

OPTOTECH

OPTOTECH
OPTICAL TECHNOLOGIES

OPT-B-2020-03

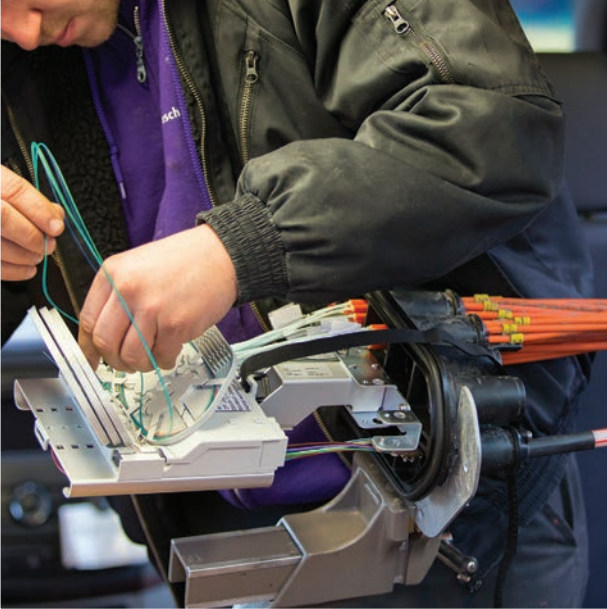
FOCUS ODC2 CODC2
FOCUS DOC2 CDOC2
FOCUS MSC
FOCUS ODCKIT CODCKIT

ENGLISH

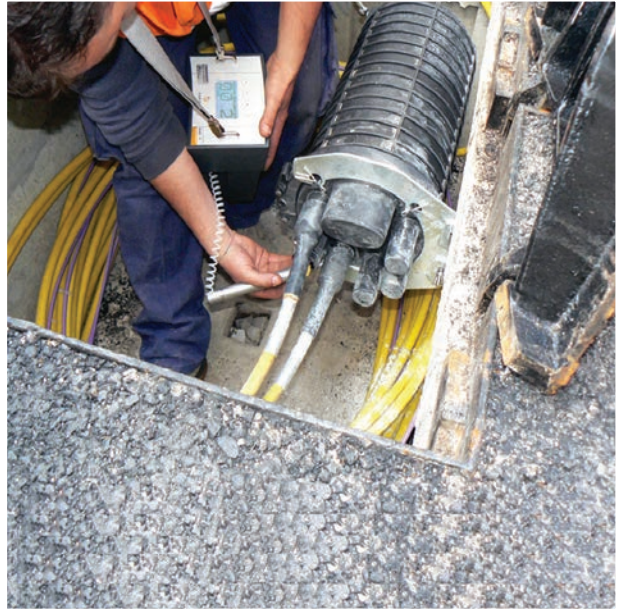


INSTALLATIONS ON SITE OF OUR CLOSURES

FIBERS SPLICING



HANDHOLE



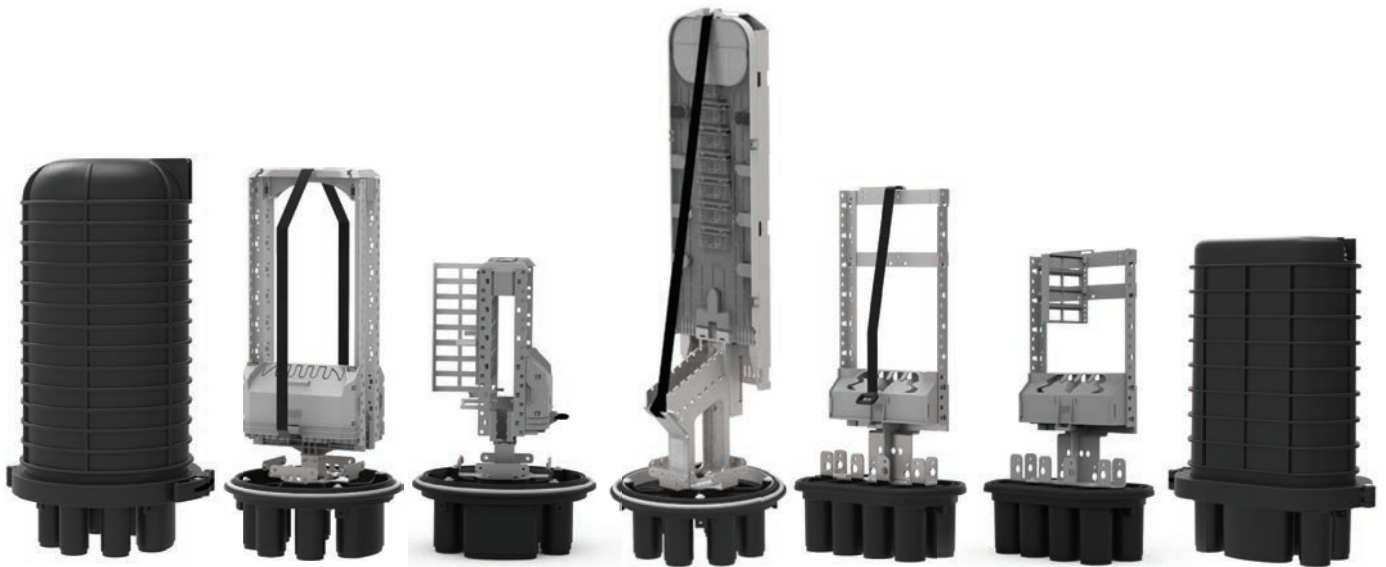
UNDERGROUND



POLE



PATCH AND SPLICE CLOSURES



Optotec has a wide range of closures matching every needs in telecommunications networks. They are watertight containers (IP68, IEC 529) able to join and terminate traditional cables and micro-cables with G652 and G657 fibers, used for underground networks, in handholes, manholes and for aerial, wall or pole applications. These types of closures consist of a BASE and a DOME, available in different configurations and customizable according to clients' specific needs.

The locking happens through the CLAMP and the appropriate silicone gasket that guarantees the seal. The BASE, available in various configurations, is able to manage uncut and cut cables; the stack aimed to contain the FOCUS SAM HD or SAMX modules for the fibers' storage and junction is mounted on it. All Optotec's closures can be equipped with an RFID system.

APPLICATION

For in line closures, branch joints and pot-head

Cables junctions in outdoor networks:
aerial networks, pole, wall
underground networks, inside handholes / manholes

TECHNICAL FEATURES

High quality thermoplastic material - watertight BASE and DOME (IP68, IEC 529) with clamp and O-ring system

Management Capability of various types of tube cables, slotted core and ribbon

Easy access to the junction area through CLAMP opening equipped with a guided locking

Area dedicated to uncut fibres or continuous cables (loop cable)

Internal STACK can be configurable with FOCUS SAM HD or SAMX modules or MST trays according to the junction's purposes

The BASE is suitable both the heat-shrinking sealingkit and cold sealing kit (BASE A and BASE C)

TO FIGURE OUT OPTOTEC'S CLOSURES

- 1 STACK
- 2 MST TRAY
- 3 MIXER
- 4 DOME
- 5 BASE
- 6 CLAMP



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CON CX CP OSP CO FOCUS

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ODC2 SPLICE ONLY CLOSURE

FOCUS ODC2 are externally made of a BASE and a DOME, both available in 3 sizes A and B; they can be switchable among them. The BASE is supplied with a STACK on which it is possible to mount the junction modules of the FOCUS SAMX series. Thanks to this versatility, it is possible to create different combinations according to customers' needs. The internal space of the junction modules fixing STACK can be used as a storage for the loop cables, containing the optical fibers not involved in the junction.



FOCUS ODC2 CLOSURES

B DOME VERSION

ODC DIMENSIONS INCLUDING B DOME
h 525 mm Ø 247 mm

A DOME VERSION

ODC DIMENSIONS INCLUDING A DOME
h 390 mm Ø 247 mm

CLAMP

ODC2 LOCKING CLIP
Ø 285 mm

A BASE - Ø 247 mm

1 OVAL PORT (14 ~ 25)
 6 ROUND (8 ~ 28)
 FOR FOCUS ODCKIT*
 COLD AND HEATH PORT

B BASE - Ø 247 mm

1 OVAL PORT (14 ~ 25)
 6 ROUND (6 ~ 20)
 6 ROUND (6 ~ 14)
 FOR FOCUS ODCKIT*
 HEATH PORT

C BASE - Ø 247 mm

2 OVAL PORT (14 ~ 25)
 8 ROUND (8 ~ 28)
 FOR FOCUS ODCKIT*
 COLD AND HEATH PORT

STACK

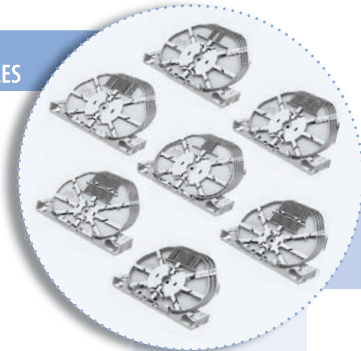
FOR MODULES FIXING

For managing in and out cables, choose Optotec sealing kits; FOCUS ODCKIT for heath or cold management, heath-shrinkable

REFERENCE PN	DESCRIPTION
FOCUS-ODC2-AA	SPLICING closure with 1 oval & 6 round ports base (Total height =390 mm)
FOCUS-ODC2-AB	SPLICING closure with 1 oval & 6 round ports base (Total height =525 mm)
FOCUS-ODC2-BA	SPLICING closure with 1 oval & 18 round ports base (Total height =390 mm) – unmixable with cold round sealing A base
FOCUS-ODC2-BB	SPLICING closure with 1 oval & 18 round ports base (Total height =525 mm) - unmixable with cold round sealing A base
FOCUS-ODC2-CB	SPLICING closure with 2 oval & 8 round ports base (Total height =525 mm)

ODC2 SPLICE ONLY CLOSURES

SAMX MODULES



SPLICE MODULES TYPES AND FEATURES

SERIES	TRAYS TYPE	TOT. NO. OF TRAYS PER EACH MODULE	NUMBER OF SPLICES PER TRAY	TRAY WITH SPLICES TYPE	
				C = FIBERCLIP	H = FIBERTERM
SAMX	HD	4	12	C	
SAMX	HD	4	12	H	
SAMX	HD	6	8	H	
SAMX	HD	6	12	C	
SAMX	HD	6	12	H	
SAMX	HD	3	24	H	
SAMX	HD	4	24	H	

A BASE
 Ø 247 mm
 1 OVAL PORT (14 ~ 25)
 6 ROUND (8 ~ 28)



B BASE
 Ø 247 mm
 1 OVAL PORT (14 ~ 25)
 6 ROUND (6 ~ 20)
 6 ROUND (6 ~ 14)



C BASE
 Ø 247 mm
 2 OVAL PORT (14 ~ 25)
 8 ROUND (8 ~ 28)



SAMX	HD	4	12	C	
SAMX	HD	4	12	H	
SAMX	HD	6	8	H	
SAMX	HD	6	12	C	
SAMX	HD	6	12	H	
SAMX	HD	3	24	H	
SAMX	HD	4	24	H	

SAMX	HD	4	12	C	
SAMX	HD	4	12	H	
SAMX	HD	6	8	H	
SAMX	HD	6	12	C	
SAMX	HD	6	12	H	
SAMX	HD	3	24	H	
SAMX	HD	4	24	H	

A DOME		B DOME	
TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY	TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY
24	288	56	672
24	288	56	672
36	288	84	672
36	432	84	1008
36	432	84	1008
18	432	42	1008
24	576	56	1344

24	288	56	672
24	288	56	672
36	288	84	672
36	432	84	1008
36	432	84	1008
18	432	42	1008
24	576	56	1344

56	672
56	672
84	672
84	1008
84	1008
42	1008
56	1344

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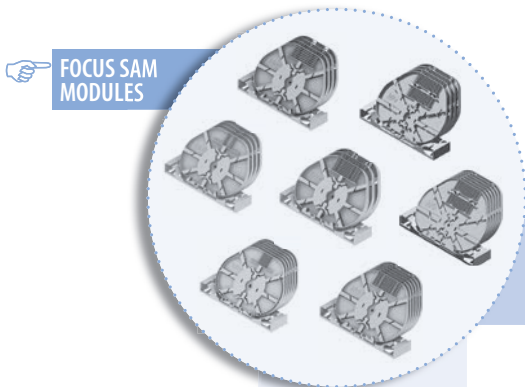
CON CX CP OSP CO FOCUS

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ODC SPLICE ONLY CLOSURES

FOCUS ODC are externally made of a BASE and a DOME, both available in size C; they can be switchable. The BASE is supplied with a STACK on which it is possible to mount the junction modules of the FOCUS SAM series. Thanks to this versatility, it is possible to create different combinations according to customers' needs. The internal space of the junction modules fixing STACK can be used as a storage for the loop cables, containing the optical fibers not involved in the junction.



A BASE
 Ø 247 mm
 1 OVAL PORT (14 ~ 25)
 6 ROUND (8 ~ 28)



C BASE
 Ø 247 mm
 2 OVAL PORT (14 ~ 25)
 8 ROUND (8 ~ 28)



SERIES	TRAYS TYPE	TOT. NO. OF TRAYS PER EACH MODULE	NUMBER OF SPLICES PER TRAY	SPLICE MODULES TYPES AND FEATURES	
				TRAY WITH SPLICES TYPE	
FOCUS SAM	HD	4	12	C	
FOCUS SAM	HD	4	12	H	
FOCUS SAM	HD	6	8	H	
FOCUS SAM	HD	6	12	C	
FOCUS SAM	HD	6	12	H	
FOCUS SAM	HD	3	24	H	
FOCUS SAM	HD	4	24	H	

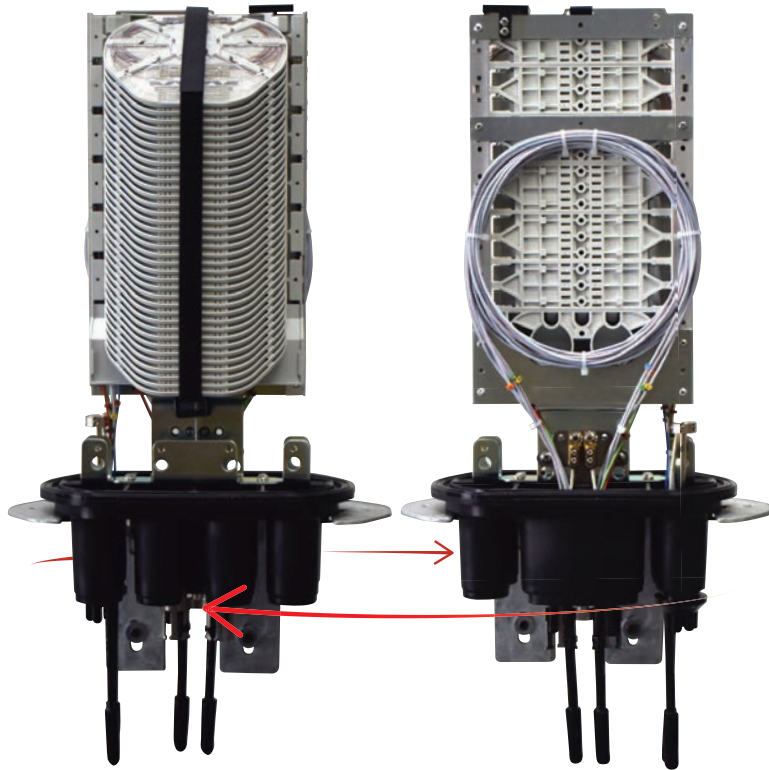
FOCUS SAM	HD	4	12	C	
FOCUS SAM	HD	4	12	H	
FOCUS SAM	HD	6	8	H	
FOCUS SAM	HD	6	12	C	
FOCUS SAM	HD	6	12	H	
FOCUS SAM	HD	3	24	H	
FOCUS SAM	HD	4	24	H	

C DOME	
TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY
88	1056
88	1056
132	1056
132	1584
132	1584
66	1584
88	2112

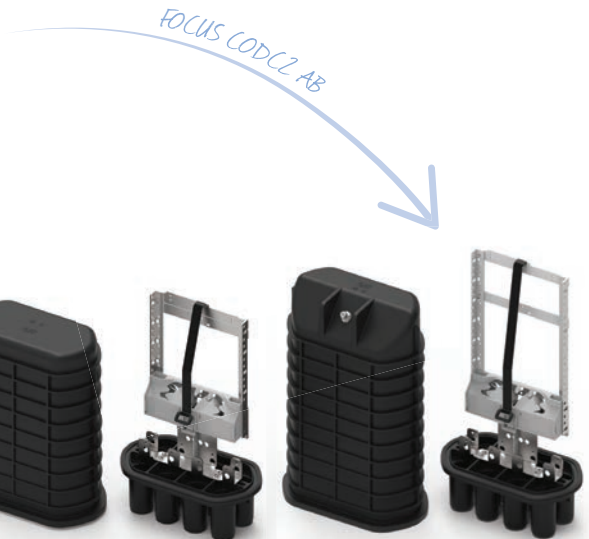
88	1056
88	1056
132	1056
132	1584
132	1584
66	1584
88	2112

REFERENCE PN	DESCRIPTION
FOCUS-ODC-AC	SPLICING closure with 1 oval & 6 round ports base (Total height = 770 mm)
FOCUS-ODC-CC	SPLICING closure with 2 oval & 8 round ports base (Total height = 770 mm)

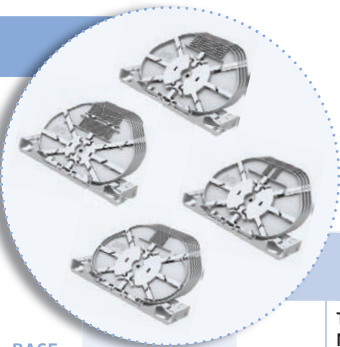
CODC2 COMPACT SPLICE ONLY CLOSURES



FOCUS CODC2 are the compact version of the ODC2 closures. These closures are externally made of a BASE and a DOME, both available in 2 sizes A and B. The flat rectangular shape allows the installation of the closure inside handholes. The back space of the junction modules fixing STACK can be used as a storage for the uncut cables, containing the optical fibers not involved in the junction.



SAMX MODULES



A OVAL BASE
 L 270 mm P150 mm
 1 OVAL PORT (14 ~ 25)
 6 ROUND (8 ~ 28)



SPLICE MODULES TYPES AND FEATURES					A OVAL DOME		B OVAL DOME	
SERIES	TRAYS TYPE	TOTAL NUMBER OF TRAYS PER EACH MODULE	NUMBER OF SPLICES PER TRAY	TRAY WITH SPLICES TYPE C = FIBERCLIP H = FIBERTERM	TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY	TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY
SAMX	HD	4	12	C	16	192	24	288
SAMX	HD	4	12	H	16	192	24	288
SAMX	HD	6	12	C	24	288	36	432
SAMX	HD	6	12	H	24	288	36	432

REFERENCE PN	DESCRIPTION
FOCUS-CODC2-AA	COMPACT SPLICING closure with oval A BASE 6 ports + A Dome (Total height =380 mm)
FOCUS-CODC2-AB	COMPACT SPLICING closure with oval A BASE 6 ports + B Dome (Total height =450 mm)

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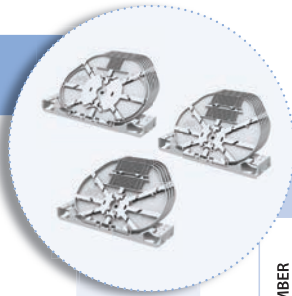
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DOC2 & CDOC2 SPLICE AND PATCH CLOSURE

FOCUS **DOC2** (Demarcation Optical Closure Version 2) and FOCUS **CDOC2** (Compact Demarcation Optical Closure Version 2) are the patch version of Optotec's closures. Inside to these closures is possible both splice and Patch thanks to particular frame for SC or LC duplex adapters.



SAMX MODULES



SPLICE MODULES TYPES AND FEATURES

SERIES	TRAYS TYPE	TOT. NUMBER OF TRAYS PER EACH MODULE	NUMBER OF SPLICES PER TRAY	TRAY WITH SPLICES TYPE	
				C = FIBERCLIP	H = FIBERTERM
SAMX	HD	6	12	C	
SAMX	HD	6	12	H	
SAMX	HD	4	24	H	

A BASE
 Ø 247 mm
 1 OVAL PORT (14 ~ 25)
 6 ROUND (8 ~ 28)

A OVAL BASE
 L 270 mm P 150 mm
 1 OVAL PORT (14 ~ 25)
 6 ROUND (8 ~ 28)

A DOME

TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY	MAXIMUM PATCH CAPACITY
18	216	48 SC o LC
18	216	48 SC o LC
12	288	48 SC o LC

OVAL A DOME

TOTAL NUMBER OF TRAYS	MAXIMUM SPLICE CAPACITY	MAXIMUM PATCH CAPACITY
6	72	24 SC o LC
6	72	24 SC o LC
4	96	24 SC o LC

REFERENCE PN	DESCRIPTION
FOCUS-DOC2-AA-48	ATCH AND SPLICE closure with A base 1 oval and 6 round + B DOME. Suitable for 48 SC or LC connectors (not included). (Total height 525mm)
FOCUS-CDOC2-AA-24	COMPACT PATCH AND SPLICE closure with oval A base 6 ports + A DOME. Suitable for 24 SC or LC connectors (not included). (Total height 380mm)

FOCUS **CO** **OSP** **CP** **CK** **CON**

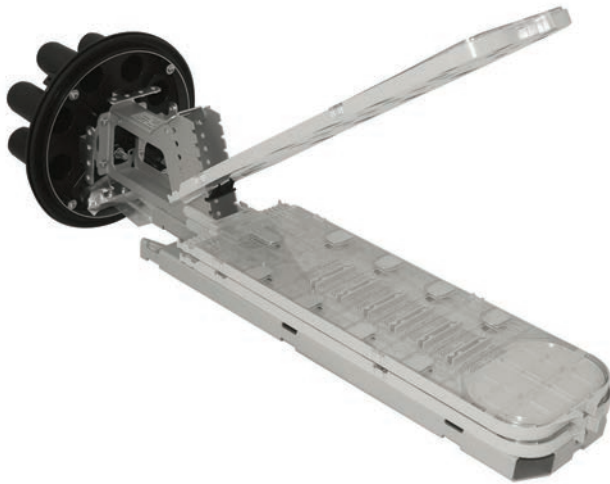
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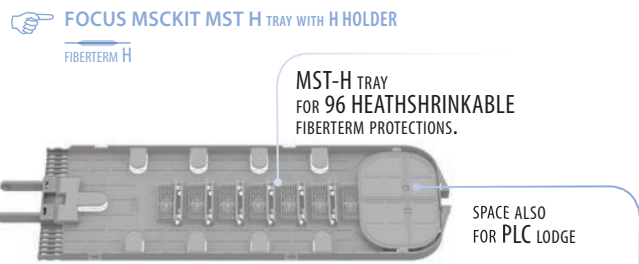
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MSC AC SPLICE CLOSURE WITH TRAYS MST

The FOCUS-MSC-AC watertight closure (IP68, IEC 529) was created for the management and the splicing of high capacity fiber optic cables. Differently to the other Optotec's closure, it accommodates FOCUS MST trays, up to max. 8. FOCUS MST trays are splice only and they have a maximum capacity of 96 f.o. joints, both heath shrinkable FIBERTERM and mechanical FIBERCLIP. In the upper part of the tray it is possible to allocate PLC.



MAXIMUM SPLICE CAPACITY DEPENDS ON TRAYS NUMBER (MAX. 8)



For managing in and out cables, choose Optotec sealing KITS; FOCUS ODCKIT for heath or cold management, heath-shrinkable.

HERE BELOW FOCUS MSC AC OPTOTEC'S PROPOSAL



REFERENCE PN	DESCRIPTION
FOCUS-MSC-AC-H1	MSC CLOSURE with C Dome and A Base (1 oval ports and 6 round) – includes 1 FOCUS-MSCKIT-MST-H tray
FOCUS-MSCKIT-MST-H	High capacity tray for 96 fibers max with FIBERTERM Holder – tray cover included
FOCUS-MSC-AC-C1	MSC CLOSURE with C Dome and A Base (1 oval ports and 6 round) – includes 1 FOCUS-MSCKIT-MST-C tray
FOCUS-MSCKIT-MST-C	High capacity tray for 96 fibers max with FIBERCLIP Holder – tray cover included

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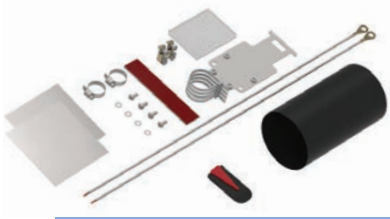




ODCKIT CCSO - CCSR COLD SEALING

KIT CODE AND PICTURE	SEALING TYPE	CABLE MANAGEMENT CAPACITY		USE ON BASE TYPE			
		MAX CABLES NO.	CABLE Ø RANGE MIN-MAX	OVAL A 	ROUND A 	ROUND B 	ROUND C 
FOCUS-ODCKIT-CCSO-2x20 	OVAL COLD SEALING	2	10 - 20 mm	YES 1 KIT maximum	YES 1 KIT maximum	YES 1 KIT maximum	YES 2 KITS maximum
FOCUS-ODCKIT-CCSO-4x10 	OVAL COLD SEALING	4	5 - 10 mm	YES 1 KIT maximum	YES 1 KIT maximum	YES 1 KIT maximum	YES 2 KITS maximum
FOCUS-ODCKIT-CCSR-1x20 	ROUND COLD SEALING	1	12 - 20 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 8 KITS maximum
FOCUS-ODCKIT-CCSR-2x12 	ROUND COLD SEALING	2	8 - 12 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 8 KITS maximum
FOCUS-ODCKIT-CCSR-4X10 	ROUND COLD SEALING	4	7 - 10 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 8 KITS maximum
FOCUS-ODCKIT-CCSR-6X8,6 	ROUND COLD SEALING QUICK-LOCK	6	7 - 8,6 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 8 KITS maximum

ODCKIT CCSO - CCSR COLD SEALING

KIT CODE AND PICTURE	SEALING TYPE	CABLE MANAGEMENT CAPACITY		USE ON BASE TYPE			
		MAX CABLES NO.	CABLE Ø RANGE MIN-MAX	OVAL A 	ROUND A 	ROUND B 	ROUND C 
FOCUS-ODCKIT-CCSR-6X8 	ROUND COLD SEALING	6	6 - 8 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 8 KITS maximum
FOCUS-ODCKIT-CCSR-8X6 	ROUND COLD SEALING	8	4 - 6,4 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 8 KITS maximum
FOCUS-ODCKIT-CCSR-8X4 	ROUND COLD SEALING	8	3 - 5,5 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 6 KITS maximum
FOCUS-ODCKIT-CCSR-16X3 	ROUND COLD SEALING	16	0 - 3 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 8 KITS maximum



ODCKIT SEAL LT HEATH SHRINKABLE SEALING

KIT CODE AND PICTURE	SEALING TYPE	CABLE MANAGEMENT CAPACITY		USE ON BASE TYPE			
		MAX CABLES NO.	CABLE Ø RANGE MIN-MAX	OVAL A 	ROUND A 	ROUND B 	ROUND C 
FOCUS-ODCKIT-OVAL PORT SEAL LT 	HEATH-SHRINKABLE OVAL SEALING	2	14 ~ 25 mm	YES 1 KIT maximum	YES 1 KIT maximum	YES 1 KIT maximum	YES 2 KITS maximum
FOCUS-ODCKIT-ROUND PORT A SEAL LT 	HEATH-SHRINKABLE ROUND SEALING	1 (2)	8 ~ 28 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 8 KITS maximum
FOCUS-ODCKIT-ROUND PORT B SEAL LT 	HEATH-SHRINKABLE ROUND SEALING	1	6 ~ 20 mm	NO	NO	YES 18 KITS 6 KITS with cable Ø 6 ~ 20 mm and 12 KITS with cable Ø 6 ~ 14 mm	NO
FOCUS-ODCKIT-CAVO DROP + PRED. 2° 	HEATH-SHRINKABLE SEALING AND SECOND CABLE CONFIGURATION ROUND A	1 (2)	6 ~ 14 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 6 KITS maximum
FOCUS-ODCKIT-2° CAVO DROP 	HEATH-SHRINKABLE SEALING AND SECOND CABLE CONFIGURATION ROUND A	1	6 ~ 14 mm	YES 6 KITS maximum	YES 6 KITS maximum	NO	YES 6 KITS maximum

ODCKIT FOR CABLES FIXING

KIT CODE AND PICTURE	KIT FEATURES	USE ON CLOSURES TYPE:		
		CDOC2- CDC2	ODC2 - DOC2	MSC
FOCUS-ODCKIT WMB 	WALL MOUNTING BRACKET			
FOCUS-ODCKIT WMB TRALICCIO 	POLE MOUNTING BRACKET	NO	YES	YES
FOCUS-CODCKIT WMB 	WALL MOUNTING COMPACT BRACKET	YES	NO	NO
FOCUS-CODCKIT WMB TRALICCIO 	POLE MOUNTING COMPACT BRACKET	YES	NO	NO
FOCUS-ODCKIT-PHMK 	POT-HEAD MOUNTING BRACKET FOR ODC CLOSURES	YES	YES	YES
FOCUS-CODCKIT-CFP 	TUBES OR CABLES FIXING BRACKET MATCH THIS ITEM TO FOCUS-ODCKIT-WMB FOCUS-CODCKIT-WMB	1X	JUST WITH A BASE CLOSURES	2X
FOCUS-ODCKIT-PMK 	POLE MOUNTING BRACKET MATCH THIS ITEM TO FOCUS-ODCKIT-WMB FOCUS-CODCKIT-WMB	YES	YES	YES

ODCKIT FOR CABLES FIXING

KIT CODE AND PICTURE	KIT FEATURES	USE ON CLOSURES TYPE:		
		CODC2- CDOC2	ODC2 - DOC2	MSC
<p>FOCUS-ODCKIT-TAP</p>	ARMOURED CABLES GROUND FEED-THROUGH			
<p>FOCUS-ODCKIT-OPS-CC</p>	OVAL HEATH-SHRINKABLE SEALING FOR SLOTTED CORE CABLES	YES	JUST WITH A BASE AND C BASE CLOSURES	YES
<p>FOCUS-ODCKIT-RPS-CC</p>	ROUND HEATH-SHRINKABLE SEALING FOR SLOTTED CORE CABLES	YES	JUST WITH A BASE AND C BASE CLOSURES	YES
<p>FOCUS-CODCKIT-SGBP</p>	ANTI-HUNTING PROTECTION FOR POLE MOUNTING CODC CLOSURE	YES	NO	NO
<p>FISSAGGIO SCORTE CAVI AEREI</p>	EXTRA LENGTH AERIAL CABLES FIXING			
<p>DISPERSORE SCORTA CAVI OTTICI IN PALIF.</p>	EXTRA LENGTH AERIAL CABLES FIXING			

OPT Closures ODC2 DOC2

AD HOC COLOR, PACKAGING?... WE ARE INTO IT!

OPTOTEC IS ABLE TO SUPPLY PRELOADED CLOSURES ACCORDING TO CUSTOMER'S NEEDS, EQUIPPED WITH EVEN COLORED SPLICE CASSETTES, SC OR LC DUPLEX ADAPTERS' STACK, MANAGEMENT CABLES AND FIXING KIT.

CONTACT OUR OFFICES!



CUSTOMIZE YOUR OWN VERSION!

ABOUT US

Founded in 1992, Optotec was born with the aim to provide high quality fiber optic products to the European markets. Since 1997, Optotec has become part of the NTET Group.

Optotec provides a complete range of solutions for the telecommunications and FTTH networks. We are able to offer a variety of products that connect, protect and seal the optical fiber network which includes: Central Office (CO) - racks, sub-racks and passive components; Outside Plant (OSP) - closures, cabinets, pedestals; Customer Premises (CP) - termination boxes and outlets;

as well as other customized products!

Through a combination of strength and leadership in the national market, Optotec became an innovative and cost effective solutions partner for communications infrastructure.

The headquarters in Milan is committed to research and development, manufacturing and customer service support. In addition to the leadership in Italy, Optotec expanded its activity throughout Europe with local partnership, designing and manufacturing customized products based on specific requirements.

WHERE WE ARE

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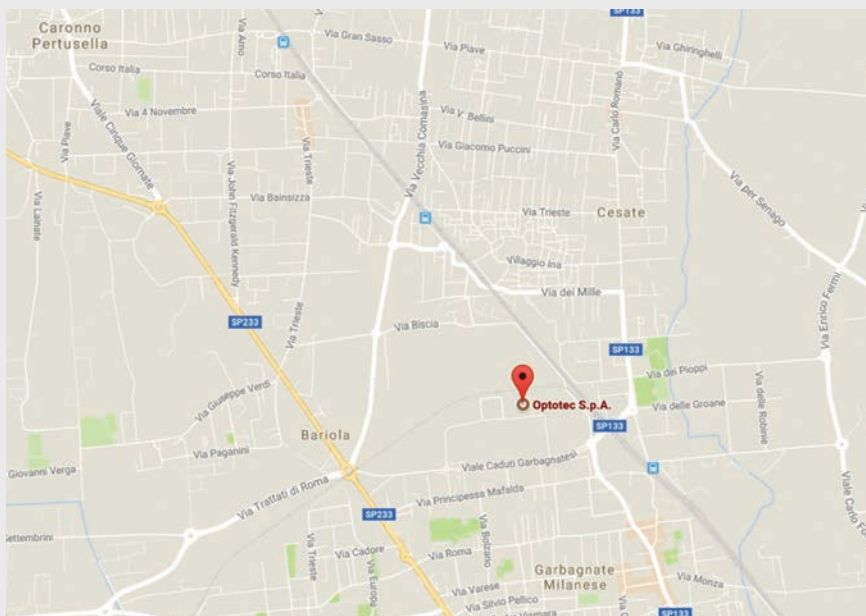
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THE GROUP



NTET Group is made of Italian companies that mutually cooperate in researching, designing, producing and trading products for the telecommunications, energy, transport and industry sectors.



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