

2012/2013

Integrated Routing

Fibre Optic Connectivity

HellermannTyton

Integrated Routing

The Integrated Routing system from HellermannTyton delivers industry leading fibre management within high fibre count dome closures.

Speed, ease and quality of installation have always been important when implementing large scale fibre optic networks. In today's environment, with more fibre needing to be installed in less time at lower cost, particularly in FTTX access networks, quick cost effective deployment of fibre on a large scale is critical to the success of a project.

HellermannTyton's Integrated Routing system meets these needs. The system is simple to use, quick to install and provides excellent fibre protection, management and distribution within the closure.

The Integrated Routing solution comprises 3 main elements: the entry block; the fibre routing back plane; and the splice tray (either single circuit or single element). Each component is designed with close attention to detail, providing protection and positive fibre management to ensure consistent 30mm minimum fibre bend radii throughout the closure. Individual components are finished to a high specification to eliminate the risk of snagging or microbends. The system is modular and scalable and can be configured to support specific applications and fibre count requirements.

By combining the Integrated Routing system and Cablelok™ (HellermannTyton's patented mechanical port sealing system), HellermannTyton's closure range greatly reduces installation times whilst improving the quality and repeatability of installation. As such, initial network rollout costs are reduced and subsequent maintenance costs are minimised.

The Integrated Routing system is available with HellermannTyton's 3 largest closures: FDN, FML and UFC, providing a splice capacity of up to 720.

Features and Benefits

- Fast installation time
- Low installation cost
- Protection of exposed fibres
- Positive fibre management
- High quality finish and detailing
- Interchangeable single element or single circuit splice trays
- Splitters up to 70x20x6mm can be mounted in the single element splice tray
- Up to 24 splices per single element tray if required
- Accommodates a range of splice protectors eg: Heatshrink or mechanical
- Up to 60 single element or 120 single circuit trays in the largest UFC configuration
- Available in FDN, FML and UFC closures



Easy Tray Addition

- Additional trays can be easily clipped onto the back plane
- Dedicated location slots for single element and single circuit trays so that they cannot be incorrectly located



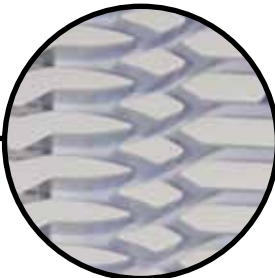
Tray Support Mechanism

- A clip on the strap attaches onto the underside of the tray above to hold the stack out of the way whilst the lower tray is being worked on



Quality Mouldings

- No sharp corners
- All fibre facing edges are radiused to prevent snagging and microbending



Fibre Retention

- Incoming fibre elements are held in place with a fibre retaining block
- Dense foam secures the fibres and can be sized to accommodate different cable diameters



Colour Coded Parts

- Components are colour coded to make the closure easy to work with in the field



Clear Entry Area

- Uncluttered space between the closure base and entry module gives easy access
- Metal components are stainless steel or anodised aluminium ensuring there will be no corrosion over time





On/Off Fibre Routing

- Fibre is actively managed between the tray and the back plane to prevent snagging and microbending
- Left and right entry points onto each tray



Bi-directional Fibre Routing

- The back plane enables fibre to be routed both up and down for tray to tray applications (eg: when using splitters)



Splitter Accommodation

- Optical splitters can be accommodated in the single element tray up to maximum dimensions of 70x20x6mm



Positive Fibre Management

- Both splice tray and back plane designs incorporate positive fibre management ensuring a minimum 30mm bend radius is always maintained



Fibre Storage

- The Fibre Storage Unit has a large capacity for storing spare fibre
- Fibre can be managed and routed to either side of the back plane module



Splice Capacity

- Different splice bridges means a range of splice types (up to 60mm in length) can be accepted on the trays
- Two splice bridges per SE tray with up to 12 splices per bridge mean a maximum of 24 splices per SE tray can be achieved



UFC - Double Stack

Up to 60SE Trays. 720 Splice Capacity

Refer to pages 10 and 11 for more information

FDN - Fibre Distribution Node Up to 432 fibre splice capacity

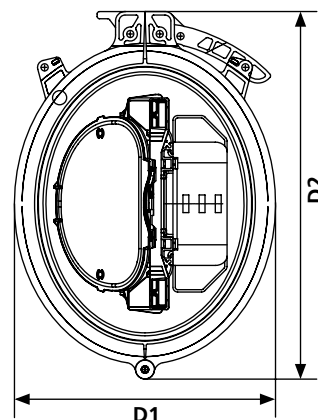
The FDN is a medium to large oval shaped cap ended closure with a high number of small cable ports for use in underground, direct burial or aerial installations.

The market leading customer drop port count means it is particularly suited for use in FTTH access networks. The oval shape ensures the FDN can be used where space is restricted. The base configuration of the FDN has 58 round ports and an oval port for loop through applications. The 52 R ports, when used with HellermannTyton's Cablelok™ mechanical seal system, provide a port density which is unmatched, reducing costs for FTTH roll out.

The closure cover, which can be fitted with a pressure valve, is available in 4 different lengths depending on the maximum number and type of trays required.

The cover is environmentally sealed to the base using an 'O' ring and quick release clamp. The cables are sealed using Cablelok™ mechanical seal or heatshrink sleeving (with the exception of the R ports).

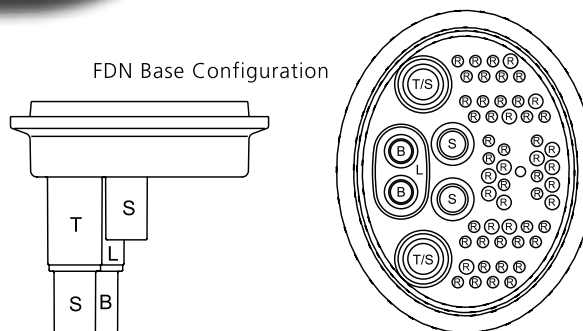
- Ideal for FTTH network applications, especially last mile/kilometre
- 58 round ports and 1 oval port (for loop through cable)
- Industry leading 52 drop ports accommodating up to 104 customer drop fibres
- Suitable for blown fibre/cable installations
- Accommodates up to 36 single element or 72 single circuit trays or a combination of both
- Can be configured with a fibre storage basket for loop through applications
- Available in 4 different lengths
- Cablelok™ ready
- Oval shape for use where space is limited
- Quick release cover clamp
- Accessory wall mounting bracket and stainless steel wall mounting strap kits available
- For use in underground, direct burial or aerial applications



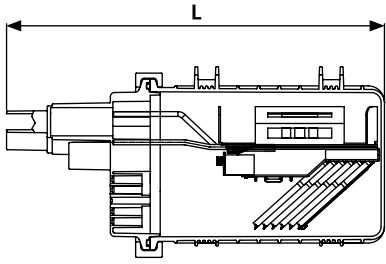
FDN Port & Cable Details

Port	No. 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	4	8.0 - 26.0	8.0 - 26.0
B	2	4.8 - 16.5	6.0 - 19.0
R	52	1.7 - 9.5	-

FDN Base Configuration

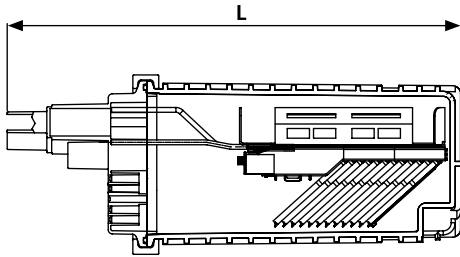


FDN Integrated Routing Options, Capacities and Dimensions



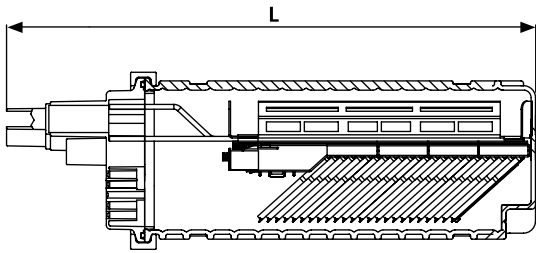
'A' Length FDN

Max of 6 SE trays or 12 SC trays
Optional short length basket



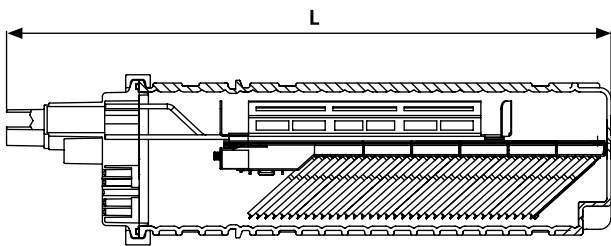
'AB' Length FDN

Max of 12 SE trays or 24 SC trays
Optional medium length basket



'B' Length FDN

Max of 24 SE trays or 48 SC trays
Optional long length basket



'C' Length FDN

Max of 36 SE trays or 72 SC trays
Optional long length basket

FDN Dimensions and Splice Capacity

Cover Reference	Closure Width (mm) D1 X D2	Closure Length (mm) L	Single Element (SE) Tray		Single Circuit (SC) Tray	
			Tray Count	Max Splice Capacity	Tray Count	Max Splice Capacity
A	222 x 312	455	*6 (1)	72	12 (1)	48
AB	222 x 312	561	12 (2)	144	24 (2)	96
B	222 x 312	663	24 (4)	288	48 (4)	192
C	222 x 312	789	36 (6)	432	72 (6)	288

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

FML-IR Closure

FML - Fibre Modular Link Up to 360 fibre splice capacity

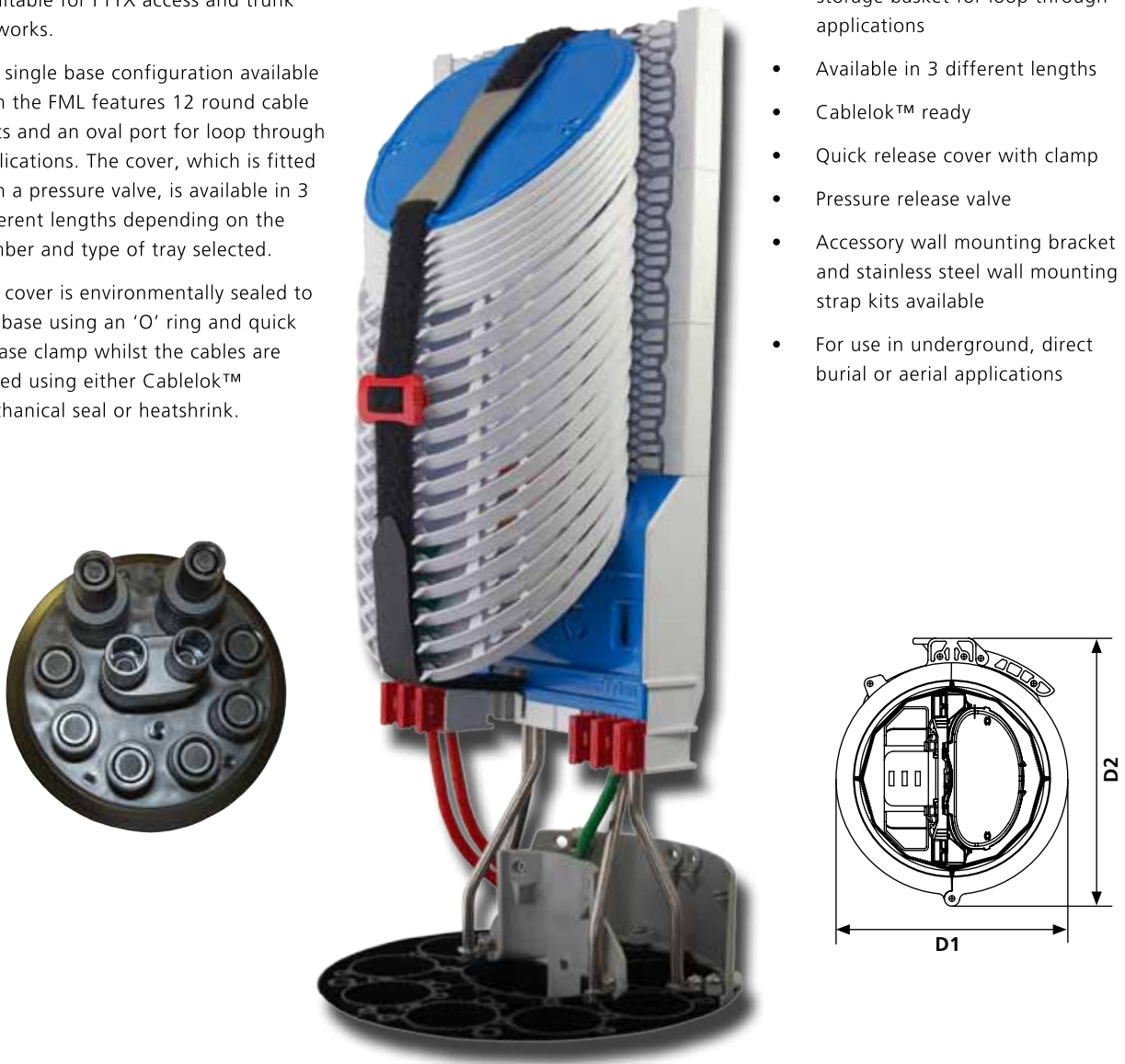
The FML is a medium to large cap ended ready access closure for use in underground, directly burial or aerial installations.

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, which is fitted with a pressure valve, is available in 3 different lengths depending on the number and type of tray selected.

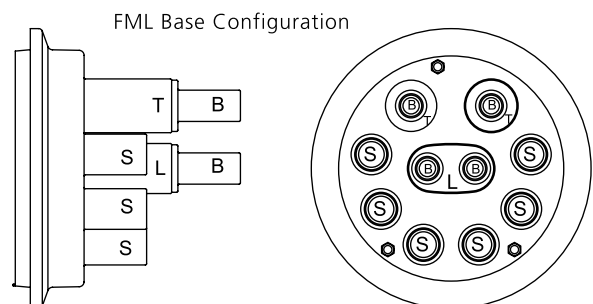
The cover is environmentally sealed to the base using an 'O' ring and quick release clamp whilst the cables are sealed using either Cablelok™ mechanical seal or heatshrink.

- Suitable for FTTX and trunk applications
- 12 round ports and 1 oval port (for loop through cable)
- Accommodates up to 30 single element or 60 single circuit trays or a combination of both
- Can be configured with a fibre storage basket for loop through applications
- Available in 3 different lengths
- Cablelok™ ready
- Quick release cover with clamp
- Pressure release valve
- Accessory wall mounting bracket and stainless steel wall mounting strap kits available
- For use in underground, direct burial or aerial applications

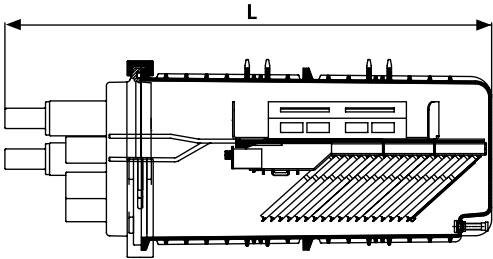


FML Port & Cable Details

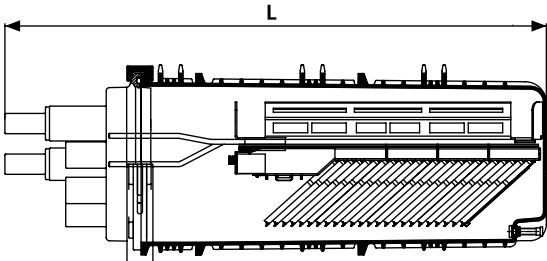
Port	No. of Ports	Cable Range (mm)	
		Cablelok™	Heatshrink
L	1	2 x 5.50 - 20.0	2 x 10.0 - 24.0
T	2	15.5 - 29.0	8.0 - 35.0
S	6	8.0 - 26.0	8.0 - 26.0
B	4	4.8 - 16.5	6.0 - 19.0



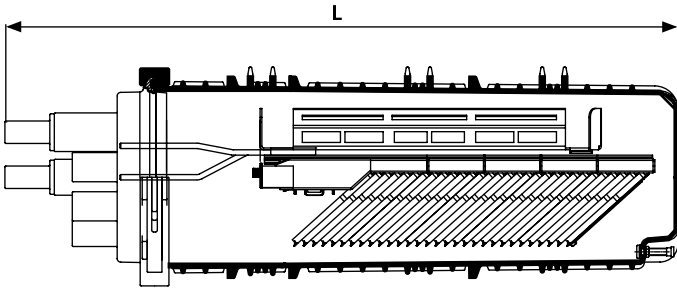
FML Integrated Routing Options, Capacities and Dimensions



'B' Length FML
 Max of 18 SE trays or 36 SC trays
 Optional medium length basket



'BC' Length FML
 Max of 24 SE trays or 48 SC trays
 Optional long length basket



'C' Length FML
 Max of 30 SE trays or 60 SC trays
 Optional long length basket

FML Dimensions and Splice Capacity

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

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

UFC – Universal Fibre Closure Up to 720 fibre splice capacity

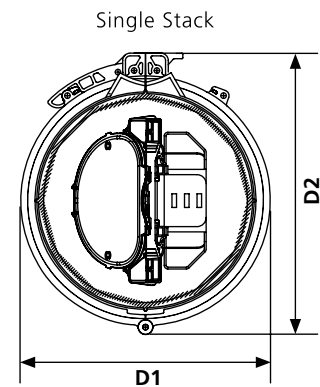
The UFC is a high fibre capacity cap ended ready access closure used in underground, direct burial or aerial installations.

The closure has a large fibre capacity and a high number of ports and is therefore particularly suited to high fibre count FTTX or trunk applications or where high splice density is required. The UFC can be configured with back-to-back tray stacks and can accommodate up to 720 splices in its largest format.

The UFC base configuration has 28 round cable ports and 2 oval ports for loop through applications.

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

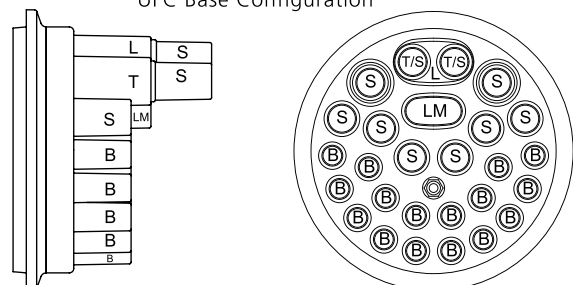
- Ideal for high fibre/splice count FTTX and trunk applications
- 28 round ports and 2 oval ports (for loop through cable)
- Accommodates up to 60 single element or 120 single circuit trays or a combination of both
- Can be configured as a double tray stack for high splice-counts
- Fibre loop storage basket available with the single stack configuration
- Available in 3 different lengths
- Cablelok™ ready
- Quick release cover clamp
- Pressure release valve
- Accessory wall mounting bracket and stainless steel wall mounting strap kits available
- For use in underground, direct burial or aerial applications



UFC Port & Cable Details

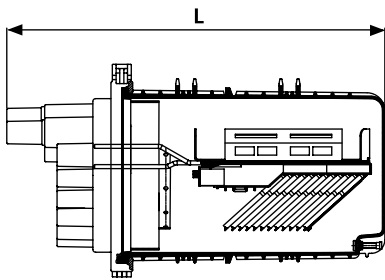
Port	No. of Ports	Cable Range (mm)	
		Cablelok™	Heatshrink
L	1	2 x 5.5 - 20.0	2 x 10.0 - 24.0
LM	1	2 x 4.0 - 15.0	2 x 8.0 - 22.0
T	2	15.5 - 29.0	8.0 - 35.0
S	10	8.0 - 26.0	8.0 - 26.0
B	16	4.8 - 16.5	6.0 - 19.0

UFC Base Configuration



UFC Integrated Routing Options, Capacities and Dimensions

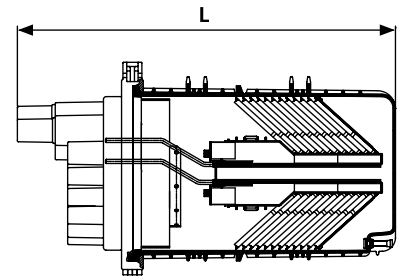
Single Stack



'B' Length UFC

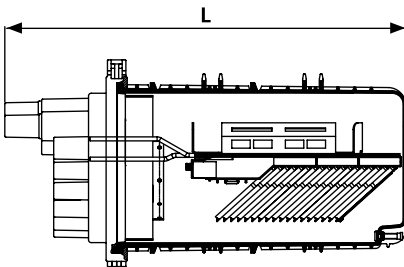
Max of 12 SE trays or 24 SC trays
Optional medium length basket

Double Stack



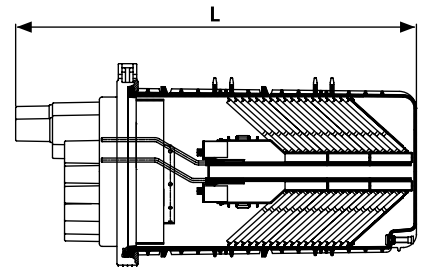
'B' Length UFC

Max of 24 SE trays or 48 SC trays



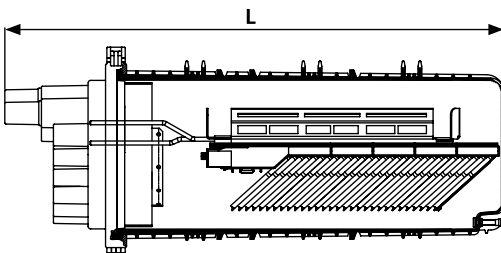
'BC' Length UFC

Max of 18 SE trays or 36 SC trays
Optional medium length basket



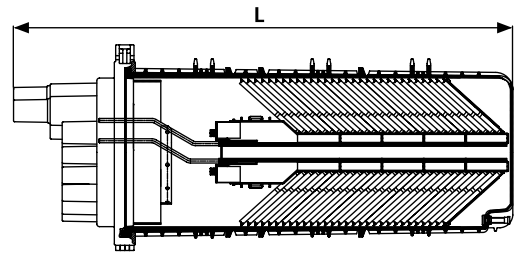
'BC' Length UFC

Max of 36 SE trays or 72 SC trays



'C' Length UFC

Max of 30 SE trays or 60 SC trays
Optional long length basket



'C' Length UFC

Max of 60 SE trays or 120 SC trays

UFC Dimensions and Splice Capacity

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	Double Tray	Max Splice Capacity	Single Tray	Max Splice Capacity	Double Tray	Max Splice Capacity
B	275 x 310	549	*12 (2)	144	24 (4)	288	24 (2)	96	48 (4)	192
BC	275 x 310	598	18 (3)	216	36 (6)	432	36 (3)	144	72 (6)	288
C	275 x 310	749	30 (5)	360	60 (10)	720	60 (5)	240	120 (10)	480

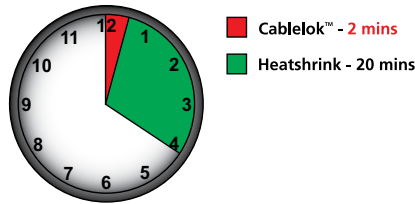
*Single tray count (tray pack/ordering multiple) SE - 12 standard splices per tray SC - 4 standard splices per tray

Cablelok™

100% Mechanical Seal

Fibre engineers and network owners are increasingly insisting on 100% mechanically sealed closures. Traditional heatshrink methods for cable sealing are time consuming; dependent on the skill of the engineer; and the access required around the port means heatshrink is not conducive to high port densities, particularly applicable in today's FTTX environment. There are also health and safety concerns relating to gas bottle storage/transportation and confined space use.

HellermannTyton's patented Cablelok™ mechanical seal enables fast safe cable installation, providing a highly repeatable and consistent seal between the cable and the closure port with excellent non-leak performance. Tested to in excess of 6m head of water, the Cablelok™ 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%.



■ Cablelok™ - 2 mins
■ Heatshrink - 20 mins



Round Port Cablelok™



Oval Port Cablelok™

Features and Benefits

- Excellent sealing properties to in excess of 6m head of water (58.8kPa)
- Rapid installation with no specialist tools required
- Highly repeatable – the quality of the seal is not dependent on the skill of the engineer
- Eliminates the need for potentially hazardous gas bottle transportation and storage
- 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 two cable drops from the same port
- Proven technology in the field

Selecting the correct Cablelok™

Each port size on the HellermannTyton closures has a unique identifier and a dedicated series of Cableloks (ie: R, B, S, T, LM or L). Every Cablelok™ within a series is specifically designed to accommodate a range of cable diameters. Achieving the required seal performance is simply a case of selecting the correct Cablelok™ for the port and cable combination being used.

Step 1: Determine the diameter of the cable being used.

Step 2: Choose the appropriate closure port to be used and hence port identifier.

Step 3: Identify the correct Cablelok™ using the port and cable ranges shown below.

R Port

Cable Ø Range (mm)	Part Number	UNS No.
1.7 - 2.0	CABLELOK-R10-10	857-50164
2 x 1.7 - 2.0 (2 Cables)	CABLELOK-R10D-10	857-50162
3.0 - 3.8	CABLELOK-R20-10	857-50166
2 x 3.8 - 4.8 (2 Cables)	CABLELOK-R30D-10	857-50160
3.8 - 5.2	CABLELOK-R40-10	857-50152
5.2 - 8.0	CABLELOK-R50-10	857-50154
6.0 - 8.5	CABLELOK-R70-10	857-50168
8.0 - 9.5	CABLELOK-R80-10	857-50156
Port Closure Plug	CABLELOK-R99-10	857-50158

B Port

Cable Ø Range (mm)	Part Number	UNS No.
4.8 - 9.0	CABLELOK-B10-10	857-50150
8.0 - 14.0	CABLELOK-B20-10	857-50144
13.0 - 16.5	CABLELOK-B30-10	857-50146
Port Closure Plug	CABLELOK-B99-10	857-50148

S Port

Cable Ø Range (mm)	Part Number	UNS No.
5.0 - 8.5	CABLELOK-S10-10	857-50180
8.0 - 12.0	CABLELOK-S20-10	857-50170
2 x 10.0 - 11.5 (2 Cables)	CABLELOK-S30D-10	857-50178
12.0 - 16.0	CABLELOK-S40-10	857-50172
16.0 - 20.0	CABLELOK-S50-10	857-50174
Port Closure Plug	CABLELOK-S99-10	857-50176

T Port

Cable Ø Range (mm)	Part Number	UNS No.
15.5 - 22.0	CABLELOK-T10-10	857-50190
20.0 - 23.5	CABLELOK-T20-10	857-50182
23.5 - 25.5	CABLELOK-T30-10	857-50184
24.5 - 29.0	CABLELOK-T40-10	857-50186
Port Closure Plug	CABLELOK-T99-10	857-50188

LM Port

Cable Ø Range (mm)	Part Number	UNS No.
2 x 4.0 - 6.5	CABLELOK-LM10C-10	857-50204
2 x 6.0 - 9.5	CABLELOK-LM20C-10	857-50206
2 x 9.0 - 12.5	CABLELOK-LM30C-10	857-50208
2 x 12.0 - 15.0	CABLELOK-LM40C-10	857-50210
Port Closure Plug	CABLELOK-LM99C-10	857-50212

L Port

Cable Ø Range (mm)	Part Number	UNS No.
2 x 5.5 - 9.5	CABLELOK-L10C-10	857-50200
2 x 9.0 - 12.5	CABLELOK-L20C-10	857-50214
2 x 12.0 - 15.0	CABLELOK-L30C-10	857-50192
2 x 15.0 - 18.5	CABLELOK-L40C-10	857-50194
2 x 18.3 - 20.0	CABLELOK-L50C-10	857-50196
Port Closure Plug	CABLELOK-L99C-10	857-50198

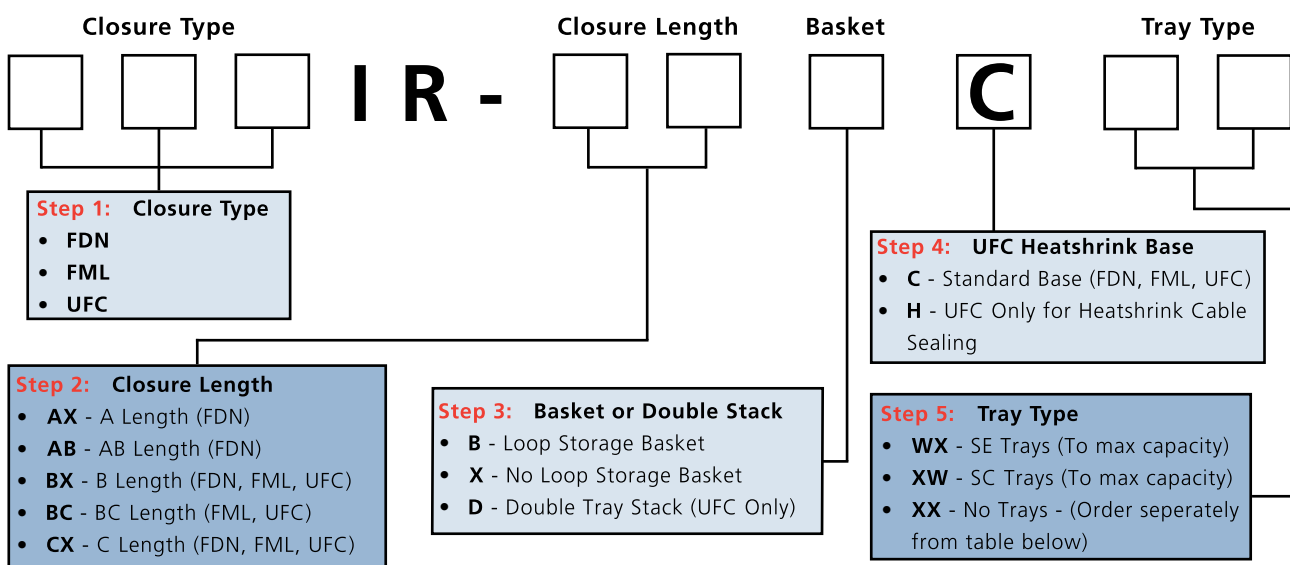
Note: All Part Numbers shown are for packs of 10. Single Cablelok™ Part Numbers are available on request.

HellermannTyton closures with Integrated Routing are supplied in standard configurations, with fibre management and splice trays included, ready for 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™ or heatshrink) and accessories (eg: mounting brackets) must be ordered separately.

Identifying the correct part number is a simple process:

- Step 1:** Determine the closure required ie: FDN, FML or UFC.
- Step 2:** Choose the appropriate closure length based on the splice capacity and tray configuration required.
- Step 3:** Decide if a loop storage basket is required or, if the UFC, a double splice tray stack.
- Step 4:** If using the UFC, is heatshrink going to be used for cable sealing?
- Step 5:** Are single element (SE) or single circuit (SC) trays required? The closure will be supplied with the maximum number of trays for the chosen closure length (as shown in this brochure). SE trays are supplied with 2 x 3A splice bridges (12 splice capacity). SC trays accommodate 4 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 the table at the bottom of the page.
- Step 6:** Select any additional accessories.

Part Number:



Example: **FDNIR-ABBCWX** = FDN, AB Length, With Loop Storage Basket, SE Trays (12 Trays)

Step 6: Accessories

Port Opening Tools

Part Number	Description	UNS No.
TPC1941	R PORT OPENING TOOL (FDN ONLY)	857-40175
TPC1942	B PORT OPENING TOOL (FDN, FML, UFC)	857-40176
TPC1943	S PORT OPENING TOOL (FDN, FML, UFC)	857-40177

Wall Mounting Brackets and Strap Kit

Part Number	Description	UNS No.
FDNA3763	WALL MOUNTING BRACKET (FDN)	857-40078
FMLA3279	WALL MOUNTING BRACKET (FML)	857-40106
UFCA2564	WALL MOUNTING BRACKET (UFC)	857-40180
ACC3910	POLE OR WALL MOUNTING STRAP KIT (FDN, FML)	857-40218
ACC3896	POLE OR WALL MOUNTING STRAP KIT (UFC)	857-40216

Tray Pack Part Numbers

Part Number	Description	UNS No.
TRAY-SC-IR-12	IR SINGLE CIRCUIT TRAY PACK OF 12 NO INSERTS	857-40244
TRAY-SE-IR-06	IR SINGLE ELEMENT TRAY PACK OF 6 NO INSERTS	857-40258
TRAY-SE-IR-2X3A-06	IR SINGLE ELEMENT TRAY WITH 2 X 3A INSERT PACK OF 6	857-40257
TRAY-SE-IR-2X4WAYRIBBON-06	IR SINGLE ELEMENT TRAY WITH 2 X 4 WAY RIBBON INSERT PACK OF 6	857-40255
TRAY-SE-IR-2X6A-06	IR SINGLE ELEMENT TRAY WITH 2 X 6A INSERT PACK OF 6	857-40251
TRAY-SE-IR-2X6ANT-06	IR SINGLE ELEMENT TRAY WITH 2 X ANT INSERT PACK OF 6	857-40253

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