



# 3M™ MDUO 12 Prewired Type V01



**Multi Dwelling Unit - 12 Customer Connections**

## **Multidwelling Unit for 12 customer connections**

The box was designed to be a cross-connect interface between a greenfield network and a building network. It allows the unbundling of the internal network between 3 operators and splicing of 12 customer connections to terminate at SC/APC couplings.

### **Composition of the empty box:**

One box BDX3000 T2B with removable cover  
One organiser BPEO S1 with 12 slots  
One support panel for 12 SC type couplings  
One strain relief comb for cables  
One buffer to store 24 pigtails

### **Composition of prewired type V01:**

12 SC/APC couplings mounted on a connector panel  
12 pigtails "riser side"  
6 pigtails "network side"  
1 tray 1 slot for 12 fusion splices "riser side"  
1 tray 2 slot for 12 fusion splices and 1 splitter "operator side "


## **Features**

- Internal and external usage
- Minimal footprint & depth
- Hinge which opens the cover to 120° from the base
- Organiser and trays *BPEO Evolution*
- Prewired by 3M
- Pigtails labelled at both ends
- Pigtails storage in trays
- Storage available for unused pigtails

## **Benefits**

- One product , multiple applications & uses.
- Compact product for a building basement
- Easy to use
- New type of organiser and trays
- Minimise time on site
- Easy to use and easy to trace each fibre
- Pigtails already prepared to 250 µm for splicing
- Pigtails fitted with dust caps.

## Specification

General product features		Specification			
<b>Security</b> May be installed on site <ul style="list-style-type: none"> <li>- ¼ triangle lock N691022A</li> <li>- Lock and key (to be ordered apart)</li> </ul> 		<b>Protection Level ( EN 60520 )</b>	IP 55 / IK 06		
		<b>Dimensions ( in mm )</b>	<b>Length</b>	<b>Width</b>	<b>Depth</b>
			400	255	86
		<b>Colour</b>	Cover Light Grey - Ral 7035 Base Dark Grey - Ral 7037		
		<b>Material</b>	Thermoplastic		
		<b>Cable strain relief</b>	Strain relief by cable ties		
		<b>Fixing</b>	On wall (4 screws, M6 ,not supplied ) OR ( metallic straps 20x0,7mm)		

## Ordering information

## Ref. No.

### MDUO 12 prewired Type V01

Delivered with

- 12 SC/APC couplings
- 12 pigtails "riser side"
- 6 pigtails "operator side"
- 1 Tray BPEO N541106A 1slot 12 fusion splices "riser side"
- 1 Tray BPEO N541104A 2 slot 12 fusion splices and splitter "operator side"

**N501522A**

501522

**Lock**  
**Key**

**FQNN3690311**  
**FQ169555007**

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# 3M™ MDUO 24 -Prewired TYPE V01



**Multi Dwelling Unit 24 Subscribers**

## **Multidwelling Unit for 24 customer connections**

The box was designed to be an interface between a greenfield network and a building network. It allows the unbundling of the internal network between 3 operators and splicing of 24 customer connections to terminate at SC/APC couplings.

## **Composition of the empty box:**

One box BDX3000 T2B with removable cover  
One organiser type BPEO with 12 slots  
One support panel for 24 SC type couplings  
One strain relief for cable  
One buffer to store 30 pigtails

## **Composition of prewiring type V01**

18 SC/APC couplings mounted on a connector panel  
18 pigtails "riser side"  
12 pigtails "network side"  
2 trays 1 slot for 12 fusion splices "riser side"  
2 trays 1 slot for 12 fusion splices and 1 splitter "operator side"


## **Features**

- Indoor and outdoor use
- Minimal footprint & depth
- Hinge which opens the cover to 120° from the base
- Organiser and trays *BPEO Evolution*
- Prewired by 3M
- Pigtails labelled at both ends
- Pigtails storage in trays
- Storage available for unused pigtails

## **Benefits**

- One product , multiple applications & uses
- Compact product for a building basement
- Easy to use
- New type of organiser and trays
- Minimise time on site
- Easy to use and easy to trace each fibre
- Pigtails already prepared to 250 µm for splicing
- Pigtails fitted with dust caps.

## Specification

General product features		Specification			
<b>Security</b> May be installed on site <ul style="list-style-type: none"><li>- ¼ triangle lock N691022A</li><li>- Lock and key ( consult 3M )</li></ul>		<b>Protection Indices ( EN 60520 )</b>	IP 55 / IK 06		
		<b>Dimensions ( in mm )</b>	<b>Length</b>	<b>Width</b>	<b>Depth</b>
			400	255	116
		<b>Colour</b>	Cover Light Grey - Ral 7035 Base Dark Grey - Ral 7037		
		<b>Material</b>	Thermoplastic		
		<b>Cable strain relief</b>	Strain relief by cable ties		
		<b>Fixing</b>	On wall ( 4 screws, M6, not supplied ) OR ( metallic straps 20x0,7mm)		

## Ordering information

## Ref. No.

### MDUO 24 prewired Type V01

**N501523A**

501523

Delivered with

- 18 SC/APC couplings
- 18 pigtails "riser side"
- 12 pigtails "operator side"
- 2 Trays BPEO N541106A 1slot 12 fusion splice "riser side"
- 2 Trays BPEO N541104A 2 slot 12 fusion splices and splitter "operator side"

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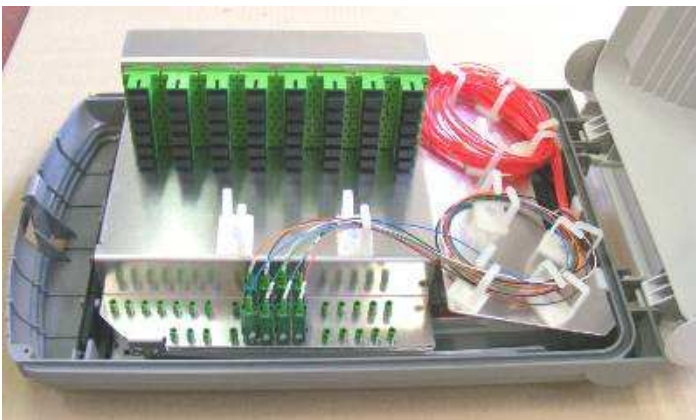
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# 3M™ MDUO 48 -Prewiring in V01



**Multi Dwelling Unit 48 couplings SC/APC**

## **Multidwelling Unit for 48 subscribers connexions**

Interface between the Greenfield network and the building network . Allow the unbundling of the internal network between 3 operators . Splicing of 48 subscribers connexions on SC/APC couplings .

## **Composition Empty Box:**

One box BD33000 T2H with removal cover  
One organizer type BPEO 12 pitches  
One support for 48 couplings SC type  
One strain relief for cables  
One buffer to store 30 pigtails

## **Composition of prewiring type V01**

48 couplings SC/APC mounted on the connexion fixture  
48 pigtails "riser side"  
24 pigtails " operator" side  
4 trays 1PAS for 12 fusion splices "riser side"  
4 trays 1PAS for 12 fusion splices and "operator side "


## Technical Features

- Polyvalence Internal/External
- Minimal Dimensions & Thickness
- Hinge to open 120° the cover from the base
- Organizer and Trays BPEO Evolution
- Prewiring in the 3M facility .
- Pigtails labelling at each sides
- Pigtails buffered in trays
- Buffer for pigtails not used

## Benefits

- One product , Multiple applications & utilizations
- Compact Product for Building basement
- Easy to use
- New type of organiser and trays
- Productive installation on site
- Easy to use and easy to trace
- Pigtails extremities prepared at 250 µm
- Pigtails stored with protective plugs .

## Specification

General product features		Specifications			
<b>Security</b> Possible to install on site <ul style="list-style-type: none"><li>- ¼ triangle lock N691022A</li><li>- Lock with key ( consult 3M )</li></ul> 		<b>Protection Indices ( EN 60 520 )</b>	IP 55 / IK 06		
		<b>Dimensions ( in mm )</b>	<b>Length</b>	<b>Width</b>	<b>Thickness</b>
			400	255	146
		<b>Color</b>	Cover Light Grey Ral 7035 Base Dark Grey Ral 7037		
		<b>Material</b>	Thermoplastic		
		<b>Cable Relief</b>	Strain relief with cable ties		
		<b>Fixation</b>	On wall (4 screws,6 mm Ø ,not supplied ) OR ( metallic straps 20x0,7mm)		

## Ordering informations

## Ref. No.

### MDUO 48 prewiring version V01

**N501650A**

50165

Delivered with

- 48 coupling SC/APC
- 48 pigtails "riser side"
- 24 pigtails "operator side"
- 4 Trays BPEO N541106A 1pitch 12 fusion splices "riser side"
- 4 Trays BPEO N541106A 1 pitch 12 fusion splices "operator side"

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## 3M™ PBO Size 1 New Generation Indoor / Outdoor FTTH Branching Point



PBO Size New Generation ( NG )

The PBO Size 1 NG is designed for use as an indoor / outdoor FTTH branching point for up to 48 fusion splices .

BPEO organiser trays are designed to match the requirements of FTTH fibre management and splitters.

The new organiser can be equipped with trays from the range of the BPEO EVOL ( four trays "5 mm" , each one fixed on 1 slot or two trays "10 mm" , one fixed on 2 slot ) . These trays type can house a bare fibre splitter .

This box is designed for either outside plant or building distribution.

May be wall or pole mounted without additional mounting bracket

Contents of the standard product :

- BMX 7 pairs box with hinged cover
- BPEO concept organiser with up to 4 splice trays equipped with splice holders
- Anchoring device for up to 2 main cables ø20 mm max. and 16 drop cables up to ø 6 mm max.
- Trays should be ordered separately( Trays with protective cover )
- Key & Locks have to ordered separately

### Technical Features

Versatile product for indoor or outdoor use

Hinged cover may be opened to 120°

The box is closed with a latch and may be secured with a locking device if required.

Organiser with swivelling trays

Anchoring device for main cable and drop cable

Mid span access facility

### Benefits

One product matches all requirements

Compact branching point at each level in a building

May be secured against unauthorised access

Possible to reach each splice without disturbing other fibres. Up to 48 splices  
Robust design

Each cable is secured in place. Strain relief strong enough for aerial drops

## Specification

### General product features

Connection	Capacity	information
Fusion splices	48	12 splices in each splice tray
Mechanical splices *	24	6 splices in each splice tray
Splitters 1 by 8	4	1 splitter and 9 splices in 1 slot tray

\* Fibrlok 2540G

**Mounting:** Screws (2 x Ø 6)

### Specification

<b>Degree of protection (EN 60529)</b>	IP 44 / IK06			
<b>Dimensions</b>	( in mm ) without fixing supports			
<b>Support</b>	<b>Length</b>	<b>Width</b>	<b>Depth</b>	
Without	213	240	73	
<b>Color</b>	Light grey RAL 7035			
<b>Material</b>	Thermoplastic UL 94 V0 Halogen Free			

## Ordering information

## Ref. No.

### PBO box size 1 equipped EMPTY

**501733**

BPEO-K7-1PAS-12fusion  
Compatible with fusion splice protector 45mm

541106

BPEO-K7-2PAS-12fusion and PLC splitter  
Compatible with fusion splice protector 45 or 60 mm  
Can accommodate 70x10x6 mm PLC splitter

541104

BPEO-K7-1PAS-6Fibrlok4x4  
Compatible with mechanical splice Fibrlok 4x4 ref. 2540G

541103

BPEO-K7-2PAS-12Fibrlok 4x4 \*  
Compatible with mechanical splice Fibrlok 4x4 ref. 2540G

541108

BPEO-K7-2PAS-10Fibrlok with Splitter  
Can accommodate 70x10x6 mm PLC splitter  
Splice holder for 10 Fibrlok 4x4 ref. 2540G

541110

BPEO-K7-1PAS-9 fusion with splitter

541113

BPEO- K7- 2PAS - Universal splice tray

541121

BPEO- K7 1 PAS+12 ANT-S

541114

Keys and Locks  
2 keys included in each lock  
MOQ = 50 locks

691009

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# 3M™ PBO Size 2 for Loose Tubes Mid Span



The PBO Size 2 has evolve in order to manage mid span of loose tubes feeder .

The loop can reach up to 3 meter .

This box is designed for use as an indoor or outdoor FTTH branching point for 36 to 144 fusion splices. Equipped with the BPEO Evolution organiser, this product is also suitable for mechanical splices and splitter management and installation of couplings .

Product is suitable for building distribution

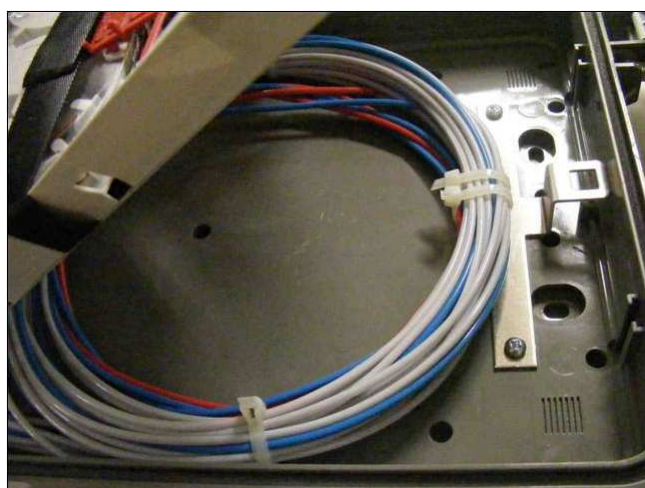
The PBO 2 is based on a standard box from the BDX 3000 range already extensively used worldwide.

The hinged cover can be remove in order to have a full access to the organizer . It allows also the installation in pedestal cabinets

The PBO size 2 is closed with a latch and may be secured with a locking device if required.

## Contents of this version of product :

- BDX3000 box size 2
- Organizer with 12 slots for trays
- Anchoring device for main cable and drop cable
- Accessories
- Splice trays and closure supports should be ordered separately.



PBO Size 2 for loose tubes mid span access

## Features

- Versatile product for indoor or outdoor use
- Organizer with swivelling trays
- Anchoring device for main cable and drop cable
- Wall or pole mounting
- Mid span access facility

## Benefits

- One product matches all requirements
- Possible to reach each splice without disturbing other fibres
- Each cable is secured in place
- Versatile product
- Specifically designed for loose tubes

## Specification

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### General Product Features

Connection	Capacity	Information
Fusion splices	144	12 splice trays
Mechanical splices	72	12 splice trays
Splitters 1to 8	12	Splice Tray 5 mm 9 fusion 1 splitter
Splitter 1 to 32	2	Splice Tray 10 mm
Feeder Cables up to diameter 9,8 mm Buffer Loop Capacity for 12 loose tubes > 3m 15-25 drops with diameters of 2-3mm		

### Degree of protection ( EN 6529 )

IP55 / IK 06

### Dimensions without fixing supports

Length x Width x Depth = 400 x 255 x 116 mm

### Colour

Body = Dark Grey = RAL 7037  
Cover = Light Grey = RAL 7035

### Material

Thermoplastic

### Mounting without Supports

On walls = screws ( 4 x M6 ) not delivered

On Pole=directly with metal band ( not delivered )

## Ordering Information

## Ref. No.



PBO Size 2 for loose tubes mid span

501676

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BPEO-K7-1PAS-12fusion  
Compatible with fusion splice protector 45mm  
Splice tray is supplied with a cover

541106



BPEO-K7-2PAS-12fusion and PLC splitter  
Compatible with fusion splice protector 45 or 60 mm  
Can accommodate 70x10x6 mm PLC splitter  
Splice tray is supplied with a cover

541104



BPEO-K7-1PAS-6Fibrlok4x4  
Compatible with mechanical splice Fibrlok 4x4 ref. 2540G  
Splice tray is supplied with a cover

541103



BPEO-K7-2PAS-12Fibrlok 4x4 \*  
Compatible with mechanical splice Fibrlok 4x4 ref. 2540G  
Splice tray is supplied with a cover

541108



BPEO-K7-2PAS-10Fibrlok with Splitter  
Can accommodate 70x10x6 mm PLC splitter  
Splice holder for 10 Fibrlok 4x4 ref. 2540G  
Splice tray is supplied with a cover

541110



BPEO-K7-1PAS-9 fusion with splitter  
Splice tray is supplied with a cover

541113



BPEO- K7- 2PAS - Universal splice tray  
Splice tray is supplied with a cover

541121



BPEO- K7 1 PAS+12 ANT-S  
Splice tray is supplied with a cover

541114

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## Accessories

## Ref. No.



Pole Mounting Bracket  
( order 2 per box )

880959



Wall mounting Bracket  
( order 2 per box )

530171

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## 3M™ PBPO/C NG for Couplings



Symetric PBPO NG with external anchoring

### Symetric Floor Box

Interface between the riser cable and the customer drops cables .  
Installation on mid span access cables or on window cut cables .

### Design

A pathway for the vertical cable with dual anchoring , on the right and on the left of the coiling area .

A coiling storage area for uncut or pending fibres and micro structures .

A ramp of organiser 4 slots that can be placed on the right or on the left according to the pathway of the riser cable and that can be equipped with up to 4 cassettes thick of 5 mm , for 12 fusion splices .

### Floor Box

The pertimated drop cables are connected on SC or duplex LC couplings .

As option :

A cover allows to hide and protect the cables entries .

This symmetric floor box can be fixed at a distance of 52 mm from the wall , in case of installation on lay out of cables , by using a bracket and a back mount frame ( this one to protect against dust invasion ) .

### Features

- Compact Box with sliding cover
- Symetric design
- Dual anchorage for main feeder
- Large coiling storage area for micro modules , loose tubes fibres or even bare fibers
- Organiser type BPEO Evolution, 4 SLOTS

### Benefits

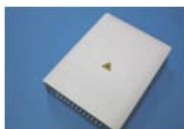
- Fits in narrow riser locations
- Manage any riser cable pathway
- Mounting on window cut cable , mid span access cable or splicing of two cables
- Manage any configurations also secure bare fibres protection ( no need for over tubes )
- Large possible combination of cassettes



## Specifications

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### Dimensions :



Stand Alone Box : Length x Width x Height ( mm ) = 204 x 158 x 50



Box with Cover : Length x Width x Height ( mm ) = 300 x 158 x 50

Material	Plastic V0 Flame retardant
Color	White - RAL 9010
Ingress Protection	IP 40 / IK 07
Cables diameters	Feeder cables : 13,5 mm maximum Drop cables: 4,5 mm maximum
Cables anchorages	Feeder cables: on 2 holders with 2 cables ties ( supplied ) Drop cables : 16 positions for SC adaptors for each preterminated drops .
Splicing	Organiser 4 SLOTS for up to 4 cassettes 5 mm or 2 cassettes 10 mm BPEO Evolution Maximum Splicing Capacity : 48 fusions with heat shrink termo sleeves Splicing cassettes to be ordered separately
Fixation on wall	Screws of 4 mm ( supplied with dowels )

## Ordering Information

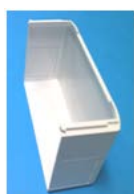


PBPO/C NG for couplings  
Equipped with 4 SLOTS organiser  
Packing by 10 pcs , individual bag for each

### Ref. No.

N501760A      501760

## Accessories



Protection Cover for PBPO NG  
Packaging per 10 pieces

N681288T      530239



Mounting Bracket Kit with backmount frame  
Packaging per 10 pieces in individual bag

711833T      530240

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## 3M™ PBPO NG with external anchoring



Symetric PBPO NG with external anchoring

### Symetric Floor Box

Interface between the riser cable and the customer drops cables .  
Installation on mid span access cables or on window cut cables .

### Design

A pathway for the vertical cable with dual anchoring , on the right and on the left of the coiling area .

A coiling storage area for uncut or pending fibres and micro structures .

A ramp of organiser 4 slots that can be placed on the right or on the left  
According to the pathway of the riser cable and that can be equipped with  
up to 4 cassettes thick of 5 mm , for 12 fusion splices .

### Floor Box

The cables anchoring , thanks to plastic cable ties , is realised on the  
external of the box , in front of the sealing gasket .

As option :

A cover allows to hide and protect the cables entries .

This symetric floor box can be fixed at a distance of 52 mm from the wall ,  
in case of installation on lay out of cables , by using a bracket and a  
backmount frame ( this one to protect against dust invasion ) .

### Features

- Compact Box with sliding cover
- Symetric design
- Dual anchorage for main feeder
- Large coiling storage area for micro modules  
, loose tubes fibres or even bare fibers
- Organiser type BPEO Evolution, 4 SLOTS

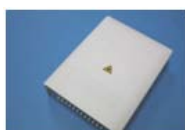
### Benefits

- Fits in narrow riser locations
- Manage any riser cable pathway
- Mounting on window cut cable , mid span access cable  
or splicing of two cables
- Manage any configurations also secure bare fibres  
protection ( no need for over tubes )
- Large possible combination of cassettes

## Specifications

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### Dimensions :



Stand Alone Box : Length x Width x Height ( mm ) = 204 x 158 x 50



Box with Cover : Length x Width x Height ( mm ) = 300 x 158 x 50

Material	Plastic V0 Flame retardant
Color	White - RAL 9010
Ingress Protection	IP 40 / IK 07
Cables diameters	Feeder cables : 13,5 mm maximum Drop cables: 4,5 mm maximum
Cables anchorages	Feeder cables: on 2 holders with 2 cables ties ( supplied ) Drop cables : 12 holders with external anchoring and cable ties for 1 or 2 drops.
Splicing	Organiser 4 SLOTS for up to 4 cassettes 5 mm or 2 cassettes 10 mm BPEO Evolution Maximum Splicing Capacity : 48 fusions with heat shrink termo sleeves Splicing cassettes to be ordered separately
Fixation on wall	Screws of 4 mm ( supplied with dowels )

## Ordering Information

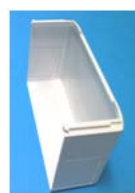


PBPO NG with external anchoring  
Equipped with 4 SLOTS organiser  
Packing by 10 pcs , individual bag for each

### Ref. No.

N501758A      501758

## Accessories



Protection Cover for PBPO NG  
Packaging per 10 pieces

N681288T      530239



Mounting Bracket Kit with backmount frame  
Packaging per 10 pieces in individual bag

711833T      530240

#### Important Notice

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## 3M™ PBPO NG with internal anchoring



Symetric PBPO NG with external anchoring

### Symetric Floor Box

Interface between the riser cable and the customer drops cables .  
Installation on mid span access cables or on window cut cables .

### Design

A pathway for the vertical cable with dual anchoring , on the right and on the left of the coiling area .

A coiling storage area for uncut or pending fibres and micro structures .

A ramp of organiser 4 slots that can be placed on the right or on the left according to the pathway of the riser cable and that can be equipped with up to 4 cassettes thick of 5 mm , for 12 fusion splices .

### Floor Box

The drop cables are attached on removable tongues with plastic ties and can be prepared at distance from the box

As option :

A cover allows to hide and protect the cables entries .

This symmetric floor box can be fixed at a distance of 52 mm from the wall , in case of installation on lay out of cables , by using a bracket and a back mount frame ( this one to protect against dust invasion ) .

### Features

- Compact Box with sliding cover
- Symetric design
- Dual anchorage for main feeder
- Large coiling storage area for micro modules , loose tubes fibres or even bare fibers
- Organiser type BPEO Evolution, 4 SLOTS

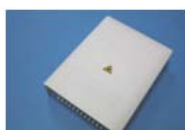
### Benefits

- Fits in narrow riser locations
- Manage any riser cable pathway
- Mounting on window cut cable , mid span access cable or splicing of two cables
- Manage any configurations also secure bare fibres protection ( no need for over tubes )
- Large possible combination of cassettes

## Specifications

---

### Dimensions :



Stand Alone Box : Length x Width x Height ( mm ) = 204 x 158 x 50



Box with Cover : Length x Width x Height ( mm ) = 300 x 158 x 50

Material	Plastic V0 Flame retardant
Color	White - RAL 9010
Ingress Protection	IP 40 / IK 07
Cables diameters	Feeder cables : 13,5 mm maximum Drop cables: 4,5 mm maximum
Cables anchorages	Feeder cables: on 2 holders with 2 cables ties ( supplied ) Drop cables : 12 holders for independent anchoring devices for each customers drops .
Splicing	Organiser 4 SLOTS for up to 4 cassettes 5 mm or 2 cassettes 10 mm BPEO Evolution Maximum Splicing Capacity : 48 fusions with heat shrink termo sleeves Splicing cassettes to be ordered separately
Fixation on wall	Screws of 4 mm ( supplied with dowels )

## Ordering Information

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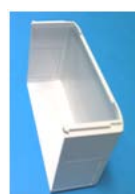
### Ref. No.

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N501759A 501759

## Accessories

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Protection Cover for PBPO NG  
Packaging per 10 pieces

N681288T 530239



Mounting Bracket Kit with backmount frame  
Packaging per 10 pieces in individual bag

711833T 530240

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