

optotec micrODC

Micro Optical Distribution Closures



The Optotec micrODC is a compact and versatile splice closure designed for FTTH networks.

It provides IP68 environmental protection, IK10 impact protection, and is ≤ 2 litres in volume. It can be installed in underground chambers, direct buried, pole mounted, or attached to building facades.

The closures comply to the EN-50411-2-10 standard for fiber optic sealing closures used in FTTH optical distribution networks.

The micrODC can be installed in-line, butt-end, or tap-off, and has a splice capacity up to 96 fibres. There is also the ability for cable mid-span access for uncut looped tube applications with secure internal cable management and controlled fibre raceways with a radius >30 mm for fibre strand integrity.

The closure is sealed by a removable lid and provided with a wide portfolio of cable gaskets for cable from 3mm to 16mm. Different and customized arrangements are possible as the closure share all the HD splice cassette range with CODC2/ODC2 closures.

TECHNICAL FEATURES

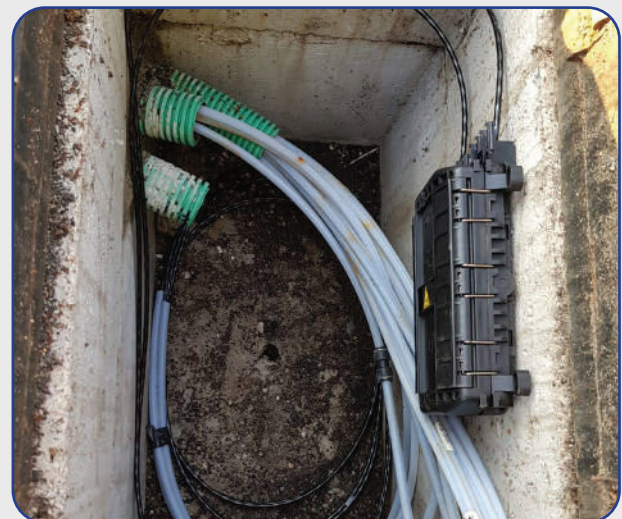
- ITU-T G652, G657 and G655 fibre compatible
- Volume Size ≤ 2 liters
- Highly reliable - IP68 and IK10
- Splice positions up to 96f heatshrink or 72f crimp splice protectors
- Completely toolless opening/closing latch system
- Main Cables 6-16 mm - Drop Cables 2-7mm
- Standard configuration cables in/out - 2 feeders + up to 18 drops
- Min bending radius: 30mm
- Splitters trays available for GPON configurations
- Operating temperature -40°C up to $+70^{\circ}\text{C}$
- ROHS and eco-friendly

INSTALLATIONS

- Compact handholes
- Poles
- Façade

APPLICATIONS

- FTTX networks
- Aerial, facade, underground chamber, direct buried
- In-line, butt, tap-off configuration



MICRODC ORDERING INFORMATION

PRODUCT LINE	SERIE NAME	TYPE	CONFIGURATION	COLOR TYPE
Micro Closures	MICRODC (Micro Optical Demarcation Closure)	LT (Loose Tube)	BASIC*	Gray RAL 7035
		MS (Micro Module)		Black RAL 9005

* THE BASIC CONFIGURATION OF OPTOTEC MICRODC INCLUDES - 1 SEALING SET, 5 BLIND GASKETS, EXTERNAL CABLE PLATE, 3 FEEDER GASKETS 6-8MM

The microODC closure uses the Optotec SAMR high-density splice array modules with splice capacities of up to 96 fibres. Cable sealing gaskets kits cover a wide range of cable diameters for each input/output port.

Your Optotec representative can assist in selecting the correct SAMR splice modules and sealing gaskets for your needs.

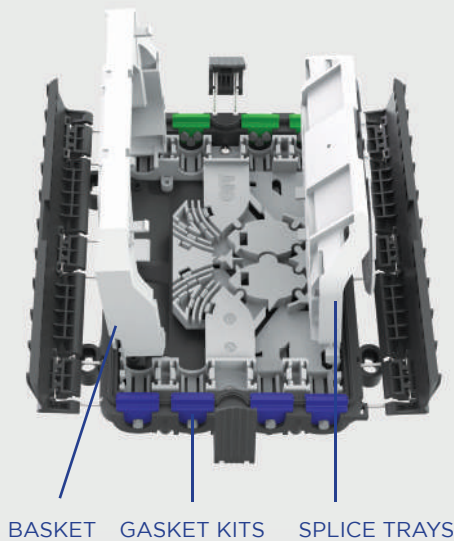
Other optional kits available:

- MICRODCKIT-VALVE kit: Used as a pressurised air flash test point (air must be released after test).
- MICRODCKIT-GROUNDING BOLT kit: Required for cable shield grounding.

MICRODC BASIC, COMPONENTS, CONFIGURATIONS AND DIMENSIONS

microODC LT

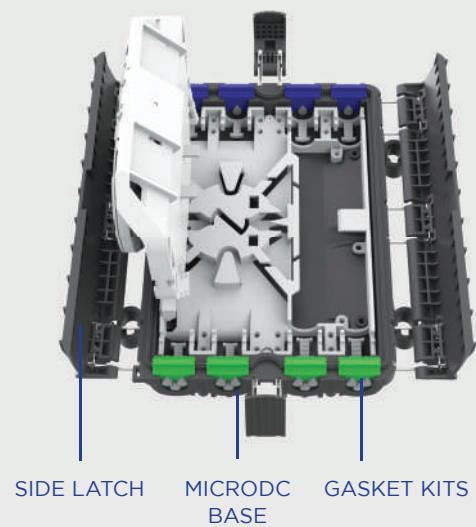
This version of the microODC is suitable for loose tube, uncut, mid-span cable modules routings and management. The basket allows storage of up to 12 meters 2.6 mm tubes.



microODC MS

This version is designed to accommodate and to protect micro module flexible cable modules.

A large storage area under the incoming fibre organizer safely contains the uncut modules.



MAX DIM.

Width 226 mm

Height 65 mm

Depth 155 mm

PACKAGING

PRODUCT NAME	PACKAGING TYPE	DIMENSIONS (MM)			GROSS WEIGHT (KG.)
		WIDTH	DEPTH	HEIGHT	
MICRODC-LT	Carton box	250	218	77	-1,4
MICRODC-MS	Carton box	250	218	77	-1,4

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SPLITTERS INTO MICRODC

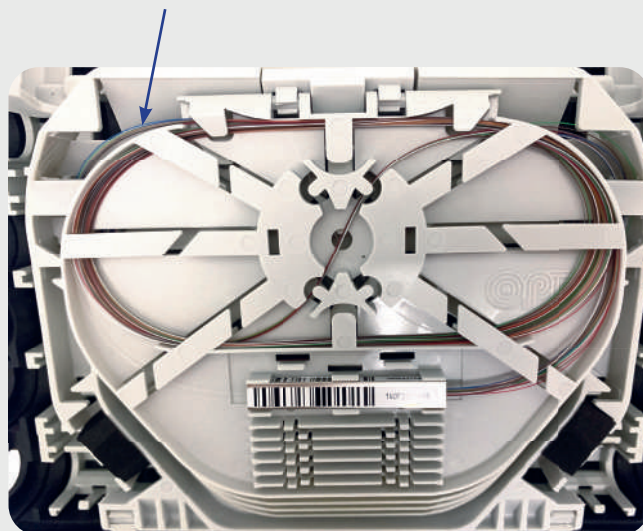
microODC LT

Possibility to integrate up to 3x 7x4x50mm bare fibre PLC. Splitter directly into the base below the trays.



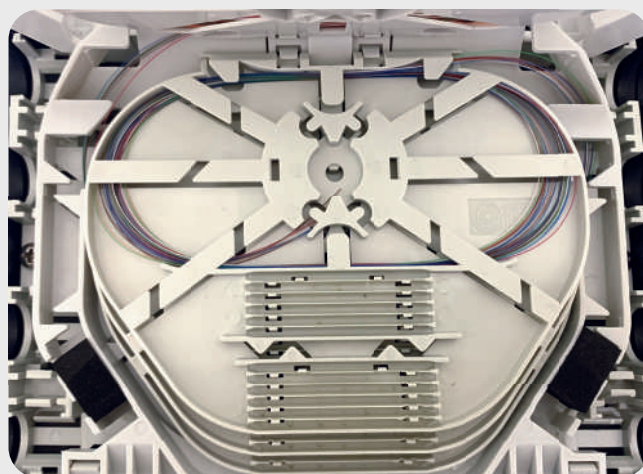
microODC LT

It is possible to load bare fibre PLC splitters into SAMR-PLC trays and splice the outputs legs in other trays as shown in the pictures. Input legs are suggests to be spliced into the splitter tray itself.



microODC MS

It is possible to assemble bare fibre PLC splitters into SAMR-PLC trays. Important: in this case pls note all the splitters legs shall be spliced inside the splitter trays.



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GUIDE TO SPLICE

TECHNICAL FEATURES


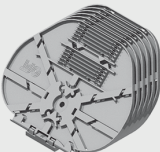
- Loop-Back facility: Yes
- Material: ABS-PC
- Flammability Rating: UL-94 V0
- Colour*: RAL 7035

**other colours available upon request*

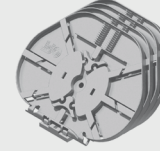
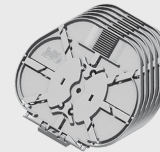
APPLICATION

- Fibre management inside OPTOTEC products
- Hold and protect the splice

FIBERTERM SPLICE

MODULE TYPE SAM _r	TRAY PER PACK	SPLICES PER TRAY	TOTAL NUM. SPLICES PER MODULE
HD6-8H 	6	8H	48
HD6-12H 	6	12H	72

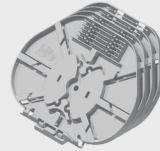

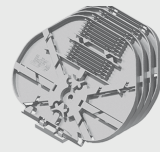

FIBERCLIP SPLICE

MODULE TYPE SAM _r	TRAY PER PACK	SPLICES PER TRAY	TOTAL NUM. SPLICES PER MODULE
HD4-12C 	4	12C	48
HD6-12C 	6	12C	72

FIBERTERM SPLICE-ARRANGED ON 3 LAYERS

MODULE TYPE SAM _r	TRAY PER PACK	SPLICES PER TRAY ARRANGED ON LAYERS	TOTAL NUM. SPLICES PER MODULE
HD3-24H 	3	 3 LAYERS (8+8+8) total. 24H	72

FIBERTERM SPLICE-ARRANGED ON 2 LAYERS



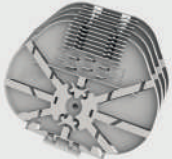



MODULE TYPE SAM _r	TRAY PER PACK	SPLICES PER TRAY ARRANGED ON LAYERS	TOTAL NUM. SPLICES PER MODULE
HD4-12H 	4	 2 LAYERS (6+6) total. 12H	48
HD4-24H 	4	 2 LAYERS (12+12) total. 24H	96

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GUIDE TO SPLICE

FIBERTERM SPLICE AND PLC SPLITTER

MODULE TYPE SAMR	TRAY PER PACK	SPLICES PER TRAY	TOTAL NUM. PLC PER MODULE	HELD SPLITTER SIZES	TOTAL NUM. SPLICES PER MODULE
 HD3-18H-1PLC	3	 3 LAYERS (6+6+6) total 18H	3	4x7x50 mm	54
 HD4-12H-2PLC	4	 2 LAYERS (6+6) total 12H	8	4x7x50 mm and 4x4x40mm	48
 HD3-12C-2PLC	3	 1 LAYER (6+6) total 12C	6	4x7x50 mm	36

COMPATIBLE BARE FIBRE SPLITTER SIZES

4x4x40 mm (typ. n:2, n:4, n:8)










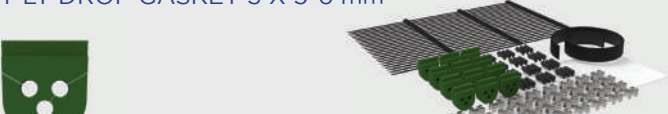


7x4x50 mm (typ. n:16 and n:32)



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MICRODC SE GASKETS KIT

KIT CODE AND PICTURE	KIT DESCRIPTION
<p>MICRODCKIT-BLIND GASKET</p> 	<ul style="list-style-type: none"> - BLIND GASKET (12 pcs)
<p>MICRODCKIT-LT-FEEDER GASKET 13-16 mm</p> 	<ul style="list-style-type: none"> - FEEDER GASKET 1 HOLE 13-16 mm (12 pcs) - NYLON TIE-WRAP 100X2.5 (24 pcs) - ADHESIVE VELCRO (1 m) - CABLE CLIP (12 pcs) - DUMMY GASKET (12 pcs)
<p>MICRODCKIT-LT- FEEDER GASKET 10-13 mm</p> 	<ul style="list-style-type: none"> - FEEDER GASKET 1 HOLE 10-13 mm (12 pcs) - NYLON TIE-WRAP 100X2.5 (24 pcs) - ADHESIVE VELCRO (1 m) - CABLE CLIP (12 pcs) - DUMMY GASKET (12 pcs)
<p>MICRODCKIT-LT- FEEDER GASKET 9-11 mm</p> 	<ul style="list-style-type: none"> - FEEDER GASKET 1 HOLE 9-11 mm (12 pcs) - DUMMY GASKET (12 pcs) - ADHESIVE VELCRO (1 m) - CABLE CLIP (12 pcs) - NYLON TIE-WRAP 100X2.5 (24 pcs)
<p>MICRODCKIT-LT- FEEDER GASKET 8-10 mm</p> 	<ul style="list-style-type: none"> - FEEDER GASKET 1 HOLE 8-10 mm (12 pcs) - DUMMY GASKET (12 pcs) - ADHESIVE VELCRO (1 m) - CABLE CLIP (12 pcs) - NYLON TIE-WRAP 100X2.5 (24 pcs)
<p>MICRODCKIT-LT- FEEDER GASKET 6-8 mm</p> 	<ul style="list-style-type: none"> - FEEDER GASKET 1 HOLE 6-8 mm (12 pcs) - NYLON TIE-WRAP 100X2.5 (24 pcs) - ADHESIVE VELCRO (1 m) - CABLE CLIP (12 pcs) - DUMMY GASKET (12 pcs)
<p>MICRODCKIT-LT-DROP GASKET 2X6-7 mm</p> 	<ul style="list-style-type: none"> - 2 HOLES 6-7 mm DROP GASKET (12 pcs) - DUMMY GASKET (24 pcs) - CABLE CLIP (24 pcs) - NYLON TIE-WRAP 100X2.5 (24 pcs) - NYLON TIE-WRAP 200X4.5 (24 pcs) - ADHESIVE VELCRO (1 m)
<p>MICRODCKIT-LT-DROP GASKET 3 X 5-6 mm</p> 	<ul style="list-style-type: none"> - DROP GASKET 3 HOLES 5-6 mm (12 pcs) - DUMMY GASKET (36 pcs) - ADHESIVE VELCRO (1 m) - CABLE CLIP (36 pcs) - NYLON TIE-WRAP 100X2.5 (72 pcs)
<p>MICRODCKIT-LT- DROP GASKET 4 X 2.5-3.5 mm</p> 	<ul style="list-style-type: none"> - DROP GASKET 4 HOLES 2.5-3.5 mm (12 pcs) - ADHESIVE VELCRO (1 m) - CABLE CLIP (24 pcs) - SILICON PULL PLAG (48 pcs) - NYLON TIE-WRAP 100X2.5 (48 pcs)
<p>MICRODCKIT-LT-DROP GASKET 9 X 2-3 mm</p> 	<ul style="list-style-type: none"> - 9 HOLES 2-3 mm DROP GASKET (12 pcs) - CABLE CLIP (36 pcs) - NYLON TIE-WRAP 100X2.5 (72 pcs) - ADHESIVE VELCRO (1 m)

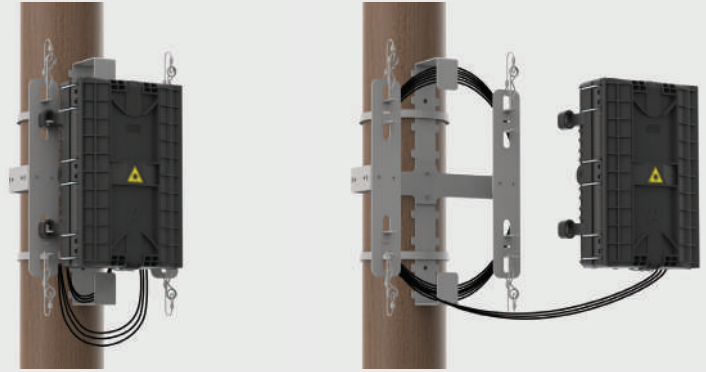
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MICRODC DIFFERENT INSTALLATIONS

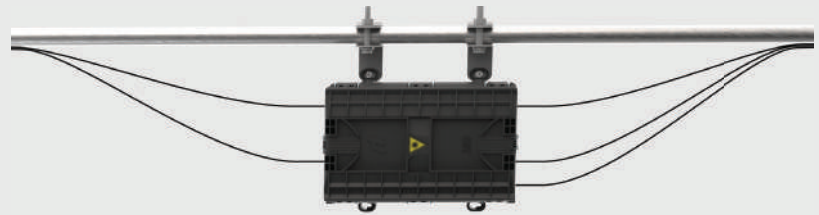
MICRODC-SLACK BRACKET

Easy “fix and remove” system allows to permanently secure the bracket to the pole (or to the wall) and detach quickly the closure and the stored cables.



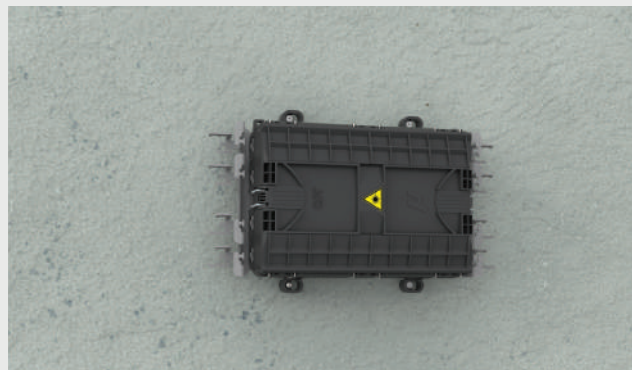
MICRODC HANGER KIT

This kit is used to suspend and firmly anchor the closure to an ADSS cable. It is possible to open the cover and make maintenance directly on the installed microdc.



MICRODC-CABLE STEEL PLATE

This external bracket is suggested for heavy duty cables installation and allows the fixation of the cables by suitable jubilee clips.



MB-MICRODCKIT



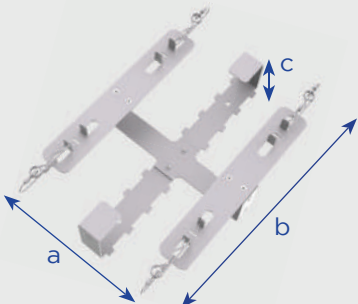
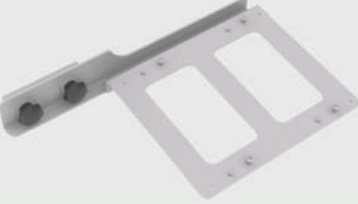


Mounting bracket kit is needed to install up to 2x microdc closures on a standard mobra arm. Microdc is the perfect solution for highly jammed manholes.



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MICRODC SE ACCESSORIES KIT

KIT CODE EXTENTION AND PICTURE	DESCRIPTION
<p>MICRODC HANGER KIT</p> 	<p>For suspension and fixation to ADSS cables (range 5-25 mm diam.)</p>
<p>MICRODC-CABLE STEEL PLATE</p> 	<p>For heavy duty armoured cables external fixation</p>
<p>MICRODC-SLACK BRACKET</p> 	<p>Slack storage and easy fix bracket for pole/wall anchorage. (i.e. 20m of 7mm dia cable) Internal slack storage dimension (a213xb304xc55 mm)</p>
<p>MB-MICRODCKIT</p> 	<p>Mounting bracket for up to 2x microdc fixation to MOBRA unistrut arms</p>
<p>PRESSURE VALVE</p> 	<p>Pressure valve for flash test up to 0.2bar</p>
<p>HEARTH SCREW</p> 	<p>Grounding point for cables with metal wire</p>

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