

## FRBU Closures

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 Introduction


The FRBU is a compact cap-ended ready access 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.

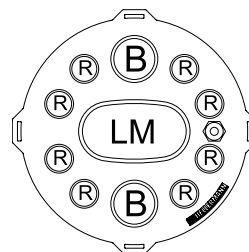
The closure cover, which can be fitted with a flash test valve and/or grounding feed-through, is available in 2 lengths depending on the number, types of tray selected and configuration of the trays. It is environmentally sealed to the base using an 'O' ring and quick release clamp and can be fitted 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.

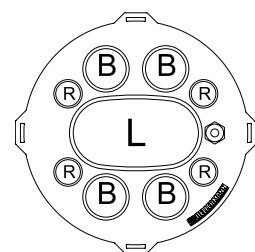
### Features and Benefits

- Ideal for FTTK network, trunk applications and CCTV installation
- 2 base configurations offering 8 or 10 round ports 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
- Fibre Loop Storage Basket available with Hellapon Medium Side Hinged 3 tray option
- Available in 2 different lengths
- Cablelok compatible for all port sizes
- Flash test release valve and feed-through options
- Quick release cover clamp
- Accessory wall mounting bracket
- For use in underground, direct burial and aerial applications

Port	Number of Ports	Cable Range (mm)	
		Cablelok	Heatshrink
L	1	2 x 5.5 – 20.0	2 x 10.0 – 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



FRBU 11 Port Base Configuration



FRBU 9 Port Base Configuration



Cover Reference	Closure Width (mm) D1	Closure Length (mm) L	Hellapon					
			Medium Side Hinged		Medium Stacked		Small	
			Single Tray	Max Splice Capacity	Single Tray	Max Splice Capacity	Single Tray	Max Splice Capacity
A	130	435	-	-	*6(6)	72	6(6)	72
B	130	505	6(6)	72	-	-	-	-

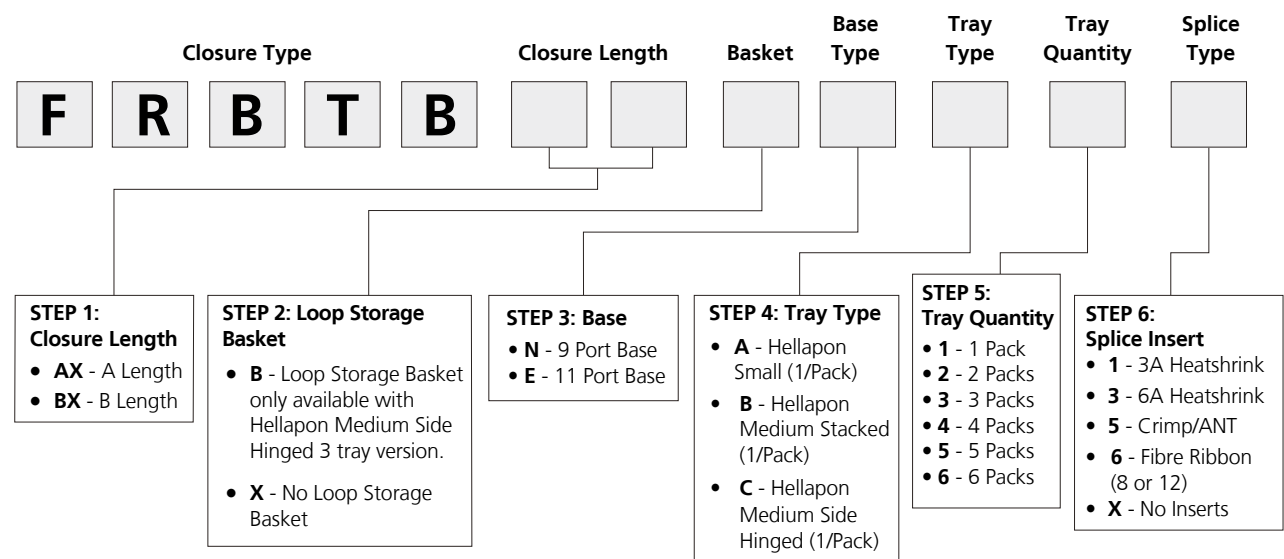
\*Single tray count (tray pack/ordering multiple) Hellapon Medium – 16 splices per tray (12 recommended), Hellapon Small – 12 splices per tray

HellermannTyton closures with tubing fibre management system are supplied in standard configurations, with fibre management and splice trays included, ready to use. If a standard configuration is not suitable, the closures can be supplied with no splice trays which can then be ordered separately. Port seals (Cablelok and heatshrink) and accessories (e.g. mounting brackets) must be ordered separately.

## Part Number Identification

Identifying the correct part number is a simple process:

- STEP 1:** Choose the appropriate closure length and port requirement.
- STEP 2:** Decide if a loop storage basket is required – loop storage basket only available with Hellapon Medium Side Hinged 3 Tray option.
- STEP 3:** Select base type; 9 Port and 11 Port options available
- STEP 4:** Are Hellapon Medium Side Hinged (B Length Closure only), Stacked or Small trays required? The closure will be supplied with the maximum number of trays chosen for the closure length (as shown in the catalogue). Hellapon Medium Side Hinged and Stacked have a moulded 3A heatshrink splice protector holder (16 splice capacity) and Hellapon Small trays are supplied with 2 x 3A heatshrink splice protector bridges (12 splice capacity). If the closure is required with less than the maximum number of trays or alternative splice protectors are to be used, then an unloaded closure should be ordered with separate splice trays. Please refer to Chapter 12 for additional tray packs and splice types
- STEP 5:** Select any additional accessories.
- STEP 6:** Select any additional accessories.

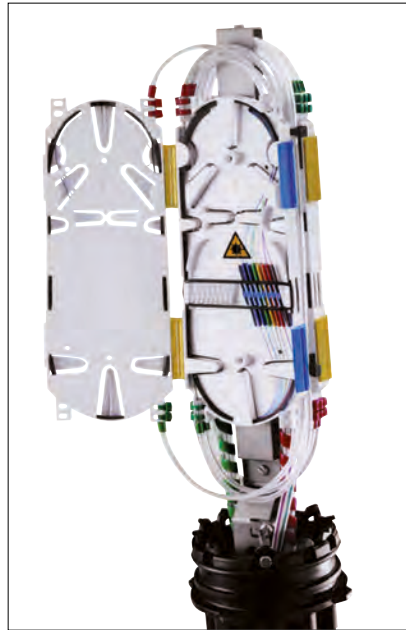




## FRBU 11 Port B Length Closure

### Features and Benefits

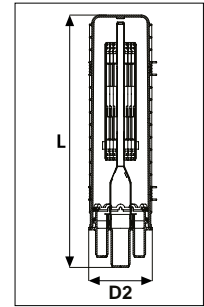
- Maximum 72 fibre splice capacity
- 10 round ports and 1 oval port
- Fibre storage basket for loop through applications (Hellapon medium side hinged 3 tray version only)
- Accommodates Hellapon medium side hinged trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



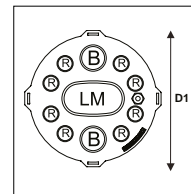
FRBU B-Length Closure with side-hinged Medium Hellapon Trays



FRBU B-Length Closure Cover



FRBU B-Length with Hinged Trays



11 Port FRBU Base

### 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 – 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 72 fibre splices based on 12 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 in 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 into the trays.

### Technical Data Table

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

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141

### 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
- Marker Kit
  - Red Marker 1 – 12
  - Green Marker 1 – 12
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



## FRBU 11 Port A Length Closure

### Features and Benefits

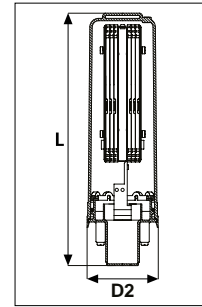
- Maximum 72 fibre splice capacity
- 10 round ports and 1 oval port
- Accommodates Hellapon medium stacked or Hellapon small trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



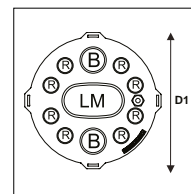
FRBU A-Length 11 Port Closure with Medium Hellapon Trays



A-Length Closure Cover



FRBU A-Length with Hellapon Trays



11 Port FRBU Base

### 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 – 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 72 fibre splices based on 12 fibres per tray.

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

### Technical Data Table

Article-No.	Type	Dimensions			Base Type	Tray Type	Tray Quantity	Splice Protector Type
		Width D1 (mm)	Width D2 (mm)	Length L (mm)				
857-00623	FRBTB-AXXE61	130	130	435	Cablelok™, Heatshrink	Hellapon Small	6	3A
857-00620	FRBTB-AXXE2X	130	130	435	Cablelok™, Heatshrink	Hellapon Medium	2	3A
857-00621	FRBTB-AXXE4X	130	130	435	Cablelok™, Heatshrink	Hellapon Medium	4	3A
857-00622	FRBTB-AXXE6X	130	130	435	Cablelok™, Heatshrink	Hellapon Medium	6	3A

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141

### Content of Set/Kit

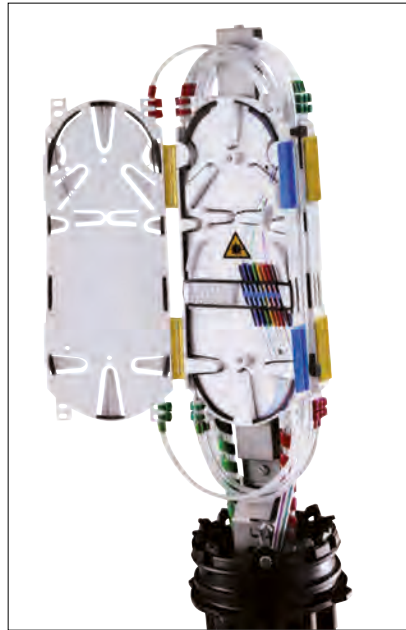
- FRBU 11 Port Base
- A-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Tray Support Frame
- Anchor Fixing Kit (2)
- Tray Tool
- Transportation Tubing
- Hook and Loop Management Ties
- Cable Ties
- Marker Kit
  - Red Marker 1 – 12
  - Green Marker 1 – 12
- Isopropyl Alcohol Wipes
- Desiccant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



## FRBU 9 Port B Length Closure

### Features and Benefits

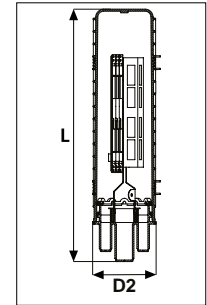
- Maximum 72 fibre splice capacity
- 8 round ports and 1 oval port
- Fibre storage basket for loop through applications (Hellapon medium side hinged 3 tray version only)
- Accommodates Hellapon medium side hinged trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



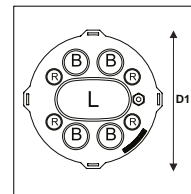
FRBU B-Length Closure with side-hinged Medium Hellapon Trays



FRBU B-Length Closure Cover



FRBU B-Length with Basket



9 Port FRBU Base

### 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 4.0 – 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 72 fibre splices based on 12 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 in 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 into the trays.

### Technical Data Table

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

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141

### 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
- Marker Kit
  - Red Marker 1 – 12
  - Green Marker 1 – 12
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



## FRBU 9 Port A Length Closure

### Features and Benefits

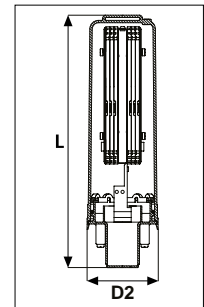
- Maximum 72 fibre splice capacity
- 8 round ports and 1 oval port
- Accommodates Hellapon medium stacked or Hellapon small trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



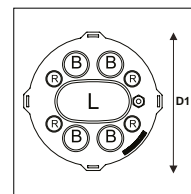
FRBU A-Length 9 Port Closure with Medium Hellapon Trays



A-Length Closure Cover



FRBU A-Length with Hellapon Trays



9 Port FRBU Base

### 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 4.0 – 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 72 fibre splices based on 12 fibres per tray.

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

### Technical Data Table

Article-No.	Type	Dimensions			Base Type	Tray Type	Tray Quantity	Splice Protector Type
		Width D1 (mm)	Width D2 (mm)	Length L (mm)				
857-00631	FRBTB-AXXNA61	130	130	435	Cablelok™, Heatshrink	Hellapon Small	6	3A
857-00628	FRBTB-AXXNB2X	130	130	435	Cablelok™, Heatshrink	Hellapon Medium	2	3A
857-00629	FRBTB-AXXNB4X	130	130	435	Cablelok™, Heatshrink	Hellapon Medium	4	3A
857-00630	FRBTB-AXXNB6X	130	130	435	Cablelok™, Heatshrink	Hellapon Medium	6	3A

Products listed are for standard configurations, other configurations and splice insert types are available - see Page 141

### 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
- Marker Kit
  - Red Marker 1 – 12
  - Green Marker 1 – 12
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



# RapidNet Distribution Chassis



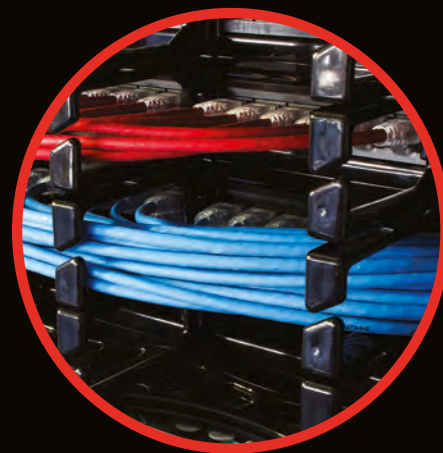
High density fibre with RapidNet MTP VHD



Tabbed connectors for easy installation

## Features and Benefits

- Fits into standard 19" racks and cabinets
- 4U of vertical space can accommodate up to 16 RapidNet cassettes
- Can accommodate up to 2,304 fibres per chassis or 96 copper ports
- High quality look and finish enhances the presentation of the patching area
- Hinged front and rear doors offer protection for cable to both the front (patching) and rear (backbone/trunk) of the panel
- Class leading port labelling and identification both front and rear



Front cable management

