secure the top to the base with little effort. This provides for rapid assembly time.
- The top and base is split for retro fitting onto existing plant. The Access Box can be split post installation for maintenance on plant.
- Drainage is provided in the base.
- The Access Box is lockable using a mechanical lock with universal key
- The Access Box is equipped with port caps and knockouts of variable sizes ranging between 8.0mm to 50mm. A split port cap is available for retro fitting over existing plant.

ACCESS BOX

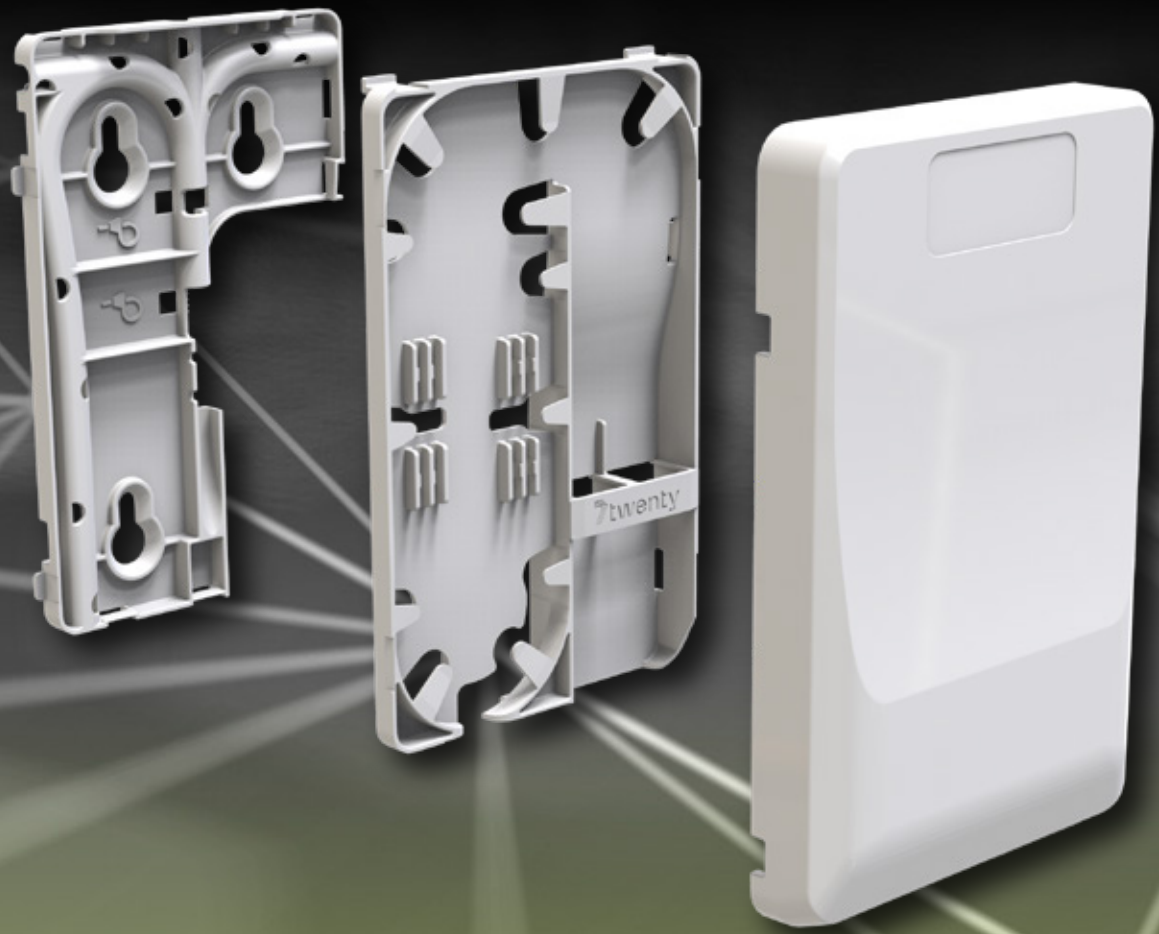
Integrated Lock
with cover
Drainage Hole
Unique
security Key
Access Point Caps

CONNECT POINT

CONNECT POINT

The 7twenty Connect Point is an indoor fibre termination masterpiece combining elegance with rapid installation for FTTH and FTTB.

The fascia has been designed for the discerning customer yet is mindful of the physical placement & application of the product.

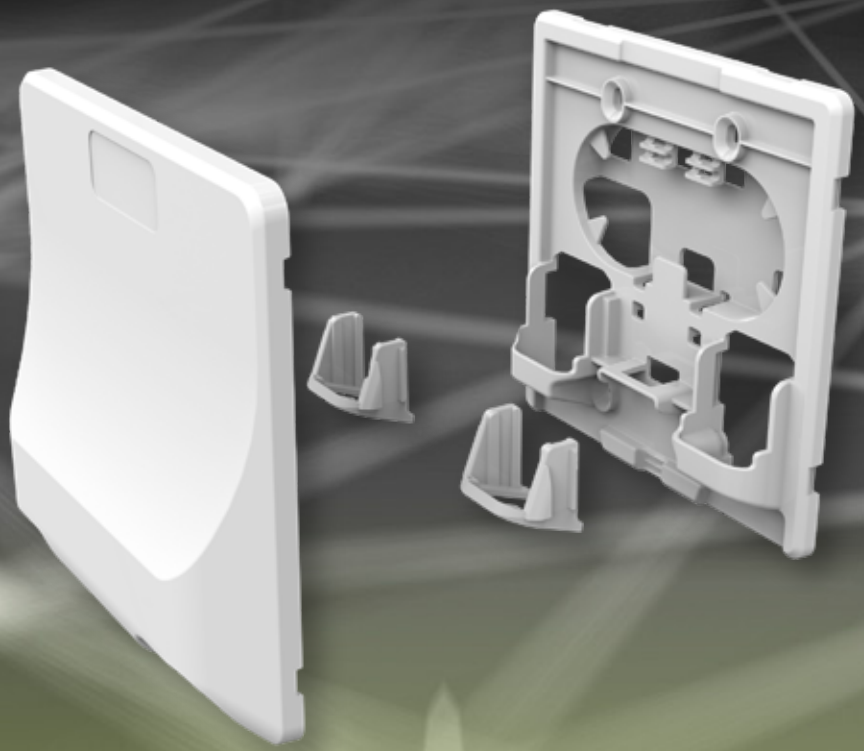


Features

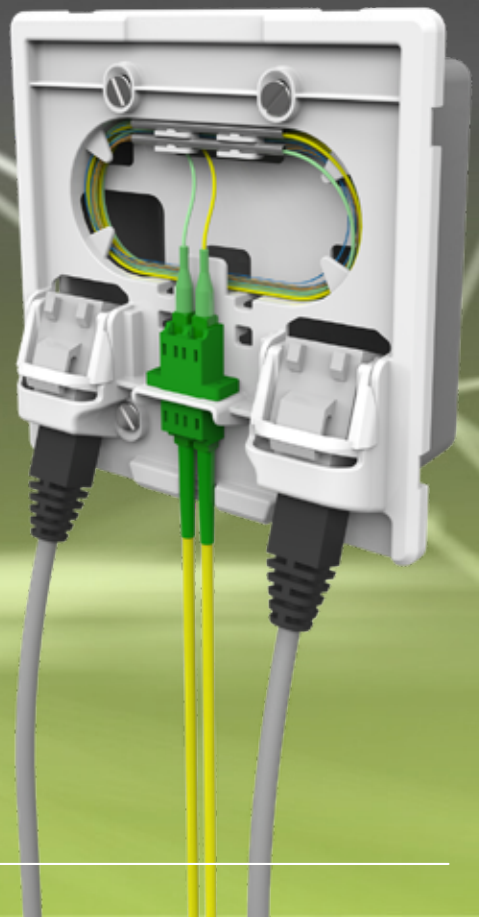
- The 7Twenty Connect Point enclosure consists of 3 separate parts: a mounting frame, splice tray & elegant fascia cover.
- The mounting frame is a separate part which is aimed at assisting technicians to easily install, secure & strip cable. There are no visible fasteners.
- It is perfect for FTTH or FTTB installations where the installer needs to provide a final connection point for up to 4 fibres. It has 2 ports that can take LC Duplex or SC Simplex adapters.
- Fibre routing is positively managed to a 20mm bend radius to accommodate all bend incentive fibres found at this point in the network.
- The splice tray allows for intelligent fibre routing, enabling the bare fibre to transition effortlessly onto the storage gateway.
- Our patented fibre-retaining tabs keep unruly fibre in their tracks.
- Custom labelling or branding can be added to the fascia providing brand awareness for ISP's & FNO's.
- The fascia lip, situated at the patch cord exit, has been designed to assist with anchoring the fibre connector, which in turn reduces risk of accidental damage.
- It's ideal for the decerning home or business owner since the overall depth of the Connect Point reduces the risk of damage from accidental bumping.

CONNECT TERMINAL

CONNECT TERMINAL



The Connect Terminal is an indoor, customer wall outlet that is designed to fit any 4x4 surface wall box. It allows for splicing of 2 fibres and can fit 1 x SC simplex (LC duplex) adaptor. In addition, the Connect Terminal houses two ports for either 2 x coaxial cables or 2 x LAN cables or a combination of both.



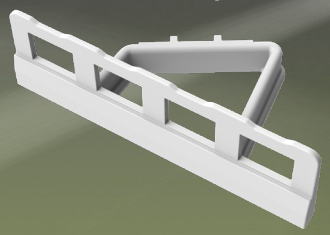
Features

- The Connect Terminal is made from fire retardend white ABS.
- The removable fascia is secured in 4 locations with clips that can be released with a standard flat screwdriver . There are no visible fasteners.
- The outlet fits securely to any 4x4 surface wall box.
- Two break out areas allow the user to use the Connect Terminal as an outlet for fibre, as well as coaxial and/or ethernet cables.
- The low profile against the wall and the angle of cable exit allows for the Connect Terminal to sit easily behind furniture and pose no obstacle whilst cleaning.
- The clean aesthetics of the Connect Terminal will suit any modern home.
- Customers can place their branding on the fascia.

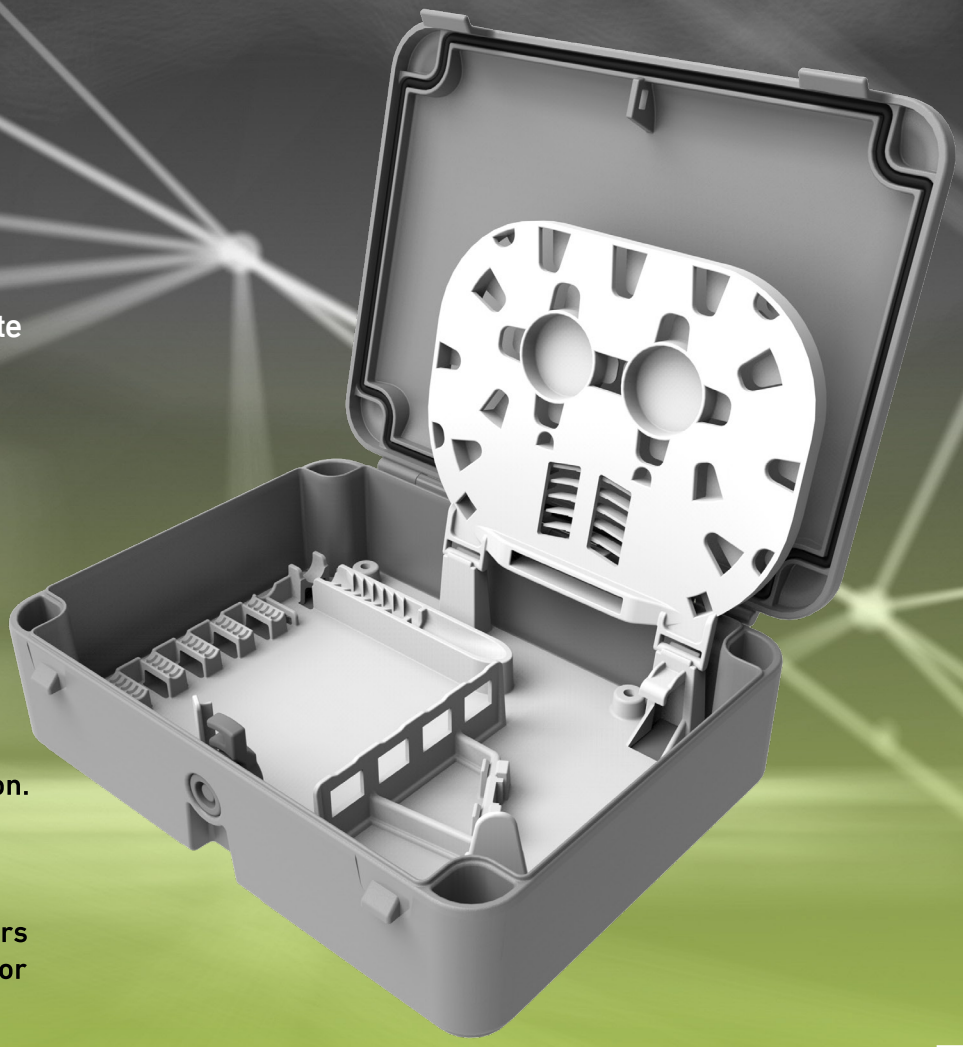
IP55 BOUNDARY WALL BOX

IP55 BOUNDARY WALL BOX

The Boundary Wall Box is an IP 55 termination point, installed as outside plant on walls and fences in the FTTx distribution network. The Boundary Wall Box accommodates 10 F splices with 2.4 mm HS splice protectors or 5F mechanical splices. Up to 4 SC SX or LC DX adaptors can be fitted onto the base plate to patch onto a pre-connectorized drop cable. The Boundary Wall Box can be used as a demarcation point segregating the customer drop from the network, thus creating flexibility to test and pinpoint faults without having to access the customer's premises.



Adaptor Plate



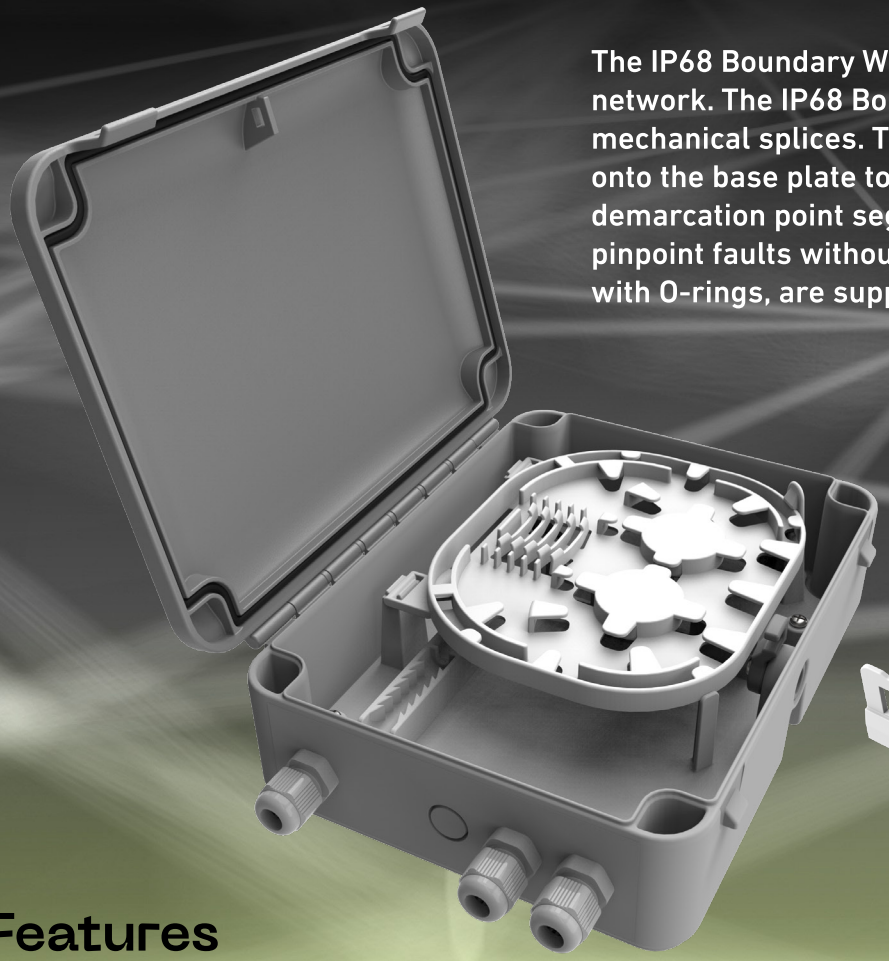
Features

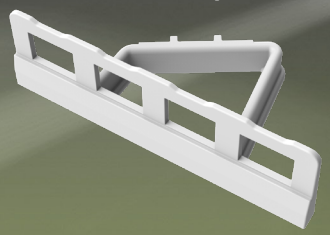
- The Boundary Wall Box lid can be branded with the customer's logo. The lid has two clip latches and a mechanical lock with universal key for security.
- Ingress protection is rated to IP55 and is suitable for above surface, outdoor installation.
- The base plate is fitted with a single element splice tray for up to 10F heat-shrink splices or 5F mechanical splices, including a PLC splitter bay to fit a single 4x4x40mm splitter module.
- An additional adaptor plate is available to accommodate up to 4 SC SX or LC DX adaptors
- The base has 4 anchor points one on each corner which is covered by the lid. The anchor points is also used to attach the optional palisade fence bracket.
- Various cable inserts are available upon request

IP68 BOUNDARY WALL BOX

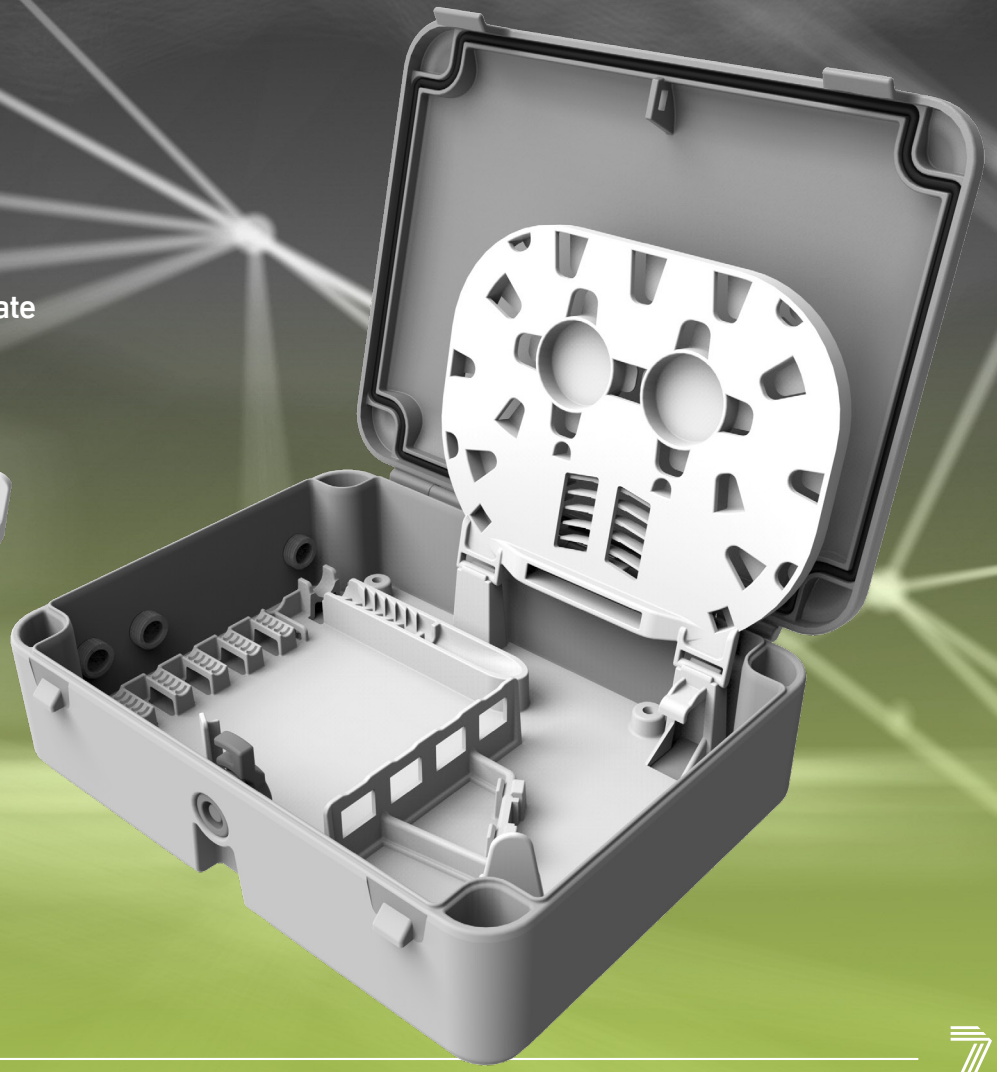
IP68 BOUNDARY WALL BOX

The IP68 Boundary Wall Box is a termination point, installed as outside plant on walls and fences in the FTTx network. The IP68 Boundary Wall Box accommodates 10F splices with 2.4mm HS splice protectors or 5F mechanical splices. The splice tray incorporates a splitter bay. Up to 4 SC SX or LC DX adaptors can be fitted onto the base plate to patch onto a pre-terminated drop cable. The IP68 Boundary Wall Box can be used as a demarcation point segregating the customer drop from the network, thus creating flexibility to test and pinpoint faults without having to access the customer's premises. The base has 4 knock-outs and PG glands, with O-rings, are supplied to provide a water-tight seal at the cable entries.





Adaptor Plate



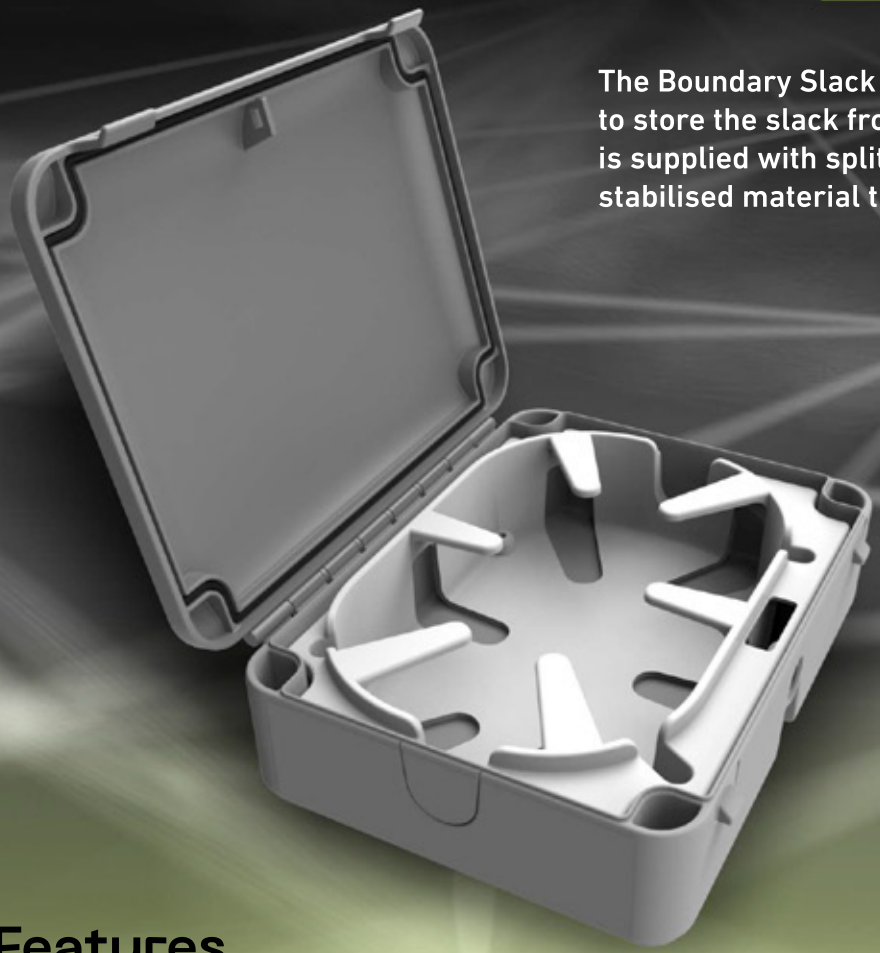
Features

- The Boundary Wall Box lid can be branded with the customer's logo. The lid has two clip latches and a mechanical lock with universal key for security.
- Ingress protection is rated to IP68 and can be used in underground chambers.
- The base plate is fitted with a single element splice tray for up to 10F heath shrink splices or 5F mechanical splices, including a PLC splitter bay to fit a single 4x4x40mm splitter module.
- An additional adaptor plate is available to accommodate up to 4 SC SX or LC DX adaptors
- The base has 4 anchor points one on each corner which is covered by the lid. The anchor points is also used to attach the optional palisade fence bracket.
- The bottom of the base is fitted with 4 knock-outs to fit PG glands, 1 entry and 3 exit glands. Cables and/or duct can be secured to the base plate using standard cable ties.

BOUNDARY SLACK STORAGE BOX

BOUNDARY SLACK STORAGE BOX

The Boundary Slack Storage Box is a versatile storage box deployed in the FTTx network. The box can be used to store the slack from pre-terminated drop cables or fibre modules at the end of a riser cable. The storage box is supplied with split rubber seals, but PG glands can be used instead to achieve an IP65 rating. Made from UV stabilised material the box is suitable for outdoor and indoor use.

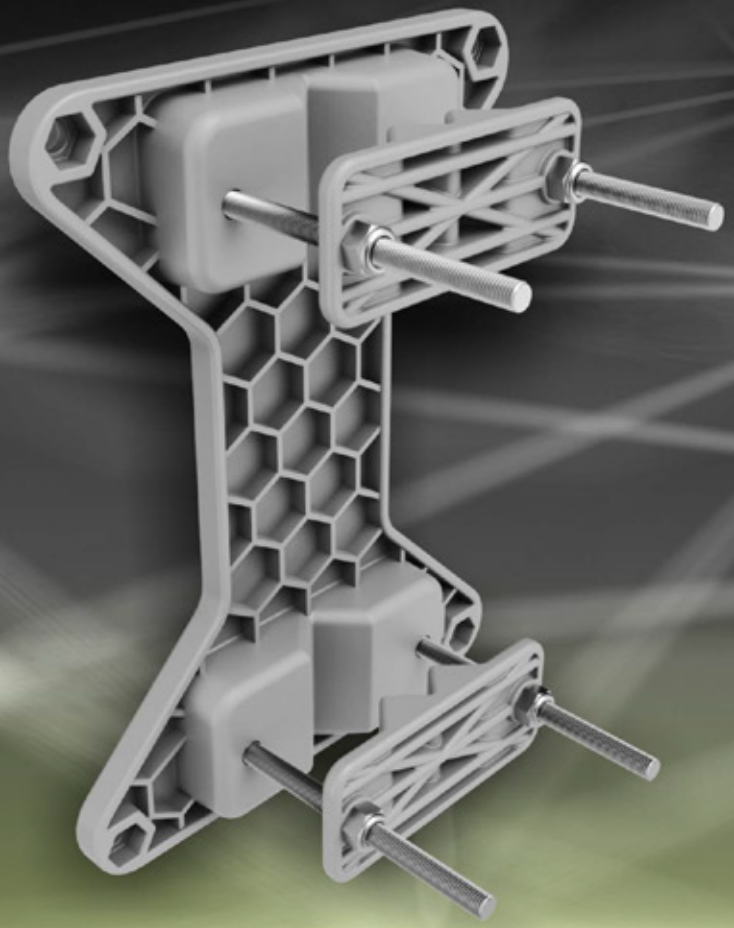


Features

- The Boundary Slack Storage Box lid can be branded with the customer's logo. The lid has two clip latches and a mechanical lock with universal key for security.
- Ingress protection is rated to IP55 and is suitable for above surface, outdoor installation.
- The base plate is fitted with a slack storage tray which can hold up to 15m of cable 5.0mm in diameter.
- The base has 4 anchor points one on each corner which is covered by the lid. The anchor points is also used to attach the optional palisade fence bracket.
- Cable entries accommodate cable diameters from 2.0 – 12.0mm.

FENCE BRACKET

The Boundary Wall Box Fence Bracket is a useful accessory that fits the Boundary Wall Box (including its variants). The main purpose is to enable a Boundary Wall Box to be mounted to just about any type of fencing including palisade fencing, round bar or square tube fencing. The Fence Bracket is supplied with the necessary stainless steel fasteners for convenient assembly.



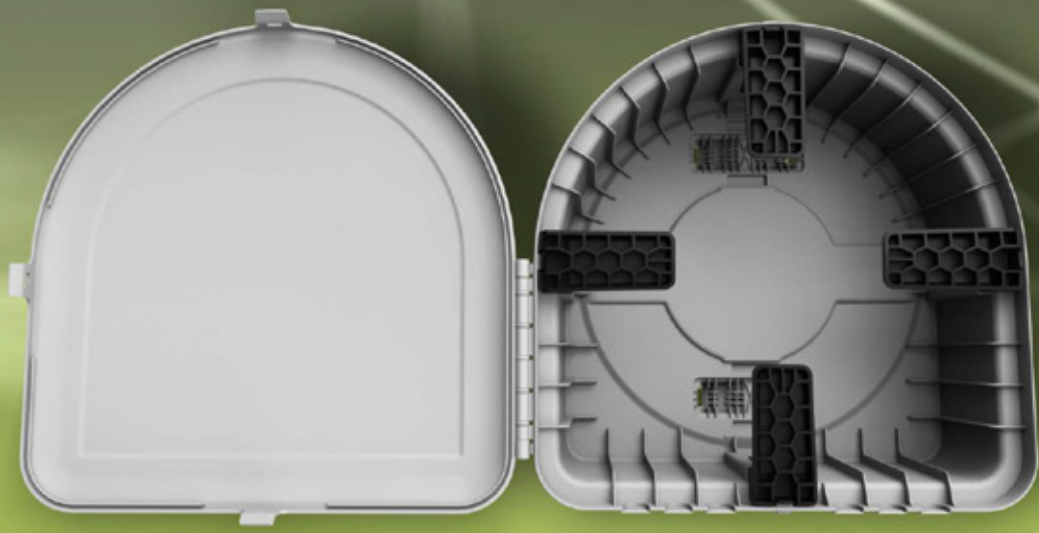
Features

- The back plate is easily fastened to the Boundary Wall Box (and its variants) by using the M6x25mm cap screws and hex nuts.
- The rear support mountings are specifically shaped to fit palisade fencing, round bar fences and can fit other types of fencing as well.
- Hex shaped seating, on the back plate, supports the rear mounting bolts for a slip free fastening of the lock nuts.
- Using ASA material the Boundary Wall Box Fence Bracket is robust and UV stabilized.
- The main assembly components are non metallic to eliminate corrosion. Stainless steel fasteners are included to prevent corrosion of the metallic components.

AERIAL SLACK BIN

AERIAL SLACK BIN

The Aerial Slack Bin is a pole mounted enclosure to conceal aerial cable slack. The Slack Bin is designed to also safely secure the cable even once the lid has been opened, making it safer for the technician to work with at heights.



AERIAL SLACK BIN

Features

- The Aerial Slack Bin is UV stabilised and supplied in grey or black
- The lid is hinged and secured with 3 clips. The lid can be opened and closed with a one hand action.
- The base is fitted with two rear mounted pole support brackets to form a good grip on the pole.
- There are 4 removable cable slack securing brackets inside the base. Once the slack coil is read to be stowed then the brackets can be removed to get easy access. The slack brackets clip into position.
- There are 6 knock out ports at the bottom of the base for incoming and outgoing cable. Split grommets can be cut to the cable diameter and slipped into the knock outs to form a seal.
- The Aerial Slack Bin can hold up to 25m of loomed cable slack for cables up to 10mm in diameter.
- An optional galvanised pole mount bracket is inserted from inside the base of the bin and fastened around the pole from the rear.
- The optional galvanised pole mount bracket is provisioned to mount the FTTx Loop Dome Joint as well. This neatens the pole installation with a back-to-back system and makes the equipment aesthetically pleasing
- Customers can place their branding on the lid
- The slack bin is supplied with 2 pole mount brackets that are fastened to the pole with steel strapping

7twenty

Let's connect

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Thank you.

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