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 >30mm 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 ≤ 2liters
- 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°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

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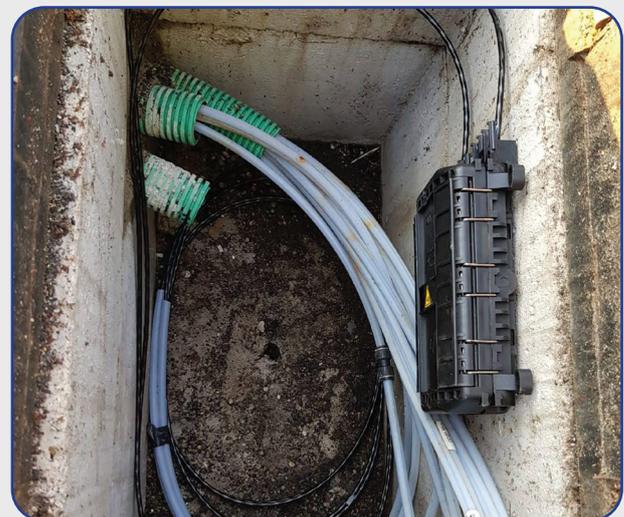
MICRODC ORDERING INFORMATION

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 micrODC 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

micrODC 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.

BASKET   GASKET KITS   SPLICE TRAYS

HEIGHT   WIDTH   DEPTH
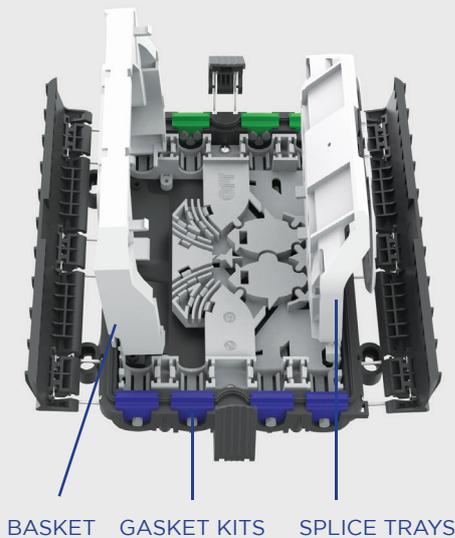
micrODC MS

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.

SIDE LATCH   MICRODC BASE   GASKET KITS
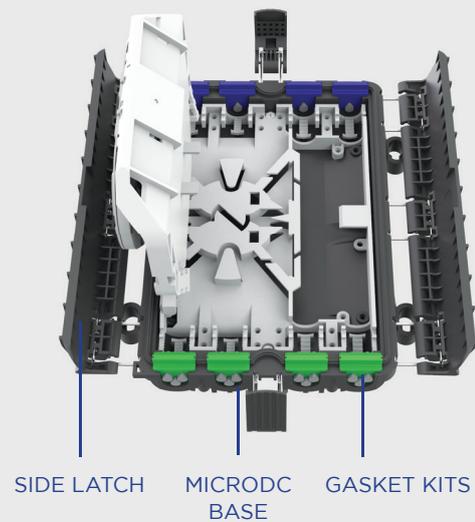
MAX DIM.
Width 226 mm
Height 65 mm
Depth 155 mm

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

SPLITTERS INTO MICRODC

micrODC LT

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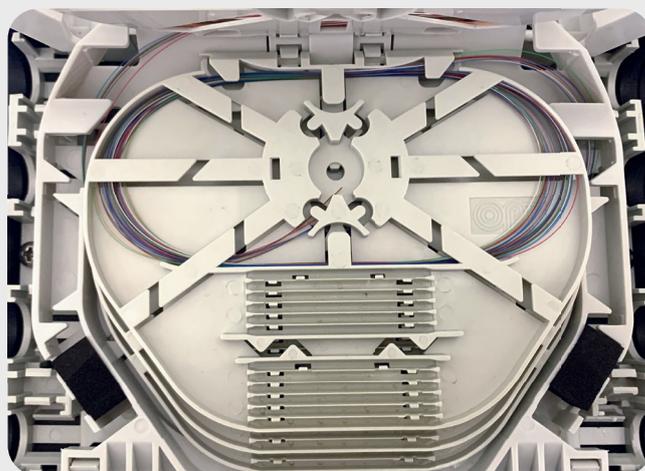Splitter directly into the base below the trays.

micrODC 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.
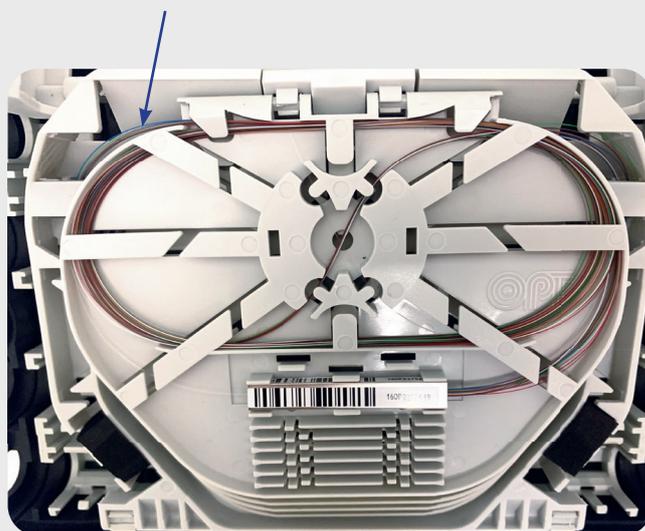
micrODC MS

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
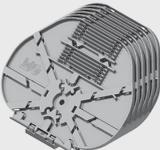
TECHNICAL FEATURES

- Loop-Back facility: Yes
- Material: ABS-PC
- Flammability Rating: UL-94 V0
- Colour*: RAL 7035
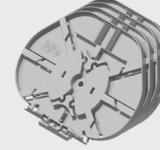
other colours available upon request

APPLICATION

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

FIBERTERM SPLICE

MODULE TYPE SAMr	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 SAMr	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 SAMr	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 SAMr	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
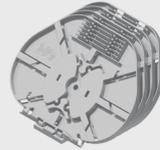
GUIDE TO SPLICE

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
MICRODCKIT-BLIND GASKET	- BLIND GASKET (12 pcs)
MICRODCKIT-LT-FEEDER GASKET 13-16 mm	- 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)
MICRODCKIT-LT- FEEDER GASKET 10-13 mm	- 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)
MICRODCKIT-LT- FEEDER GASKET 9-11 mm	- 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)
MICRODCKIT-LT- FEEDER GASKET 8-10 mm	- 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)
MICRODCKIT-LT- FEEDER GASKET 6-8 mm	- 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)
MICRODCKIT-LT-DROP GASKET 2X6-7 mm	- 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)
MICRODCKIT-LT-DROP GASKET 3 X 5-6 mm	- DROP GASKET 3 HOLES 5-6 mm (12 pcs) - DUMMY GASKET (36 pcs) - ADHESIVE VELCRO (1 m) - CABLE CLIP (36 cs) - NYLON TIE-WRAP 100X2.5 (72 pcs)
MICRODCKIT-LT- DROP GASKET 4 X 2.5-3.5 mm	- 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)
MICRODCKIT-LT-DROP GASKET 9 X 2-3 mm	- 9 HOLES 2-3 mm DROP GASKET (12 pcs) - CABLE CLIP (36 pcs) - NYLON TIE-WRAP 100X2.5 (72 pcs) - ADHESIVE VELCRO (1 m)
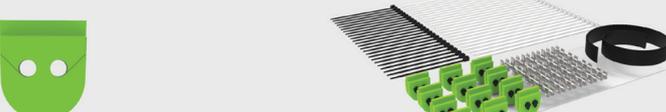
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MICRODC DIFFERENT INSTALLATIONS

MICRODC-SLACK BRACKET

Easy "fixand remove" system allows to permanetely secure the bracket to the pole (or to the wall) and detach quickly the closure and the stored cables.
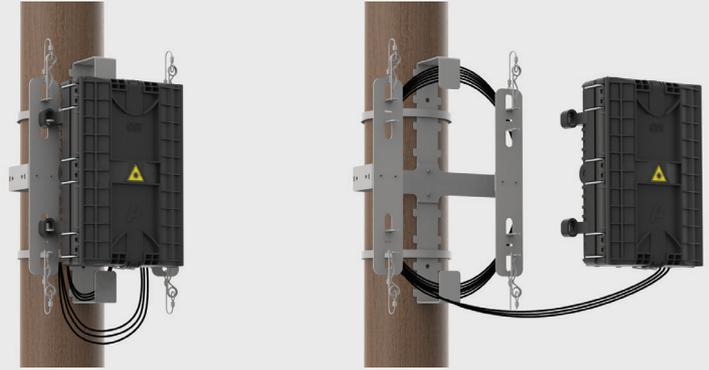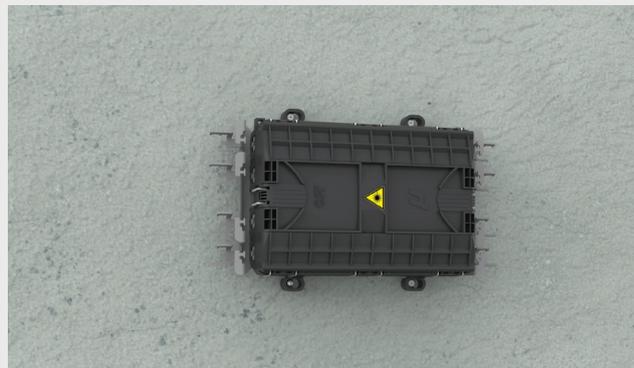

MICRODC HANGER KIT

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 eavy duty cables installation and allows the fixation of the cables by suitable jubilee clips.
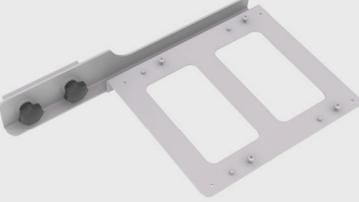

MB-MICRODCKIT

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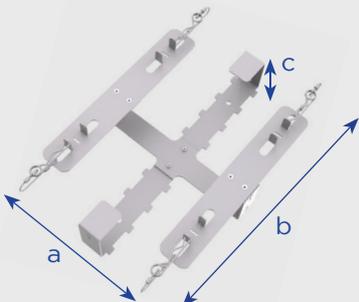
KIT CODE EXTENTION AND PICTURE	DESCRIPTION
MICRODC HANGER KIT	For suspension and fixation to ADSS cables (range 5-25 mm diam.)
MICRODC-CABLE STEEL PLATE	For heavy duty armoured cables external fixation
MICRODC-SLACK BRACKET	Slack storage and easy fix bracket for pole/wall anchorage. (i.e. 20m of 7mm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