

ODP FTTH - BUILDING CABLING SYSTEM



Opto Domus Products are a series of devices offered by Optotec for the installation of vertical multi-fiber cables or removable multi-bundles in residential indoor environments.

The installation of these products can take place both within new building passive multi-service infrastructures and on pre-existing infrastructures and therefore not yet equipped with adequate installation spaces. The branching of multi-fiber cables that can be pulled out to the individual single building apartment s therefore takes advantage of paths already traced for other services,

thus reducing installation dimensions and costs as much as possible but guaranteeing quality and reliability of the final wiring.

All Optotec devices accept cables with a diameter between 6.0mm and 8.2mm, typically from 12 to 24 optical fibers, and with an overall outer sheath of approximately 1mm with internal single-fibre modules 0.9-1.00mm.

Drop cables for single users have a nominal external diameter of 3.0 ± 0.1 mm and a minimum thickness of 0.7mm.

APPLICATION

INTERNAL - Passive multi-service infrastructure of real estate units:

- risers,
- cable ducts,
- multiservice cabins
- corrugated pipes of new construction

TECHNICAL FEATURES

Guaranteed minimum radius of curvature of the optical fibers – greater performance reliability

Full front accessibility - facilitates installation operations

Re-accessibility - facilitates maintenance operations

Clean and simple design - low environmental impact

ODP ITEM NAME	DIMENSIONS mm			TECHNICAL FEATURES				MATERIAL
	HEIGHT	WIDTH	DEPTH	WEIGHT gr	BRANCHING TUBES		FIBRE SPLICING	
					MONOFIBRE	MULTIBUNDLES		
Box Mini Riser	70	50	25	40	up to 6	-	up to 6	Plastic - RAL9016 (Traffic White)
Branching I	60	40	13	25	up to 8	up to 2	-	
Branching II	40	40	10	15	up to 4	up to 3	-	
	D1 EXTERNAL Ø	D2 INTERNAL Ø	LENGTH	WEIGHT gr		FIBRE SPLICING		MATERIAL
SINGLEtube	3.0	1.4	Spool	10		-		
MULTItube	5.0	3.5	Spool	60		-		
Splice	5.0	3.5	400	60		1		

**Internally it has a pull element in kevlar yarns to facilitate the insertion of optical fibers.*

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CON CX CP OSP CO FOCUS

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**FLOOR BOX****ODP - BOX MINI RISER**

It guarantees the protection, splicing and branching of the vertical cable fibers; allows re-access to individual fibers / joints for the integration of new users and ensuring a minimum radius of 15mm everywhere.

**PRIMARY FLOOR BRANCHING BOX****ODP - BRANCHING I**

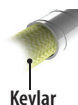
It protects and branches the fibers coming out of the open window into the sheath of the multi-fiber cable. Allows the extraction of up to 8 fibers of the multi-fiber cable in 8 distinct protective tubes for each fiber respecting a minimum radius of curvature of 15mm. It also makes it possible to attach two additional groups of fibers extracted from the vertical cable inside two distinct multi-fiber protection tubes.

**SECONDARY BRANCHING BOX****ODP - BRANCHING II**

It protects and branches the fibers extracted from a master primary branch or from another secondary branch and conveys them in single-fiber and / or multi-fiber protection tubes. Provided with four outlets for single-fiber tubes and three for multi-fiber tubes. Extremely compact, it is used inside circular junction boxes dia. 80mm depth 50mm or more.

**FIBER PROTECTIVE TUBE****ODP - MULTITUBE**

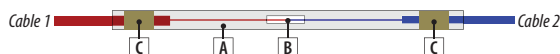
Primary connection between the various branches, the multi-fiber tube is used to extract and protect the vertical cable in several modules. Internally equipped with a pull element to which to anchor the fiber kevlar, in case of long distances.

**ODP - SINGLETUBE**

Protective tube of the single module of the multi-fiber cable. Connect the Floor Boxes, the Master or Secondary Floor Branches to the stud of the single building apartment.

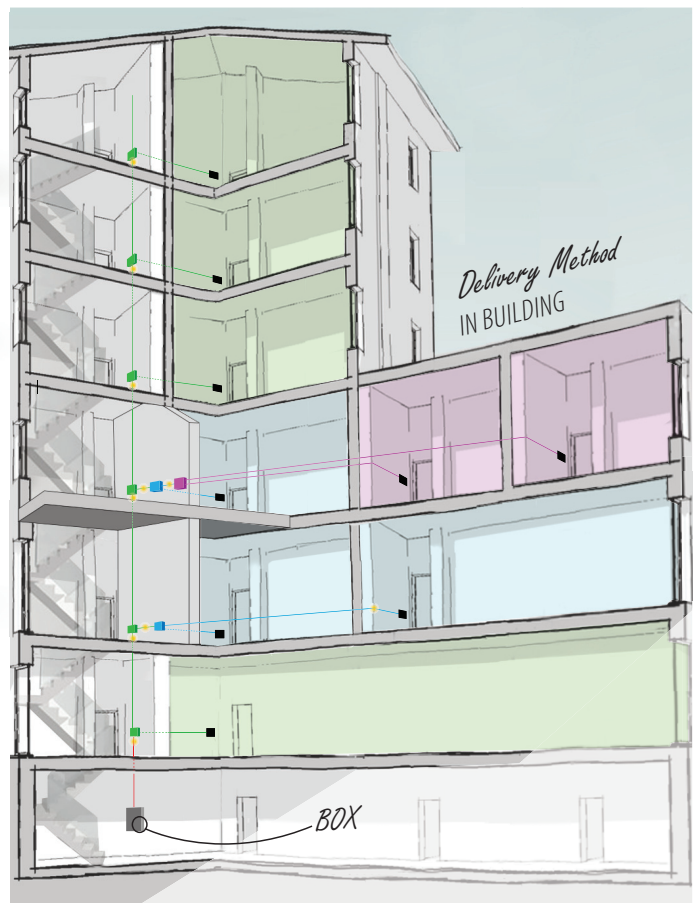
**ODP - SPLICE**

30mm long thermo-shrinking [B] protection tube [A] with two protective metal crimping rings [C]. It is used to join and extend the fibers contained in the fittings made with the Singletube protection tubes towards the single building apartment.



OPTOTEC PN. EXAMPLE:

ODP	BOX MINI RISER
SERIE NAME	ITEM NAME
OPTO DOMUS PRODUCTS	BOX MINI RISER
	BRANCHING I
	BRANCHING II
	MULTITUBE
	SINGLETUBE
	SPLICE



PACKAGING FEATURES

PRODUCT NAME	PACKAGING TYPE	DIMENSIONS (MT.)			GROSS WEIGHT (KG.)
		WIDTH	DEPTH	HEIGHT	
ODP-BOX MINI RISER	Carton box	355	125	100	
ODP-BRANCHING I	Carton box	305	180	30	
ODP-BRANCHING II	Carton box	225	165	25	
ODP-SINGLETUBE	Carton box				
ODP-MULTITUBE	Carton box				
ODP-SPLICE	Plastic bag				