

FML Closures

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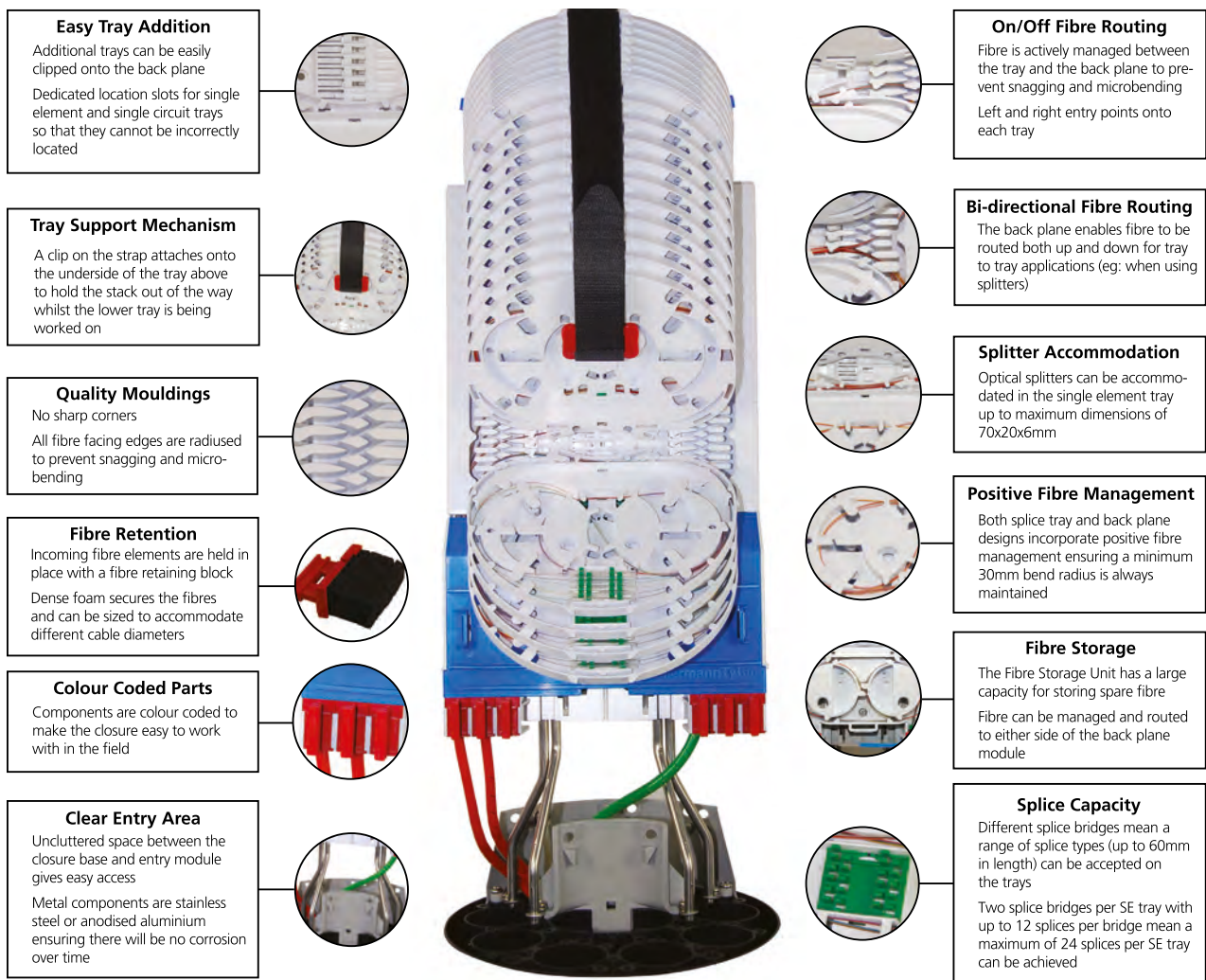


Introduction

The FML is a medium to large cap ended ready access closure for use in underground, direct burial or aerial installations. It is available with Integrated Routing (IR) or tubing fibre management systems. The mid-range capacity and port flexibility offered by the FML make it suitable for FTTX access and trunk networks.

The single base configuration available with the FML features 12 round cable ports and an oval port for loop through applications.

The cover is available in 3 different lengths depending on the number and type of trays selected, and can be fitted with a pressure release valve. The cover is environmentally sealed to the base using an 'O' ring and quick release clamp whilst the cables are sealed either using Cablelok mechanical seal or heatshrink.

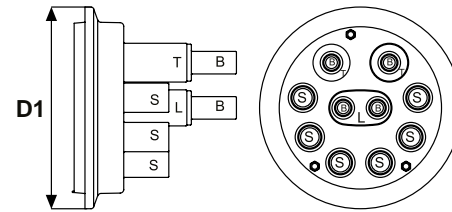


Features and Benefits

- Ideal for FTTX network and trunk applications
- 12 round ports and 1 oval port (for loop through cable)
- Suitable for blown fibre/cable applications
- Accommodates up to 30 single element or 60 single circuit trays or a combination of both
- Can be configured with a fibre loop storage basket for loop through applications
- Available in 3 different lengths
- Cablelok ready
- Quick release cover clamp
- Optional pressure release valve
- Accessory wall mounting bracket and stainless steel wall mounting strap kits available
- 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
T	2	15.5 – 29.0	8.0 – 35.0
S	6	5.0 – 20.0	12.0 – 26.0
B	4	4.8 – 16.5	6.0 – 19.0



FML Port Base Configuration

Cover Reference	Closure Width (mm) D1 x D2	Closure Length (mm) L	Single Element (SE) Tray		Single Circuit (SC) Tray		
			Single Tray	Max Splice Capacity	Single Tray	Max Splice Capacity	
						SC	SC-B
B	220 X 275	598	*18(3)	216	36(3)	144	432
BC	220 X 275	668	24(4)	288	48(4)	192	576
C	220 X 275	748	30(5)	360	60(5)	240	720

*Single tray count (tray pack/ordering multiple) SE – 12 standard splices per tray
 SC – 4 standard splices per tray
 SC-B – 12 standard splices per tray

HellermannTyton closures with Integrated Routing 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:

STEP 2:

STEP 3:

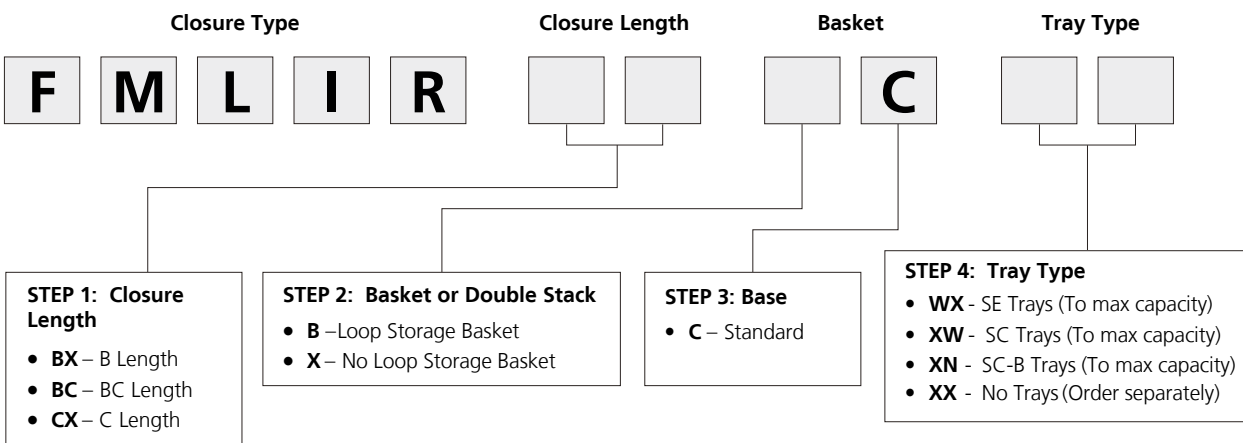
STEP 4:

Choose the appropriate closure length.

Decide if a loop storage basket is required or a double splice tray stack.

Decide if you require a Cablelok or heatshrink base.

Are single element (SE) or single circuit (SC) trays required? The closure will be supplied with the maximum number of trays chosen for the closure length (as shown in the catalogue). SE trays are supplied with 2 x 3A splice bridges (12 splice capacity). SC trays accommodate up to 12 x 3A splice protectors. If a combination of SE and SC trays is needed, less than the maximum is required 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 types of trays and splice protectors.





FML Integrated Routing C Length with Basket

Features and Benefits

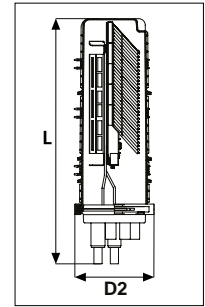
- Maximum 360 fibre splice capacity
- 12 round ports and 1 oval port
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre storage basket for loop through applications
- Bi-directional fibre routing
- Accommodates both SC and SE trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ ready
- Quick release cover
- Optional pressure release valve



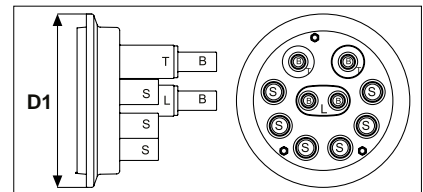
FML IR C-Length Closure with Basket



FML C-Length Closure Cover



FML IR C-Length Closure with Basket



FML Base Port Configuration

Technical Description

The FML Integrated Routing (IR) C Length closure with basket is available Cablelok ready. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 – 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 30 IR SE trays or 60 IR SC trays or a combination of SE and SC trays. The position of the mounting system allows easy access for the routing of the fibre into 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.

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)				
857-00581	FMLIR-CXBCWX	220	275	748	Cablelok™, Heatshrink	IR SE	30	3A
857-00582	FMLIR-CXBCXW	220	275	748	Cablelok™, Heatshrink	IR SC	60	3A
857-00580	FMLIR-CXBCXX	220	275	748	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

- FML IR Base
- Anchor Plates/Bracket
- C-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Storage Basket
- Fibre Optic Routing Module
- Fibre Optic Storage Unit
- Fibre Optic Storage Unit Lid
- Fibre Slot Entry Module
- Fibre Slot Retaining Block
- Reuseable Cable Ties
- Tray Lid
- Tray Tool
- Anchor Fixing Kit (3)
- Spiral Binding
- Marker Kit
 - Red Marker 1 - 48
 - Green Marker 1 - 48
 - White Marker 1 - 33
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



FML Integrated Routing C Length without Basket

Features and Benefits

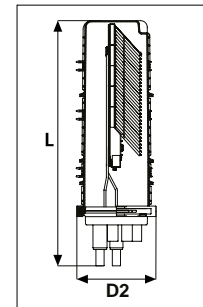
- Maximum 360 fibre splice capacity
- 12 round ports and 1 oval port
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Bi-directional fibre routing
- Accommodates both SC and SE trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ ready
- Quick release cover
- Optional pressure release valve



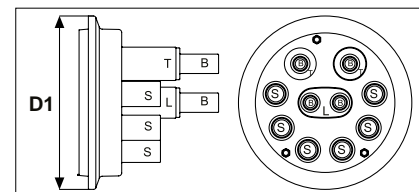
FML IR C-Length Closure without Basket



FML C-Length Closure Cover



FML IR C-Length Closure without Basket



FML Base Port Configuration

Technical Description

The FML Integrated Routing (IR) C Length closure is available Cablelok ready. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 - 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 30 IR SE trays or 60 IR SC trays or a combination of SE and SC trays. The position of the mounting system allows easy access for the routing of the fibre into 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 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.

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)				
857-00578	FMLIR-CXXCWX	220	275	748	Cablelok™, Heatshrink	IR SE	30	3A
857-00579	FMLIR-CXXCXW	220	275	748	Cablelok™, Heatshrink	IR SC	60	3A
857-00577	FMLIR-CXXCXX	220	275	748	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

- FML IR Base
- Anchor Plates/Bracket
- C-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Optic Routing Module
- Fibre Optic Storage Unit
- Fibre Optic Storage Unit Lid
- Fibre Slot Entry Module
- Fibre Slot Retaining Block
- Reusealable Cable Ties
- Tray Lid
- Tray Tool
- Anchor Fixing Kit (3)
- Spiral Binding
- Marker Kit
 - Red Marker 1 - 48
 - Green Marker 1 - 48
 - White Marker 1 - 33
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



FML Integrated Routing BC Length with Basket

Features and Benefits

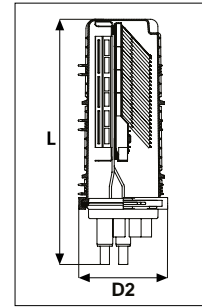
- Maximum 288 fibre splice capacity
- 12 round ports and 1 oval port
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre storage basket for loop through applications
- Bi-directional fibre routing
- Accommodates both SC and SE trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ ready
- Quick release cover
- Optional pressure release valve



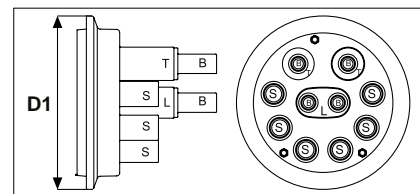
FML IR BC-Length Closure with Basket



FML BC-Length Closure Cover



FML IR BC-Length Closure with Basket



FML Base Port Configuration

Technical Description

The FML Integrated Routing (IR) BC Length closure with basket is available Cablelok ready. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 – 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 24 IR SE trays or 48 IR SC trays or a combination of SE and SC trays. The position of the mounting system allows easy access for the routing of the fibre into 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 to access the fibre, the fibre slot retaining block and tray retaining clips are coloured red to aid in identification if they are dropped.

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)				
857-00575	FMLIR-BCBCWX	220	275	668	Cablelok™, Heatshrink	IR SE	24	3A
857-00576	FMLIR-BCBCXW	220	275	668	Cablelok™, Heatshrink	IR SC	48	3A
857-00574	FMLIR-BCBCXX	220	275	668	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

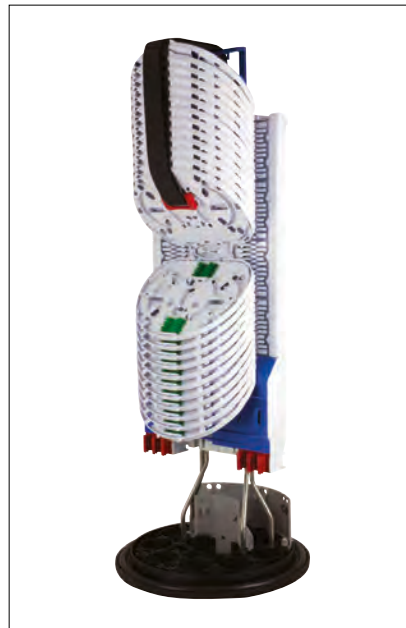
- FML IR Base
- Anchor Plates/Bracket
- BC-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Storage Basket
- Fibre Optic Routing Module
- Fibre Optic Storage Unit
- Fibre Optic Storage Unit Lid
- Fibre Slot Entry Module
- Fibre Slot Retaining Block
- Reuseable Cable Ties
- Tray Lid
- Tray Tool
- Anchor Fixing Kit (3)
- Spiral Binding
- Marker Kit
 - Red Marker 1 - 25
 - Green Marker 1 - 25
 - White Marker 1 - 33
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



FML Integrated Routing BC Length without Basket

Features and Benefits

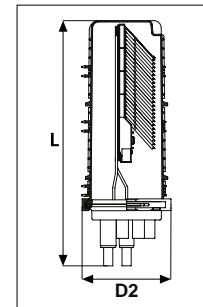
- Maximum 288 fibre splice capacity
- 12 round ports and 1 oval port
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Bi-directional fibre routing
- Accommodates both SC and SE trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ ready
- Quick release cover
- Optional pressure release valve



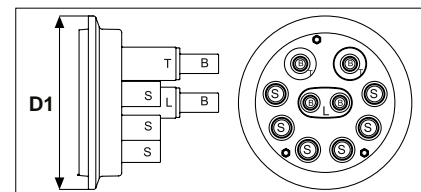
FML IR BC-Length Closure without Basket



FML BC-Length Closure Cover



FML IR BC-Length Closure without Basket



FML Base Port Configuration

Technical Description

The FML Integrated Routing (IR) BC Length closure is available Cablelok ready. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 – 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 24 IR SE trays or 48 IR SC trays or a combination of SE and SC trays. The position of the mounting system allows easy access for the routing of the fibre into 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 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 to access the fibre, the fibre slot retaining block and tray retaining clips are coloured red to aid in identification if they are dropped.

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)				
857-00572	FMLIR-BCXCWX	220	275	668	Cablelok™, Heatshrink	IR SE	24	3A
857-00573	FMLIR-BCXCXW	220	275	668	Cablelok™, Heatshrink	IR SC	48	3A
857-00571	FMLIR-BCXCXX	220	275	668	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

- FML IR Base
- Anchor Plates/Bracket
- BC-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Optic Routing Module
- Fibre Optic Storage Unit
- Fibre Optic Storage Unit Lid
- Fibre Slot Entry Module
- Fibre Slot Retaining Block
- Reusable Cable Ties
- Tray Lid
- Tray Tool
- Anchor Fixing Kit (3)
- Spiral Binding
- Marker Kit
 - Red Marker 1 - 25
 - Green Marker 1 - 25
 - White Marker 1 - 33
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



FML Integrated Routing B Length with Basket

Features and Benefits

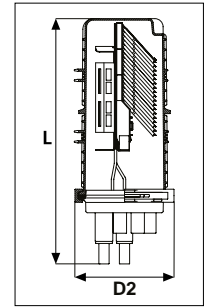
- Maximum 216 fibre splice capacity
- 12 round ports and 1 oval port
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Fibre storage basket for loop through applications
- Bi-directional fibre routing
- Accommodates both SC and SE trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ ready
- Quick release cover
- Optional pressure release valve



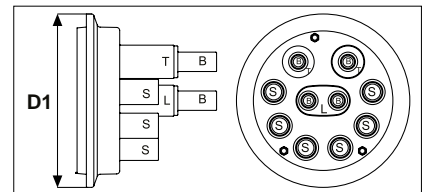
FML IR B-Length Closure with Basket



FML B-Length Closure Cover



FML IR B-Length Closure with Basket



FML Base Port Configuration

Technical Description

The FML Integrated Routing (IR) B Length closure with basket is available Cablelok ready. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 – 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 18 IR SE trays or 36 IR SC trays or a combination of SE and SC trays. The position of the mounting system allows easy access for the routing of the fibre into 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 into 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 to access the fibre, the fibre slot retaining block and tray retaining clips are coloured red to aid in identification if they are dropped.

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)				
857-00569	FMLIR-BXBCWX	220	275	598	Cablelok™, Heatshrink	IR SE	18	3A
857-00570	FMLIR-BXBCXW	220	275	598	Cablelok™, Heatshrink	IR SC	36	3A
857-00568	FMLIR-BXBCXX	220	275	598	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

- FML IR Base
- Anchor Plates/Bracket
- B-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Storage Basket
- Fibre Optic Routing Module
- Fibre Optic Storage Unit
- Fibre Optic Storage Unit Lid
- Fibre Slot Entry Module
- Fibre Slot Retaining Block
- Reuseable Cable Ties
- Tray Lid
- Tray Tool
- Anchor Fixing Kit (3)
- Spiral Binding
- Marker Kit
 - Red Marker 1 - 25
 - Green Marker 1 - 25
 - White Marker 1 - 33
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



FML Integrated Routing B Length without Basket

Features and Benefits

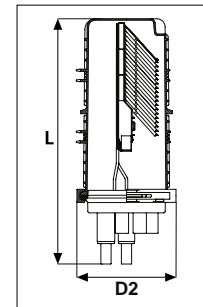
- Maximum 216 fibre splice capacity
- 12 round ports and 1 oval port
- Positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout
- Bi-directional fibre routing
- Accommodates both SC and SE trays
- Maximum 12 splices per tray
- Splitter accommodation
- Cablelok™ ready
- Quick release cover
- Optional pressure release valve



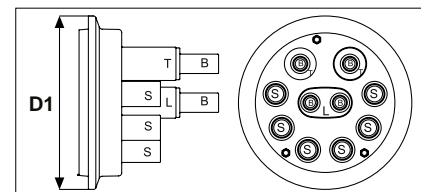
FML IR B-Length Closure without Basket



FML B-Length Closure Cover



FML IR B-Length Closure without Basket



FML Base Port Configuration

Technical Description

The FML Integrated Routing (IR) B Length closure is available Cablelok ready. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 – 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 18 IR SE trays or 36 IR SC trays or a combination of SE and SC trays. The position of the mounting system allows easy access for the routing of the fibre into 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 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 to access the fibre, the fibre slot retaining block and tray retaining clips are coloured red to aid in identification if they are dropped.

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)				
857-00566	FMLIR-BXXCWX	220	275	598	Cablelok™, Heatshrink	IR SE	18	3A
857-00567	FMLIR-BXXCXW	220	275	598	Cablelok™, Heatshrink	IR SC	36	3A
857-00565	FMLIR-BXXCXX	220	275	598	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

- FML IR Base
- Anchor Plates/Bracket
- B-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Optic Routing Module
- Fibre Optic Storage Unit
- Fibre Optic Storage Unit Lid
- Fibre Slot Entry Module
- Fibre Slot Retaining Block
- Reuseable Cable Ties
- Tray Lid
- Tray Tool
- Anchor Fixing Kit (3)
- Spiral Binding
- Marker Kit
 - Red Marker 1 - 25
 - Green Marker 1 - 25
 - White Marker 1 - 33
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



Introduction



The FML is a medium to large cap ended ready access closure for use in underground, direct burial or aerial installations. It is available with a tubing fibre management system or Integrated Routing (IR).

The mid-range capacity and port flexibility offered by the FML make it suitable for FTTX access and trunk networks.

The single base configuration available with the FML features 12 round cable ports and an oval port for loop through applications.

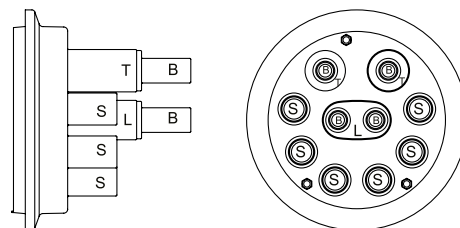
The cover is environmentally sealed to the base using an 'O' ring and quick release clamp whilst the cables are sealed either using Cablelok mechanical seal or heatshrink sleeves.

The closure cover, which can be fitted with a flash test valve and/or grounding feed-through, is available in 3 different lengths depending on the maximum number of trays required. For flash test valve and/or grounding feed through versions please contact our sales office.

Features and Benefits

- Ideal for FTTX network and trunk applications
- 12 round ports and 1 oval port (for loop through cable)
- Suitable for blown fibre/cable applications
- Accommodates up to 36 NZDF SE-B or SMF SE-B, 12 Hellapon Medium or 2 Hellamass Large trays
- Available in 3 different lengths
- Cablelok compatible for all port sizes
- Quick release cover clamp
- Flash test release valve and feed-through options
- Accessory wall mounting bracket and stainless steel wall mounting strap kits available
- 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 10.05 – 24.0
T	2	15.5 – 29.0	8.0 – 35.0
S	6	5.0 – 20.0	12.0 – 26.0
B	4	4.8 – 16.5	6.0 – 19.0



FML Port Base Configuration



Cover Reference	Closure Width (mm) D1 x D2	Closure Length (mm) L	Hellipse NZDF SE-B Tray		Hellipse SMF SE-B Tray		Hellapon Medium Tray		Hellamass Large Tray	
			Single Tray	Max Splice Capacity	Single Tray	Max Splice Capacity	Single Tray	Max Splice Capacity	Single Tray	Max Splice Capacity
A	220 X 275	400	*6(1)	72	6(1)	144**	-	-	-	-
B	220 X 275	598	24(4)	288	24(4)	576**	12(12)	192	-	-
C	220 X 275	748	36(6)	432	36(6)	864**	-	-	2(2)	288

*Single tray count (tray pack/ordering multiple) Hellipse NZDF SE-B – 12 splices per tray, Hellipse SMF SE-B – 24 splices per tray, Hellapon Medium – 16 splices per tray, Hellamass Large – 144 splices per tray

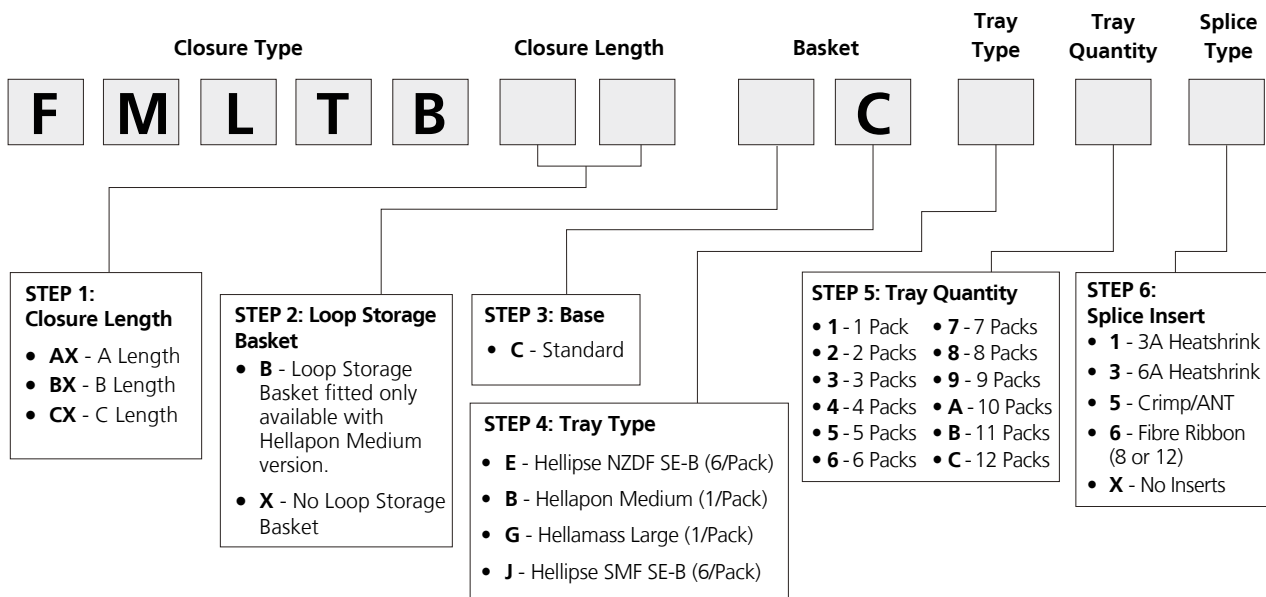
**Based on maximum splice protector length of 45mm

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.
- STEP 2:** Decide if a loop storage basket is required – loop storage basket only available with Hellapon Medium option.
- STEP 3:** One base option only. Selection pre-determined
- STEP 4:** Are Hellipse NZDF SE-B, Hellipse SMF SE-B, Hellapon Medium or Hellamass Large trays required? The closure will be supplied with the maximum number of trays chosen for the closure length (as shown in the catalogue). Hellipse NZDF SE-B are supplied with 2 x 3A heatshrink splice protector bridges (12 splice capacity), and Hellamass Large trays are supplied with 24 x 3A heatshrink splice protector bridges (144 splice capacity). The Hellipse SMF SE-B and the Hellapon Medium trays have a moulded 3A heatshrink splice protector holder (24 splice and 16 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.





FML C Length Closure

Features and Benefits

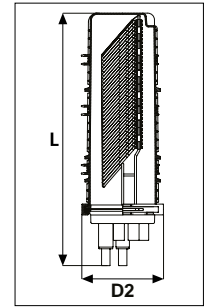
- Maximum 864 fibre splice capacity
- 12 round ports and 1 oval port
- Pre-tubed to trays to allow for easy insertion of fibre
- Accommodates Hellipse NZDF SE-B, SMF-SE-B and Hellamass large trays
- Maximum 144 splices per tray (Hellamass large)
- Splitter accommodation
- Cablelok™ compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



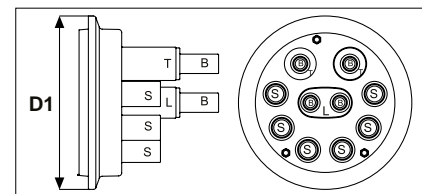
FML C-Length Closure



FML C-Length Closure Cover



FML C-Length Closure



FML Base Port Configuration

Technical Description

The FML C length closure is supplied with a Polypropylene base. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 – 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 there is a separate mounting system for each tray type.

The mounting systems for each tray type can accommodate a maximum of 36 Hellipse NZDF SE-B, SMF SE-B or 2 Hellamass Large trays giving a maximum of 864 fibre splices based on 24 splices per tray (when using Hellipse SMF SE-A trays).

The tubed closure and the position of the mounting system allows for ease of access and traceability of the fibre into 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)				
857-00682	FMLTB-CXXCE61	220	275	748	Cablelok™, Heatshrink	Hellipse NZDF SE-B	36	3A
857-00679	FMLTB-CXXCG21	220	275	748	Cablelok™, Heatshrink	Hellamass Large	2	3A
857-00684	FMLTB-CXXCJ6X	220	275	748	Cablelok™, Heatshrink	Hellipse SMF SE-B	36	3A
857-00680	FMLTB-CXXCXXX	220	275	748	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

- FML Base
- Anchor Plates/Bracket
- C-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Tray Support Frame
- Anchor Fixing Kit (3)
- Tray Tool
- Hook and Loop Tray Securing Straps
- Transportation Tubing
- Tubefix – Tubing to Tray Securing Blocks
- Hook and Loop Management Ties
- Marker Kit (NZDF SE-B/SMF SE-B)
 - Red Marker 1 – 48
 - Green Marker 1 – 48
- Marker Kit (Hellamass Large)
 - Red Marker 1 – 25
 - Green Marker 1 – 25
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



FML B Length

Features and Benefits

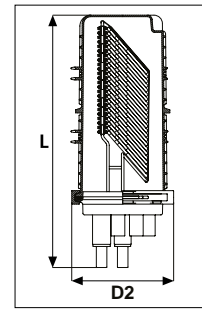
- Maximum 576 fibre splice capacity
- 12 round ports and 1 oval port
- Pre-tubed to trays to allow for easy insertion of fibre
- Accommodates Hellipse NZDF SE-B, SMF SE-B and Hellapon medium trays
- Maximum 24 splices per tray without double stacking (Hellipse SMF SE-B)
- Splitter accommodation
- Cablelok™ compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



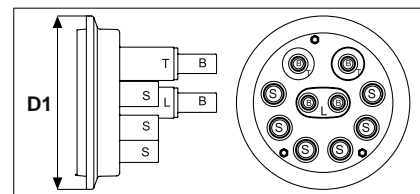
FML B-Length Closure



FML B-Length Closure Cover



FML B-Length Closure



FML Base Port Configuration

Technical Description

The FML B length closure is supplied with a Polypropylene base. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 – 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 there is a separate mounting system for each tray type. The mounting systems for each tray type can accommodate a maximum of 24 Hellipse NZDF SE-B, SMF SE-B or 12 Hellapon medium trays giving a maximum of 576 fibre splices based on 24 splices per tray (when using Hellipse SMF SE-A trays). The Hellapon medium closure is supplied with a fibre storage basket which provides storage space for the storage of fibre loops.

The tubed closure and the position of the mounting system allows for ease of access and traceability of the fibre into 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)				
857-00678	FMLTB-BXBCBCX	220	275	598	Cablelok™, Heatshrink	Hellapon Medium	12	3A
857-00674	FMLTB-BXXCE41	220	275	598	Cablelok™, Heatshrink	Hellipse NZDF SE-B	24	3A
857-00677	FMLTB-BXXCJ4X	220	275	598	Cablelok™, Heatshrink	Hellipse SMF SE-B	24	3A
857-00671	FMLTB-BXXCXXX	220	275	598	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

- FML Base
- Anchor Plates/Bracket
- B-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Fibre Storage Basket (Hellapon medium Tray option only)
- Tray Support Frame
- Anchor Fixing Kit (3)
- Tray Tool
- Hook and Loop Tray Securing Straps
- Transportation Tubing
- Tubefix – Tubing to Tray Securing Blocks
- Hook and Loop Management Ties
- Marker Kit (NZDF SE-B/SMF SE-B)
 - Red Marker 1 - 48
 - Green Marker 1 - 48
- Marker Kit (Hellapon medium)
 - Red Marker 1 - 25
 - Green Marker 1 - 25
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide



FML A Length Closure

Features and Benefits

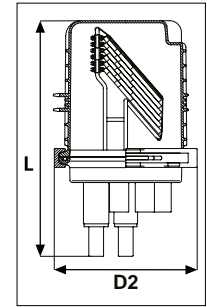
- Maximum 144 fibre splice capacity
- 12 round ports and 1 oval port
- Pre-tubed to trays to allow for easy insertion of fibre
- Accommodates Hellipse NZDF SE-B and SMF SE-B trays
- Maximum 24 splices per tray without double stacking (Hellipse SMF SE-B)
- Splitter accommodation
- Cablelok™ compatible for all port sizes
- Quick release cover
- Optional flash test valve and/or grounding feed-through



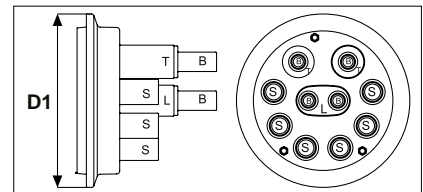
FML A-Length Closure



FML A-Length Closure Cover



FML A-Length Closure



FML Base Port Configuration

Technical Description

The FML A length closure is supplied with a Polypropylene base. The base configuration of 12 round ports and 1 oval port covers a cable diameter range of 4.8 – 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 a maximum of 6 Hellipse NZDF SE-B or SMF SE-B trays giving a maximum of 144 fibre splices based on 24 fibres per tray (when using Hellipse SMF SE-A trays).

The tubed closure and the position of the mounting system allows for ease of access and traceability of the fibre into 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)				
857-00669	FMLTB-AXXCE11	220	275	400	Cablelok™, Heatshrink	Hellipse NZDF SE-B	6	3A
857-00670	FMLTB-AXXCJ1X	220	275	400	Cablelok™, Heatshrink	Hellipse SMF SE-B	6	3A
857-00668	FMLTB-AXXCXXX	220	275	400	Cablelok™, Heatshrink	-	-	-

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

Content of Set/Kit

- FML Base
- Anchor Plates/Bracket
- A-Length Cover (Dome)
- Quick Release Clamp
- Sealing 'O' Ring
- Tray Support Frame
- Anchor Fixing Kit (3)
- Tray Tool
- Hook and Loop Tray Securing Straps
- Transportation Tubing
- Tubefix – Tubing to Tray Securing Blocks
- Hook and Loop Management Ties
- Marker Kit
 - Red Marker 1 - 12
 - Green Marker 1 - 12
- Isopropyl Alcohol Wipes
- Desiccant
- Installation Guide