



10.0 Enclosures

10.1 Enclosures

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10.1 Enclosures

Introduction

HellermannTyton manufacture a range of fibre enclosures and wall boxes used for the protection and organisation of fibre optic splices in street cabinets and multi-dwelling unit (MDU) style environments.

The Integrated Routing (IR) fibre enclosures are available in two formats. A dual compartment enclosure with separate lockable carrier and landlord sides designed for use in MDU's and a single twist lock enclosure designed for use in locked street cabinets. The dual compartment enclosure can accommodate a maximum of 48 LC Duplex or SC Simplex connectors (96 fibres). The single enclosure can accommodate up to a maximum of 144 fibre splices.

The CPU (Customer Premises Unit) offers a 2 or 4 cable entry point option and can accommodate up to 24 single fibre splices.

The BFP (Building Flexibility Point) offers top and bottom cable entry points and the closure can accommodate up to 96 single fibre splices and has a fibre storage area for the storage of fibre loops.

Features and Benefits

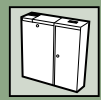
- Fibre storage capacity in all closures
- 48 LC Duplex or SC Simplex connector option offering up to 96 fibre splices (dual compartment IR enclosure)
- Dual lockable compartments with different key options available (dual compartment IR enclosure)
- Accommodates up to a maximum of 144 single fibre splices (single compartment IR enclosure)
- Fibre management system to allow internal fibre organisation to be configured by the installer
- BFP closure fitted with lockable doors.
- All closures fitted with hinged or removable doors/covers to allow for ease of access



IR Connectorised Enclosure (closed view)



ENIR (open view)



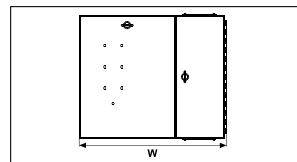
Integrated Routing Connectorised Fibre Enclosure

Features and Benefits

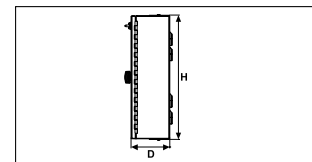
- Accommodates 48 LC Duplex or SC Simplex connectors (up to 96 fibres)
- Connectorisation on user side
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre management system and storage area
- Accommodates both SC-IR and SE-IR trays
- Removable splice tray door aids installation of primary fibre
- Separate lockable network operator/user compartments



IR Connectorised Enclosure (open view)



IR Connectorised Fibre Enclosure (front view)



IR Connectorised Fibre Enclosure (side view)

Technical Description

The Integrated Routing (IR) fibre enclosure 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 enclosure provides support for up to 112 5mm blown fibre tubes when utilising both the top and bottom cable entry points. The fibre management system allows the installer to organise and configure the fibre prior to routing it on to the trays. The enclosure has separate lockable 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. The trays and the 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 into the IR system, the foam pad on the retainer is partially cut through to accommodate a range of fibre counts, and the plug is keyed so that it can only be inserted in one direction.

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 W (mm)	Depth D (mm)	Height H (mm)	Tray Type	Tray Quantity	Splice Protector Type	Article-No.
ENIR-BCT-24SC	440.0	120.0	370.0	IR SC	24	3A	857-00825
ENIR-BCT-12SE	440.0	120.0	370.0	IR SE	12	3A	857-00824

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 176

Content of Set/Kit

- Fibre Management System
- 12 IR-SE or 24 SC-IR Trays
- Fibre Optic Routing Module
- Fibre Optic Storage Unit
- Fibre Optic Storage Unit Lid
- Fibre Slot Entry Module
- Fibre Slot Retaining Block
- Tray Lid
- Keys



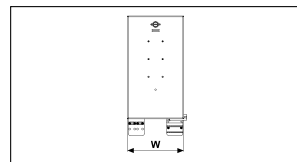
Integrated Routing Fibre Enclosure

Features and Benefits

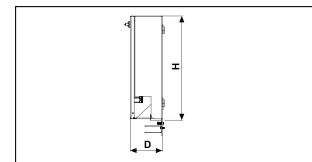
- Maximum 144 fibre splice capacity
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre management system and storage area
- Accommodates both SC-IR and SE-IR trays
- Removable splice tray door aids installation of fibre
- Twist lock compartment



ENIR (open and closed view)



IR Fibre Enclosure (front view)



IR Fibre Enclosure (side view)

Technical Description

The Integrated Routing (IR) fibre enclosure is manufactured from zinc passivated mild steel and stainless steel. The closure has a separate entry and exit point allowing access for a maximum of 4 cables, each with a maximum diameter of 20mm (when used with the optional cable bridge clamp). The design of the closure provides support for up to 56 5mm blown fibre tubes when utilising the bottom cable entry point in conjunction with the IR duct manager and foam fibre manager. The closure compartment accommodates a maximum of 24 SC-IR or 12 SE-IR trays (or a combination of SC and SE trays). The fibre management system allows the installer to organise and configure the fibre prior to routing it on to the trays.

The modular design of the trays and the fibre optic routing module allow for the trays to be easily clipped into place. The system allows for

easy routing of fibre on to the trays. 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 system. The fibre slot retaining blocks guide the fibre elements into the IR system, the foam pad on the retainer is partially cut through to accommodate a range of fibre counts, and the plug is keyed so that it can only be inserted in one direction.

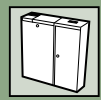
All the IR system cover plates are coloured blue identifying them as removable parts allowing access to the fibre, the fibre slot retaining block and tray retaining clips are coloured red to aid in identification if they are dropped.

TYPE	Width W (mm)	Depth D (mm)	Height H (mm)	Tray Type	Tray Quantity	Splice Protector Type	Article-No.
ENIR-AXX-24SC	200.0	120.0	490.0	IR SC	24	3A	857-00823
ENIR-AXX-12SE	200.0	120.0	490.0	IR SE	12	3A	857-00822

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 176

Content of Set/Kit

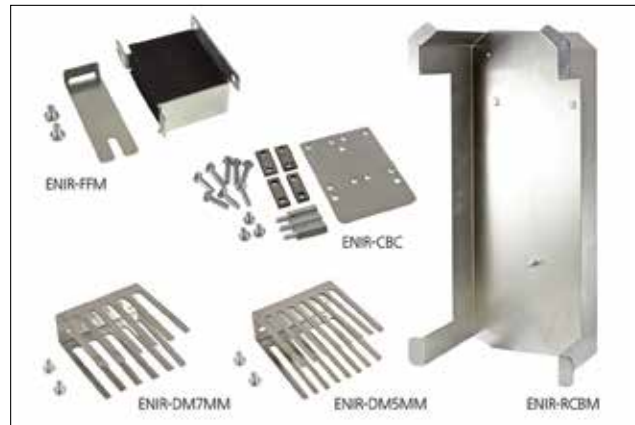
- Fibre Management System
- Fibre Optic Storage Unit
- Fibre Slot Retaining Block
- 12 IR-SE or 24 SC-IR Trays
- Fibre Optic Storage Unit Lid
- Tray Lid
- Fibre Optic Routing Module
- Fibre Slot Entry Module
- Keys



Integrated Routing Fibre Enclosure Accessories

Features and Benefits

- 4 fibre management accessories for IR Fibre Enclosures
- Extend cable capacity and storage
- Simple design, easy to install
- Manufactured from zinc passivated mild steel and/or stainless steel



ENIR Accessories

Technical Description

HellermannTyton supply a range of fibre management accessories for use with the IR fibre enclosures. The rear cable basket manager is a mounting bracket designed for use with the single compartment IR enclosure. The bracket is manufactured from zinc passivated mild steel and has been designed to provide additional cable storage space in addition to allowing the enclosure to be quickly and easily mounted or dismantled from the street cabinet or wall.

The cable bridge clamp and fittings are manufactured from zinc passivated mild steel and stainless steel providing an effective method of extending the capacity of the IR enclosures. The design allows the cable capacity of the IR enclosure to be extended from 2 cables to 4 cables (single compartment enclosure) and 4 cables to 8 cables (double compartment enclosure) with each cable having a maximum diameter

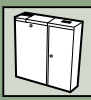
of 20mm.

The foam fibre manager is manufactured from zinc passivated mild steel and has been designed to be used in conjunction with the duct managers. The dense foam pad fitted on to the retainer is partially cut through to accommodate a range of fibre counts securing the fibres in place, the foam pad can be sized to accommodate a range of different cable dimensions.

The duct managers are manufactured from stainless steel and have been designed to provide a simple solution to blown fibre duct management within the IR Enclosures. The duct manager can be fitted on to the outgoing side of the enclosure and is used to secure and manage blown fibre ducts with a diameter of either 5mm or 7mm.

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

All dimensions in mm. Subject to technical changes.



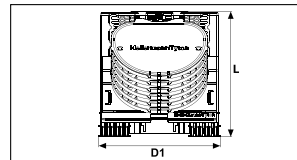
Integrated Routing Module

Features and Benefits

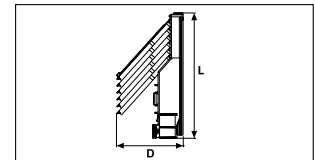
- Maximum 432 fibre splice capacity
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre storage area
- Bi-directional fibre routing
- Accommodates both SC-IR and SE-IR trays
- Modular design allows for easy addition of trays
- Splitter accommodation
- System supplied unloaded (without trays) to allow for customisation and future expansion



Integrated Routing Module



Integrated Routing Module (front view)



Integrated Routing Module (side view)

Technical Description

The Integrated Routing Module has been designed for mounting in cabinets and wall boxes. The system is available in six different lengths, the longest of which can accommodate 72 SC-IR and 36 SE-IR trays (not included). The modular design of the system allows for additional trays to be easily clipped in to place with dedicated locations for the SE-IR or SC-IR trays (or a combination of SE and SC trays). The system allows for easy routing of fibre in to the trays and the fibre storage unit has a large capacity to allow for the storage of spare fibre.

The fibre optic routing modules are white which makes it easy to see the colour of the fibre elements as they are routed through the positive

fibre management system.

The fibre slot retaining block guides fibre elements into the IR system, the foam pad retainer is partially cut through to accommodate a range of fibre counts.

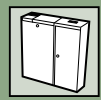
All IR System cover plates are coloured blue identifying them as removable parts to access the fibre and the fibre slot retaining block and tray retaining clips are coloured red to aid in identification if they are dropped.

TYPE	Width D1 (mm)	Depth D (mm)	Length L (mm)	Tray Quantity	Splice Capacity	Article-No.
HTIR-06-XX	186	120.0	187	6(SE) or 12(SC)	72(SE) or 48(SC)	857-00595
HTIR-12-XX	186	120.0	250	12(SE) or 24(SC)	144(SE) or 96(SC)	857-00596
HTIR-18-XX	186	120.0	313	18(SE) or 36(SC)	216(SE) or 144(SC)	857-00597
HTIR-24-XX	186	120.0	376	24(SE) or 48(SC)	288(SE) or 192(SC)	857-00598
HTIR-30-XX	186	120.0	439	30(SE) or 60(SC)	360(SE) or 240(SC)	857-00599
HTIR-36-XX	186	120.0	502	36(SE) or 72(SC)	432(SE) or 288(SC)	857-00600

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 176

Content of Set/Kit

- Fibre Optic Routing Module
- Fibre Optic Storage Unit Lid
- Fibre Slot Retaining Block
- Fibre Optic Storage Unit
- Fibre Slot Entry Module
- Form Tray Lid



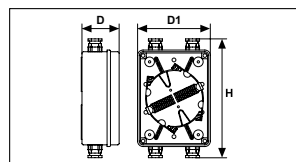
CPU - Customer Premise Unit

Features and Benefits

- Maximum splice capacity of 24 fibres
- 2 or 4 cable entry point options available
- 2 piece box allows easy access to fibre
- Cable loop storage capacity
- IP56 rated



Customer Premise Unit



Customer Premise Unit

Technical Description

The Customer Premise Unit has been designed for the organisation and protection of fibre optic splices in internal and sheltered environments. The 2 piece ABS box is available with either 2 or 4 cable entry points with a total of 4 entry points and cable gland size options to choose

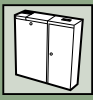
from. Each box is fitted with a single Hellafos splice tray which is mounted on a cable loop storage spool and can achieve a maximum 24 fibre splice capacity when using a 3A heatsrink splice protector.

TYPE	Height H (mm)	Width D1 (mm)	Depth D (mm)	Number of Cable Entries	Position of Cable Entries	Type of Gland	Cable Ø min	Cable Ø max	Article-No.
CPU3865	195.0	145	80.0	2	1 on each side	PG16, PG9	4	14	857-00352
CPU3862	195.0	145	80.0	2	2 on same side	PG16	10	14	857-00349
CPU3864	195.0	145	80.0	4	2 on each side	PG9, PG16	4	14	857-00351
CPU3863	195.0	145	80.0	4	2 on each side	PG16, PG11	4	14	857-00350

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 176

Content of Set/Kit

- Customer Premise Unit Box
- Hellafos Tray
- Cable Loop Storage Spool
- Cable Glands
- Transport Tubing
- Markers
 - Green 1 - 12
 - Red 1 - 12



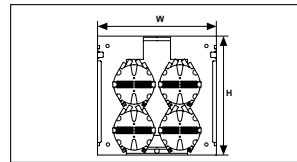
BFP - Building Flexibility Point

Features and Benefits

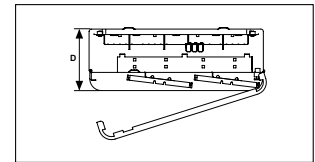
- Maximum 96 fibre splice capacity
- Cable entry points at the top and bottom
- Lockable side hinged door
- Cable strength member anchor points
- Fibre storage area



Building Flexibility Point



Building Flexibility Point (front view)



Building Flexibility Point (side view)

Technical Description

The Building Flexibility Point (BFP) box is manufactured from epoxy coated steel and is designed for the protection of fibre optic cable splices within internal environments. It contains 4 Hellafos splice trays which are mounted on the single hinged splice tray mounting plate. Each of the trays can achieve a maximum 24 splice capacity when using 3A heatshrink splices. The box is fitted with a lockable single hinged

door, a back plate with cable strength member anchor points and the fibre storage area is positioned behind the hinged splice tray mounting plate.

A range of glands and bulkhead plates for cable entry are detailed below and must be ordered separately.

TYPE	Height H (mm)	Width D1 (mm)	Depth D (mm)	Description	Cable Ø min	Cable Ø max	Article-No.
BFP1022C	-	-	-	Blanking plate	-	-	857-00012
BFP3643	-	-	-	M25 x 2, M25 Blanking Plug x 2	13	20.2	857-00018
BFP1024	-	-	-	PG16 x 2, PG16 Blanking Plug x 2	10	14	857-00013
BFP1019C	350.0	350	128.0	Building Flexibility Point Wall Box	-	-	857-00009

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 176

Content of Set/Kit

- Building Flexibility Point Box
- Hellafos Trays (4)
- Transportation Tubing
- Tubefix - Tube to tray securing blocks
- Isopropyl Alcohol Wipes
- Marker Kit
- Red Marker 1 - 48
- Green Marker 1 - 48