



Indoor Fibre Entrance Box (IFEB)

EMEA

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COMMSCOPE®

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Today's MDU FTTP requires flexible OSP-to-ISP connectivity

Across Europe, broadband network operators are under constant pressure to deploy more fibre connections in less time and for lower cost, especially when it comes to the last mile. Among the various last mile uses cases, multi-dwelling units (MDUs) are an especially attractive and profitable opportunity for multiple system operators (MSOs).

Leveraging this opportunity requires the right building entrance points (BEPs) to connect the outdoor fibre to the distribution cable inside the building. Every MDU deployment has unique characteristics and requirements, meaning the BEP must be able to adapt to provide a best-fit solution for any environment:

- Sized to fit the installation site, especially in space-constrained areas.
- Multiple fibre connections, connector types, port densities and connectivity options.
- The right signal distribution technologies: GPON, EPON, point-to-point, etc.
- On-board functionality, including splice, patch capabilities, slack/tools storage, etc.

CommScope Indoor Fibre Entry Box™ solutions

The CommScope family of Indoor Fibre Entry Box™ (IFEB) solutions provides MSOs and installers a broad and customisable portfolio that meets the size, capacity and functional requirements for most small and medium-sized MDUs. The IFEB product family consists of five different

wall-mounted, indoor fibre connection boxes, each available in three different layouts. Together, they satisfy a broad range of capacity requirements, from four connections per box to solutions that support nearly 100 dwelling units. The IFEB portfolio supports the most common network layouts: point-to-point, central splits and distributed splits.

The five available sizes, including a new, more compact high-density solution, can be configured for splice-only, splice/patch or preterminated/patch. Installers can directly splice a feeder and drop cable, connect pigtails to the drop and feeder cables to enable patching, or use a pre-connectorised drop cable patched to a feeder cable with a connected pigtail to enable patching.

All IFEB solutions are built on a common framework, giving installation crews a familiar and repeatable platform for nearly all MDU deployments. For example, the IFEB portfolio takes advantage of the widely popular CommScope NOVUX® FTTX ecosystem and its simplified modular design. Meanwhile, its universal, modular and stackable rubber seal accommodates all drop cables and offers two feeder cable seal designs (15 mm and 20 mm) for each size box.



Today's MDU FTTP requires flexible OSP-to-ISP connectivity

Leveraging next-generation fibre tray designs, the IFEB family supports or exceeds the most recent industry standards for fibre management. Sealing and cable fixation are optimised for indoor use, enabling operators to support higher density, higher capacity applications with a smaller-sized solution. This reduces space requirements for installation, cost per connection and the carbon footprint per connection. Eco-friendly multi-pack packaging, available with smaller IFEB boxes, helps further lower environmental impact.

With the CommScope global manufacturing and distribution network, regional supply chain and local support, customers can rely on consistent product availability and responsive technical/customer support. The net results are faster, more efficient FTTP deployments, reduced maintenance, lower installation costs, reduced size, improved density and a smaller carbon footprint.

Readily available across the EMEA region, the CommScope IFEB portfolio enables MSOs and their installers to address indoor splicing, patching and retention challenges for small and mid-sized MDU projects, today and tomorrow.

Specifications

The CommScope IFEB family of building entrance boxes is designed to meet the Category C Enclosure spec, indoor controlled environment as stipulated by IEC 61753-1 Ed.2:

- Operating temperature: -10°C to $+60^{\circ}\text{C}$
- Installation temperature range: -5°C to $+45^{\circ}\text{C}$
- Relative humidity: 5% RH to 93% RH
- Weather protected, partly temperature-controlled locations
- UL-V0 certified
- LSZH compliant to IEC 61249-2-21

This means that these products are typically used within a house, a building, an office, a cellar, or an equipment room for telecommunication, not subjected to condensed water.

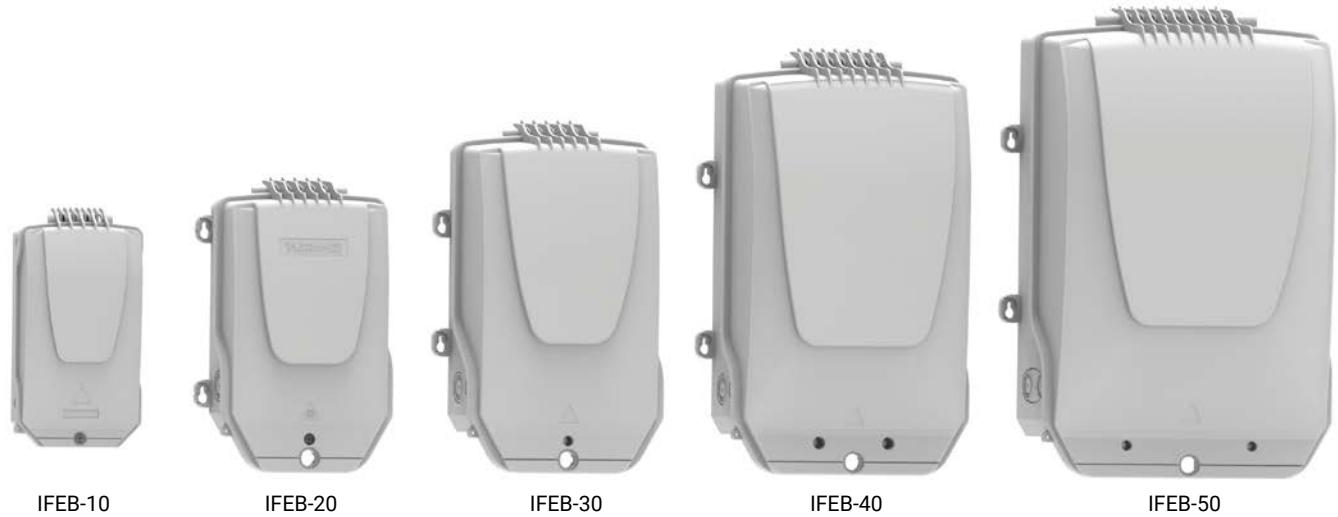
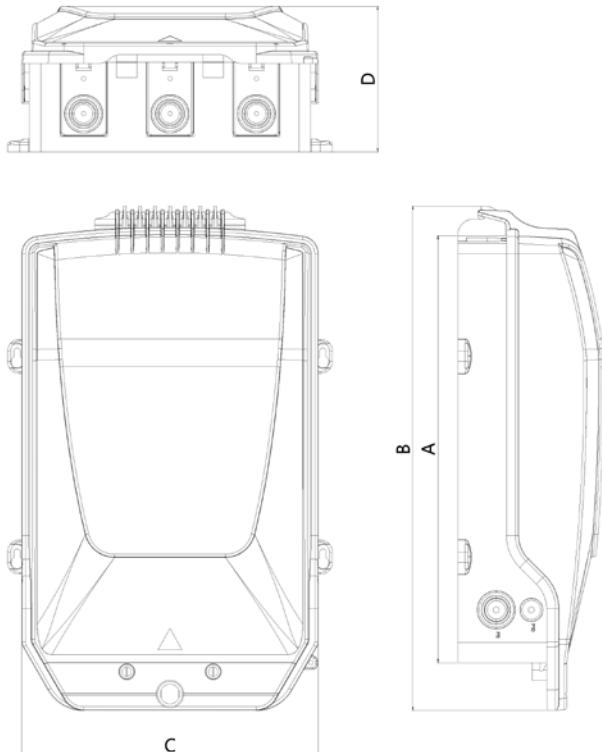
The IFEB housing color is Pure White RAL 9010.

The product can be categorised as IP54, which is better than what is required by IEC 61753-1 Ed.2 (requiring IP3x).

- The product is not suitable for unprotected outdoor use:
 - No full load of sunlight unless positioned behind a window
 - Mechanically the product performs to indoor specs:
 - Impact: 1 kg mass, 0.2 mtr (approx. IK04)
 - Fibre cable retention: 25 N per cable $> \varnothing 3.0$ mm, 1.5 N $< \varnothing 3.0$ mm

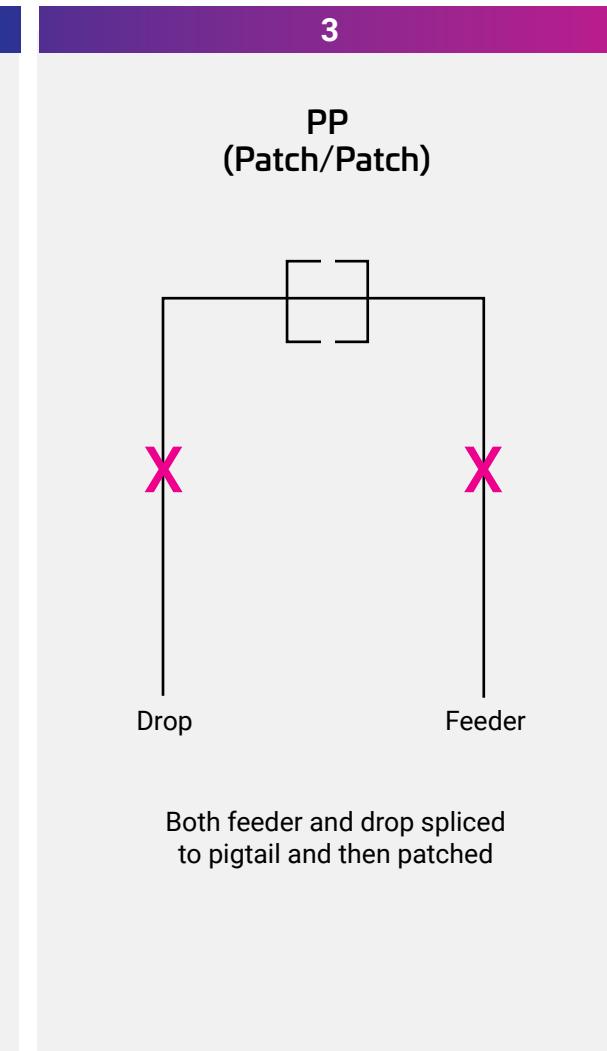
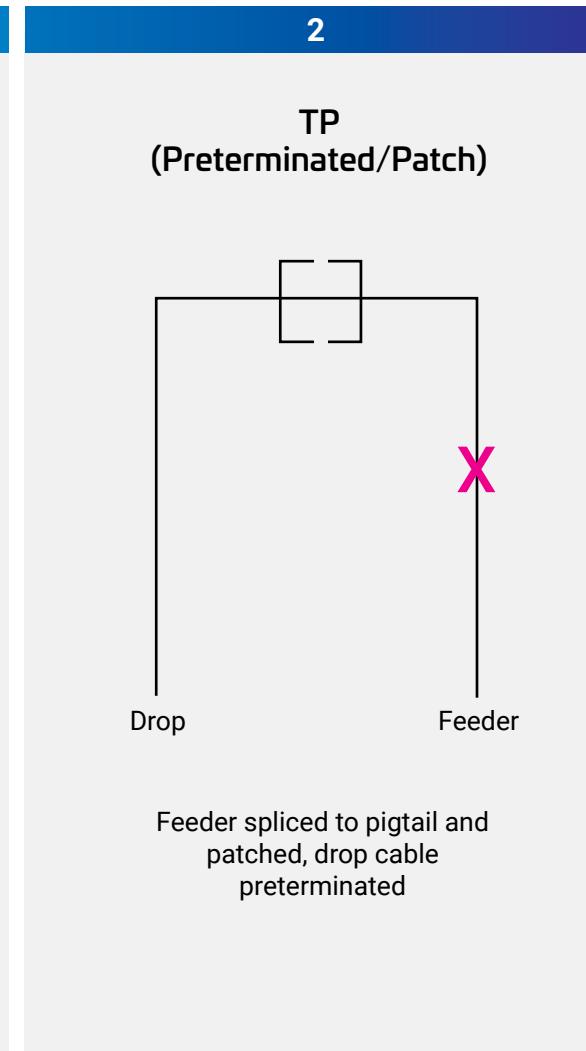
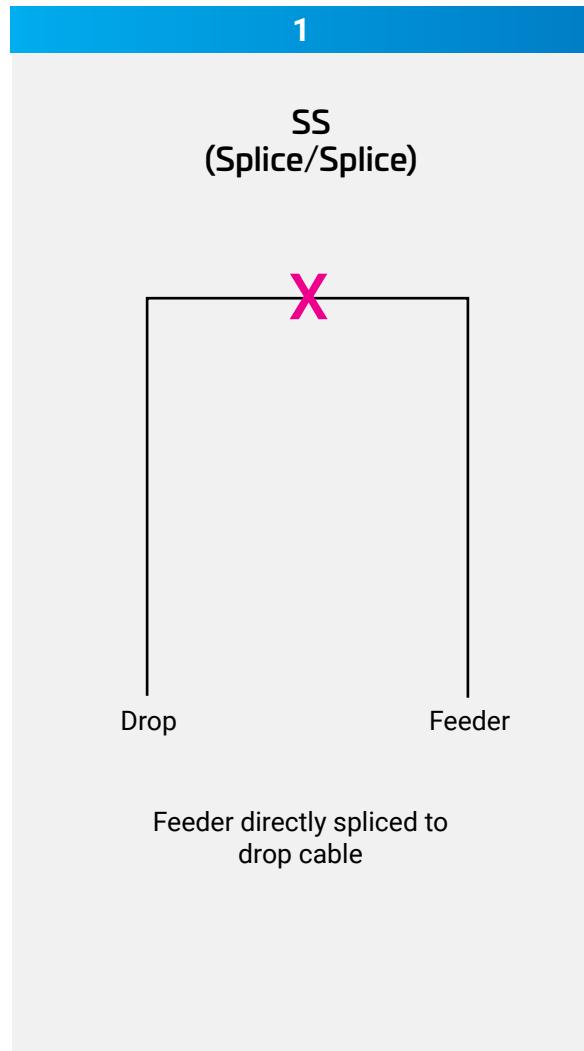
Indoor Fibre Entrance Box

Outer dimensions



Size	IFEB-10	IFEB-20	IFEB-30	IFEB-40	IFEB-50
A: Height box (mm)	260	274	340	425	480
B: Height cover (mm)	285	349	420	500	550
C: Width (mm)	155	213	240	295	360
D: Depth (mm)	60	87	120	145	175

Three main IFEB layouts



Description key

Ordering information

IFEB-

Housing	
10	Extra small
20	Small
30	Medium
40	Large
50	Extra large

Type	
SS	Spliced
TP	Preterminated/patched
PP	Patched/patched

Connector type	
NN	None
S1	SC/UPC
S2	SC/APC
L1	LC/UPC
L2	LC/APC

Max number of connectors/drops

IFEB	10	20	30	40	50	
Connector	SC	LC duplex	SC	LC duplex	SC	LC duplex
IFEB type	TP	TP	TP & PP	TP & PP	TP & PP	PP
Number of adaptors						
000						
004	4					
006	6					
008	8	4				
012		6				
016		8	16			
032				16		
024					24	
036						36
048					24	
072						36
096						24

⁽¹⁾ SLE tray with SMOUV: bend radius below 25 mm

⁽²⁾ IFEB10

⁽³⁾ IFEB20

⁽⁴⁾ IFEB30 and IFEB40

⁽⁵⁾ IFEB50

⁽⁶⁾ Not available on IFEB10

⁽⁷⁾ IFEB10 and IFEB20 only

Accessories	
N	None
L ⁽⁶⁾	Lock

Cable seal 1

N	None
A ⁽²⁾	Main seal
B ⁽²⁾	4 x 7 mm
C ⁽²⁾	12 x 5 mm
D ⁽³⁾	2 x 15 mm
E ⁽³⁾	1 x 19 mm
F ⁽³⁾	16 x 7 mm
G ⁽⁴⁾	4 x 15 mm
H ⁽⁴⁾	2 x 19 mm
J ⁽⁴⁾	24 x 7 mm
K ⁽⁵⁾	6 x 15 mm
L ⁽⁵⁾	3 x 19 mm
M ⁽⁵⁾	32 x 7 mm

Cable seal 2

N	None
B ⁽²⁾	4 x 7 mm
C ⁽²⁾	12 x 5 mm
D ⁽³⁾	2 x 15 mm
E ⁽³⁾	1 x 19 mm
F ⁽³⁾	16 x 7 mm
G ⁽⁴⁾	4 x 15 mm
H ⁽⁴⁾	2 x 19 mm
J ⁽⁴⁾	24 x 7 mm
K ⁽⁵⁾	6 x 15 mm
L ⁽⁵⁾	3 x 19 mm
M ⁽⁵⁾	32 x 7 mm

Cable seal 3

N	None
G ⁽⁴⁾	4 x 15 mm
H ⁽⁴⁾	2 x 19 mm
J ⁽⁴⁾	24 x 7 mm
K ⁽⁵⁾	6 x 15 mm
L ⁽⁵⁾	3 x 19 mm
M ⁽⁵⁾	32 x 7 mm

Cable seal 4

N	None
K ⁽⁵⁾	6 x 15 mm
L ⁽⁵⁾	3 x 19 mm
M ⁽⁵⁾	32 x 7 mm

Number of splice trays

IFEB	Splice Only (SS)		Terminal Patch (TP)		Patch/Patch (PP)	
	SE	SC/SLE	SE	SC/SLE	SE	SC/SLE
10	03	06	01	02	01	02
20	06	12	04	08	04	08
30	14	28	06	12	06	12
40	18	36	12	24	12	24
50	22	44				

Splice holder

N	None
S	SMOUV
A	ANT

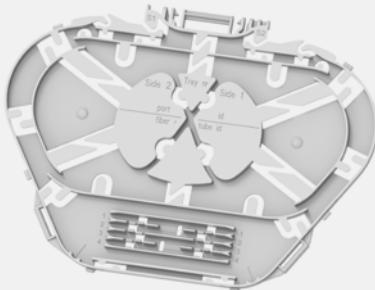
Tray type

N	None
A	SC – Single circuit (4f)
B	SE – Single element (12f)
C	SLE – Single element slim (12f) ⁽¹⁾

IFEB trays

Single Circuit Trays

4 fibres per tray – 4 mm



4 SMOUV (SC) - AxxS (*)

760261197 IFEB-TRAY-04S45-4H-(04)



4 ANT (SC) - AxxA (*)

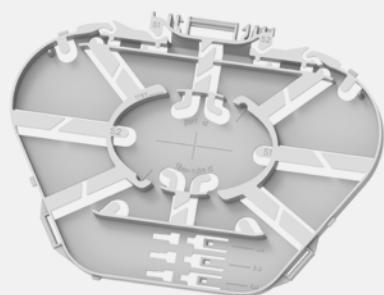
760261198 IFEB-TRAY-04ANT-4H-(04)

(*) xx = number of trays

(**) = SLE tray with SMOUV, bend radius below 25 mm

Single Element Trays

12 fibres per tray – 8 mm



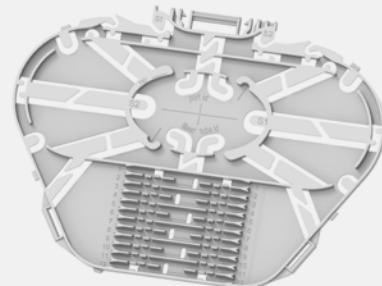
3 dovetail positions (SE)

BxxA (*) or BxxS (*) depending on added holder

760261199 IFEB-TRAY-03DOV-8H-(04)

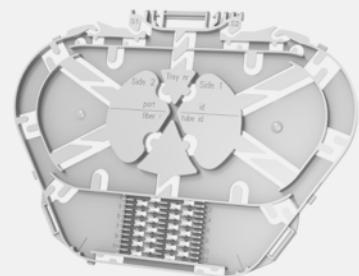
Slim Element Trays

12 fibres per tray – 4 mm



12 SMOUV (SLE) - CxxS (*) ()**

760261195 IFEB-TRAY-12S45-4H-(04)



12 ANT (SLE) - CxxA (*)

760261196 IFEB-TRAY-12ANT-4H-(04)

IFEB splice version—SS

In this version drop cables are directly spliced to the feeder cable.



Splice capacity	Tray type	Max number of splices per tray	IFEB-10SS		IFEB-20SS		IFEB-30SS		IFEB-40SS		IFEB-50SS	
			Max number of trays	Max number of splices	Max number of trays	Max number of splices	Max number of trays	Max number of splices	Max number of trays	Max number of splices	Max number of trays	Max number of splices
With SC tray	A	4	6	24	12	48	28	112	36	144	44	176
With SE tray	B	12	3	36	6	72	14	168	18	216	22	264
With SLE tray	C	12	6	72	12	144	28	336	36	432	44	528
Loop storage available			No		Yes ⁽¹⁾⁽²⁾		Yes ⁽¹⁾		Yes ⁽¹⁾		Yes ⁽¹⁾	

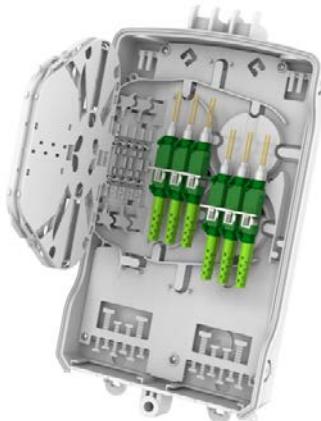
⁽¹⁾ Sold as accessory

⁽²⁾ Microsheath loop only behind the tower

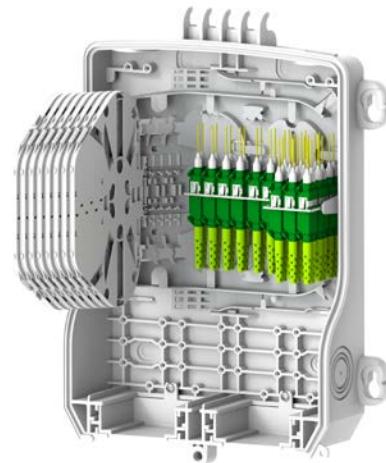
IFEB preterminated/patch version—TP

In this version drop cables are pre-connectorised, whilst the main cable fibres are spliced to pigtailed. Mating is done on the patch panel.

IFEB-10TP



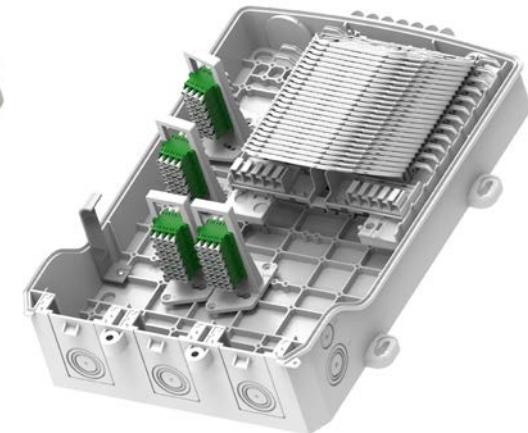
IFEB-20TP



IFEB-30TP



IFEB-40TP



NOTE: FEB-50TP available upon request

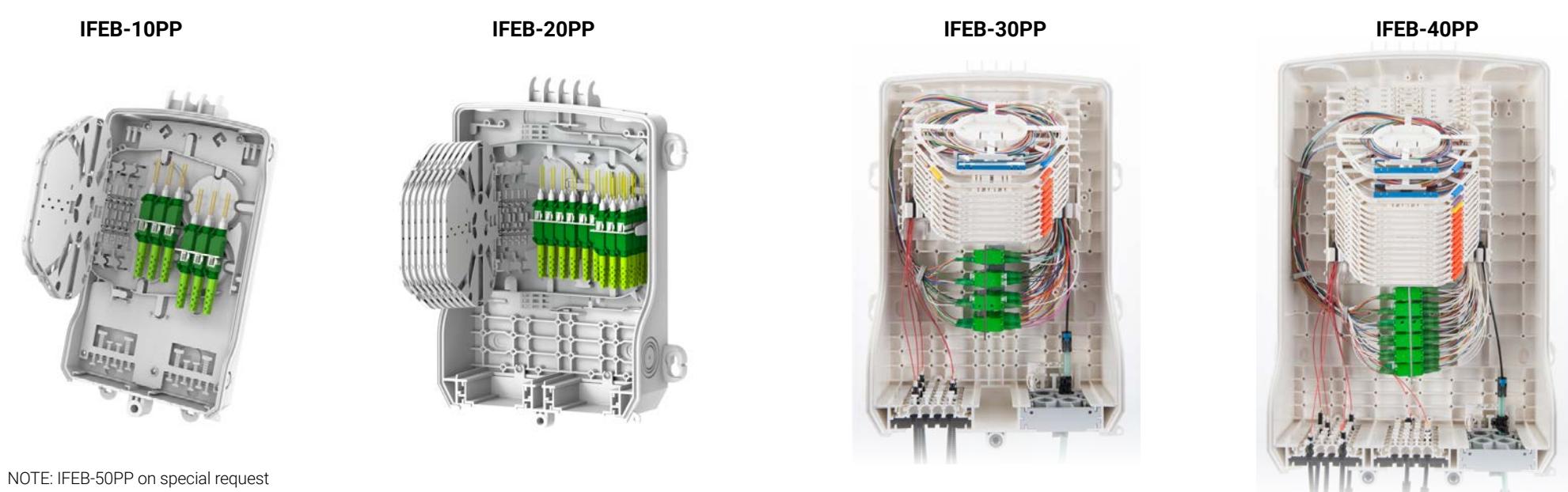
Splice capacity	Tray type	Max number of splices per tray	IFEB-10TP		IFEB-20TP		IFEB-30TP		IFEB-40TP	
			Max number of trays	Max number of splices	Max number of trays	Max number of splices	Max number of trays	Max number of splices	Max number of trays	Max number of splices
Splice capacity SC tray	A	4	2	8	8	32	12	48	24	96
Splice capacity SE tray	B	12	1	12	4	48	6	72	12	144
Splice capacity SLE tray	C	12	2	24	8	96	12	144	24	288
Loop storage			No		Yes ⁽¹⁾⁽²⁾		Yes ⁽¹⁾		Yes ⁽¹⁾	
SC ports			8 SC Simplex = 8 connections		16 SC Simplex = 16 connections		24 SC Simplex = 24 connections		24 SC Duplex = 48 connections	
LC ports			6 LC Duplex = 12 Connections		16 LC Duplex = 32 Connections		24 LC Duplex = 48 connections		24 LC Quad = 96 connections	

⁽¹⁾ Sold as accessory

⁽²⁾ Microsheath loop only behind the tower

IFEB patch/patch version—PP

In this version drop cables and the main cable fibres are spliced to pigtailed. Connectorisation is done on the patch panel.



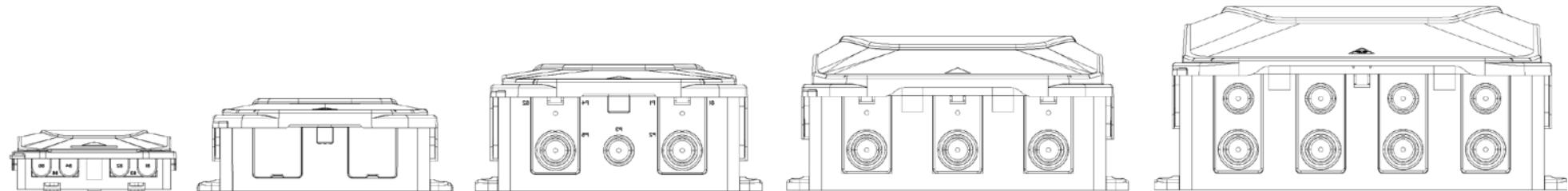
NOTE: IFEB-50PP on special request

Splice capacity	Tray type	Max number of splices per tray	IFEB-10PP		IFEB-20PP		IFEB-30PP		IFEB-40PP	
			Max number of trays	Max number of trays	Max number of trays	Max number of trays	Max number of trays	Max number of trays	Max number of trays	Max number of trays
Splice capacity SC tray	A	4	2	8	8	32	12	48	24	96
Splice capacity SE tray	B	12	1	12	4	48	6	72	12	144
Splice capacity SLE tray	C	12	2	24	8	96	12	144	24	288
Loop storage			No		Yes ⁽¹⁾⁽²⁾		Yes ⁽¹⁾		Yes ⁽¹⁾	
SC ports			8 SC Simplex = 8 connections		16 SC Simplex = 16 connections		24 SC Simplex = 24 connections		36 SC Simplex = 36 connections	
LC ports			6 LC Duplex = 12 Connections		16 LC Duplex = 32 Connections		24 LC Duplex = 48 connections		36 LC Duplex = 72 connections	

⁽¹⁾ Sold as accessory

⁽²⁾ Microsheath loop only behind the tower

Cable entry ports

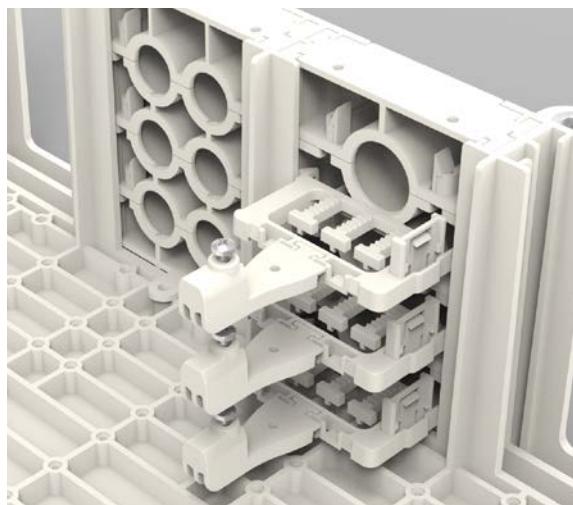
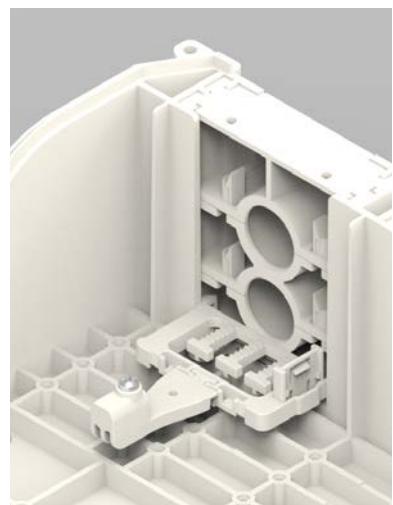
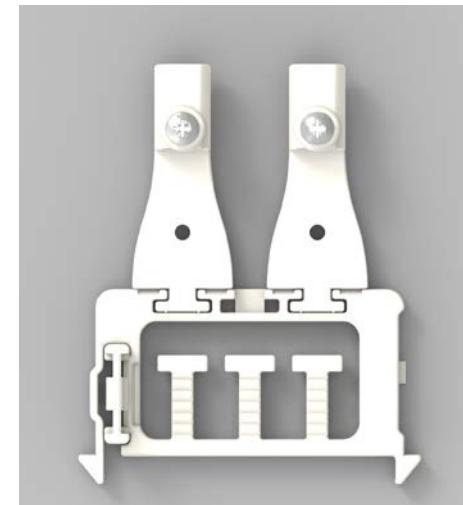
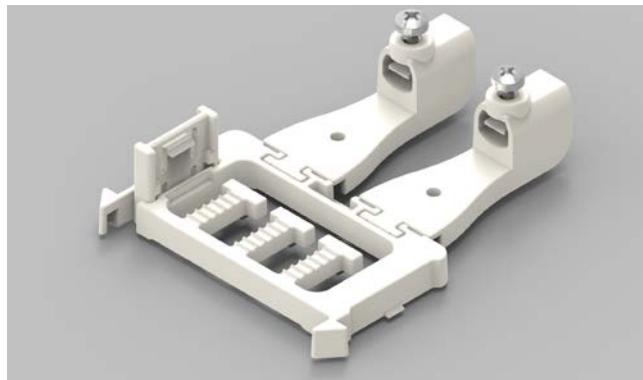
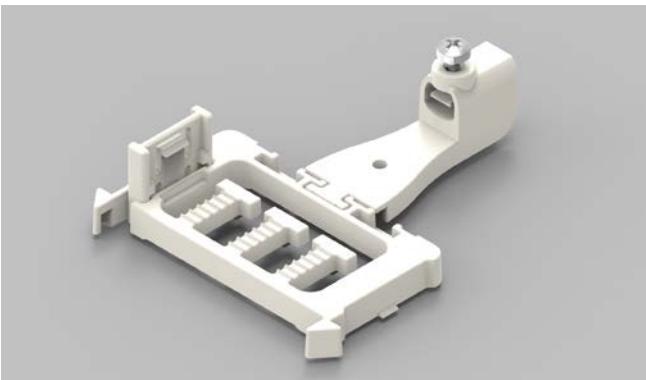


	IFEB-10	IFEB-20	IFEB-30	IFEB-40	IFEB-50
Number of port blocks	2 entry and 1 exit port	2 ports	2 ports	3 ports	4 ports
Main cable port: Number of cable layers per port		1 layer	2 layers	2 layers	3 layers
Drop port number of layers^(*)		1 drop port with 4 layers of 4 drops = 16 drops max	1 drop port with 6 layers of 4 drops = 24 drops max	2 drop port with 6 layers of 4 drops = 48 drops max	3 ports with 8 layers of 4 drops = 96 drops max

^(*) If the drop cable diameter is below 3 mm, two cables instead of one can be dropped per exit, doubling the capacity

Cable retention unit for the feeder cable

Modular part allowing cable retention for one or two cables in the cable seal housings.

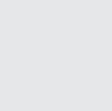
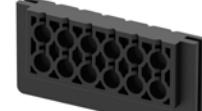
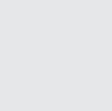
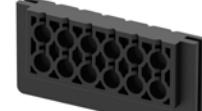
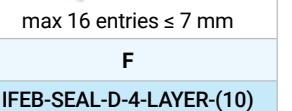
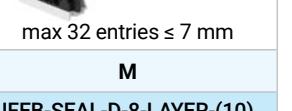


Every sealing kit (next page) contains 1 cable retention unit.

Further retention units can be bought separately:

760260225 IFEB-SEAL-F-ADD-(10)

Sealing kits

		Main seal for 1 box port		≤3 mm	Drop cable seal for 1 box port		
		15 mm	20 mm		5 mm	7 mm	
							
IFEB 10	4 (box) ports available			≤3 mm			
	Description key letter indication for page 6	A			A	B	
	MID to use when buying as a separate accessory	BUDI-2S-SEAL-MAIN-01-(57) CZ2188-000			BUDI-2S-SEAL-12X5-(57) CW2715-000	BUDI-2S-SEAL-4X7-(57) CZ0929-000	
IFEB 20	2 box ports available			2 cables per entry allowed Max 32 cables per port ≤3 mm 1 box ports >max 32 cables			
	Description key letter indication for page 6	D	E			F	
	MID to use when buying as a separate accessory	IFEB-SEAL-F-2x15-(10) 760260220	IFEB-SEAL-F-1x20-(10) 760260219			IFEB-SEAL-D-4-LAYER-(10) 760260216	
IFEB 30 & IFEB 40	IFEB 30 : 2 box ports available IFEB 40 : 3 box ports available			2 cables per entry allowed Max 48 cables per port ≤3 mm IFEB30: 1 box ports >max 48 cables IFEB40: 2 box ports >max 96 cables			
	Description key letter indication for page 6	G	H			J	
	MID to use when buying as a separate accessory	IFEB-SEAL-F-4x15-(10) 760260223	IFEB-SEAL-F-2x20-(10) 760260221			IFEB-SEAL-D-6-LAYER-(10) 760260217	
IFEB 50	4 box ports available			2 cables per entry allowed Max 64 cables per port ≤3 mm 3 box ports >max 192 cables			
	Description key letter indication for page 6	K	L			M	
	MID to use when buying as a separate accessory	IFEB-SEAL-F-6x15-(10) 760260224	IFEB-SEAL-F-3x20-(10) 760260222			IFEB-SEAL-D-8-LAYER-(10) 760260218	

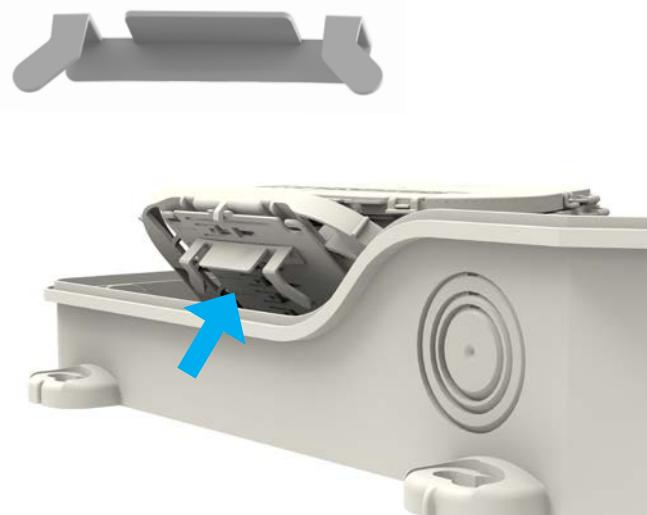
Accessories

Loop bracket

IFEB-20

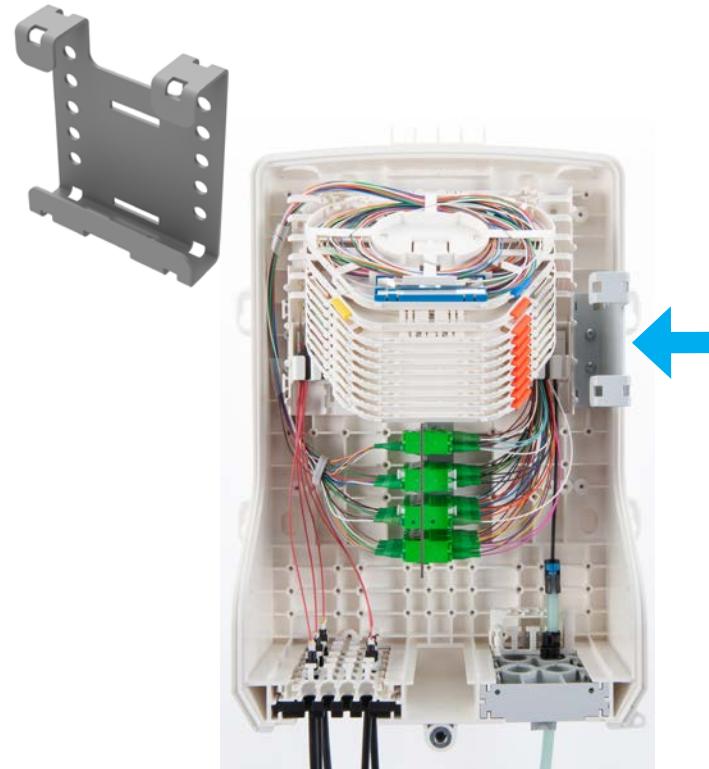
Part of kits:

760260219 - IFEB-20-SEAL-F-1x20-(10)
760260220 - IFEB-20-SEAL-F-2x15-(10)



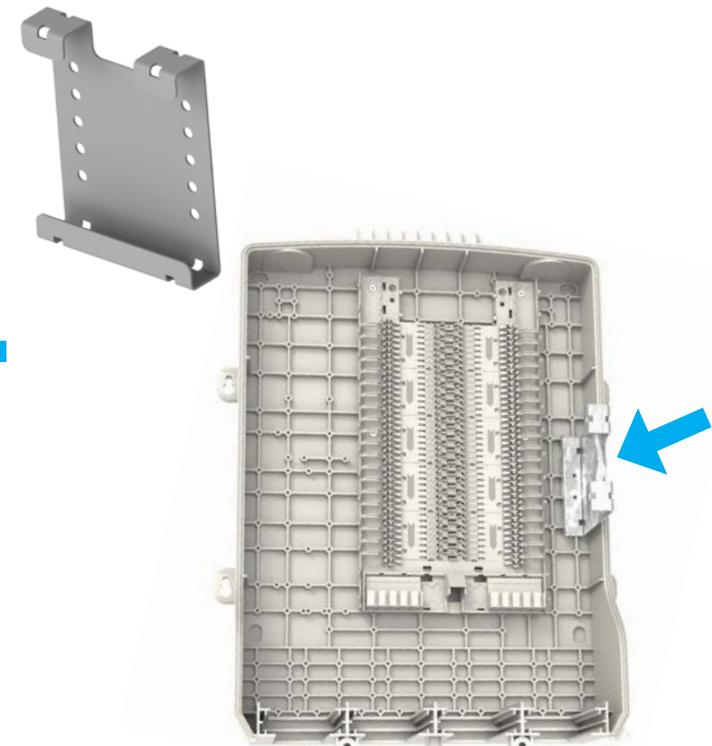
IFEB-30/40

CX2841-000 - BUDI-1S-LOOPBRCKT-01



IFEB-50

CS6981-000 - BUDI-M-LOOPBRCKT-01



Accessories: Lock

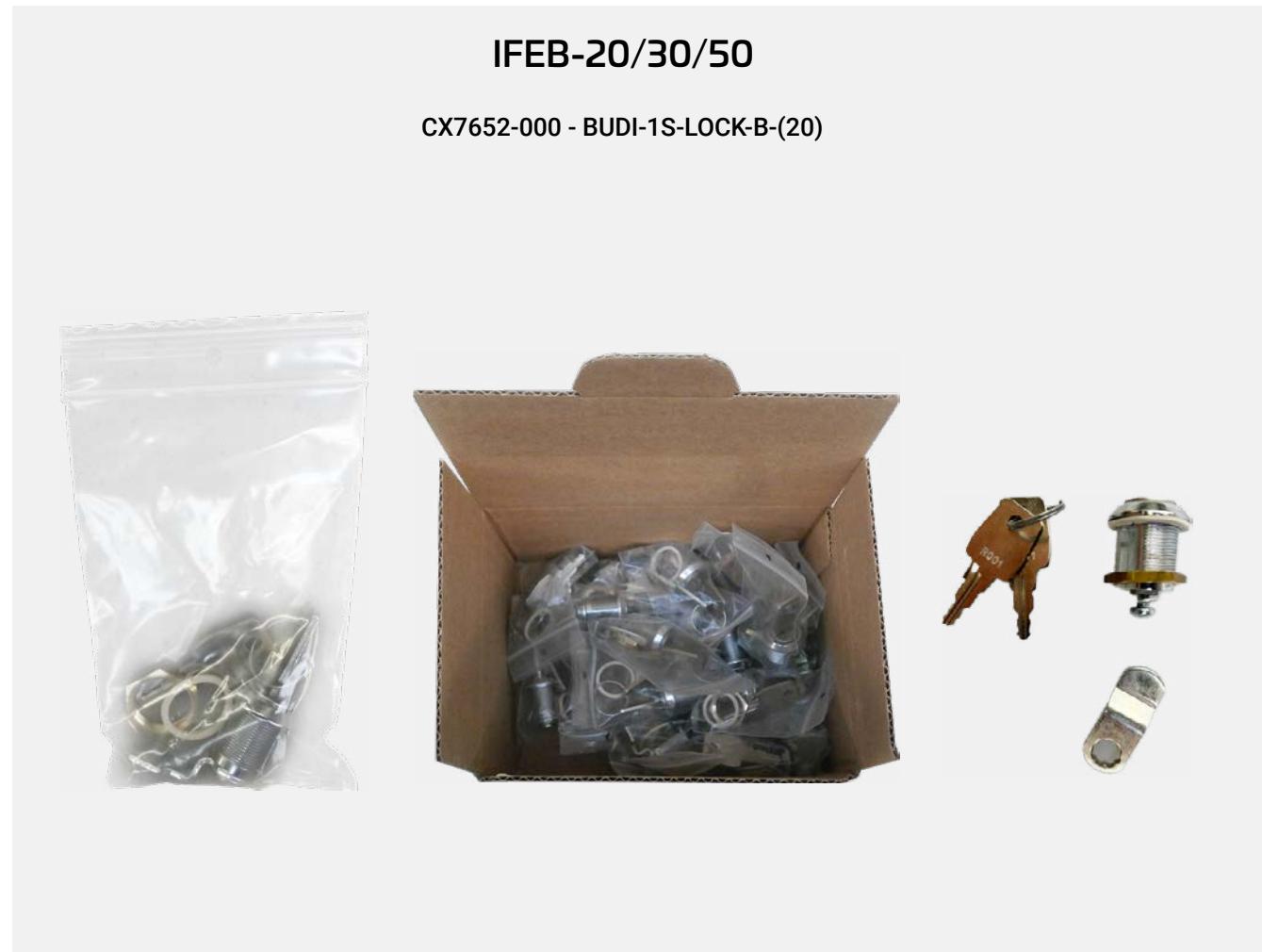
Lock

IFEB-20/30/50

CX7652-000 - BUDI-1S-LOCK-B-(20)

IFEB-40

Not yet available



Accessories

Splitter installation kits

Box	Max number of adapters		Connectorised splitter capacity										Splitter on TRAY split ratio						
			Splitter on back of TOWER split ratio				1:16				1:8		1:4		1:16		1:8		1:4
	SC	LC	SC	LC	SC	LC	SC	LC	SC	LC	SC	LC	SC	LC	SC	LC	SC	LC	
IFEB-10	8	12	-	-	-	-	1	1	2	2	-	-	1	1	2	2	-	-	
IFEB-20	16	32	-	1	1	2	2	4	4	4	4	-	-	1	1	1	1	2	2
IFEB-30	24	48	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	2	2
IFEB-40	48	96	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	2	2

Tower kit for IFEB-10
IFEB-10-TOWER KIT 760260774

Contains:

1 x 2 position dovetail plate 

2 x splitter holder – 1:2, 1:4 and 1:8 

Tower kit for IFEB-20
IFEB-20-TOWER KIT 760260775

Contains:

2 x splitter holder – 1:2, 1:4 and 1:8 

1 x 7 position dovetail plate (only 5 positions usable) 

4 x splitter holder – 1:2, 1:4 and 1:8 

2 x splitter holder – 1:16 

1 x splitter holder – 1:32 

Universal Tray kit
IFEB-TRAY KIT UNI 760260773

Contains:

1 x SE tray (*) 

1 x overlength bracket (**) 

2 x splitter holder – 1:2, 1:4 and 1:8 

1x splitter holder - 1:16 

1x splice holder SMOUV – 4 position 

1x splice holder ANT – 6 position 

* SE tray using splitter holders and splice insert: Allows storage of 2 x 1:8 900 µm pre-connectorised splitter

** Overlength bracket mounted on SE tray: Allows storage of 16 m of 900 µ fibre

Accessories

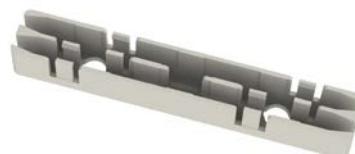
Splice holders

**Splice holder
6 x 2 SMouv**



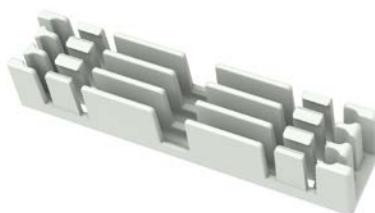
760261200 - IFEB-SPICEHOLDER-3DOV-6X2SMouv -(20)

**Splice holder
2 x 2 SMouv**



760261201 - IFEB-SPICEHOLDER-1DOV-2X2SMouv -(20)

**Splice holder
3 x 2 ANT**



760261202 - IFEB-SPICEHOLDER-1DOV-3X2ANT-(20)

Packaging



		IFEB-10	IFEB-20	IFEB-30	IFEB-40	IFEB-50
Single unit pack	Reduced kit content (majority)	240 pcs per pallet	108 pcs per pallet	48 pcs per pallet	34 pcs per pallet	20 pcs per pallet
	Full kit content	140 pcs per pallet				
Multipack		12 pcs (envelope) per box 216 pcs per pallet	IFEB-20 in individual box in overbox per 6 108 pcs per pallet			

Summary information

MID	Description	MOQ
Cable seal kits		
CW2715-000	BUDI-2S-SEAL-12X5-(57)	57
CZ0929-000	BUDI-2S-SEAL-4X7-(57)	57
CZ2188-000	BUDI-2S-SEAL-MAIN-01-(57)	57
760260216	IFEB-20-SEAL-D-4-LAYER-(10)	10
760260217	IFEB-30-40-SEAL-D-6-LAYER-(10)	10
760260218	IFEB-50-SEAL-D8-LAYER-(10)	10
760260219	IFEB-20-SEAL-F-1x20-(10)	10
760260220	IFEB-20-SEAL-F-2x15-(10)	10
760260221	IFEB-30-40-SEAL-F-2x20-(10)	10
760260222	IFEB-50-SEAL-F-3x20-(10)	10
760260223	IFEB-30-40-SEAL-F-4x15-(10)	10
760260224	IFEB-50-SEAL-F-6x15-(10)	10
760260225	IFEB-SEAL-F-ADD-(10)	10
Trays		
760261195	IFEB-TRAY-12S45-4H-(04)	1pc = 1 tray, MOQ = 48 trays
760261196	IFEB-TRAY-12ANT-4H-(04)	1pc = 1 tray, MOQ = 48 trays
760261197	IFEB-TRAY-04S45-4H-(04)	1 pc = 1 tray, MOQ = 48 trays
760261198	IFEB-TRAY-04ANT-4H-(04)	1 pc = 1 tray, MOQ = 48 trays
760261199	IFEB-TRAY-03DOV-8H-(04)	1 pc = 1 tray, MOQ = 48 trays

MID	Description	MOQ
Splice holders		
760261200	IFEB-SPICEHOLDER-3DOV-6X2SMOUVE-(20)	1 pc = 1 splice holder, MOQ = 20 pcs
760261201	IFEB-SPICEHOLDER-1DOV-2X2SMOUVE-(20)	1 pc = 1 splice holder, MOQ = 20 pcs
760261202	IFEB-SPICEHOLDER-1DOV-3X2ANT-(20)	1 pc = 1 splice holder, MOQ = 20 pcs
Splitter installation kits		
760260773	IFEB-TRAY KIT UNI	MOQ = 12 kit
760260774	IFEB-10-TOWER KIT	MOQ = 12 kit
760260775	IFEB-20-TOWER KIT	MOQ = 12 kit
Loop bracket		
760260219	IFEB-20-SEAL-F-1x20-(10)	Contains loop bracket for IFEB 20, MOQ = 10
760260220	IFEB-20-SEAL-F-2x15-(10)	Contains loop bracket for IFEB 20, MOQ = 10
CX2841-000	BUDI-1S-LOOPBRCKT-01	For IFEB 30 & 40, MOQ = 10
CS6981-000	BUDI-M-LOOPBRCKT-01	For IFEB 50, MOQ = 10

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