HellermannTyton

FTTX Broadband Connectivity

Better Technology through Innovation

Introduction

Rural

MDU - Large

MDU - Small

SDU - Underground

SDU - Overhead or Pole

FTTB
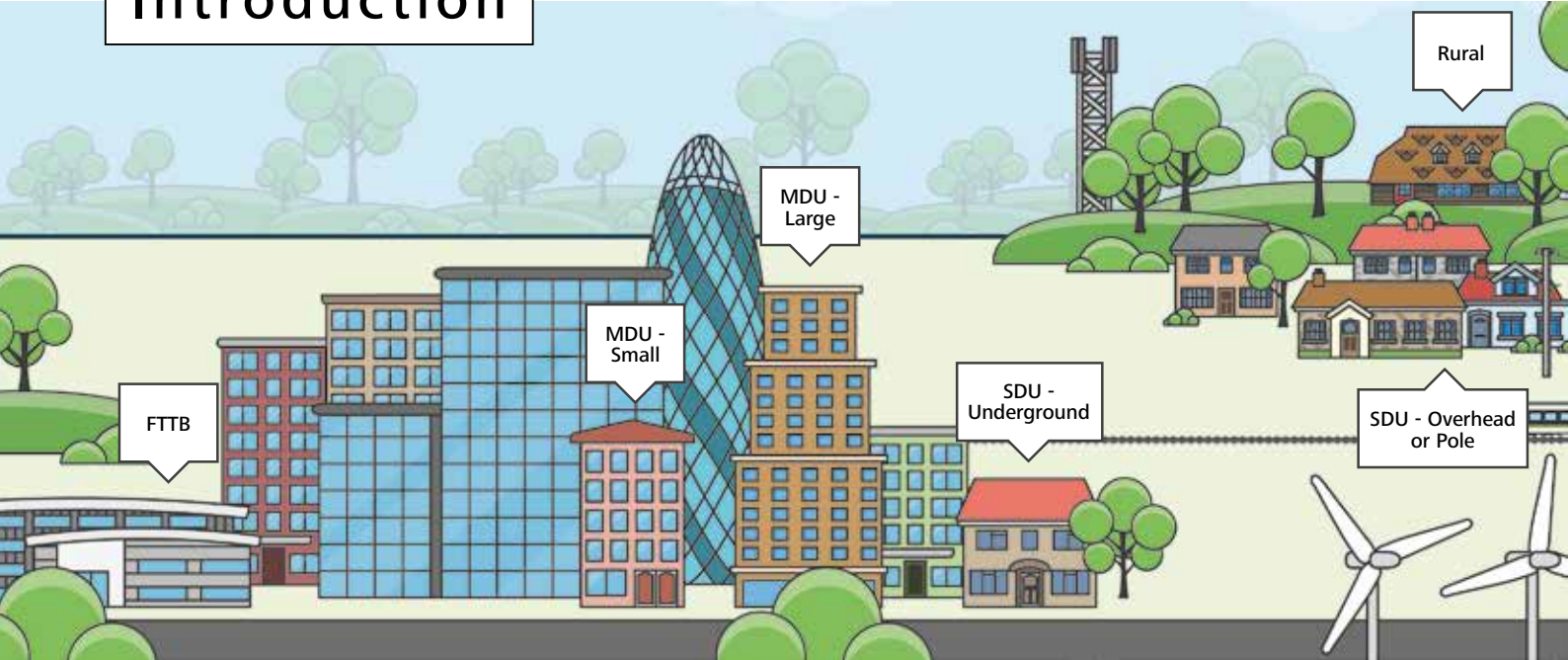
HellermannTyton is an established and innovative global leader in the provision of network infrastructure cabling solutions, offering a broad range of quality, high performance connectivity for both residential and commercial use.

HellermannTyton provides a complete end to end range of Fibre to the X (FTTX) solutions, delivering fibre from the Point of Presence (PoP) to the building and through to the customer termination point.
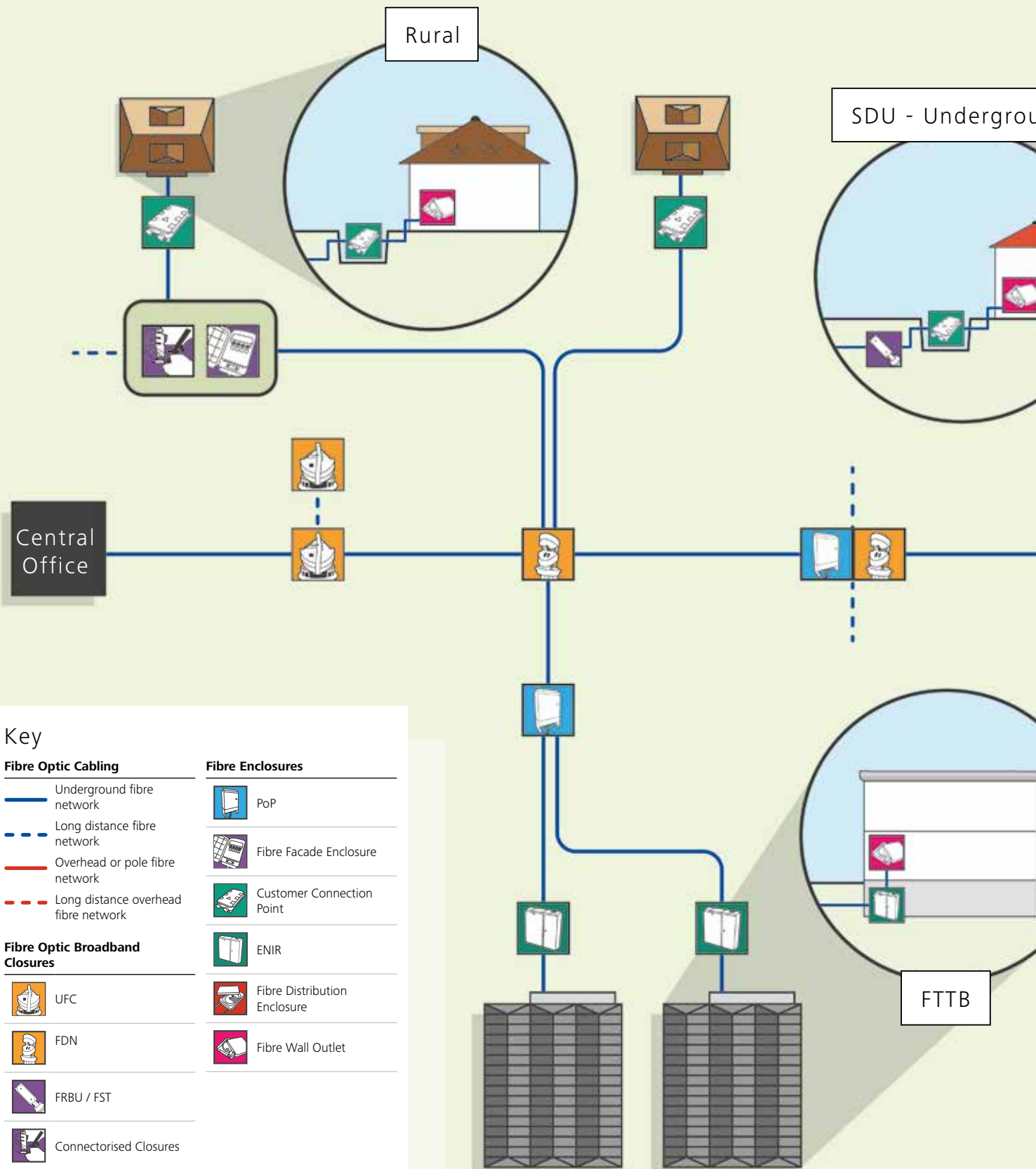
HellermannTyton have designed a range of outlets, distribution boxes, customer connection points and connectorised wall boxes that, combined with the fibre splice closures, provides full end to end FTTX solutions for both new developments and existing buildings. Depending on the size of the building, be it a large or small Multi Dwelling Unit (MDU) or a Single Dwelling Unit (SDU), this range of products offers a wide range of options in fibre connectivity and distribution.

The sealed fibre splice closures from HellermannTyton protect the fibre management systems from adverse environmental conditions whilst maintaining ready access for effective cable installation. The fibres are housed in space saving modular units that minimise network disruption and have been designed to allow further modules to be added at a later date for increased capacity, ensuring a future proof design.
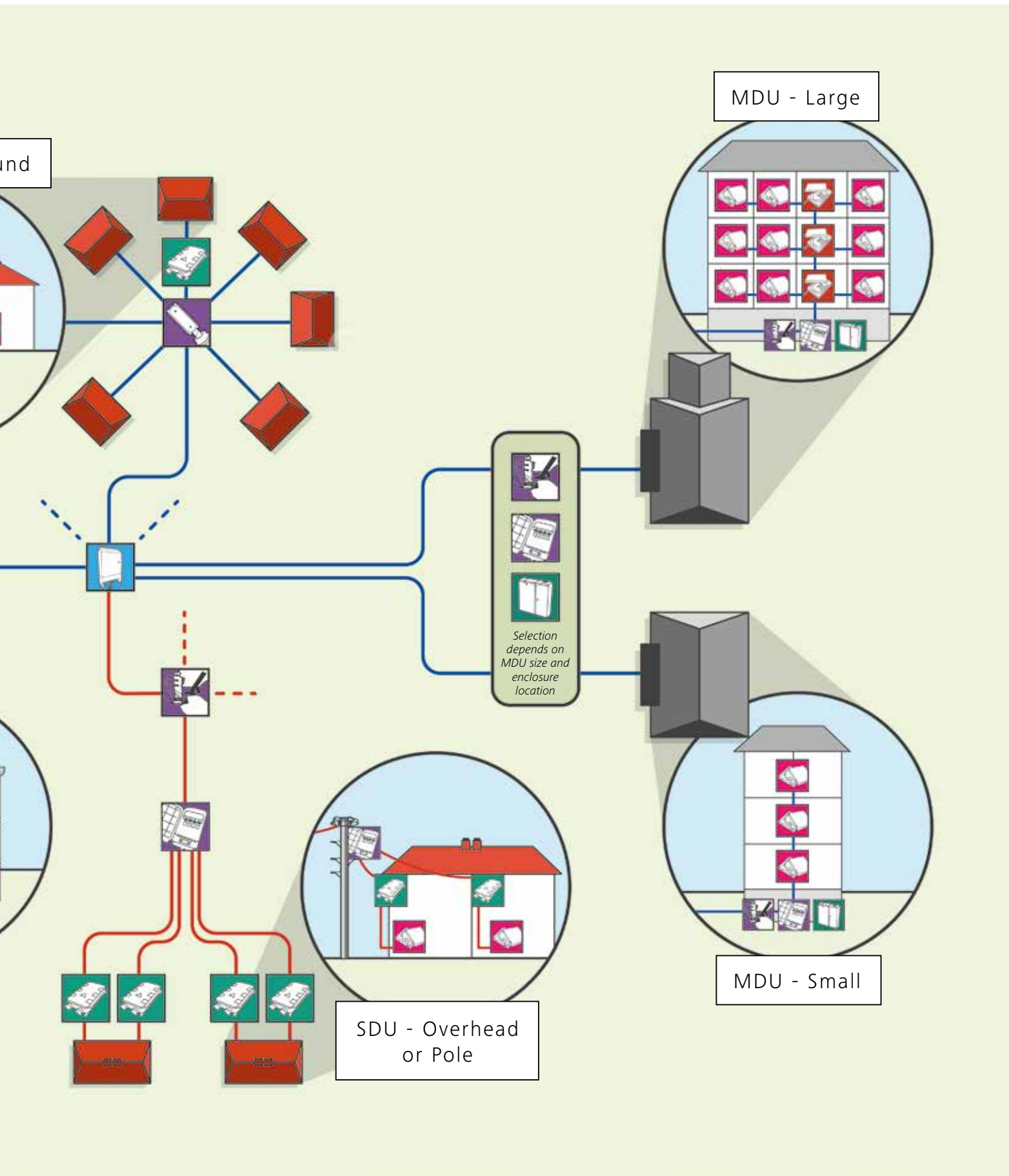
More customers are demanding maximum flexibility and a modular approach to cable management systems that will fit into existing and future networks. All closures have therefore been designed to cater for this requirement to accommodate the wide variety of fibre optic cables that are now available including loose tube, compact, ribbon and blown fibre / cable applications.

bsi. ISO 9001 Quality Management ISO 14001 Environmental Management
FM 34289   EMS 504454

FIA
The Fibreoptic Industry Association

MEMBER OF Fibre to the Home Council Europe

INCA
the independent networks cooperative association

FTTX Topography

Rural

SDU - Undergrou

Central Office

FTTB

Key

Fibre Optic Cabling

―――	Underground fibre network
- - -	Long distance fibre network
―――	Overhead or pole fibre network
- - -	Long distance overhead fibre network

Fibre Optic Broadband Closures

	UFC
	FDN
	FRBU / FST
	Connectorised Closures

Fibre Enclosures

	PoP
	Fibre Facade Enclosure
	Customer Connection Point
	ENIR
	Fibre Distribution Enclosure
	Fibre Wall Outlet

![HellermannTyton]

MDU - Large

und

Selection
depends on
MDU size and
enclosure
location

SDU - Overhead
or Pole

MDU - Small

Product Information

Inner and Outer Ring

UFC Fibre Splice Closure

The UFC fibre splice closure is the largest fibre splice closure from HellermannTyton. With its large number of ports for larger fibre cables, the UFC is suited to all FTTX, backhaul and trunk applications.

FDN Fibre Splice Closure

The FDN fibre splice closure delivers fibre to individual buildings or properties. The FDN is an oval shaped fibre closure with a high drop count making it the ideal solution for built up areas where there are multiple buildings to service.

Point of Connection (PoC) and Point of Presence (PoP)

The connectorised fibre PoC and PoP are flexible fibre management systems, designed to be configured in an extensive range of cabinets. The 48 fibre solution is expandable up to a maximum of 96 fibres, offering LC Simplex UPC and APC connector presentation in a point to point or point to multi-point design.

*With subtle differences, the PoC or PoP is determined by their location in the fibre network.

Fibre Concentration Point (FCP)

FRBU/FST Fibre Splice Closure

The FRBU and FST fibre splice closures distribute fibre directly to individual buildings or properties. The FRBU and FST are two of HellermannTyton's smaller fibre closures that are often deployed in rural and less built up locations with fewer buildings to connect.

Fibre Facade Enclosure

The Fibre Facade Enclosure has been designed to provide a Fibre Connection Point. The closure can be building/facade or pole mounted and provides 8 SC or LC Simplex customer connection points.

Connectorised Fibre Splice Closure

The connectorised closure is available configured with splice trays and a selection of fibre connector options which allows for the quick connection or disconnection of circuits using pre-configured fibre pigtails or field terminated connectors used in an SDU network.

Building Entry Point (BEP)

Customer Connection Point

The Customer Connection Point closure has been designed to be used as an external building entry point. The closure can be wall/facade mounted or put in to a buried chamber (located at the property boundary or just outside the point of access) providing an external building entry point and network test point.

ENIR

The ENIR is available with several fibre splice tray or connectorised options determined by the number of fibres required in the network. Designed as a BEP for a large or small MDU, the connectorised fibre enclosure from HellermannTyton incorporates two separate compartments for the network operator and the user.

Floor Distribution (FD)

Fibre Distribution Enclosures

The Internal Fibre Distribution Enclosure is used to break out, splice and connect optical fibre cables at the point of entry into a building or to distribute individual fibre circuits to the accommodation/business units on a specific floor or zone within an MDU or MBU. In a small MDU application, this fibre distribution enclosure would be used as a building entry point, with capacity to service up to 18 properties. The Fibre Distribution Enclosure can be supplied as a connectorised solution.
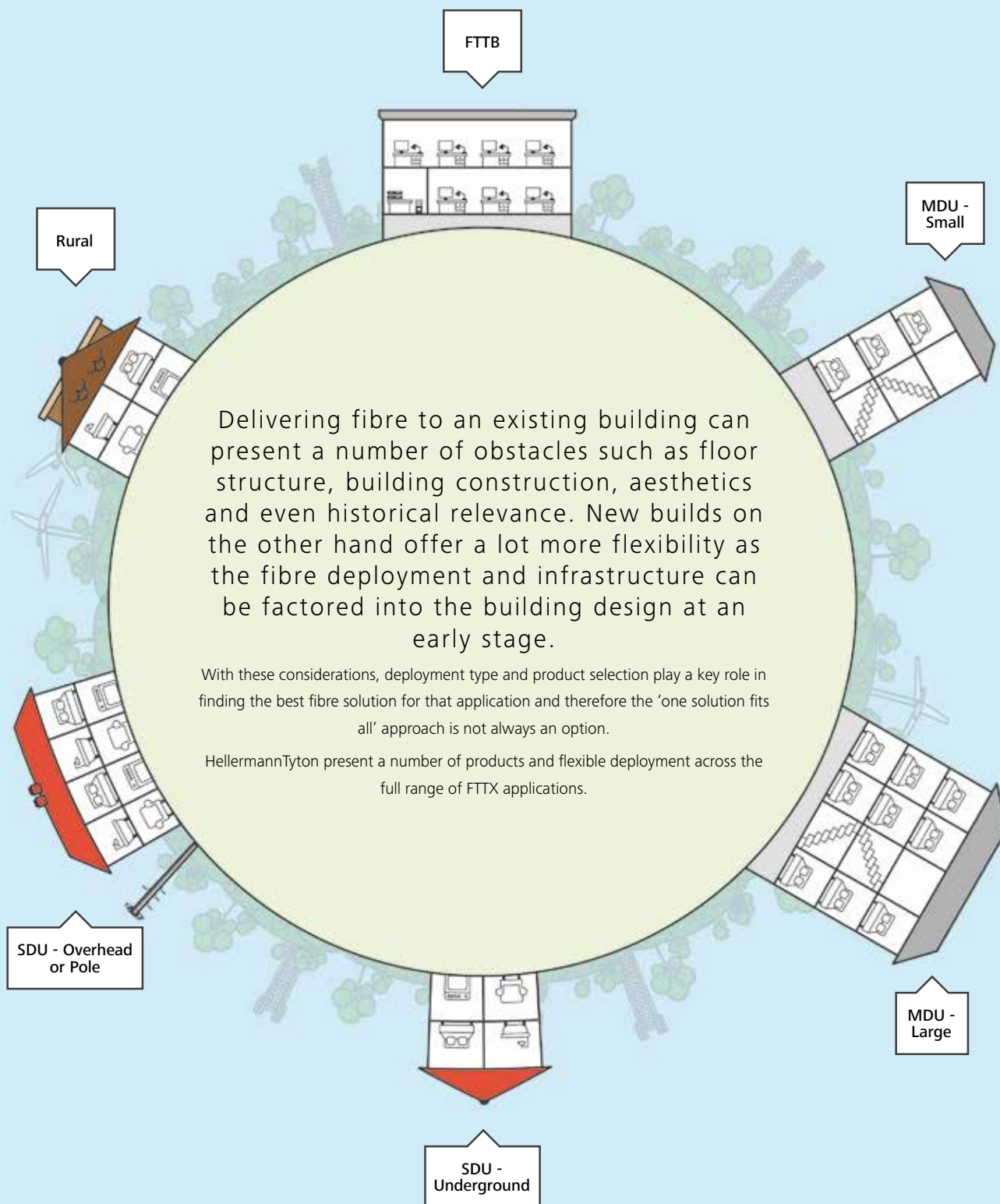
Optical Telecommunications Outlet (OTO)

Fibre Wall Outlet

The wall mounted fibre optic outlet allows a fibre optic cable to be connected directly in the end user apartment.

Product Deployment

MDU - Small

Rural

Delivering fibre to an existing building can present a number of obstacles such as floor structure, building construction, aesthetics and even historical relevance. New builds on the other hand offer a lot more flexibility as the fibre deployment and infrastructure can be factored into the building design at an early stage.

With these considerations, deployment type and product selection play a key role in finding the best fibre solution for that application and therefore the 'one solution fits all' approach is not always an option.

HellermannTyton present a number of products and flexible deployment across the full range of FTTX applications.

SDU - Overhead or Pole

MDU - Large

SDU - Underground

HellermannTyton

Multi Dwelling Units (MDUs)

The term MDU covers a variety of properties including high rise apartment complexes, Victorian terrace flats, converted factories and multi-use business or residential properties.

Large Multi Dwelling Unit (MDU)

The large MDU is typically a multi-tenant apartment complex with a large number of living units over multiple floors within the building.

A common MDU FTTH application will be designed with a single building entry point, a connectorised or spliced fibre distribution enclosure and drop cabling connecting the floor distribution to the to the optical telecommunications outlet at each apartment. The drop cables may be pre-terminated to the optical telecommunications outlet or at both ends for connection into the floor distributor.

Small Multi Dwelling Unit (MDU)

A small MDU applies to a smaller residential complex with a low number of apartments typically over 2 or 3 floors. A small MDU would use a lower capacity building entry point than the large MDU, directly connected to the optical telecommunications outlet with no separate floor distribution. With fewer living units to service, the cabling would be a smaller fibre count cable and may be pre-terminated.

Fibre to the Building (FTTB)

FTTB, also referred to as Fibre to the Building typically describes a number of fibres to a single building or property. In this deployment, multiple businesses operate out of the building and therefore require dedicated fibres. Using either a facade box or ENIR to distribute the fibre providing an excellent solution to manage individual fibre connections.
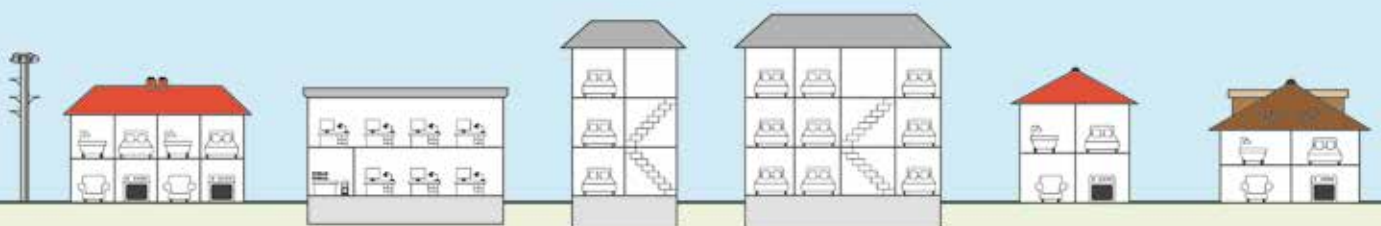
Single Dwelling Unit - Underground (SDU)

An SDU refers to a single house or stand-alone property. In this FTTH scenario, the building entry point will often take the form of a small unit such as the HellermannTyton customer connection point. The customer connection point will take a drop cable from the fibre concentration point and distribute fibre directly into the property to a optical telecommunications outlet. The final drop to the customer premises may be underground or aerial and can be pre-terminated.

## Single Dwelling Unit - Overhead or Pole (SDU)

The aerial application is an alternative and often more cost effective method to delivering fibre to the premises. The cable meets the building at a raised level and will either be routed directly into the premises via a Facade box or back down to ground floor level and into the building entry point. The drop cable may be pre-connectorised for connection into the fibre concentration point.

Rural

Fibre to rural locations is often delivered over large distances to small communities. This type of fibre deployment can see anything between a single resident or an entire village connected to a fibre broadband service. The size of the deployment will determine the types of product required to deliver the fibre. A single property could benefit from a customer connection point whereas multiple properties could use the Facade box or a smaller fibre optic closure such as the FST or FRBU.

FTTX Applications

Fibre to the Mast

Home – Rural

Metropolitan

Railway

Motorway

Wind/Solar Farm
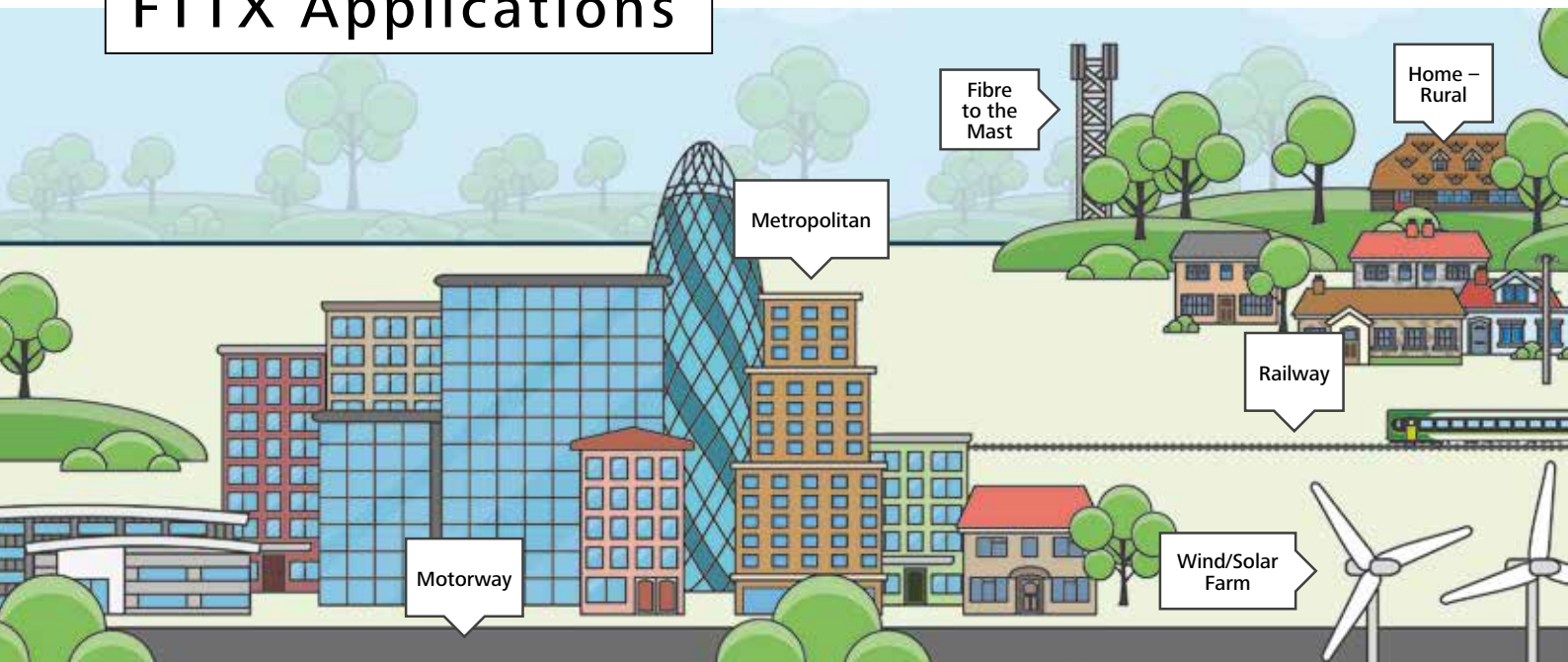
Delivering fibre to the …

FTTX is the blanket term used to describe fibre deployed in a number of different applications or scenarios. Fibre optic connectivity can be found in almost every sector and the demand for fibre is growing at pace. HellermannTyton offer an extensive range of fibre solutions, including closures, wall boxes, street cabinets and fibre distribution boxes, all designed to perform in a wide range of FTTX applications...

Motorway

The Highways Agency operates a dedicated network that connects thousands of roadside devices to a network of traffic control centres across the country. Largely made up of fibre optic cables that run along the length of the motorways, the network links more than 14,000 message signs, emergency telephones, CCTV cameras and traffic monitoring systems to the control centres.

Fibre optic closures are used to distribute the fibre connections between the control centres and the motorway monitoring and communications equipment.

Wind/Solar Farm

Wind turbines and solar panels are widely used in the renewable energy market. Wind turbines use a wide range of sensors that monitor wind speed, direction, and temperature. This information is recorded and sent back to a control station where the positioning of the turbine can be managed. Similarly, solar panel sensors also report back a range of information including solar strength, solar energy consumed and amount of electricity generated.

Metropolitan

In built up town and city locations where multiple fibres are required to service residential and business properties, HellermannTyton offer a number of aerial, burial, wall box and street cabinet solutions to meet these demands.

Home – Rural

Rural Fibre to the Home delivery has seen rapid growth over recent years. Across the UK, there are thousands of homes and businesses in remote rural locations that cannot be connected by the mainstream service providers. Independent service providers have been formed to deliver fibre broadband to these rural locations by working closely with the local communities and land owners.

Fibre to the Mast

Fibre to the Mast enables high capacity and flexible LTE deployment to meet the rapidly growing high bandwidth demands of today's mobile networks. Fibre to the Mast can also be a cost effective solution to the rural broadband challenge, providing an efficient way of delivering fast internet access to locations with low population density.

Railway

Fibre within Rail networks has become an integral component for signalling and monitoring hardware. High performing fibre is essential for rail signalling, providing a safe and efficient service for passengers. Fibre is also used to relay data from sensors that monitor the condition and performance of the physical rail tracks.

HellermannTyton fibre optic closures can be used to distribute fibre connectivity to the active equipment up and down the railway network.

UFC Integrated Routing Closure

B - C Length

The UFC fibre splice closure is the largest fibre splice closure from HellermannTyton. With its large number of ports for larger fibre cables, the UFC is suited to all FTTX, backhaul and trunk applications.

Features and benefits
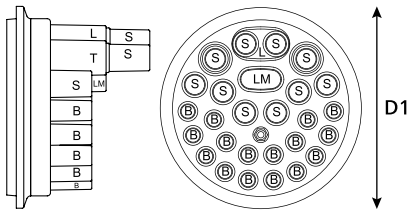- Maximum 1440 fibre splice capacity when using SC-B tray (C Length Double Stack)
- 28 round ports and 2 oval ports
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre storage area
- Bi-directional fibre routing
- Accommodates SC, SC-B and SE trays
- Maximum 12 splices per tray without double stacking
- 3A and ANT splice options available
- Splitter accommodation
- Cablelok compatible for all port sizes
- Quick release cover
- Optional pressure release valve

UFC IR C-Length Double Stack Closure

UFC base offers 28 round ports and 2 oval ports

UFC IR B-Length Closure with basket

UFC Base Configuration

See page 5 for application

Technical Description

The UFC Integrated Routing (IR) closure is available with a Cablelok (Polypropylene) or Heatshrink (ABS/PA) base. The base configuration of 28 round ports and 2 oval ports covers a cable diameter range of 4.0 – 29.0mm when using Cablelok mechanical seals and 6.0 – 35.0mm when using heatshrink.

The mounting system is manufactured from Grade 304 stainless steel and the backplanes are aluminium extrusions. The UFC IR can accommodate up to 60 IR SE trays or 120 IR SC/SC-B trays or a combination of SE, SC and SC-B trays when using the double stack option. The UFC closure can be supplied with splice trays offering either 3A or ANT splice bridges.

The position of the mounting system allows easy access for the routing of the fibre on to the trays and provides space for the storage of fibre loops. The trays and fibre optic routing module are white which makes it easy to see the colour of the fibre elements as they are routed through the positive fibre management system. Fibre slot retaining blocks guide fibre elements in to the IR system, the foam pad on the retainer is partially cut through to accommodate a range of fibre counts.

All IR system cover plates are coloured blue identifying them as removable parts allowing access to the fibre and the fibre slot retaining block and tray retaining clips are coloured red to aid in identification if they are dropped.

TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Method of Sealing	Tray Type	Tray Quantity	Splice Protector Type	Basket Size	Article-No.
UFCIR-BXXHXN	275	310	549	Cablelok, Heatshrink	Integrated Routing SC-B	24	3A	-	857-00889
UFCIR-BXBHXN	275	310	549	Cablelok, Heatshrink	Integrated Routing SC-B	24	3A	Medium	857-00886
UFCIR-BXDHXN	275	310	549	Cablelok, Heatshrink	Integrated Routing SC-B	48	3A	-	857-00892
UFCIR-CXXHXN	275	310	749	Cablelok, Heatshrink	Integrated Routing SC-B	60	3A	-	857-00891
UFCIR-CXBHXN	275	310	749	Cablelok, Heatshrink	Integrated Routing SC-B	60	3A	Large	857-00888
UFCIR-CXDHXN	275	310	749	Cablelok, Heatshrink	Integrated Routing SC-B	120	3A	-	857-00894

All dimensions in mm. Subject to technical changes.

UFC Tubed Closure

A - C Length

The UFC fibre splice closure is the largest fibre splice closure from HellermannTyton. With its large number of ports for larger fibre cables, the UFC is suited to all FTTX, backhaul and trunk applications.

Features and benefits
- Maximum splice capacity up to 864 fibres when using NZDF SE-A trays (C Length Double Stack)
- 28 round ports and 2 oval ports
- Accommodates Hellipse NZDF SE-A or SMF SE-A trays
- Maximum 24 splices per tray without double stacking (SMF SE-A trays)
- Splitter accommodation
- 3A and ANT splice options available
- Cablelok compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through

UFC Base Configuration

UFC C-Length Double Stack Closure

UFC base offers 28 round ports and 2 oval ports

UFC A-Length Closure with basket

See page 5 for application

Technical Description

The UFC closure is available in a range of lengths with either a Cablelok (Polypropylene) or Heatshrink (ABS/PA) base. The base configuration of 28 round ports and 2 oval ports covers a cable diameter range of 4.0 – 29.0mm when using Cablelok mechanical seals and 6.0 – 35.0mm when using heatshrink.

The mounting and support system is manufactured from Grade 304 stainless steel and can accommodate up to 72 Hellipse NZDF SE-A or

SMF SE-A trays giving a maximum of 864 fibre splices based on 12 fibres per tray (when using Hellipse NZDF SE-A trays). The UFC closure can be supplied with splice trays offering either 3A or ANT splice bridges. The tubed closure and position of the mounting system allows for ease of access and traceability of the fibre on to the trays. The trays are white which makes it easy to see the colour of the fibre elements as they are routed through the fibre management system and on to the trays.

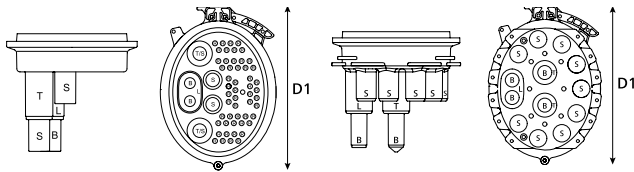| TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Method of Sealing	Tray Type	Tray Quantity	Splice Protector Type	Basket Size	Article-No.
UFCTB-AXXHD11	275	310	400	Cablelok, Heatshrink	Hellipse NZDF SE-A	6	3A	-	857-00691
UFCTB-AXBHD11	275	310	400	Cablelok, Heatshrink	Hellipse NZDF SE-A	6	3A	Small	857-00692
UFCTB-CXXHD61	275	310	749	Cablelok, Heatshrink	Hellipse NZDF SE-A	36	3A	-	857-00753
UFCTB-CXBHD61	275	310	749	Cablelok, Heatshrink	Hellipse NZDF SE-A	36	3A	Large	857-00754
UFCTB-CXDHDC1	275	310	749	Cablelok, Heatshrink	Hellipse NZDF SE-A	72	3A	-	857-00762

All dimensions in mm. Subject to technical changes.

FDN 16 and 59 Port Integrated Routing Closures

A - C Length

The FDN fibre splice closure delivers fibre to individual buildings or properties. The FDN is an oval shaped fibre closure with a high drop count making it the ideal solution for built up areas where there are multiple buildings to service.

Features and benefits
- Maximum 864 fibre splice capacity when using SC-B tray (C Length)
- 58 or15 round ports and 1 oval port
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre storage basket for loop through applications
- Bi-directional fibre routing
- Accommodates SC, SC-B and SE trays
- 3A and ANT splice options available
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok compatible for all port sizes
- Quick release cover
- Optional pressure release valve

FDN IR 59 Port C-Length Closure with basket

FDN IR 59 Port A-Length Closure with basket

See page 5 for application

FDN 59 Port Base Configuration

FDN 16 Port Base Configuration

Technical Description

The FDN 16 and 59 Port Integrated Routing (IR) closures are supplied with a Polypropylene base. With base configurations of either 58 round ports and 1 oval port or 15 round ports and 1 oval port, the FDN accommodates a cable diameter range of 1.7 – 29.0mm when using Cablelok mechanical seals and 6.0 – 35.0mm when using heatshrink.

The mounting system is manufactured from Grade 304 stainless steel and the backplane is an aluminium extrusion which can accommodate up to 36 IR SE trays or 72 IR SC/SC-B trays or a combination of SE, SC and SC-B trays. The FDN closure can be supplied with splice trays offering either 3A or ANT splice bridges.

The position of the mounting system allows easy access for the routing of the fibre on to the trays and the basket provides storage space for the storage of fibre loops. The trays and fibre optic routing module are white which makes it easy to see the colour of the fibre elements as they are routed through the positive fibre management system. Fibre slot retaining blocks guide fibre elements in to the IR system, the foam pad on the retainer is partially cut through to accommodate a range of fibre counts.

All IR system cover plates are coloured blue identifying them as removable parts allowing access to the fibre, the fibre slot retaining block and tray retaining clips are coloured red to aid in identification if they are dropped.

| TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Port count	Tray Type	Tray Quantity	Splice Protector Type	Basket Size	Article-No.
FDNIR-AXXAXN	312	222	455	16	Integrated Routing SC-B	12	3A	-	857-01014
FDNIR-AXBAXN	312	222	455	16	Integrated Routing SC-B	12	3A	Small	857-01010
FDNIR-AXXCXN	312	222	455	59	Integrated Routing SC-B	12	3A	-	857-00899
FDNIR-AXBCXN	312	222	455	59	Integrated Routing SC-B	12	3A	Small	857-00895
FDNIR-CXXAXN	312	222	789	16	Integrated Routing SC-B	72	3A	-	857-00990
FDNIR-CXBAXN	312	222	789	16	Integrated Routing SC-B	72	3A	Large	857-00986
FDNIR-CXXCXN	312	222	789	59	Integrated Routing SC-B	72	3A	-	857-00902
FDNIR-CXBCXN	312	222	789	59	Integrated Routing SC-B	72	3A	Large	857-00898

All dimensions in mm. Subject to technical changes.

FDN 16 and 59 Port Tubed Closures

A - C Length

The FDN fibre splice closure delivers fibre to individual buildings or properties. The FDN is an oval shaped fibre closure with a high drop count making it the ideal solution for built up areas where there are multiple buildings to service.
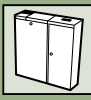
Features and benefits
- Maximum 864 fibre splice capacity when using SMF SE-A trays (C Length)
- 58 or 15 round ports and 1 oval port
- Fibre storage basket for loop through applications (where specified)
- Accommodates Hellipse NZDF SE-A and SMF SE-A trays
- Maximum 24 splices per tray without double stacking (SMF SE-A trays)
- 3A and ANT splice options available
- Splitter accommodation
- Cablelok compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through
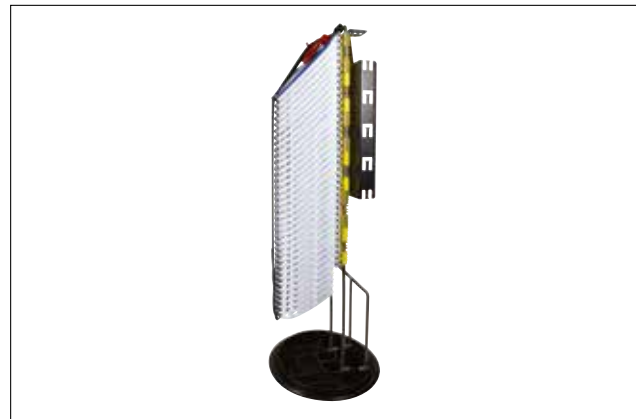
FDN 59 Port C-Length Closure with basket

FDN A-Length Closure with basket
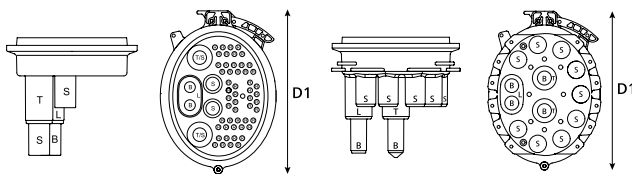
See page 5 for application

FDN 59 Port Base Configuration

FDN 16 Port Base Configuration

Technical Description

The FDN 16 and 59 Port closures are supplied with a Polypropylene base. With base configurations of either 58 round ports and 1 oval port or 15 round ports and 1 oval port, the FDN accommodates a cable diameter range of 1.7 – 29.0mm when using Cablelok mechanical seals and 6.0 – 35.0mm when using heatshrink.

The mounting system is manufactured from Grade 304 stainless steel and can accommodate up to 36 Hellipse NZDF SE-A or SMF SE-A trays giving a maximum of 864 fibre splices based on 24 fibres per tray (when using Hellipse SMF SE-A trays). The FDN closure can be supplied with splice trays offering either 3A or ANT splice bridges.

The tubed closure and the position of the mounting system allows for ease of access and traceability of the fibre on to the trays and the basket provides storage space for the storage of fibre loops. The trays are white which makes it easy to see the colour of the fibre elements as they are routed through the fibre management system.

TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Port count	Tray Type	Tray Quantity	Splice Protector Type	Basket Size	Article-No.
FDNTB-AXXAD21	312	222	455	16	Hellipse NZDF SE-A	12	3A	-	857-01037
FDNTB-AXBAD21	312	222	455	16	Hellipse NZDF SE-A	12	3A	Small	857-01034
FDNTB-AXXCD21	312	222	455	59	Hellipse NZDF SE-A	12	3A	-	857-00640
FDNTB-AXBCD21	312	222	455	59	Hellipse NZDF SE-A	12	3A	Small	857-00641
FDNTB-CXXA61	312	222	789	16	Hellipse NZDF SE-A	36	3A	-	857-01019
FDNTB-CXBAD61	312	222	789	16	Hellipse NZDF SE-A	36	3A	Large	857-01016
FDNTB-CXXCD61	312	222	789	59	Hellipse NZDF SE-A	36	3A	-	857-00662
FDNTB-CXBCD61	312	222	789	59	Hellipse NZDF SE-A	36	3A	Large	857-00663

All dimensions in mm. Subject to technical changes.

Fibre Enclosures

Connectorised PON Street Cabinet

The connectorised fibre PoC and PoP are flexible fibre management systems, designed to be configured in an extensive range of cabinets. The 48 fibre solution is expandable up to a maximum of 96 fibres, offering LC Simplex UPC and APC connector presentation in a point to point or point to multi-point design.

*With subtle differences, the PoC or PoP is determined by their location in the fibre network.

Features and benefits

- 48 Port Point of Connection (expandable to 96)
- Duct support bracket for 48 drops (expandable to 96)
- LC Simplex (UPC/APC) presentation
- Positive fibre management throughout
- 900µm fibre routing and management
- Modular construction allows for build and grow network
- Quick and easy installation of additional trays/drop patch modules
- Fibre storage basket for loop through applications

Point of Connection

See page 5 for application

Technical Description

A modular and flexible fibre management system housed within a stainless steel powder coated street cabinet 998 x 535 x 315mm (HxWxD). (Riser supplied separately).

The fibre management system offers 48 LC Simplex connections (expandable up to 96) in a point to point or point to multipoint design with positive fibre management for both 250µm and 900µm fibre. Additional loop storage is provided for installations with loop through applications.

A standard cabinet is supplied with 6 1 x 8 splitter assemblies, 3 fibre splice trays, 6 drop patch modules, a drop patch module holder, drop cable manager and a customer drop management bracket to accommodate 48 8mm blown duct tubes.

Each splitter assembly consists of a pre-assembled fibre splice tray with a single pre-installed 1 x 8 splitter and 1 3A splice bridge. The splitter is pre-connectorised with 8 LC Simplex 900µm output fibres. These are routed to an 8 port LC Simplex drop patch module and connected to 8 LC Simplex adaptors. The additional trays are fitted with 2 splice bridges to accommodate a maximum of 16 3A splices. Other configurations may be available to meet more exacting requirements - please contact HellermannTyton for further information.

TYPE	Height (H)	Width (W)	Depth (D)	Tray Type	Tray Quantity	Connector Type	Article-No.
RISXGY-CAB0001	300.0	535.0	315.0	-	-	-	857-40444
SCSXGYA1CAB0001-MXE01P06B-1681	985.0	535.0	315.0	Versatile Routing ME	9	LC	857-01209
SCSXGYA1CAB0001-MXE01R06B-1681	985.0	535.0	315.0	Versatile Routing ME	9	LC-APC	857-01210

All dimensions in mm. Subject to technical changes.

Connectorised PON Street Cabinet Accessories

| TYPE	Description	Article-No.
DM4-8MM	Customer 32 Drop Management Bracket	857-40458
DM6-8MM	Customer 48 Drop Management Bracket	857-40459
DM8-8MM	Customer 64 Drop Management Bracket	857-40460
DPMH-WH	Drop Patch Management Holder	857-40451
SMA-MX1PB	LC Splitter Assembly	857-40448
SMA-MX1RB	LC-APC Splitter Assembly	857-40450

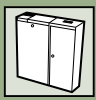All dimensions in mm. Subject to technical changes.

Customer 48 Drop Management Bracket

Drop Patch Management Holder
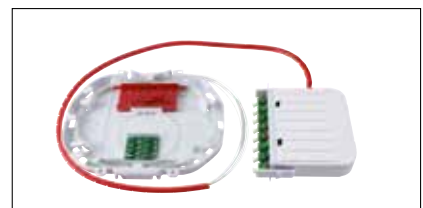
Splitter Assembly

Fibre Enclosures

Connectorised PON Street Cabinet

The connectorised fibre PoC and PoP are flexible fibre management systems, designed to be configured in an extensive range of cabinets. The 48 fibre solution is expandable up to a maximum of 96 fibres, offering LC Simplex UPC and APC connector presentation in a point to point or point to multi-point design.

*With subtle differences, the PoC or PoP is determined by their location in the fibre network.

Features and benefits

• 96 Port Point of Connection
• Duct support bracket for 96 drops
• LC Simplex (UPC/APC) presentation
• Positive fibre management throughout
• 900µm fibre routing and management
• Modular construction allows for build and grow network
• Quick and easy installation of additional trays/drop patch modules
• Fibre storage basket for loop through applications

Point of Connection (door not shown)

See page 5 for application

Technical Description

A modular and flexible fibre management system housed within a glass re-inforced polycarbonate street cabinet 998 x 594 x 400mm (HxWxD). (Riser and plinth supplied separately).

The fibre management system offers 96 LC Simplex connections in a point to point or point to multipoint design with positive fibre management for both 250µm and 900µm fibre. Additional loop storage is provided for installations with loop through applications.

A standard cabinet is supplied with 12 1 x 8 splitter assemblies, 3 fibre splice trays, 12 drop patch modules, 2 drop patch module holders,

drop cable manager and a 2 customer drop management brackets to accommodate 96 8mm blown duct tubes.

Each splitter assembly consists of a pre-assembled fibre splice tray with a single pre-installed 1 x 8 splitter and 1 3A splice bridge. The splitter is pre-connectorised with 8 LC Simplex 900µm output fibres. These are routed to an 8 port LC Simplex drop patch module and connected to 8 LC Simplex adaptors. The additional trays are fitted with 2 splice bridges to accommodate a maximum of 16 3A splices. Other configurations may be available to meet more exacting requirements - please contact HellermannTyton for further information.

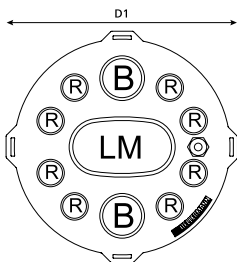| TYPE	Height (H)	Width (W)	Depth (D)	Tray Type	Tray Quantity	Connector Type	Article-No.
PLPCGY-CAB0002	400.0	594.0	400.0	-	-	-	857-40446
RIPCGY-CAB0002	660.0	594.0	400.0	-	-	-	857-40445
SCPCGYA2CAB0002-MXE02P12B-2681	998.0	594.0	400.0	Versatile Routing ME	15	LC	857-01211
SCPCGYA2CAB0002-MXE02R12B-2681	998.0	594.0	400.0	Versatile Routing ME	15	LC-APC	857-01212

All dimensions in mm. Subject to technical changes.
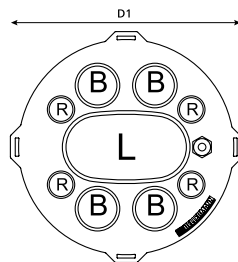
FRBU 9 and 11 Port Closures

B Length

The FRBU fibre splice closure distributes fibre directly to individual buildings or properties. The FRBU is a smaller fibre closure from HellermannTyton that is often deployed in rural and less built up locations with fewer buildings to connect.

Features and benefits
- Maximum 144 fibre splice capacity
- 10 or 8 round ports and 1 oval port
- Accommodates Hellapon Medium side hinged trays
- Fibre storage basket for loop through applications (Hellapon Medium side hinged 3 tray version only)
- Maximum 24 splices per tray (double stacked)
- 3A and ANT splice options available
- Splitter accommodation
- Cablelok compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through

FRBU B-Length 11 Port Closure with 6 Medium Hellapon Trays

FRBU B-Length 9 Port Closure with 6 Medium Hellapon Trays

See page 5 for application

FRBU 11 Port Base Configuration

FRBU 9 Port Base Configuration

Technical Description

The FRBU B Length closure is supplied with a Polypropylene base. With base configurations of either 10 round and 1 oval port or 8 round and 1 oval ports, the FRBU accommodates a cable diameter of 1.7 - 20.0mm when using Cablelok mechanical seals and 6.0 - 24.0mm when using heatshrink.

The mounting system is manufactured from Grade 304 stainless steel and can accommodate a maximum of 6 Hellapon Medium side hinged trays or 3 Hellapon Medium side hinged trays and basket giving a maximum of 144 fibre splices based on 24 fibres per tray. The FRBU

closure can be supplied with splice trays offering either 3A or ANT splice bridges. The fibre basket provides storage space for the storage of fibre loops within the closure.

The tubed closure and the position of the mounting system allows for ease of access and traceability of the fibre on to the trays.

The trays are white which makes it easy to see the colour of the fibre elements as they are routed through the fibre management system and on to the trays.

TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Port count	Tray Type	Tray Quantity	Splice Protector Type	Basket Size	Article-No.
FRBTB-BXXNC2X	130	130	505	9	Hellapon Medium	2	3A	-	857-00632
FRBTB-BXBNC3X	130	130	505	9	Hellapon Medium	3	3A	Medium	857-00635
FRBTB-BXXNC4X	130	130	505	9	Hellapon Medium	4	3A	-	857-00633
FRBTB-BXXNC6X	130	130	505	9	Hellapon Medium	6	3A	-	857-00634
FRBTB-BXXEC2X	130	130	505	11	Hellapon Medium	2	3A	-	857-00624
FRBTB-BXBEC3X	130	130	505	11	Hellapon Medium	3	3A	Medium	857-00627
FRBTB-BXXEC4X	130	130	505	11	Hellapon Medium	4	3A	-	857-00625
FRBTB-BXXEC6X	130	130	505	11	Hellapon Medium	6	3A	-	857-00626

All dimensions in mm. Subject to technical changes.
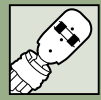
FST 4 and 13 Port Closures

A Length

The FST fibre splice closure distributes fibre directly to individual buildings or properties. The FST is HellermannTyton's smallest fibre closures that is often deployed in rural and less built up locations with fewer buildings to connect.

Features and benefits
• Maximum 36 fibre splice capacity
• 12 or 3 round ports and 1 oval port
• 3 round ports and 1 oval port
• Accommodates Hellapon Small trays
• Fibre storage basket for loop through applications (Hellapon Small 1 tray version only)
• Maximum 12 splices per tray
• 3A and ANT splice options available
• Splitter accommodation
• Cablelok compatible for all port sizes
• Quick release cover

FST 13 Port Closure with 1 Small Hellapon Tray and basket

FST 4 Port Closure with 2 Small Hellapon Tray
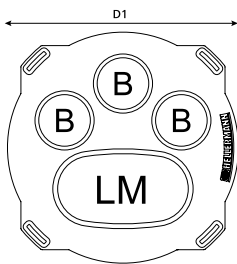
See page 5 for application
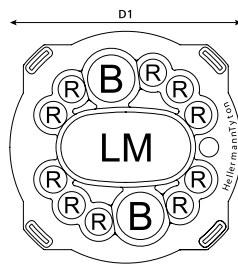
FST 4 Port Base Configuration   *FST 13 Port Base Configuration*

Technical Description

The FST closure is supplied with a Polypropylene base. With base configurations of either 12 or 3 round ports and 1 oval port, the FST accommodates a cable diameter range of 1.7 – 16.5mm when using Cablelok mechanical seals and 6.0 – 22.0mm when using heatshrink (4 port only).

The mounting system is manufactured from Grade 304 stainless steel and can accommodate a maximum of 3 Hellapon Small trays or 1 Hellapon Small tray and basket giving a maximum of 36 fibre splices

based on 12 splices per tray. The FST closure can be supplied with splice trays offering either 3A or ANT splice bridges. The fibre basket provides space for the storage of fibre loops within the closure.

The tubed closure and the position of the mounting system allows for ease of access and traceability of the fibre on to the trays.

The trays are white which makes it easy to see the colour of the fibre elements as they are routed through the fibre management system and on to the trays.
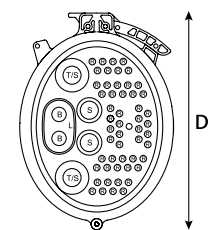
TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Port count	Tray Type	Tray Quantity	Splice Protector Type	Basket Size	Article-No.
FSTTB-AXBFA11	110	110	310	4	Hellapon Small	1	3A	Small	857-00616
FSTTB-AXXFA21	110	110	310	4	Hellapon Small	2	3A	-	857-00615
FSTTB-AXBTA11	110	110	310	13	Hellapon Small	1	3A	Small	857-00618
FSTTB-AXXTA21	110	110	310	13	Hellapon Small	2	3A	-	857-00617
FSTTB-AXXTA31	110	110	310	13	Hellapon Small	3	3A	-	857-00619

All dimensions in mm. Subject to technical changes.

Connectorised Closures

FDN, FRBU and FST Closures

The connectorised closure is available configured with splice trays and a selection of fibre connector options which allows for the quick connection or disconnection of circuits using pre-configured fibre pigtails or field terminated connectors used in an SDU network.

Features and benefits

• Maximum 180 fibre splice capacity
• FDN 59 Port has 58 round ports and 1 oval port
• FRBU 11 Port has 10 round ports and 1 oval port
• FST 13 Port has 12 round ports and 1 oval port
• Accommodates LC DX or SC SX adaptors
• Splitter accommodation
• Cablelok compatible for all port sizes
• Quick release cover
• Optional flash test valve and/or grounding feed-through

Technical Description

HellermannTyton offer a range of connectorised solutions in the FDN, FRBU and FST fibre splice closures. The closures are supplied with a Polypropylene base. The mounting system is manufactured from Grade 304 stainless steel.

The connectorised closures and the position of the mounting systems allow for ease of access and traceability of the fibre on to the trays.

The trays are white which makes it easy to see the colour of the fibre elements as they are routed through the fibre management system and in to the trays.

See page 5 for application

FDN B-Length Connectorised Closure with 64 LC or 32 SC ports and basket

FST13 Port A-Length Connectorised Closure

FRBU 11 Port B-Length Connectorised Closure

FDN 59 Port Base Configuration
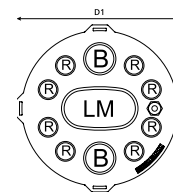
FRBU 11 Port Base Configuration
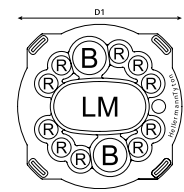
FST 13 Port Base Configuration

TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Port count	Tray Type	Tray Quantity	Splice Protector Type	Connector Type	Article-No.
FSTCT-AXXTA11-SE	110	110	310	13	Hellapon Small	1	3A	SC	857-01213
FSTCT-AXXTA11-TE	110	110	310	13	Hellapon Small	1	3A	SC-APC	857-01067
FRBCT-BXXEC2X-TF	130	130	505	11	Hellapon Medium	2	3A	SC-APC	857-00910
FRBCT-BXXEC3X-TF	130	130	505	11	Hellapon Medium	3	3A	SC-APC	857-00961
FDNCT-ABBCDW1-LJ	312	222	561	59	Hellipse NZDF SE-A	15	3A	LC	857-00795
FDNCT-ABBCDW1-AJ	312	222	561	59	Hellipse NZDF SE-A	15	3A	LC-APC	857-00797
FDNCT-ABBCDW1-SJ	312	222	561	59	Hellipse NZDF SE-A	15	3A	SC	857-00799
FDNCT-ABBCDW1-TJ	312	222	561	59	Hellipse NZDF SE-A	15	3A	SC-APC	857-00801

All dimensions in mm. Subject to technical changes.
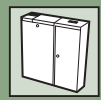
Fibre Facade Enclosure
Fibre Optic External Enclosure

The Fibre Facade Enclosure has been designed to provide a Fibre Connection Point. The closure can be building/facade or pole mounted and provides 8 SC or LC Simplex customer connection points.

Features and benefits
- 8 SC or LC Simplex Adaptors
- 2 Inbound/8 Outbound ports
- Separation of inbound fibre from connectorised drop cables
- Positive fibre management to maintain consistent 30mm minimum bend
- PLC splitter accommodation (60mm x 7mm x 4mm)
- Supports 3A and ANT splice protector types
- IP55 and IK07 rating
- Pole or building/facade mounted

Fibre Facade Box (internal view)

See page 5 for application
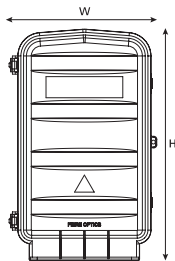
Fibre Facade Box (top view)
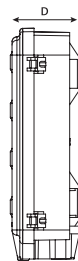
Fibre Facade Box (side view)

Technical Description

The Fibre Facade Enclosure (FFE) is manufactured from UV stable black polycarbonate with a completely detachable lid which can also be snapped back in to position using the snap back hinges allowing unrestricted access to all fibre management areas. The enclosure has 3 separate management areas for inbound cable, fibre splice management and drop cable (customer connection) management. The inbound cable management area has a dedicated cable entry port which supports both cable end and mid-span applications with loop storage capacity for up to 1.5m* of excess fibre and the entry port is sealed with a cable entry kit to maintain the IP55 rating.

The fibre splice management area has capacity for a maximum of 12 x 3A or 24 ANT splicees and maintains positivie fibre management (30mm minimum bend radius) throughout. The tray has a crossover facility which allows for alternative routing requirements and a fibre storage capacity of 1.5m for 250µm fibre and 1.0m of 900µm fibre.

The drop cable management area presents either 8 SC or LC Simplex adaptors for connection to industry standard pre-terminated drop cables and a PLC splitter (60mm x 7mm x 4mm) can be fitted on the inside of the management area. The drop cable management area cover prevents access to the network cables and splicing area and the adaptors are angled and spaced to allow for inspection prior to connection. Eight anchor guides are provided for securing the drop cables (maximum diameter 6.0mm) and an integral seal maintains the IP55 rating.

TYPE	Height (H2)	Width (W)	Depth (D)	Suitable for Cable Ø from/to	Splice Protector Type	Connector Type	Article-No.
FFE-02LCXXXX1/BK0	230.0	140.0	60.0	7 - 10	3A, Crimp (ANT)	-	857-01176
FFE-02SCXXXX1/BK0	230.0	140.0	60.0	7 - 10	3A, Crimp (ANT)	-	857-01177
FFE-02LCPPXX1/BK0	230.0	140.0	60.0	7 - 10	3A, Crimp (ANT)	LC	857-01178
FFE-02LCRPXX1/BK0	230.0	140.0	60.0	7 - 10	3A, Crimp (ANT)	LC-APC	857-01179
FFE-02SCSPXX1/BK0	230.0	140.0	60.0	7 - 10	3A, Crimp (ANT)	SC	857-01180
FFE-02SCTPXX1/BK0	230.0	140.0	60.0	7 - 10	3A, Crimp (ANT)	SC-APC	857-01181
FFE-01SCXXXX1/BK0	230.0	140.0	60.0	10.0 - 13.0	3A, Crimp (ANT)	-	857-01169
FFE-01LCXXXX1/BK0	230.0	140.0	60.0	10.0 - 13.0	3A, Crimp (ANT)	-	857-01170
FFE-01SCSPXX1/BK0	230.0	140.0	60.0	10.0 - 13.0	3A, Crimp (ANT)	SC	857-01171
FFE-01SCTPXX1/BK0	230.0	140.0	60.0	10.0 - 13.0	3A, Crimp (ANT)	SC-APC	857-01172
FFE-01LCPPXX1/BK0	230.0	140.0	60.0	10.0 - 13.0	3A, Crimp (ANT)	LC	857-01173
FFE-01LCRPXX1/BK0	230.0	140.0	60.0	10.0 - 13.0	3A, Crimp (ANT)	LC-APC	857-01174

All dimensions in mm. Subject to technical changes.
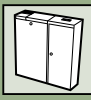
Fibre Enclosures

Customer Connection Point

The Customer Connection Point closure has been designed to be used as an external building entry point. The closure can be wall/facade mounted or put in to a buried chamber (located at the property boundary or just outside the point of access) providing an external building entry point and network test point.
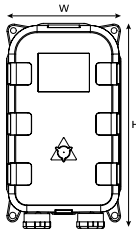
Features and benefits
- 2 x SC Simplex or 1 x LC Duplex Adaptor
- Fibre management for 2 x 3A or 2 x ANT splices
- Integral positive fibre management and fibre storage capacity
- Separate inbound/outbound access points
- Fully detachable snap on lid
- IP68/IK08 Rated

Customer Connection Point

See page 5 for application

Customer Connection Point (top view)   *Customer Connection Point (side view)*

Technical Description

The Customer Connection Point (CCP) supports 2 x SC Simplex or 1 x LC Duplex adaptors. The closure is manufactured from V0 and UV stable black poly carbonate and has a fully detachable snap on lid. The closure has 2 separate cable access points which are sealed with a silicon cable entry kit (cable diameter range 4.6mm - 5.6mm) to maintain the IP68 rating. A gortex breather membrane is fitted to the lid to prevent condensation forming in the base of the closure.

The unit supports 2 x SC Simplex or 1 x LC Duplex adaptor and provides splice management for 2 x 3A or 2 x ANT splices. Internal fibre management features ensure that a 30mm minimum bend radius is maintained within the closure and provides fibre storage capacity for any excess fibre.

TYPE	Height (H)	Width (W)	Depth (D)	Suitable for Cable Ø from/to	Splice Protector Type	Connector Type	Content	Article-No.
CCPA-M11XXX/BK-0	160.0	89.0	28.0	4.6 - 5.6	3A, Crimp (ANT)	-	Cable Entry kit 4.6 - 5.6mm Breather Membrane Laser Label	857-01106
CCPA-M111SP/BK-0	160.0	89.0	28.0	4.6 - 5.6	3A, Crimp (ANT)	SC	1 x SC Simplex PC Adaptor 1 x SC Simplex PC Pigtail Cable Entry kit 4.6 - 5.6mm Breather Membrane Laser Label	857-01107
CCPA-M111TP/BK-0	160.0	89.0	28.0	4.6 - 5.6	3A, Crimp (ANT)	SC-APC	1 x SC Simplex APC Adaptor 1 x SC Simplex APC Pigtail Cable Entry kit 4.6 - 5.6mm Breather Membrane Laser Label	857-01108
CCPA-M111LP/BK-0	160.0	89.0	28.0	4.6 - 5.6	3A, Crimp (ANT)	LC	1 x LC Duplex PC Adaptor 2 x LC Duplex PC Pigtails Cable Entry kit 4.6 - 5.6mm Breather Membrane Laser Label	857-01109
CCPA-M111AP/BK-0	160.0	89.0	28.0	4.6 - 5.6	3A, Crimp (ANT)	LC-APC	1 x LC Duplex APC Adaptor 2 x LC APC Pigtails Cable Entry kit 4.6 - 5.6mm Breather Membrane Laser Label	857-01110

All dimensions in mm. Subject to technical changes.

Fibre Enclosures

Integrated Routing Fibre Enclosures

The ENIR is available with several fibre splice tray or connectorised options determined by the number of fibres required in the network. Designed as a building entry point for a large or small MDU, the connectorised fibre enclosure from HellermannTyton incorporates two separate compartments for the network operator and the user.

Features and benefits
- ENIR-B accommodates 48 LC Duplex or SC Simplex connectors (up to 96 fibres) and connectorisation on user side
- ENIR-A has a maximum 144 fibre splice capacity
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre management system and storage area
- Accommodates both SC-IR and SE-IR trays
- Removable splice tray door aids installation of primary fibre
- ENIR-B has separate network operator/user compartments
- ENIR-A has twist lock compartment

See page 5 for application

Connectorised ENIR (open view)

Integrated Routing ENIR Accessories
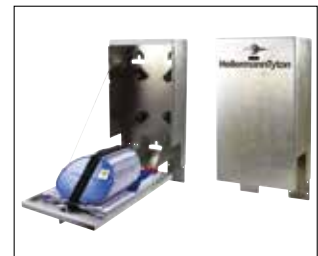
Integrated Routing ENIR (open and closed view)

Technical Description

The Integrated Routing fibre enclosure (ENIR-A) is manufactured from white powder coated mild steel with top and lower cable entry points allowing access for a maximum of 4 cables with a maximum diameter of 20mm (when used with the optional cable bridge clamp). The design of the closure provides support for up to 112 5mm blown fibre tubes when utilising both the top and bottom cable entry points (optional duct manager available). The fibre management system allows the installer to organise and configure the fibre prior to routing it on to the trays (when using the optional Foam Fibre Manager).

The Connectorised ENIR (ENIR-B) has separate network operator and user compartments. The network operator compartment accommodates a maximum of 24 SC-IR or 12 SE-IR trays (or a combination of SC and SE trays) which are fitted on to the removable splice tray door. The separation panel between the compartments allows for the connection of fibre from the network operator compartment to the user compartment using 48 LC Duplex or SC Simplex fibre connectors (up to 96 fibres). The modular design of the trays and fibre optic routing module allow for the trays to be easily clipped in to place. The system allows for easy routing of fibre on to the trays with fibre slot retaining blocks to guide fibre elements into the IR system.
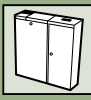
TYPE	Height (H)	Width (W)	Depth (D)	Tray Type	Tray Quantity	Splice Protector Type	Article-No.
ENIR-BCT-24SC	370.0	440.0	120.0	Integrated Routing SC	24	3A	857-00825
ENIR-BCT-12SE	370.0	440.0	120.0	Integrated Routing SE	12	3A	857-00824
ENIR-AXX-24SC	490.0	200.0	120.0	Integrated Routing SC	24	3A	857-00823
ENIR-AXX-12SE	490.0	200.0	120.0	Integrated Routing SE	12	3A	857-00822

All dimensions in mm. Subject to technical changes.

Integrated Routing Fibre Enclosure Accessories

| TYPE	Description	Article-No.
ENIR-RCBM	Basket Manager	857-40328
ENIR-CBC	Cable Clamp	857-40329
ENIR-DM7MM	Duct Manager	857-40326
ENIR-DM5MM	Duct Manager	857-40325
ENIR-FFM	Foam Fibre Manager	857-40327

All dimensions in mm. Subject to technical changes.

Fibre Enclosures

Fibre Distribution Enclosures

The Internal Fibre Distribution Enclosure is used to break out, splice and connect optical fibre cables at the point of entry into a building or to distribute individual fibre circuits to the accommodation/business units on a specific floor or zone within an MDU or MBU. In a small MDU application, this fibre distribution enclosure would be used as a building entry point, with capacity to service up to 18 properties. The Fibre Distribution Enclosure can be supplied as a connectorised solution.

Features and benefits

- Upto 18, 45mm 3A splices on dedicated splice tray
- Connectorised version has maximum number of adaptors 9 x SC Duplex
- 6 cable entry ports
- Separate exit for drop cables
- Hinged fibre storage management tray
- Positive fibre management to ensure 30mm minimum bend radii throughout
- Splitter management area

Fibre Distribution Enclosure - Connectorised

Fibre Distribution Enclosure - Splice

See page 5 for application
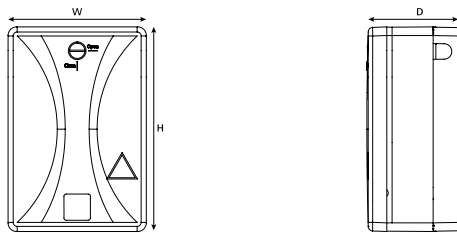
Fibre Distribution Enclosure (front view)   *Fibre Distribution Enclosure (side view)*

Technical Description

The two or three layer Internal Fibre Distribution enclosure is manufactured from white ABS and has 6 cable entry points positioned around the closure base to allow for vertical and horizontal mounting positions thereby enabling the management of mid-span/in-line and cable (butt) end configurations. The base also provides fibre storage capacity.

The hinged splice tray can support up to 18 3A splices (double stacked) and can accommodate passive optical splitters. The three layered connectorised version has an upper tray that has storage capacity for 900µm pigtail cables and fixing points for up to 9 SC duplex adaptors.

The enclosure cover is entirely removable to give clear access to the fibre storage, connector and splice areas and is secured with a twist lock.

TYPE	Height (H)	Width (W)	Depth (D)	Splice Protector Type	Connector Type	Content	Article-No.
FDES-XXXWH	154.0	104.0	34.0	3A	-	Fibre Distribution Enclosure Wall Mounting Kit	857-01076
FDEC-XXXWH	154.0	104.0	69.0	3A	-	Fibre Distribution Enclosure Wall Mounting Kit	857-01075
FDEC-3SX/WH	154.0	104.0	69.0	3A	SC	Fibre Distribution Enclosure 3 SC PC Duplex Adaptors Wall Mounting Kit	857-01083
FDEC-9SP/WH	154.0	104.0	69.0	3A	SC	Fibre Distribution Enclosure 9 SC PC Duplex Adaptors 18 SC PC OS2 1m Pigtails Wall Mounting Kit	857-01101
FDEC-3VX/WH	154.0	104.0	69.0	3A	SC-APC	Fibre Distribution Enclosure 3 SC APC Duplex Adaptors Wall Mounting Kit	857-01096
FDEC-9VP/WH	154.0	104.0	69.0	3A	SC-APC	Fibre Distribution Enclosure 9 SC APC Duplex Adaptors 18 SC APC OS2 1m Pigtails Wall Mounting Kit	857-01084

All dimensions in mm. Subject to technical changes.

Fibre Enclosures

Fibre Wall Outlet

The wall mounted fibre optic outlet allows a fibre optic cable to be connected directly into the end user apartment.

Features and benefits
- Maximum capacity: 2 SC Simplex or LC Duplex adaptors
- Install directly on the wall or onto a flush-mount back box
- Cable entry at the base or through the rear of the unit
- Recessed base for use with adhesive
- Accommodates upto 2 splice protectors (upto 45mm)
- Quality surface finish
- Tamper-proof latches
- Positive fibre management to ensure a 25mm minimum bend radius

Fibre Wall Outlet
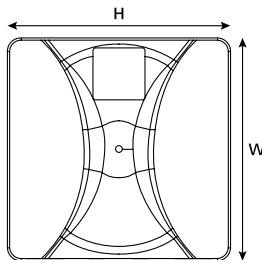
Fibre Wall Outlet (front view)   *Fibre Wall Outlet (side view)*

Technical Description

The Fibre Wall Outlet (FWO) has been designed to be used as an optical telecommunications outlet with a choice of cable access options.

It is a small single socket size enclosure designed for managing 1 or 2 fibres within the property and can be discretely mounted on the wall close to the buiding entry point providing the connection point for a router or active equipment. The closure is manufactured from ABS plastic and tamper proof latches secure the cover to the base. The closure has 2 bottom and 1 rear cable entry point, and two fibre adaptor mounting points (SC simplex or LC duplex).

Fibre management features ensure a minimum bend radius of 25mm is maintained as the bare fibre is routed through the outlet and press fit strain relief features secure the incoming cable whilst cable tie anchor points are provided for additional strain relief.

Screw holes allow for easy installation and positioning, alternatively the recessed base means the closure can be fastened with adhesive, maintaining the outlet flush to the wall.

TYPE	Height (H)	Width (W)	Depth (D)	Connector Type	Content	Article-No.
FWOA-XX-XX/WH	85.0	85.0	16.0	-	Fibre Wall Outlet Wall Mounting Kit	857-40368
FWOA-XX-VX/WH	85.0	85.0	16.0	SC-APC	Fibre Wall Outlet SC APC Simplex Adaptor Wall Mounting Kit	857-01092
FWOA-XX-VP/WH	85.0	85.0	16.0	SC-APC	Fibre Wall Outlet SC APC Simplex Adaptor SC APC Simplex Pigtail Wall Mounting Kit	857-01093
FWOA-VX-VX/WH	85.0	85.0	16.0	SC-APC	Fibre Wall Outlet 2 x SC APC Simplex Adaptor Wall Mounting Kit	857-01094
FWOA-VP-VP/WH	85.0	85.0	16.0	SC-APC	Fibre Wall Outlet 2 x SC APC Simplex Adaptor 2 x SC APC Simplex Pigtail Wall Mounting Kit	857-01095

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