



## 4.0 FRBU Closures

### 4.1 FRBU Closures

#### 11 Port Base

B Length	108
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A Length	109
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#### 9 Port Base

B Length	110
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A Length	111
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## 4.1 FRBU Closures

### Introduction

The FRBU is a compact cap-ended ready access fibre optic splice closure for use in underground, direct burial and aerial installations.

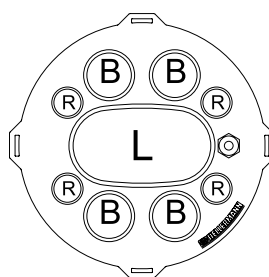
The mid-range capacity and port flexibility offered by the FRBU make it suitable for FTTK, trunk networks and CATV installation. There are 2 base configurations available with the FRBU, a 9 Port or 11 Port base, which offer 8 or 10 round ports and 1 oval port for loop through applications.

The closure cover, which can be fitted with a flash test valve and/or grounding feed-through, is available in 2 lengths depending on the number, type and configuration of the tray selected.

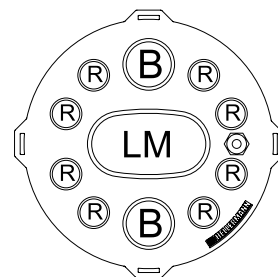
The FRBU is environmentally sealed to the base using an 'O' ring and quick release clamp and can be fitted with a pressure release valve. For flash test valve and/or grounding feed-through options please contact our sales office. The cable entry/exit points in the base are environmentally sealed using either Cablelok mechanical seals or heatshrink sleeves.

#### Features and Benefits

- Ideal for FTTK network, trunk applications and CCTV installation
- 2 base configurations offering 8 or 10 round port and 1 oval port (for loop through cable)
- Suitable for blown fibre/cable applications
- Accommodates up to 6 Hellapon Medium or Hellapon Small trays
- Trays configured in a stacked or side hinged format
- Available in 2 different lengths
- Fibre Loop Storage Basket available with Hellapon Medium Side Hinged 3 tray option
- Cablelok compatible for all port sizes
- Flash test release valve and feed-through options
- Quick release cover clamp
- For use in underground, direct burial and aerial applications
- Wall mounting bracket (see Chapter 13 - Accessories)



FRBU 9 Port Base Configuration



FRBU 11 Port Base Configuration

Port	Number of Ports	Cable Range (mm)	
		Cablelok	Heatshrink
L	1	2 x 5.5 – 20.0	2 x 12.0 – 24.0
LM	1	2 x 4.0 – 15.0	2 x 8.0 – 22.0
B	2 or 4	4.8 – 16.5	6.0 – 19.0
R	4 or 8	1.7 – 9.5	4.0 – 11.0

HellermannTyton closures with a tubing fibre management system are supplied in standard configurations, with fibre management and splice trays included, ready to use.

Port seals (Cablelok and heatshrink) and accessories (e.g. mounting brackets) must be ordered separately. HellermannTyton also offer a range of additional splice options including Crimp / ANT. For further details refer to Chapter 12.

Splice Type	Cover Reference	Closure Width (mm) D1 x D2	Closure Length (mm) L	Hellapon					
				Medium Side Hinged		Medium Stacked		Small	
				Single Tray Quantity	Max Splice Capacity	Single Tray Quantity	Max Splice Capacity	Single Tray Quantity	Max Splice Capacity
3A	A	130 X 130	435	-	-	6(6) ‡	72/144**	6(6)	72
	B		505	6(6)	72/144	-	-	-	-
ANT	A	130 X 130	435	-	-	6(6)	72/144	6(6)	144
	B		505	6(6)	72/144	-	-	-	-

\*\* Hellapon Medium Style C splice capacity achieved when double stacking on a tray. ‡ (tray pack ordering multiple).

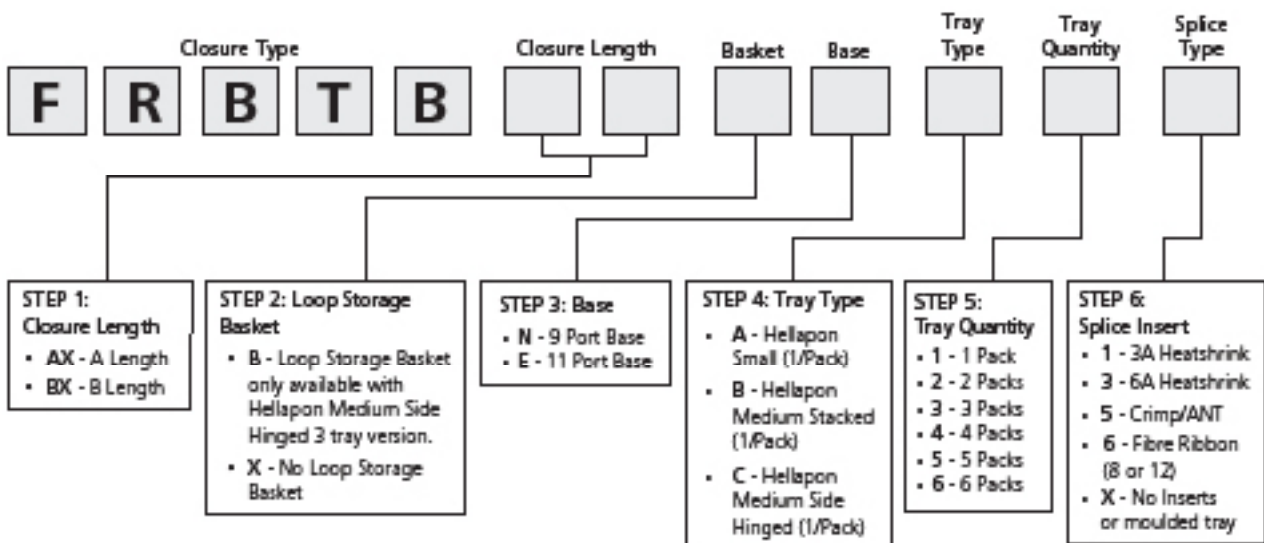
## Part Number Identification

Identifying the correct part number is a simple process:

- STEP 1** Choose the appropriate closure length.
- STEP 2** Decide if a loop storage basket is required - loop basket is only available with Hellapon Medium side hinged 3 tray option.
- STEP 3** Select base type; 9 port and 11 port options available.
- STEP 4** Select tray type. Hellapon Medium - 12/24\* x 3A splices, Hellapon Small - 12 x 3A splices.
- STEP 5** Select tray quantity. Closures shown in the catalogue are supplied with the maximum number of trays chosen for the closure length.
- STEP 6** Select splice insert type.

For additional information on tray types, splice protectors and splice capacity please refer to Chapter 12.

\* 24 splice capacity achieved when double stacking on a tray.





## FRBU 11 Port

### B Length

#### Features and Benefits

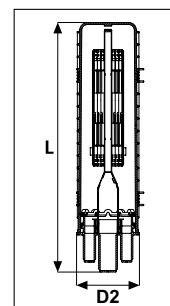
- Maximum 144 fibre splice capacity
- 10 round ports and 1 oval port
- Fibre storage basket for loop through applications (Hellapon Medium side hinged 3 tray version only)
- Accommodates Hellapon Medium side hinged trays
- Maximum 24 splices per tray (double stacked)
- Splitter accommodation
- Cablelok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



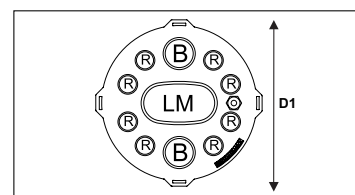
FRBU B-Length 11 Port Closure  
with 6 Medium Hellapon Trays



FRBU B-Length  
Closure Cover



FRBU B-Length with  
Hinged Trays



FRBU 11 Port Base Configuration

#### Technical Description

The FRBU 11 Port B Length closure is supplied with a Polypropylene base. The base configuration of 10 round ports and 1 oval port covers a cable diameter range of 1.7 – 16.5.0mm when using Cablelok mechanical seals and 6.0 – 22.0mm 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 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.

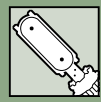
The trays are white which makes it easy to see the colour of the fibre elements as they are routed through the fibre management system and on to the trays.

TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Base Type	Tray Type	Tray Quantity	Splice Protector Type	Basket Size	Article-No.
FRBTB-BXXEC2X	130	130	505	Cablelok, Heatshrink	Hellapon Medium	2	3A	-	857-00624
FRBTB-BXBEC3X	130	130	505	Cablelok, Heatshrink	Hellapon Medium	3	3A	Medium	857-00627
FRBTB-BXXEC4X	130	130	505	Cablelok, Heatshrink	Hellapon Medium	4	3A	-	857-00625
FRBTB-BXXEC6X	130	130	505	Cablelok, Heatshrink	Hellapon Medium	6	3A	-	857-00626

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

#### Content of Set/Kit

- FRBU 11 Port Base
- B-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Storage Basket (3 tray version only)
- Tray Support Frame
- Anchor Fixing Kit (2)
- Tray Tool
- Transportation Tubing
- Hook and Loop Management Ties
- Cable Ties
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide
- Marker Kit
  - Red Marker 1 - 12
  - Green Marker 1 - 12



### FRBU 11 Port

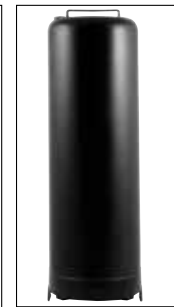
#### A Length

#### Features and Benefits

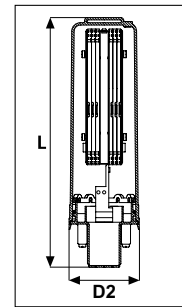
- Maximum 144 fibre splice capacity
- 10 round ports and 1 oval port
- Accommodates Hellapon Medium stacked or Hellapon Small trays
- Maximum 24 splices per tray (double stacked)
- Splitter accommodation
- Cablelok compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



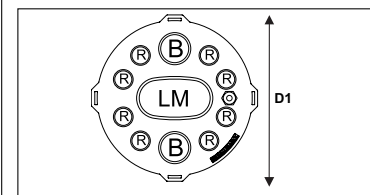
FRBU A-Length 11 Port Closure with 6 Medium Hellapon Trays



A-Length Closure Cover



FRBU A-Length with Hellapon Trays



FRBU 11 Port Base Configuration

#### Technical Description

The FRBU 11 Port A Length closure is supplied with a Polypropylene base. The base configuration of 10 round ports and 1 oval port covers a cable diameter range of 1.7 – 16.5mm when using Cablelok mechanical seals and 6.0 – 22.0mm when using heatshrink.

The mounting system is manufactured from Grade 304 stainless steel and can accommodate a maximum of 6 Hellapon Medium stacked or 6 Hellapon Small trays giving a maximum of 144 fibre splices based on 24

fibres per tray.

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)	Base Type	Tray Type	Tray Quantity	Splice Protector Type	Article-No.
FRBTB-AXXEB2X	130	130	435	Cablelok, Heatshrink	Hellapon Medium	2	3A	857-00620
FRBTB-AXXEB4X	130	130	435	Cablelok, Heatshrink	Hellapon Medium	4	3A	857-00621
FRBTB-AXXEB6X	130	130	435	Cablelok, Heatshrink	Hellapon Medium	6	3A	857-00622
FRBTB-AXXEA61	130	130	435	Cablelok, Heatshrink	Hellapon Small	6	3A	857-00623

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

#### Content of Set/Kit

- FRBU 11 Port Base
- A-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Tray Support Frame
- Anchor Fixing Kit (2)
- Tray Tool
- Transportation Tubing
- Hook and Loop Management Ties
- Cable Ties
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide
- Marker Kit
  - Red Marker 1 - 12
  - Green Marker 1 - 12



## FRBU 9 Port

### B Length

#### Features and Benefits

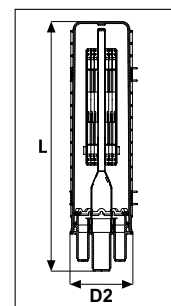
- Maximum 144 fibre splice capacity
- 8 round ports and 1 oval port
- Fibre storage basket for loop through applications (Hellapon Medium side hinged 3 tray version only)
- Accommodates Hellapon Medium side hinged trays
- Maximum 24 splices per tray (double stacked)
- Splitter accommodation
- Cablelok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



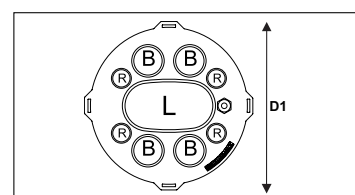
FRBU B-Length 9 Port Closure  
with 6 Medium Hellapon Trays



FRBU B-Length  
Closure Cover



FRBU B-Length with  
Hinged Trays



FRBU 9 Port Base Configuration

#### Technical Description

The FRBU 9 Port B Length closure is supplied with a Polypropylene base. The base configuration of 8 round ports and 1 oval port covers a cable diameter range 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 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.

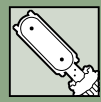
The trays are white which makes it easy to see the colour of the fibre elements as they are routed through the fibre management system and on to the trays.

TYPE	Width D1 (mm)	Width D2 (mm)	Length L (mm)	Base Type	Tray Type	Tray Quantity	Splice Protector Type	Basket Size	Article-No.
FRBTB-BXXNC2X	130	130	505	Cablelok, Heatshrink	Hellapon Medium	2	3A	-	857-00632
FRBTB-BXBNC3X	130	130	505	Cablelok, Heatshrink	Hellapon Medium	3	3A	Medium	857-00635
FRBTB-BXXNC4X	130	130	505	Cablelok, Heatshrink	Hellapon Medium	4	3A	-	857-00633
FRBTB-BXXNC6X	130	130	505	Cablelok, Heatshrink	Hellapon Medium	6	3A	-	857-00634

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

#### Content of Set/Kit

- FRBU 9 Port Base
- B-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Storage Basket (3 tray version only)
- Tray Support Frame
- Anchor Fixing Kit (2)
- Tray Tool
- Transportation Tubing
- Hook and Loop Management Ties
- Cable Ties
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide
- Marker Kit
  - Red Marker 1 - 12
  - Green Marker 1 - 12



### FRBU 9 Port

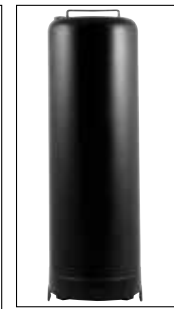
#### A Length

#### Features and Benefits

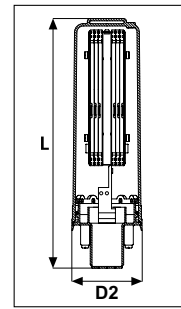
- Maximum 144 fibre splice capacity
- 8 round ports and 1 oval port
- Accommodates Hellapon Medium stacked or Hellapon Small trays
- Maximum 24 splices per tray (double stacked)
- Splitter accommodation
- Cablelok compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



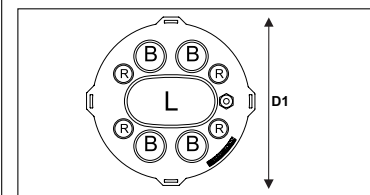
FRBU A-Length 9 Port Closure  
with 6 Medium Hellapon Trays



A-Length Closure  
Cover



FRBU A-Length with  
Hellapon Trays



FRBU 9 Port Base Configuration

#### Technical Description

The FRBU 9 Port A Length closure is supplied with a Polypropylene base. The base configuration of 8 round ports and 1 oval port covers a cable diameter range 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 stacked or 6 Hellapon Small trays giving a maximum of 144 fibre splices based on 24

fibres per tray.

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)	Base Type	Tray Type	Tray Quantity	Splice Protector Type	Article-No.
FRBTB-AXXNB2X	130	130	435	Cablelok, Heatshrink	Hellapon Medium	2	3A	857-00628
FRBTB-AXXNB4X	130	130	435	Cablelok, Heatshrink	Hellapon Medium	4	3A	857-00629
FRBTB-AXXNB6X	130	130	435	Cablelok, Heatshrink	Hellapon Medium	6	3A	857-00630
FRBTB-AXXNA61	130	130	435	Cablelok, Heatshrink	Hellapon Small	6	3A	857-00631

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

#### Content of Set/Kit

- FRBU 9 Port Base
- A-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Tray Support Frame
- Anchor Fixing Kit (2)
- Tray Tool
- Transportation Tubing
- Hook and Loop Management Ties
- Cable Ties
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide
- Marker Kit
  - Red Marker 1 - 12
  - Green Marker 1 - 12



## Cablelok - 100% Mechanical Seal



 Cablelok™ - 2 mins  
 Heatshrink - 20 mins

Tested to in excess of 6m head of water, **HellermannTyton's patented Cablelok** mechanical seal, does not rely on the skill and experience of the engineer to achieve the required seal, whilst installation times are typically reduced by up to 90%.

### Features and Benefits

- Rapid installation with no specialist tools required
- Highly repeatable – the quality of the seal is not dependent on the skill of the engineer
- Ideal for use in hazardous or restricted areas as no heat or gas is required for installation
- Dual outlet versions for loop through applications
- Multi-hole versions are available allowing up to five cable drops from the same port
- Proven technology in the field



Find out more at  
[htdata.co.uk](http://htdata.co.uk)

