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3M™ Fiber Closures BPEO



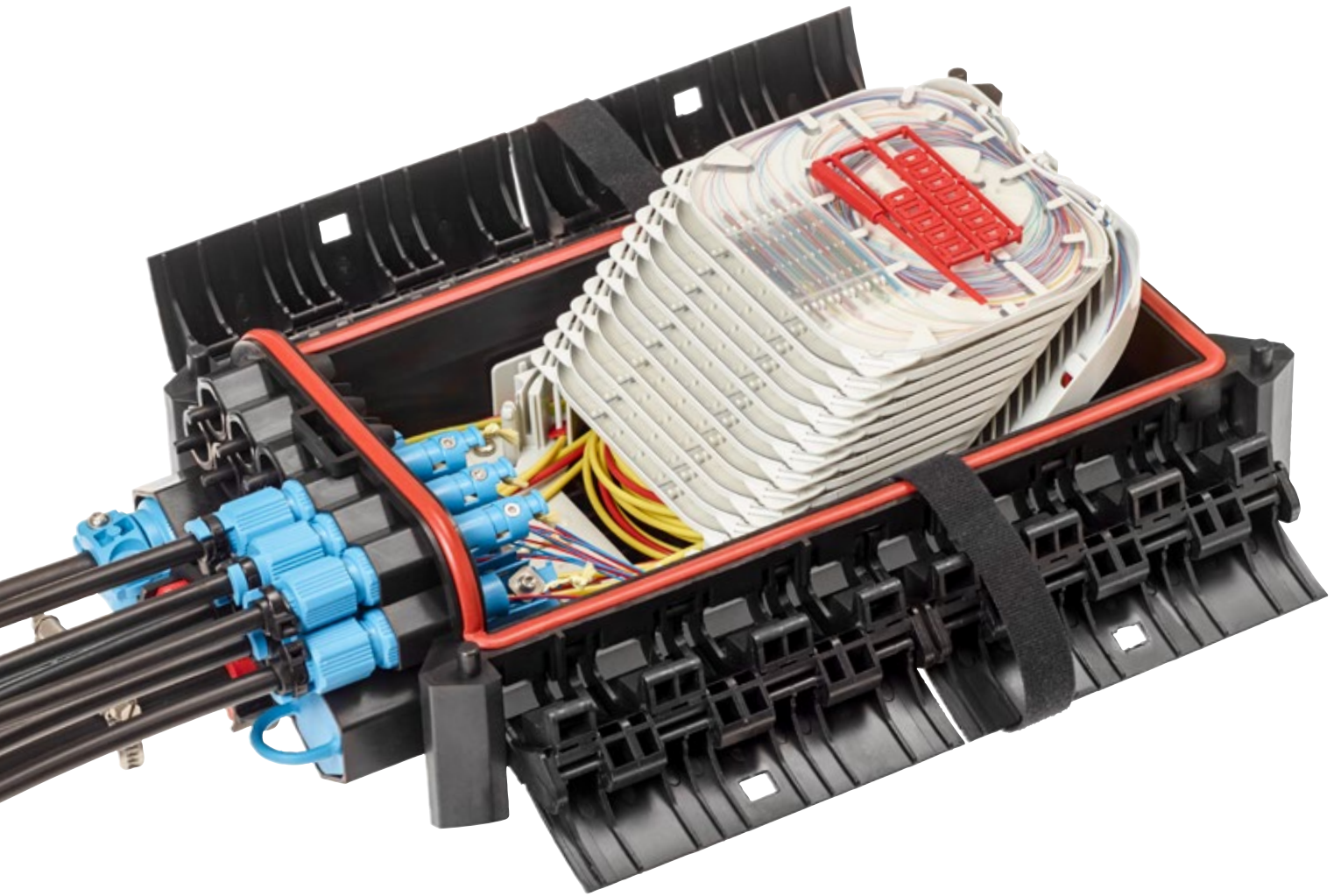
3M™ Fiber Closures BPEO

The 3M Fiber Closures BPEO are designed with flexibility in application in mind. With a range of sizes, they can be deployed above grade (pole, facade) or below grade (manhole, handhole). These closures can be used for FTTH deployments (PON and PtP networks) as well as for use with high fiber and city center deployments.

Mechanical and tool free: Easy to re-enter and close; integrated sealing gasket keeps water out

External cable preparation: Flexible range of cable sealing/strain relief, offering the unique advantage of performing all cable preparation outside of the closure

Flexible Fiber Management: Designed for 900 μm buffered fiber or 250 μm bare fiber, a full family of interchangeable trays helps enable Single Circuit Management for loose tubes and microstructure cable



Flexible Fiber Management

The integrated fiber tray organizer inside each closure have many features:

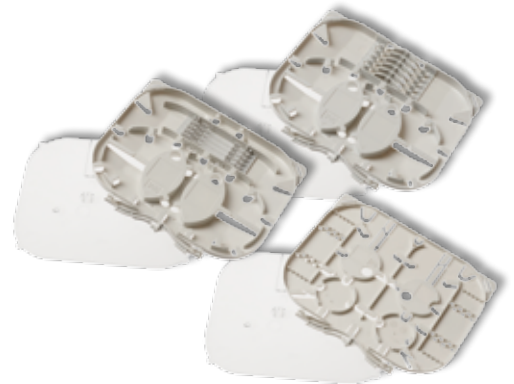
- Storage area for loose tube cable, microstructure cable or for express cables (un-cut)
- Hinged splice trays easily snap into place
- Large cable guide channels on each side of the integrated splice tray organizer helps routing from any tray to any tray
- Identification for each tray is visible in the open or closed position



Wide range of fiber splice trays

The different models of splice trays available for the 3M™ Fiber Closures BPEO can accommodate various styles of splices.

- Heat shrink fusion splice protectors in single or double stacking
- 3M™ Fibrlok™ Splices 2540G or 2529.
- 3M™ Planar Light Circuit (PLC) Splitters



These trays have separate zones for both the splitter and for different splice types.

Easy opening and closing

The mechanical latch is quick and easy to open and close without the need for any specialized tooling.

The built in seals of the BPEO in conjunction with the latch mechanism ensure that the seal remains watertight even after frequent use. The sealing gasket requires no replacement even after several open/close operations.



3M™ External Cable Assembly Modules (ECAMs)

The cable entry system is a 100% mechanical system that does not require the use of heat or electrical power. No special tools are required to complete either the single cable or dual cable assemblies. The ECAM system has been designed to enable cables to be prepared and sealed before the cable is installed in the closure. This feature avoids working on the cable inside the closure close to fibers that are already in use, reducing the possibility of failures. It is also particularly useful when attaching the cables with strength members.



3M™ Fiber Closure BPEO Size 0

The 3M™ Fiber Closure BPEO Size 0 closure has been specifically designed for FTTH customer connections.

Its small size is ideal for use within all types of manholes, even the smallest ones. With 14 outputs (12 drop cables and 2 branch cables), this size 3M BPEO offers a very flexible FTTH terminal configuration.

3M BPEO Size 0 can also be used within additional distribution applications for example, aerial mounted on a pole, facade networks or in areas with critical environmental conditions.

Connections to individual customers can be achieved on an as required basis, without specific tooling thanks to the 3M BPEO range of ECAM mechanical cable entries. The ECAMs have the benefit of improved operational conditions based on external preparation of the cable seal away from the closure assembly.

All 3M BPEO closures are delivered an integrated valve to enable a flash test in the field.

Specifications

General

Sealing: 2.9 PSI flash test
IP68
Impact test: 14.75 ft. - lbs.
Pull Force: Drop = 22.5 lbs.
Feeder = 225 lbs.

Dimensions overall in. (mm)

Length	9.5 (240)
Width	9.1 (230)
Depth	3.5 (90)

Entry configurations

Midspan entry (uncut)		yes
Storage	microstructure	yes
	loose tube 3 mm	limited, dependent on cable used

Capacity

See pages 14-15 for additional configurations.

Max. number of spots for splice trays	Fusion splices in 5 mm slot, (standard density for G.652D fiber)	Fusion splice 5 mm tray, (1 slot, high density for G.657 fiber)	3M™ Fibrlok™ Splice 5 mm cassette- 1 slot-6 splices
4	48	96	24



Cable Entry Configurations

3M™ Fiber Closure BPEO Size 0 is equipped with different size cable entry ports depending on the size of cables to be used. The description of the cable entry kit indicates the diameter of the cables that can be accommodated within each 3M™ External Cable Assembly Module (ECAM) and within the closure port in the base.

Single Entry ECAMs are pre-fixed with the letter 'S' followed by an indication for the maximum diameter of cable.

example = ECAM **S7** – entry for one cable, diameter 3-7 mm

Uncut Cable Entry ECAMs are pre-fixed with the letter 'D' followed by an indication for the maximum diameter of cable.

example = ECAM **D18** – double entry for uncut cable, diameter 6 - 18 mm

The dual entry port can be converted to two single ECAM Kits (next smaller size) if no uncut cable enters the closure (end of span application). One or two single ECAMs can be used in place of the double ECAM as needed.



Single port for ECAM **S7**
(3 - 7 mm cable Ø)



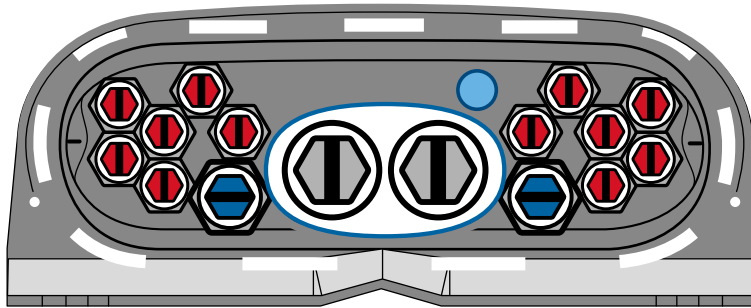
Single port for ECAM **S9.5**
(3.5 - 9.5 mm cable Ø)



Dual port for ECAM **D18**
(6 - 18 mm cable Ø)



Air Valve

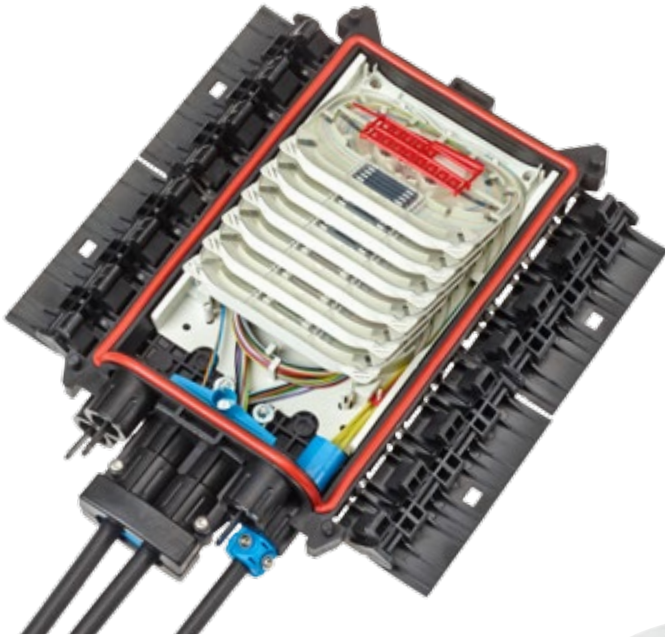


- 1 dual port for double ECAM **D18**,
2 single ports **S9.5** and
12 single ports for ECAM **S7**
or
- 1 dual port for 2 single ECAM **S12**,
2 single ports **S9.5** and
12 single ports for ECAM **S7**

3M™ Fiber Closure BPEO Size 0 also comes in a gray color, which can be more attractive when used on the sides of buildings. Contact your sales representative for ordering information.



3M™ Fiber Closure BPEO Size 1



The 3M™ Fiber Closure BPEO Size 1 organizer can be equipped with up to 12 splice trays if the closure is being used with standard microstructure cables in midspan applications. Alternatively if loose tube cables are to be used in a midspan application then the splice tray capacity is eight.

The maximum capacity of the organizer is 72 mechanical 3M™ Fibrlok™ Splices or 144 fusion splices located within 12 trays.

The BPEO Size 1 comes with a 12 slot organizer, tube structure clamps and installation tool and a fiber bridge guide. The fiber bridge guide is used to route individual output or unused fibers from one splice tray into the tray input of another splice tray in the organizer.



3M™ Fiber Closure BPEO Size 1 also comes in a gray color, which can be more attractive when used on the sides of buildings. Contact your sales representative for ordering information.

Specifications

General

Sealing: 7.2 PSI flash test
IP68
Impact test: 14.75 ft. - lbs.
Pull Force: Drop = 22.5 lbs.
Feeder = 225 lbs.

Dimensions overall in. (mm)

Closure body	With wall mount bracket	With pole mount bracket	With pole/wall mount bracket
Length	15.0 (382)	15.0 (382)	15.0 (382)
Width	8.0 (204)	12.2 (310)	9.1 (230)
Depth	3.6 (92)	3.8 (97)	4.8 (122)

Entry configurations

	EOC	CDP	EDP	FDP
Midspan entry (uncut)	no	yes	yes	yes
Storage of: Loose tube 3 mm / microstructure cable	yes yes	yes yes	yes yes	yes yes

Capacity

Capacity depends directly on the volume of stored/unused fibers/tubes. See pages 14-15 for additional configurations.

Closure size	Max number of slots for splice trays	Fusion splices in 10 mm tray (2 slots)	Fusion splices in 5 mm tray (1 slot, standard density for G.652D fiber)	Fusion splices in 5 mm tray (1 slot, high density for G.657 fiber)	3M™ Fibrlok™ Splice 2540G (6 ea in 5 mm tray / 12 ea in 10 mm tray)
Microstructure	12	144	144	288	72
Loose tubes 3 mm	8	96	96	192	48

Cable Entry Configurations

The 3M BPEO Size 1 is available in different models depending on the application in which they are to be used. These different models feature various combinations of the type and size of cable entries to suit network requirements.

The cable entry kits are available in various sizes to suit a range of cable diameters and whether they are to be used for single cables or for uncut (express) cable. For example, the 3M™ External Cable Assembly Module (ECAM) S18 covers cable diameters between 5 and 18 mm and the ECAM D20 is a double entry sealing kit for uncut (express) cables between 5 and 20 mm diameter.

The dual entry port can be converted to two single ECAM Kits (next smaller size) if no uncut cable enters the closure (end of span application). One or two single ECAMs can be used in place of the double ECAM as needed.



Single port for ECAM **S18**
(5 - 18 mm cable Ø)



Single port for ECAM **S12**
(4-12 mm cable Ø)



Dual port for ECAM **D20**
(5 - 20 mm cable Ø)



Single port for ECAM **S7**
(3 - 7 mm cable Ø)

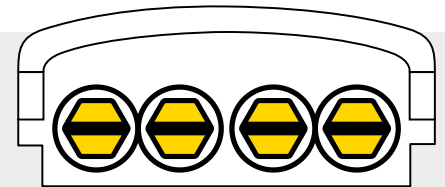


Single port for ECAM **S9.5**
(3.5 - 9.5 mm cable Ø)



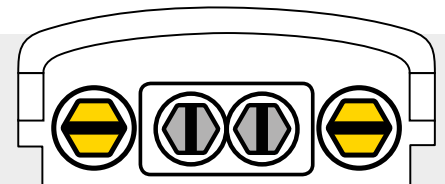
Dual port for ECAM **D18**
(6 - 18 mm cable Ø)

EOC (End of Cable)
Straight joint four single entries ECAM **S18**



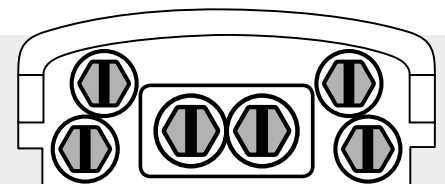
CDP (Cable Distribution Point)
Two possible configurations

- 1 dual port for double ECAM **D20** and 2 single ports for ECAM **S18** or
- 1 dual port for 2 single ECAM **S12** and 2 single ports for ECAM **S18**



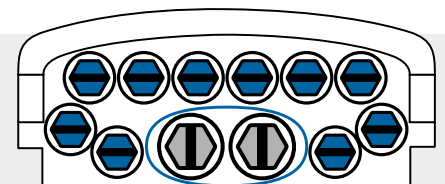
EDP (End Distribution Point)
Two possible configurations

- 1 dual port for ECAM **D20** and 4 single ports for ECAM **S12** or
- 1 dual port for 2 single ECAM **S12** and 4 single ports for ECAM **S12**



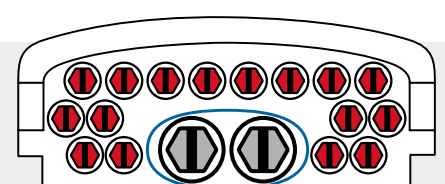
FDP BRANCH (Fiber Distribution Point for branch cables)
Two possible configurations

- 1 dual port for ECAM **D18** and 10 single ports for ECAM **S9.5** or
- 1 dual port for 2 single ECAM **S12** and 10 single ports for ECAM **S9.5**

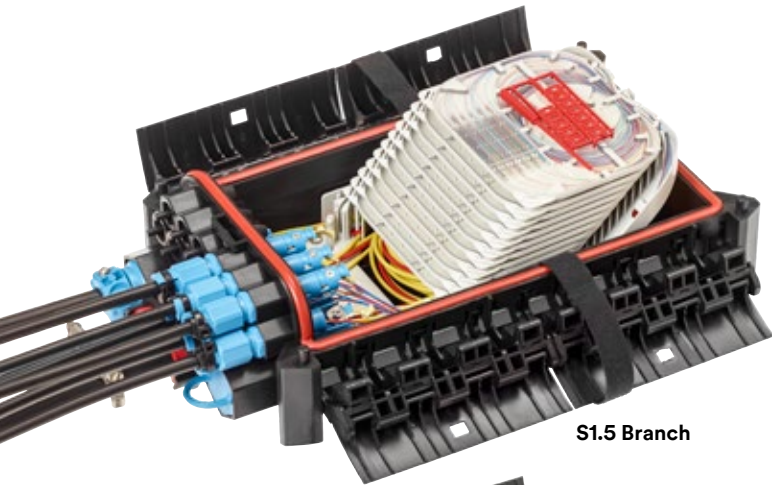


FDP DROP (Fiber Distribution Point for Drop cables)
Two possible configurations

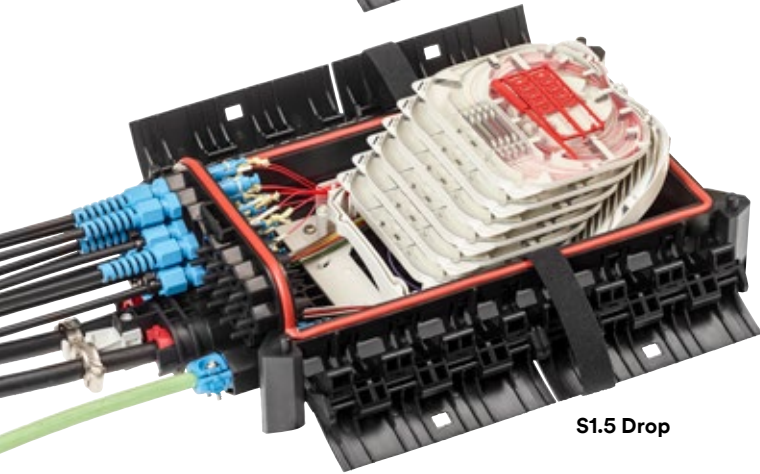
- 1 dual port for ECAM **D18** and 16 single ports for ECAM **S7** or
- 1 dual port for 2 single ECAM **S12** and 16 ports for single ECAM **S7**



3M™ Fiber Closure BPEO Size 1.5



S1.5 Branch



S1.5 Drop

The 3M™ Fiber Closure BPEO Size 1.5 is equipped with a tray organizer that enables management of loose tube midspan feeder cables while still offering the capacity for 144 fusion splices. This closure offers the same footprint as the 3M BPEO Size 1 and uses the same mounting accessories.

Two versions of the 3M BPEO Size 1 are available, offering either 25 ports for less than 7 mm round drop cable or 13 ports for less than 9.5 mm round drop cable. Each of the two configurations has ports for two branch cables.



Specifications

General

Sealing: 7.2 PSI flash test
IP68
Impact test: 75 ft. - lbs.
Pull Force: Drop = 22.5 lbs.
Feeder = 225 lbs.

Dimensions overall in (mm)

Closure Body	
Length	15.0 (382)
Width	8.1 (204)
Depth	4.7 (120)

Entry configurations

	FDP Drop	FDP Branch
Midspan entry (uncut)	yes	yes
Storage of: Loose tube 3 mm / microstructure cable	yes yes	yes yes

Capacity

Capacity depends directly on the volume of stored/unused fibers/tubes

	Max. number of slots for splice trays	Fusion splices in 10 mm tray (2 slots)	Fusion splices in 5 mm tray (1 slot, standard density for G.652D fiber)	Fusion splices in 5 mm tray (1 slot, high density for G.657 fiber)	3M™ Fibrlok™ Splice 2540G (6ea in 5 mm tray / 12ea in 10 mm tray)
Microstructure	12	144	144	144	72
Loose tubes 3 mm	12	144	144	96	72

Cable Entry Configurations

The 3M™ Fiber Closure BPEO Size 1.5 is equipped with different size cable entry ports depending on the size of cables to be used. The description of the cable entry kits indicates the diameter of the cables which can be accommodated within each 3M™ External Cable Assembly Module (ECAM) and within the closure base.

Single-entry ECAMs are pre-fixed with the letter 'S' followed by an indication for the maximum diameter of cable.

example = ECAM **S7** – entry for one cable, diameter 3 - 7 mm

Uncut Cable Entry ECAMs are pre-fixed with the letter 'D' followed by an indication for the maximum diameter of cable.

example = ECAM **D18** – double entry for uncut cable, diameter 6 - 18 mm

The dual entry port can be converted to two single ECAM Kits (next smaller size) if no uncut cable enters the closure. (end of span application) One or two single ECAMs can be used in place of the double ECAM as needed.



Single port for ECAM **S7**
(3 - 7 mm cable Ø)



Single port for ECAM **S9.5**
(3.5 - 9.5 mm cable Ø)



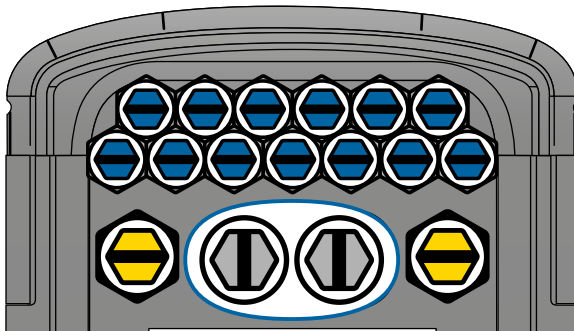
Single port for ECAM **S12**
(4-12 mm cable Ø)



Single port for ECAM **S18**
(5 - 18 mm cable Ø)



Dual port for ECAM **D18**
(6 - 18 mm cable Ø)

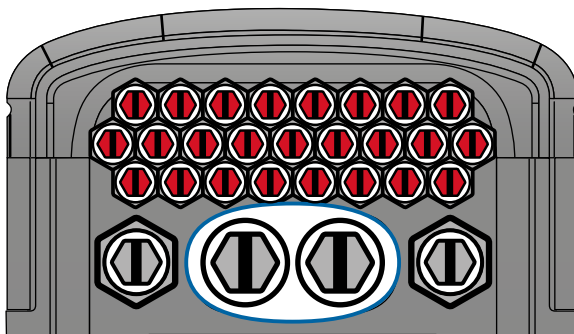


FDP Branch

(Fiber Distribution Point for 13 drop cables and 2 branch cables)

Two possible configurations

- 1 dual port for double ECAM **D18** and 2 single ports for ECAM **S18** and 13 single ports for ECAM **S9.5**
- or
- 1 dual port for 2 single ECAM **S12** and 2 single ports for ECAM **S18** and 13 single ports for ECAM **S9.5**



FDP Drop

(Fiber Distribution Point for 25 drop cables and 2 branch cables)

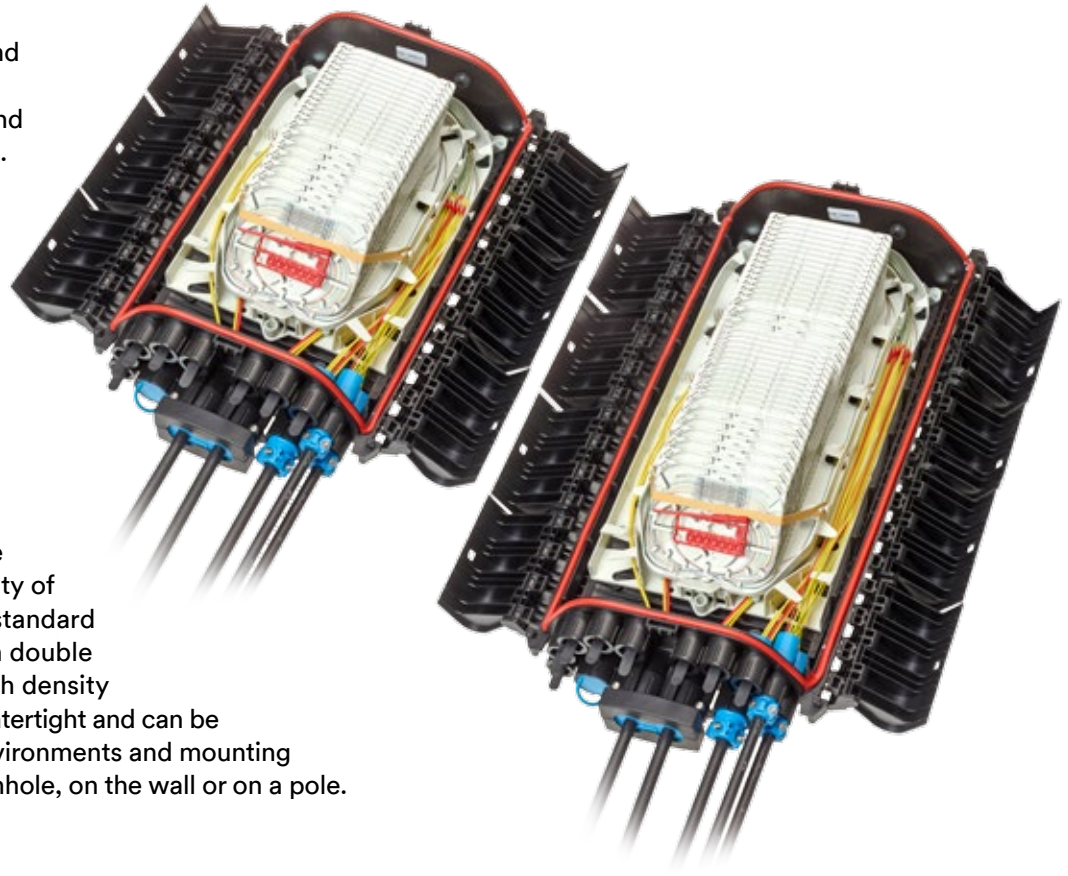
Two possible configurations

- 1 dual port for double ECAM **D18** and 2 single ports for ECAM **S12** and 25 single ports for ECAM **S7**
- or
- 1 dual port for 2 single ECAM **S12** and 2 single ports for ECAM **S12** and 25 single ports for ECAM **S7**

3M™ Fiber Closures BPEO Size 2 and 3

3M™ Fiber Closures BPEO Size 2 and Size 3 are high capacity closures designed for use within the trunk and feeder segments of a fiber network. The organizer in a 3M BPEO Size 2 closure can accommodate up to 28 splice trays (5 mm). It has a typical capacity of 336 fusion splices when using the standard density 5 mm tray. This amount can double when using G.657D fiber and the high density 5 mm tray.

The 3M BPEO Size 3 organizer contains 48 slot positions for splice trays (5 mm). It has a typical capacity of 576 fusion splices when using the standard density 5 mm tray. This amount can double when using G.657 fiber and the high density 5 mm tray. Both closure sizes are watertight and can be pressurized for applications in all environments and mounting locations either buried, within a manhole, on the wall or on a pole.



Specifications

General

Sealing: 7.2 PSI flast test
IP68
Impact test: 75 ft. - lbs.
Pull Force: Drop = 22.5 lbs.
Feeder = 225 lbs.

Dimensions overall in. (mm)

Size	Length	Width	Depth closure body	Depth with wall support	Depth with pole/wall support
2	20.5 (520)	13.4 (341)	5.9 (149)	6.0 (154)	7.0 (178)
3	26.0 (661)	13.4 (341)	5.9 (149)	6.0 (154)	7.0 (178)

Entry configurations

	CDP	EDP	FDP
Midspace entry (uncut)	yes	yes	yes
Storage of: Loose tube 3 mm / microstructure cable	yes yes	yes yes	yes yes

Capacity

Closure size	Max. number of slots for splice trays	Fusion splices in 10 mm tray (2 slots)	Fusion splices in 5 mm tray (1 slot, standard density for G.652D fiber)	Fusion splices in 5 mm tray (1 slot, high density for G.657 fiber)	3M™ Fibrlok™ Splice 2540G (6 ea in 5 mm tray / 12 ea in 10 mm tray)
BPEO Size 2	28	168	336	672	168
BPEO Size 3	48	288	576	1152	288

Cable Entry Configurations

3M BPEO Closures Sizes 2 and 3 are equipped with identical cable entry port configurations, are the same height but have different lengths and splice capacities.

Depending on the application and the cable diameters, three different entry port configurations are available with a combination of the following 3M™ External Cable Assembly Module (ECAM) kits:

- ECAM **S12** for cable diameters between 4 and 12mm
- ECAM **S18** for cable diameters between 5 and 18 mm
- ECAM **D20** for cable diameters between 5 and 20 mm
- ECAM **D27** for cable diameters between 5 and 27 mm

The dual entry port can be converted to two single ECAM Kits (next smaller size) if no uncut cable enters the closure. (end of span application) One or two single ECAMs can be used in place of the double ECAM as needed.



Single port for ECAM **S18**
(5 - 18 mm cable Ø)



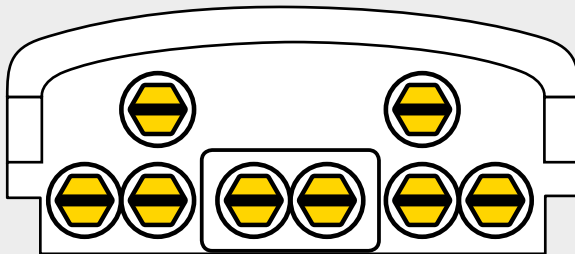
Single port for ECAM **S12**
(4-12 mm cable Ø)



Dual port for ECAM **D27**
(5 - 27 mm cable Ø)



Dual port for ECAM **D20**
(5 - 20 mm cable Ø)

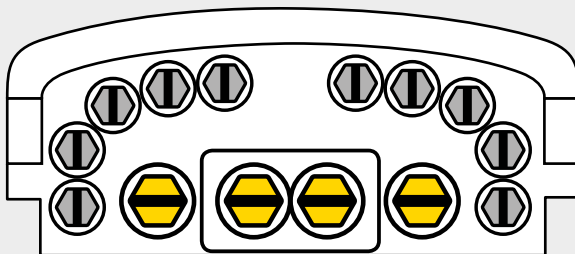


CDP (Cable Distribution Point)

(Fiber Distribution Hub for branch cables)

Two possible configurations

- 1 dual port for double ECAM **D27** and 6 single ports for ECAM **S18**
or
- 1 dual port for 2 single ECAM **S18** and 6 single ports for ECAM **S18**

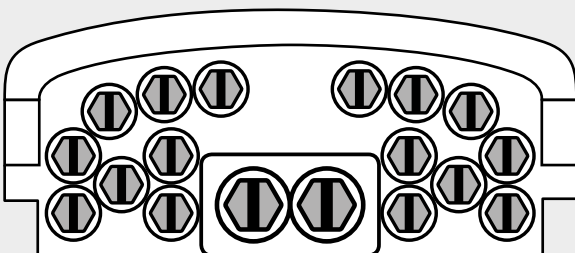


EDP (End Distribution Point)

(Fiber Distribution Hub for branch cables)

Two possible configurations

- 1 dual port for double ECAM **D27** and 2 single ports for ECAM **S18** and 10 single ports for ECAM **S12**
or
- 1 dual port for 2 single ECAM **S18** and 2 single ports for ECAM **S18** and 10 single ports for ECAM **S12**



BDP (Branch Distribution Point)

(Fiber Distribution Hub for branch cables)

Two possible configurations

- 1 dual port for double ECAM **D20** and 16 single ports for ECAM **S12**
or
- 1 dual port for 2 single ECAM **S12** and 16 single ports for ECAM **S12**

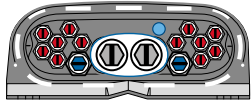
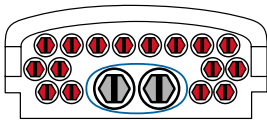
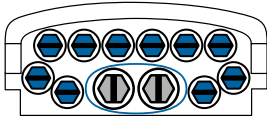
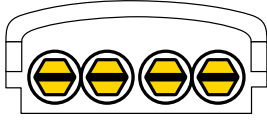
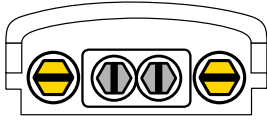
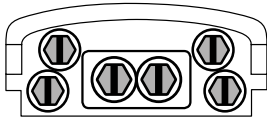
3M™ Fiber Closures BPEO Selection Guide

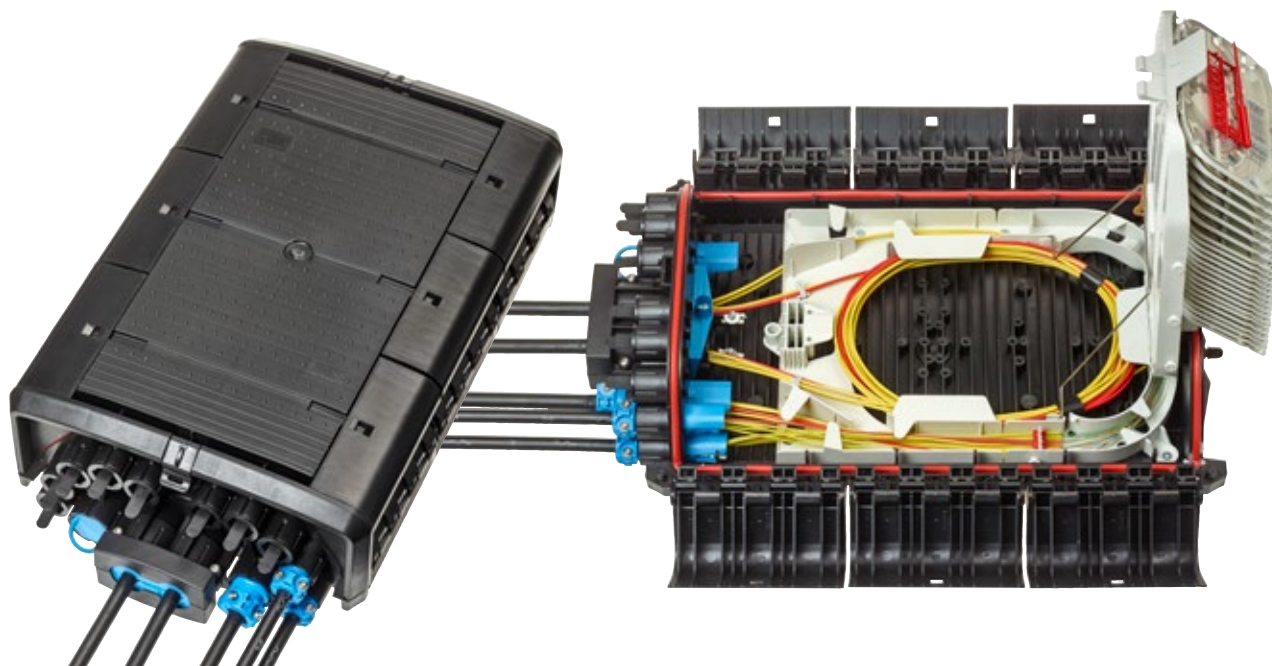
Closure/Terminal Bodies

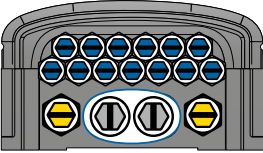
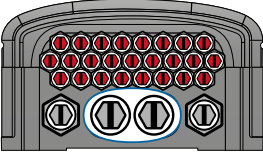
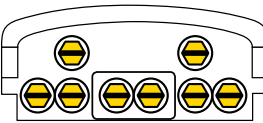
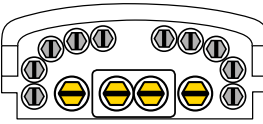
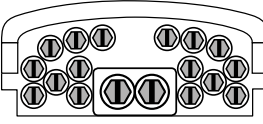
All 3M™ Fiber Closures BPEOs are delivered with:

- Closure body, cover with air valve (for flash test)
- Port plugs on all cable entry ports
- Installed fiber organizer complete with storage area for microstructure or loose tube (3 mm) cables

Splice trays, mounting brackets and 3M™ External Cable Assembly Modules are to be ordered separately.

Port Configuration	Description	3M ID
	3M™ Fiber Terminal Closure BPEO-S0-FDP-DROP Fiber Distribution Point for up to 12 drop cables and 2 branch cables Organizer holds up to 4 splice trays	FQ-1000-8222-8
	3M™ Fiber Terminal Closure BPEO-S1-FDP-DROP Fiber Distribution Point for up to 16 drop cables Organizer holds up to 12 splice trays	FQ-1000-8083-4
	3M™ Fiber Closure BPEO-S1-FDP-BRANCH Fiber Distribution Point for up to 10 drop cables Organizer holds up to 12 splice trays	UU-0015-0760-5
	3M™ Fiber Closure BPEO-S1-EOC End of Cable closure for up to 4 cables Organizer holds up to 12 splice trays	FQ-1000-6818-5
	3M™ Fiber Closure BPEO-S1-CDP Cable Distribution Point for 1 express and 2 branch cables Organizer holds up to 12 splice trays	FQ-1000-6819-3
	3M™ Fiber Closure BPEO-S1-EDP End Distribution Point for 1 express and 4 branch cables Organizer holds up to 12 splice trays	FQ-1000-6820-1



Port Configuration	Description	3M ID
	<p>3M™ Fiber Terminal Closure BPEO-S1.5-FDP-BRANCH Fiber Distribution Hun for up to 13 drop cables and 2 branch cables Organizer holds up to 12 splice trays</p>	UU-0049-7348-1
	<p>3M™ Fiber Terminal Closure BPEO-S1.5-FDP-DROP Fiber Distribution Point for up to 25 drop cables and 2 branch cables Organizer holds up to 12 splice trays</p>	UU-0077-4047-3
	<p>3M™ Fiber Closure BPEO-S2-CDP Cable Distribution Point for 1 express cable and 6 branch cables Organizer holds up to 28 splice trays</p> <p>3M™ Fiber Closure BPEO-S3-CDP Cable Distribution Point for 1 express cable and 6 branch cables Organizer holds up to 48 splice trays</p>	<p>FQ-1000-6822-7</p> <p>FQ-1000-6825-0</p>
	<p>3M™ Fiber Closure BPEO-S2-EDP End Distribution Point for up to 1 express cable and 12 branch cables Organizer holds up to 28 splice trays</p> <p>3M™ Fiber Closure BPEO-S3-EDP End Distribution Point for up to 1 express cable and 12 branch cables Organizer holds up to 48 splice trays</p>	<p>FQ-1000-6823-5</p> <p>FQ-1000-6826-8</p>
	<p>3M™ Fiber Closure BPEO-S2-BDP Branch Distribution Point for up to 1 express cable and 16 branch cables Organizer holds up to 28 splice trays</p> <p>3M™ Fiber Closure BPEO-S3-BDP Branch Distribution Point for up to 1 express cable and 16 branch cables Organizer holds up to 48 splice trays</p>	<p>FQ-1000-6824-3</p> <p>FQ-1000-6827-6</p>


3M™ BPEO Splice Trays Selection Guide

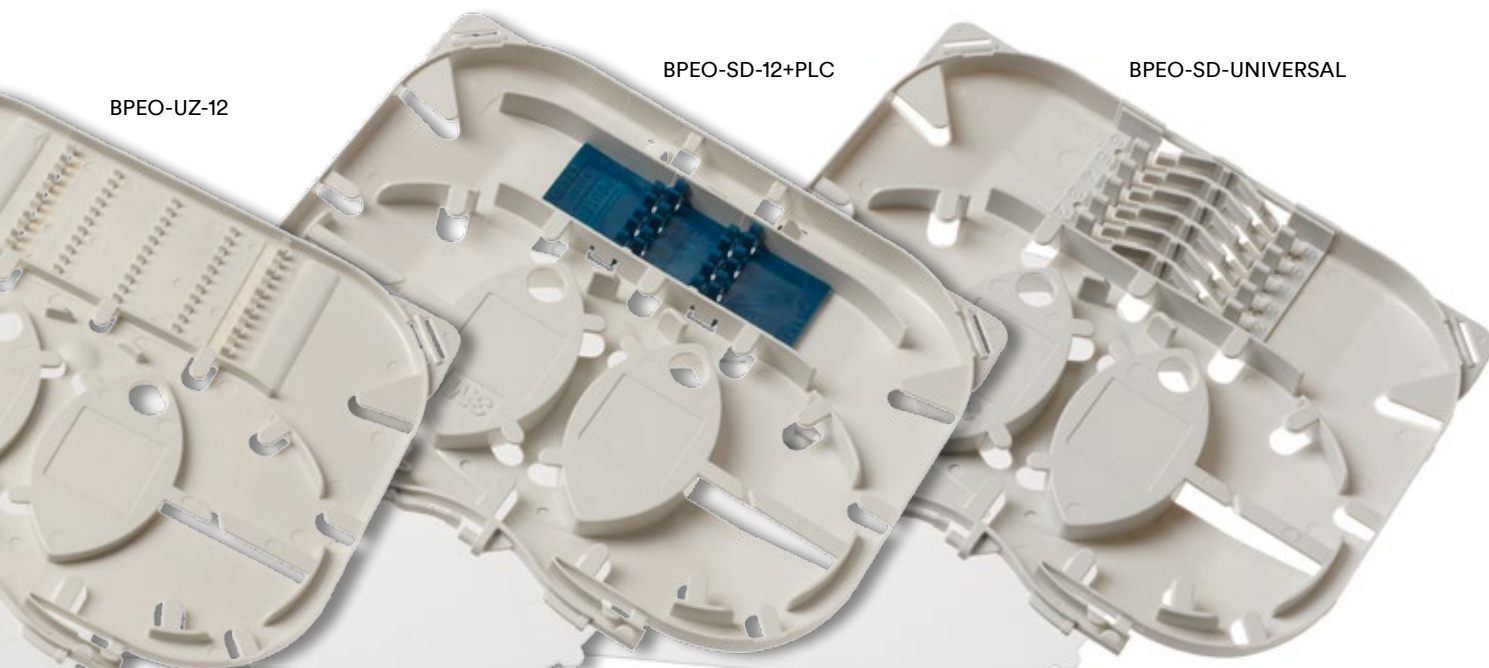
The type of splice technology used (fusion or mechanical) and whether 3M™ Planar Light Circuit (PLC) Splitters are required will help determine which 3M™ BPEO Splice Tray should be selected.

3M™ Compact Trays are 5 mm in height and occupy one slot in the fiber organizer. 3M™ Standard Trays are 10 mm in height and occupy two slots.

All 3M BPEO Splice Trays accept heat shrink fusion splice protectors of 2.4 mm O x 45 mm or 2.4 mm x 60 mm (after shrinkage).

For example, a 3M Fiber Closure BPEO Size 1 is equipped with a 12-slot fiber organizer. If using a 5 mm tray for 12 fusion splices, the total capacity of the closure will be 144 splices.

Tray	Description	3M ID
	3M™ Bi-zone Compact Trays (For G.657 Fiber)	
	BPEO-BZ-12 Can hold 12 fusion splices in 2 different zones (1×6 and 1×6)	FQ-1000-8375-4
	BPEO-BZ-16+PLC Can hold 16 fusion splices in 2 different zones (1×8 and 1×8) and 2 3M™ Planar Light Circuit (PLC) Splitters (4×4×40 mm or 4×4×50 mm)	N541241A
	BPEO-BZ-24 Can hold 24 fusion splices in 2 different zones (1×12 and 1×12)	N541238A
	3M™ Uni-zone Compact Trays (For G.652D fiber)	
	BPEO-UZ-12 Can hold 12 fusion splices (1×12)	FQ-1000-6828-4
	BPEO-UZ-1PLC Can hold one 3M PLC Splitter (4×4×40 mm or 4×4×50 mm) and 9 fusion splices (1×9)	FQ-1000-7426-6
	BPEO-UZ-2PLC Can hold two 3M PLC Splitters (4×4×40 mm or 4×4×50 mm) and 6 fusion splices (2×3)	FQ-1000-7947-1
	BPEO-UZ-1SHC Can hold one 3M™ Planar Light Circuit (PLC) Splitter SHC type (4×7×60 mm) and 8 fusion splices (1×8)	
BPEO-UZ-FIBRLOK Can hold 6 3M™ Fibrlok™ Splices 2540G (1×6)	FQ-1000-6831-8	



Tray	Description	3M ID
	3M™ High Density Standard Tray (For G.652D fiber)	
	BPEO-HD-24+PLC Can hold 24 fusion splices (3×8) and one 3M™ Planar Light Circuit (PLC) Splitter (4×4×40 mm or 4×4×50 mm or 4×7×50 mm)	FQ-1000-8055-2
	3M™ Standard Trays (For G.652D fiber)	
	BPEO-SD-12+PLC Can hold 12 fusion splices (2×6) and one 3M PLC Splitter (4×4×40 mm or 4×4×50 mm or 4×7×50 mm)	FQ-1000-6829-2
	BPEO-SD-UNIVERSAL Can hold any combination between: <ul style="list-style-type: none"> • 12 fusion splices • 12 3M™ Fibrlok™ Splices 2540G (2×6) • 6 × 3M™ Fibrlok™ Splices 2529 (1×6) • 12 × 3M PLC Splitter (4×4×40 mm or 4×4×50 mm or 4×7×50 mm) • 6 × 3M PLC Splitter (4×7×50 mm) 	FQ-1000-7437-3
	BPEO-SD-FIBRLOK Can hold 12 3M™ Fibrlok™ Splices 2540G (2×6) or six 3M Fibrlok Splices 2529 (1×6)	FQ-1000-6830-0
	BPEO-SD-FIBRLOK+ PLC Can hold 10 3M Fibrlok Splices 2540G (2×5) or 5 3M Fibrlok Splices 2529 (1×5) and one 3M PLC Splitter (4×4×40 mm or 4×4×50 mm or 4×7×50 mm)	FQ-1000-6832-6

3M™ External Cable Assembly Modules

3M™ External Cable Assembly Modules (ECAMs) are mechanical cable entry sealing kits for single ports or double ports (for uncut cable). The kits are supplied completely with assembly tool. Holders and anchors are supplied with the closure.





Type	Description	Quantity	3M ID	For use with these 3M™ Fiber Closures BPEO
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3M™ External Cable Assembly Modules (ECAMs) for double cable entries






	ECAM D18 Main Body for cables from 6 - 18 mm diameter	Box of 10 pcs	FQ-1000-8185-7	BPEO-S1.5-FDP-BRANCH
	ECAM D18 Double entry cable sealing kit for cables from 6 - 9 mm diameter	Box of 10 pcs	FQ-1000-8193-1	BPEO-S1.5-FDP-BRANCH
	ECAM D18 Double entry cable sealing kit for cables from 9 - 12 mm diameter	Box of 10 pcs	FQ-1000-8194-9	BPEO-S1.5-FDP-BRANCH
	ECAM D18 Double entry cable sealing kit for cables from 12 - 15 mm diameter	Box of 10 pcs	FQ-1000-8195-6	BPEO-S1.5-FDP-BRANCH
	ECAM D18 Double entry cable sealing kit for cables from 15 - 18 mm diameter	Box of 10 pcs	FQ-1000-8196-4	BPEO-S1.5-FDP-BRANCH
	ECAM D20 Double entry cable sealing for cables from 5 - 20 mm diameter	Individual Packaging	FQ-1000-7890-3	BPEO-S1-FDP-EDP BPEO-S1-FDP-CDP BPEO-S2/S3-BDP
	ECAM D27 Double entry cable sealing for cables from 5 - 27 mm diameter	Individual Packaging	FQ-1000-7891-1	BPEO-S2-EDP BPEO-S3-EDP BPEO-S2/S3-CDP

Type	Description	Quantity	3M ID	For use with these 3M™ Fiber Closures BPEO
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3M™ External Cable Assembly Modules (ECAMs) for single cable entries




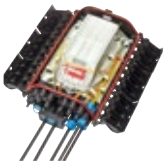

	ECAM S7 Single entry cable sealing for cables from 3 - 7 mm diameter	Individual Packaging Box of 100 pcs	UU-0030-3009-0 FQ-1000-8422-4	BPEO-S0-FDP-DROP BPEO-S1-FDP-DROP BPEO-S1.5-FDP-DROP
	ECAM S9.5 Single entry cable sealing for cables from 3.5 - 9.5 mm diameter	Individual Packaging Box of 60 pcs	UU-0030-2867-5 FQ-1000-8425-7	BPEO-S1-FDP-BRANCH BPEO-S1.5-FDP-BRANCH
	ECAM S12 Single entry cable sealing for cables from 4 - 12 mm diameter	Individual Packaging	FQ-1000-8355-6	BPEO-S1-FDP-DROP BPEO-S1-EDP BPEO-S1-CDP BPEO-S1.5-FDP-DROP BPEO-S1.5-FDP-BRANCH BPEO-S2/S3-EDP BPEO-S2/S3-BDP
	ECAM S18 Single entry cable sealing for cables from 5 - 18 mm diameter	Individual Packaging	FQ-1000-7956-2	BPEO-S1-EOC BPEO-S1-CDP BPEO-S1.5-FDP-BRANCH BPEO-S2/S3-EDP BPEO-S2/S3-CDP

Mounting Brackets

Type	Description	Quantity	3M ID	Application
	Wall/pole plastic bracket for use with 3M™ Fiber Closures BPEO Size 1 and Size 1.5	1 Pair	UU-0040-1874-1	Pole
	Wall/pole plastic bracket for use with 3M Fiber Closures BPEO Size 1 and Size 1.5	1 Pair	FQ-1000-7590-9	Wall/Manhole
	Wall/pole plastic bracket for use with 3M™ Fiber Closures BPEO Size 2 and Size 3	1 Pair	FQ-1000-7591-7	Wall/Manhole
	Wall/pole metal bracket for use with 3M Fiber Closures BPEO Size 1 and Size 1.5 (compatible with grounding kit)	1 Pair	FQ-1000-6834-2	Pole/Wall/Manhole
	Wall/pole metal bracket for use with 3M Fiber Closures BPEO Size 2 and Size 3 (compatible with grounding kit)	1 Pair	FQ-1000-68367	Pole/Wall/Manhole
	BPEO grounding kit set 4 cables (Applicable only if closure is fixed by wall/pole metal bracket)	1 Kit	FQ-1000-5144-7	Grounding tonable cable

Configuration Table for 3M™ Fiber Closures BPEO

3M ID for 3M™ Fiber Closures BPEO	Type of 3M™ Fiber Closure BPEO	3M ID for applicable 3M™ External Cable Assembly Modules (ECAMs)	Number of cable entries (max.)	Compatible cable entries	Compatible splice trays
FQ-1000-8222-8	BPEO-S0-FDP-DROP 4 SLOTS	FQ-1000-8463-8 FQ-1000-8464-6 FQ-1000-8185-7 FQ-1000-8193-1 FQ-1000-8194-9 FQ-1000-8195-6 FQ-1000-8196-4 FQ-1000-8422-4 or UU-0030-3009-0 FQ-1000-8425-7 or UU-0030-2867-5	1 1 1 1 1 1 1 12 2	Body Double ECAM D18 (from 4 to 6 mm) Cable Entry Kit for D18 (from 4 to 6 mm) Body Double ECAM D18 (from 6 to 18 mm) Cable Entry Kit for D18 (from 6 to 9 mm) Cable Entry Kit for D18 (from 9 to 12 mm) Cable Entry Kit for D18 (from 12 to 15 mm) Cable Entry Kit for D18 (from 15 to 18 mm) Single ECAM S7 (from 3 to 7 mm) Single ECAM S9.5 (from 3.5 to 9.5 mm)	All cassette types
FQ-1000-6818-5	BPEO-S1-EOC 12 SLOTS	FQ-1000-8425-7 A	4	Single ECAM S18 (from 5 to 18 mm)	All cassette types
FQ-1000-6819-3	BPEO-S1-CDP 12 SLOTS	FQ-1000-7890-3 FQ-1000-8425-7	1 2	Double ECAM D20 (from 5 to 20 mm) Single ECAM S18 (from 5 to 18 mm)	All cassette types
FQ-1000-6820-1	BPEO-S1-EDP 12 SLOTS	FQ-1000-7890-3 FQ-1000-8355-6	1 4	Double ECAM D20 (from 5 to 20 mm) Single ECAM S12 (from 4 to 12 mm)	All cassette types
UU-0015-0760-5	BPEO-S1-FDP-BRANCH 12 SLOTS	FQ-1000-8463-8 FQ-1000-8464-6 FQ-1000-8185-7 FQ-1000-8193-1 FQ-1000-8194-9 FQ-1000-8195-6 FQ-1000-7890-3 FQ-1000-8425-7 or UU-0030-2867-5	1 1 1 1 1 1 1 10	Body Double ECAM D18 (from 4 to 6 mm) Cable Entry Kit for D18 (from 4 to 6 mm) Body Double ECAM D18 (from 6 to 18 mm) Cable Entry Kit for D18 (from 6 to 9 mm) Cable Entry Kit for D18 (from 9 to 12 mm) Cable Entry Kit for D18 (from 12 to 15 mm) Cable Entry Kit for D18 (from 15 to 18 mm) Single ECAM S9.5 (from 3.5 to 9.5 mm)	All cassette types
FQ-1000-8083-4	BPEO-S0-FDP-DROP 12 SLOTS	FQ-1000-8463-8 FQ-1000-8464-6 FQ-1000-8185-7 FQ-1000-8193-1 FQ-1000-8194-9 FQ-1000-8195-6 FQ-1000-7890-3 FQ-1000-8422-4 or UU-0030-3009-0	1 1 1 1 1 1 1 16	Body Double ECAM D18 (from 4 to 6 mm) Cable Entry Kit for D18 (from 4 to 6 mm) Body Double ECAM D18 (from 6 to 18 mm) Cable Entry Kit for D18 (from 6 to 9 mm) Cable Entry Kit for D18 (from 9 to 12 mm) Cable Entry Kit for D18 (from 12 to 15 mm) Cable Entry Kit for D18 (from 15 to 18 mm) Single ECAM S7 (from 3 to 7 mm)	All cassette types
UU-0049-7348-1	BPEO-S1.5-FDP-BRANCH 12 SLOTS	FQ-1000-8463-8 FQ-1000-8464-6 FQ-1000-8185-7 FQ-1000-8193-1 FQ-1000-8194-9 FQ-1000-8195-6 FQ-1000-7890-3 FQ-1000-8425-7 or UU-0030-2867-5 FQ-1000-8425-7	1 1 1 1 1 1 1 13 2	Body Double ECAM D18 (from 4 to 6 mm) Cable Entry Kit for D18 (from 4 to 6 mm) Body Double ECAM D18 (from 6 to 18 mm) Cable Entry Kit for D18 (from 6 to 9 mm) Cable Entry Kit for D18 (from 9 to 12 mm) Cable Entry Kit for D18 (from 12 to 15 mm) Cable Entry Kit for D18 (from 15 to 18 mm) Single ECAM S9.5 (from 3.5 to 9.5 mm) Single ECAM S18 (from 5 to 18 mm)	All cassette types
UU-0077-4047-3	BPEO-S1.5-FDP-DROP 12 SLOTS	FQ-1000-8463-8 FQ-1000-8464-6 FQ-1000-8185-7 FQ-1000-8193-1 FQ-1000-8194-9 FQ-1000-8195-6 FQ-1000-7890-3 FQ-1000-8422-4 or UU-0030-3009-0 FQ-1000-8355-6	1 1 1 1 1 1 1 25 2	Body Double ECAM D18 (from 4 to 6 mm) Cable Entry Kit for D18 (from 4 to 6 mm) Body Double ECAM D18 (from 6 to 18 mm) Cable Entry Kit for D18 (from 6 to 9 mm) Cable Entry Kit for D18 (from 9 to 12 mm) Cable Entry Kit for D18 (from 12 to 15 mm) Cable Entry Kit for D18 (from 15 to 18 mm) Single ECAM S7 (from 3 to 7 mm) Single ECAM S12 (from 4 to 12 mm)	All cassette types
FQ-1000-6822-7	BPEO-S2-CDP 28 SLOTS	FQ-1000-7891-1 FQ-1000-8425-7	1 6	Double ECAM D27 (from 5 to 27 mm) Single ECAM S18 (from 5 to 18 mm)	All cassette types
FQ-1000-6823-5	BPEO-S2-EDP 28 SLOTS	FQ-1000-7891-1 N721126A or N721198A FQ-1000-8425-7	1 10 2	Double ECAM D27 (from 5 to 27 mm) Single ECAM S12 (from 4 to 12 mm) Single ECAM S18 (from 5 to 18 mm)	All cassette types
FQ-1000-6824-3	BPEO-S2-BDP 28 SLOTS	FQ-1000-7890-3 FQ-1000-8355-6	1 16	Double ECAM D20 (from 5 to 20 mm) Single ECAM S12 (from 4 to 12 mm)	All cassette types
FQ-1000-6825-0	BPEO-S3-CDP 48 SLOTS	FQ-1000-7891-1 FQ-1000-8425-7	1 6	Double ECAM D27 (from 5 to 27 mm) Single ECAM S18 (from 5 to 18 mm)	All cassette types
FQ-1000-6826-8	BPEO-S3-EDP 48 SLOTS	FQ-1000-7891-1 N721126A or N721198A FQ-1000-8425-7	1 10 2	Double ECAM D27 (from 5 to 27 mm) Single ECAM S12 (from 4 to 12 mm) Single ECAM S18 (from 5 to 18 mm)	All cassette types
FQ-1000-6827-6	BPEO-S3-BDP 48 SLOTS	FQ-1000-7890-3 FQ-1000-8355-6	1 16	Double ECAM D20 (from 5 to 20 mm) Single ECAM S12 (from 4 to 12 mm)	All cassette types

Number of splice trays (max.)	3M ID for compatible wall- or pole mount bracket	
4 x cassettes 1 Slot 2 x cassettes 2 Slots	Support integrated in the closure body (Wall/pole)	
12 x cassettes 1 Slot 6 x cassettes 2 Slots	FQ-1000-7590-9 (Wall) UU-0040-1874-1 (Pole)	
12 x cassettes 1 Slot 6 x cassettes 2 Slots	FQ-1000-7590-9 (Wall) UU-0040-1874-1 (Pole)	
12 x cassettes 1 Slot 6 x cassettes 2 Slots	FQ-1000-7590-9 (Wall) UU-0040-1874-1 (Pole)	
12 x cassettes 1 Slot 6 x cassettes 2 Slots	FQ-1000-7590-9 (Wall) UU-0040-1874-1 (Pole)	
12 x cassettes 1 Slot 6 x cassettes 2 Slots	FQ-1000-7590-9 (Wall) UU-0040-1874-1 (Pole)	
12 x cassettes 1 Slot 6 x cassettes 2 Slots	Support integrated in the closure body (Wall) UU-0040-1874-1 (Pole)	
12 x cassettes 1 Slot 6 x cassettes 2 Slots	Support integrated in the closure body (Wall) UU-0040-1874-1 (Pole)	
28 x cassettes 1 Slot 14 x cassettes 2 Slots	FQ-1000-7962-0	
28 x cassettes 1 Slot 14 x cassettes 2 Slots	FQ-1000-7962-0	
28 x cassettes 1 Slot 14 x cassettes 2 Slots	FQ-1000-7962-0	
48 x cassettes 1 Slot 24 x cassettes 2 Slots	FQ-1000-7962-0	
48 x cassettes 1 Slot 24 x cassettes 2 Slots	FQ-1000-7962-0	
48 x cassettes 1 Slot 24 x cassettes 2 Slots	FQ-1000-7962-0	

3M™ External Cable Assembly Module Dual/Single Cross Reference

A double entry port can either host 1 dual ECAM or 2 single ECAMs		
1 x Dual Closure Entry Port D27	1 x Double ECAM D27	2 x Single ECAM S18
1 x Dual Closure Entry Port D20	1 x Double ECAM D20	2 x Single ECAM S12
1 x Dual Closure Entry Port D18	1 x Double ECAM D18	2 x Single ECAM S12

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