

FIBRE OPTIC CLOSURES STANDARD KIT

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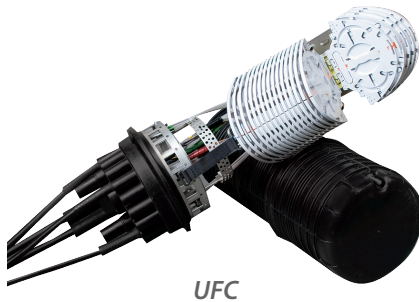
Chapter four is dedicated to solutions utilized in telecommunication access network infrastructure. The range of products covers the STANDARD KIT used in central offices, feeder cable storage chambers, telecom manholes and telecommunication poles where cable excess lengths are stored and feeder cables fibre splices are organised and protected.

The fibre optic closures are used for environmental protection and organisation of fibres and splices. The splices are arranged in specially designed trays. The range of offered splice protections includes fibre optic closures with built-in adapter plate enabling optical links cross connections. This kind of closures are widely applied in nowadays vastly developing PON access networks. The closures feature excellent environmental protection, a variety of cable port configurations, compact construction and possibility of installation in telecom chambers as well as on telecommunication poles.

For proper storage of optical fiber cable excess lengths, spare length cable racks and boxes are used. Our rich product offer enables selection of the products tailored to the installation site, desired capacity as well as the degree of stored cables protection. Spare length cable racks and boxes are intended for use in cable chambers, central offices, manholes and telecommunication poles.

In the following chapter, underground plastic chambers can be found. They are used for storing spare cable lengths with a possibility of placing the splice closures inside them. They are used in places, where telecommunication manholes do not exist, yet a solid connection of optical fibre cables and storage of appropriate spare length are required. The pits are designed and supplied by OPTOMER. They are designed to resist temporary loads of heavy vehicles. In addition they are cost effective and very easy to install.

UFC FIBRE OPTIC SPLICE CLOSURE



FEATURES:

- fibre optic closure used in underground and aerial networks
- up to 36 KSH or SMF splice trays
- maximum 24 splices in a splice tray with min. fiber bending radius of 38 mm
- glass fibre reinforced, UV stabilised plastic cap
- possibility of storing reserves of uncut, loose loops of feeder cable tubes
- environmentally sealed to the base with an "o" ring
- clamp enabling easy and multiple access to the interior of the closure
- environmental cable sealing with heatshrink sleeves or CABLELOK rubber cable sealings
- possibility of mounting the closure with OH-3 bracket
- using fibre manifolds R-06 enables proper fibre distribution to splice trays
- large capacity, up to 864 splices
- recommended cable retention frames:
SZ-3 (wooden poles)
SZ-2 (telecommunication manholes)

EQUIPMENT:

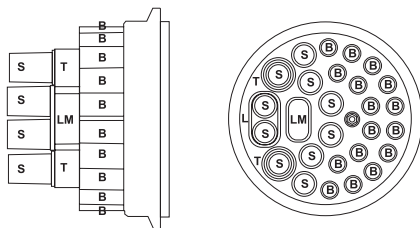
- splice enclosure
- KSH or SMF splice trays
- CABLELOK Cable Sealings or heatshrink sleeves - set
- brackets and tags

OPTIONAL EQUIPMENT:

- fibre manifold R-06
- OH-3 bracket
- additional CABLELOK Cable Sealings

TECHNICAL SPECIFICATIONS:

	UFC2770	UFC2844	UFC2845	UFC2846	UFC2847	UFC2848	UFC2794	UFC2868	UFC2869	UFC2870	UFC2871	UFC2872	UFC2834	UFC2835	UFC2836	UFC2840	UFC2841	UFC2842
cable port types	28 round (16x8, 2xT, 10xS) i 2 oval (1xL, 1xLM)																	
cable diameter range [mm]	4,8 - 36																	
number of splice trays	6	12	18	24	30	36	6	12	18	24	30	36	24	30	36	24	30	36
type/capacity of splice tray	KSH/12												SMF/24					
maximum number of splices	72	144	216	288	360	432	72	144	216	288	360	432	576	720	864	576	720	864
cable sealing	heatshrink						Cablelok						heatshrink	Cablelok				
dimensions height/diameter [mm]	400/ø275	600/ø275	750/ø275				400/ø275	600/ø275	750/ø275									
fixing	OH-3																	
weight [kg]	6	7	8				6	7	8									
environmental IP protection	IP67																	



Entry configuration
in the base

ENTRY CONFIGURATION IN THE BASE:

cable port	number of cable ports	CABLELOK seal	cable diameter range [mm]	
			Cablelok	heatshrink
L	1	L10C, L20C, L30C, L40C, L50C	2 x 13,0 - 22,0	2 x 12,0 - 24,0
B	16	B10, B20, B30	4,8 - 16,5	6,0 - 19,0
T	2	T10, T20, T30, T40	15,5 - 29,0	12,0 - 35,0
S	10	S10, S20, S30D, S40, S50	5,0 - 20,0	12,0 - 26,0
LM	1	LM10C, LM20C, LM30C, LM40C	2 x 9,5 - 22,0	2 x 8,0 - 22,0

Detailed offer of Cablelok Cable Sealings on page 85.

ORDERING:

UFC2848- fibre optic splice closure with 36 KSH splice trays for 432 splices



KSH splice tray



SMF splice tray

FRBU FIBRE OPTIC SPLICE CLOSURE

FEATURES:

- fibre optic closure used in underground and aerial networks
- up to 6 Hellapon splice trays
- 12 (max. 16) splices in a splice tray
- plastic cap ended glass fibre reinforced, UV stabilised
- possibility of storing reserves of uncut, loose loops of feeder cable tubes
- environmentally sealed to the base with an "o" ring
- clamp enabling easy and multiple access to the interior of the closure
- environmental cable sealing with heatshrink sleeves or CABLELOK rubber cable sealings
- possibility of mounting the enclosure with OH-3 or ACC1037 bracket
- employed for cables of capacity of up to 72 fibers (max. 96)
- recommended cable retention frames:
 - SZ-3 (wooden poles)
 - SZ-2 (telecommunication manholes)

EQUIPMENT:

- splice enclosure
- hellapon splice trays
- Cablelok Cable Sealings or heatshrink sleeves - set
- brackets and tags

OPTIONAL EQUIPMENT:

- OH-1 or ACC1037 bracket
- additional CABLELOK Cable Sealings

TECHNICAL SPECIFICATIONS:

	FRBU1313	FRBU1314	FRBU1315	FRBU1323	FRBU1324	FRBU1325
cable port types	1 oval (L), 8 round (4xB, 4xR)					
cable diameter range [mm]	4,8 - 24					
number of splice trays	2	4	6	2	4	6
type/capacity of splice tray	Hellapon/12 (maks. 16)					
maximum number of splices	24	48	72	24	48	72
cable sealing	heatshrink			Cablelok		
dimensions height/diameter [mm]	435/ø130					
fixing	two OH-1 brackets					
weight [kg]	2					
environmental IP protection	IP67					

Detailed offer of Cablelok Cable Sealings on page 85.

ENTRY CONFIGURATION IN THE BASE:

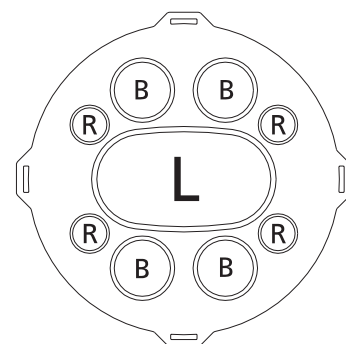
cable port	number of cable ports	CABLELOK seal	cable diameter range [mm]	
			Cablelok	heatshrink
L	1	L10C, L20C, L30C, L40C, L50C	2 x 13,0 - 21,5	2 x 8,0 - 24,0
B	4	B10, B20, B30	4,8 - 16,5	6,0 - 18,0
R	4	R10, R10D, R20, R30D, R40, R50, R70, R80	1,7 - 9,5	4,0 - 11,0

ORDERING:

FRBU1313 - fibre optic splice closure with 2 splice trays for 24 splices



Fibre Optic Closure FRBU



Entry configuration in the base

FDN FIBRE OPTIC SPLICE CLOSURE



Fibre Closure FDN

FEATURES:

- fibre optic closure used in underground and aerial networks
- enables mounting up to 12 KSH or SMF splice trays
- max. 24 splices in SMF splice tray with min. fiber bending radius of 38 mm
- glass fibre reinforced, UV stabilised plastic cap
- possibility of storing reserves of uncut, loose loops of feeder cable tubes
- clamp enabling easy and multiple access to the interior of the closure
- environmentally sealed to the base with an "o" ring
- environmental cable sealing with heatshrink sleeves (not for R type cable ports) or CABLELOK rubber cable sealings
- possibility of mounting the closure with OH-3 bracket
- large number of entries in the base
- recommended cable retention frames:
 - SZ-3 (wooden poles)
 - SZ-2 (telecommunication manholes)

EQUIPMENT:

- splice enclosure
- KSH or SMF splice trays
- brackets and tags
- CABLELOK Cable Sealings or heatshrink sleeves - set

OPTIONAL EQUIPMENT:

- OH-3 bracket
- OH-6 bracket
- additional CABLELOK Cable Sealings

TECHNICAL SPECIFICATIONS:

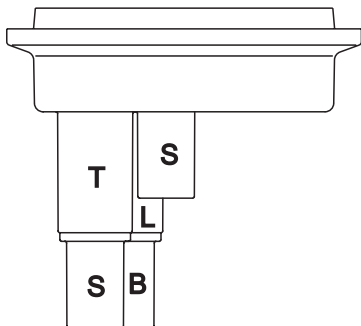
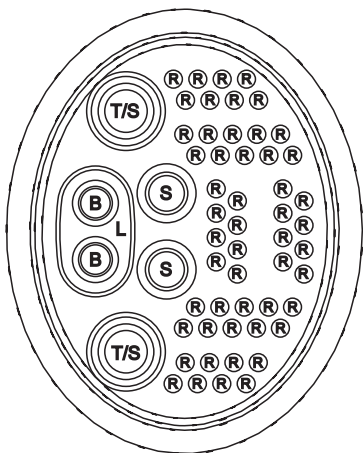
	FDN3583	FDN3584	FDN3585	FDN3586	FDN4029
cable port types	1 oval (L), 60 round (52xR, 4xS, 2xT, 2xB)				
cable diameter range [mm]	1,7 - 35				
number of splice trays	12				20
type/capacity of splice tray	KSH/12		SMF/24		
maximum number of splices	144		288		480
cable sealing	Cablelok	Cablelok, heatshrink	Cablelok	Cablelok, heatshrink	
dimensions height/diameter [mm]	455/312/222				663/312/222
fixing	OH-3				OH-3, OH-6
weight [kg]	4,2				4,8
environmental IP protection	IP67				

ENTRY CONFIGURATION IN THE BASE:

cable port	number of cable ports	CABLELOK seal	cable diameter range [mm]	
			Cablelok	heatshrink
L	1	L10C, L20C, L30C, L40C, L50C	2 x 13,0 - 22,0	2 x 12,0 - 24,0
B	2	B10, B20, B30	4,8 - 16,5	6,0 - 19,0
T	2	T10, T20, T30, T40	15,5 - 29,0	12,0 - 35,0
S	4	S10, S20, S30D, S40, S50	5,0 - 20,0	12,0 - 26,0
R	52	R10, R10D, R20, R30D, R40, R50, R70, R80	1,7 - 9,5	-

ORDERING:

FDN3883 - fibre optic splice closure with 12 splice trays for 144 splices



Entry configuration in the base

FDN FIBRE OPTIC SPLICE CLOSURE WITH IR SYSTEM

FEATURES:

- dedicated for use in underground, direct burial or aerial installations
- up to 36 SE splice trays (12 splices per tray) or 72 SC splice trays (4 splices per tray)
- 30 mm minimum fibre bending radius
- consistent fibre management system with colour coding
- fibres can be guided in two directions
- possibility of storing reserves of uncut, loose loops of feeder cable tubes
- low costs and short installation time
- possibility of installing optical splitters (max. dimensions : 70x20x6mm, installed in single splice tray)
- glass fibre reinforced, UV invulnerable UV stabilised plastic cap
- environmentally sealed to the base with an "o" ring
- environmental cable sealing with heatshrink sleeves (not for R type cable ports) or CABLELOK rubber cable sealings
- possibility of mounting with fixing brackets OH-3
- recommended cable retention frames:
 - SZ-3 (wooden poles)
 - SZ-2 (telecommunication manholes)

EQUIPMENT:

- IR Integrated Routing fibre management system
- splice enclosure
- kasety SE/12 or SC/4
- CABLELOK Cable Sealings or heatshrink sleeves - set
- brackets and tags

OPTIONAL EQUIPMENT:

- OH-3 bracket
- additional CABLELOK Cable Sealings

TECHNICAL SPECIFICATIONS:

	FDNIR-A	FDNIR-AB	FDNIR-B	FDNIR-C
cable port types	1 oval (L), 58 round (52xR, 2xS, 2xT/S, 2xB zamiast L)			
cable diameter range [mm]	1,7 - 35			
rodzaj/pojemność kaset	SE/12 or SC/4			
number of splice trays	6 SE or 12 SC	12 SE or 24 SC	24 SE or 48 SC	36 SE or 72 SC
max. number of splices	72 for SE or 48 for SC	144 for SE or 96 for SC	288 for SE or 192 for SC	432 for SE or 288 for SC
cable sealing	Cablelok or heatshrink (nie for cable glandu R)			
dimensions length/width/height [mm]	455/312/222	561/312/222	663/312/222	789/312/222

ENTRY CONFIGURATION IN THE BASE:

cable port	number of cable ports	CABLELOK seal	cable diameter range [mm]	
			Cablelok	heatshrink
L	1	L10C, L20C, L30C, L40C, L50C	2 x 5,5 - 20,0	2 x 10,0
B	2	B10, B20, B30	4,8 - 16,5	6,0 - 19,0
T	2	T10, T20, T30, T40	15,5 - 29,0	8,0 - 35,0
S	4	S10, S20, S30D, S40, S50	8,0 - 26,0	8,0 - 26,0
R	52	R10, R10D, R20, R30D, R40, R50, R70, R80	1,7 - 9,5	-

ORDERING:

FDNIR-C - fibre optic splice closure FDN IR with Integrated Routing system, 36 splice trays SE (12 splices each), cover type C

TELECOM

CATV

MAN

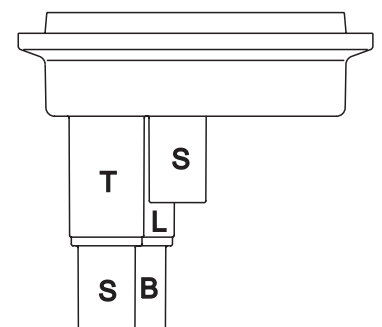
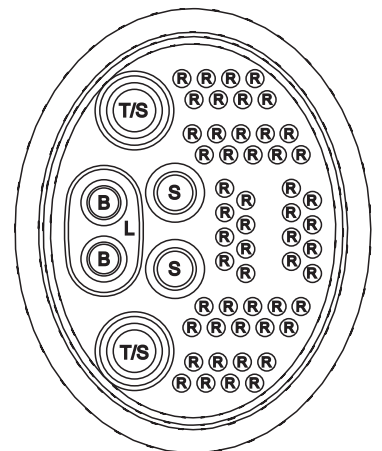
WAN

LAN

FTTx



FDN FIBRE OPTIC SPLICE CLOSURE z zintegrowanym



Entry configuration in the base

MUF-1 CLOSURE



MUF-1 Closure

FEATURES:

- fibre optic closure used in underground and aerial networks
- up to 6 KS-3E splice trays
- maximum 24 splices in a splice tray
- glass fibre reinforced, UV stabilised plastic cap
- environmentally sealed to the base with an "o" ring and a set of clamping screws
- possibility of using metal bushings accepting polyvinyl jacketed and OPGW (ground wire) cables
- environmental cable sealing with heatshrink sleeves on metal bushings
- employed for cables of capacity of up to 144 fibres
- possibility of mounting the closure with OH-3 bracket or WS-1 cantilever and OH-2 brackets
- in case of pylons, OH-3 mounting bracket is recommended
- recommended cable retention frames:
 - SZ-3 (wooden poles)
 - SZ-2 (telecommunication manholes)

EQUIPMENT:

- splice enclosure
- KS-3E splice trays
- brackets, allen wrench, silica gel
- two ADSS cable glands
- heatshrink sleeves

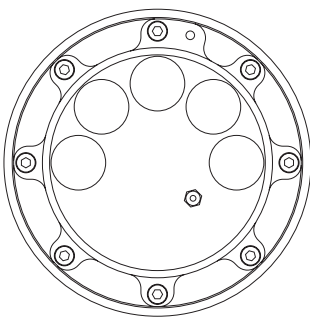
OPTIONAL EQUIPMENT:

- cable gland OPGW-2
- cable gland ADSS
- WS-1 cantilever with OH-2 brackets
- OH-3 bracket

ATTENTION: Installation of additional drop cables does not require dismantling already installed cable cable ports

TECHNICAL SPECIFICATIONS:

	MUF-1/24	MUF-1/48	MUF-1/72	MUF-1/96	MUF-1/120	MUF-1/144
cable port types	5 round					
cable diameter range [mm]	polyvinyl cable: 10-18, cable OPGW: 9-20					
number of splice trays	1	2	3	4	5	6
type/capacity of splice tray	KS-24					
maximum number of splices	24	48	72	96	120	144
cable sealing	heatshrink					
dimensions height/diameter [mm]	460 (510 with entries)/ø215					
fixing	2 fixing brackets OH-2 or OH-3					
weight [kg]	5					
environmental IP protection	IP67					



*Entry configuration
in the base*

ORDERING:

MUF-1/48 - fibre optic closure with 2 splice trays for 48 splices



MUF-2 FIBRE OPTIC SPLICE CLOSURE

FEATURES:

- fibre optic closure used in underground and aerial networks
- up to 4 KS-3E splice trays
- maximum 24 splices in a splice tray
- glass fibre reinforced, UV stabilised plastic cap
- adapter plates for 24 E-2000, SC connectors or 48 for LC connectors
- environmentally sealed to the base with an "o" ring and a set of clamping screws
- possibility of using metal bushings accepting polyvinyl jacketed and OPGW (ground wire) cables
- environmental cable sealing with heatshrink sleeves on metal bushings
- employed for cables of capacity of up to 144 fibres
- possibility of mounting the closure with OH-3 bracket or WS-1 cantilever and OH-2 brackets
- in case of pylons, OH-3 mounting bracket is recommended
- recommended cable retention frames:
 - SZ-3 (wooden poles)
 - SZ-2 (telecommunication manholes)

EQUIPMENT:

- splice enclosure
- KS-3E splice trays
- brackets, allen wrench, silica gel
- two ADSS cable glands
- heatshrink sleeves

OPTIONAL EQUIPMENT:

- cable gland OPGW-2
- cable gland ADSS
- WS-1 cantilever with OH-2 brackets
- OH-3 bracket
- adapters and pigtails

ATTENTION: Installation of additional drop cables does not require dismantling already installed cable cable ports

TECHNICAL SPECIFICATIONS:

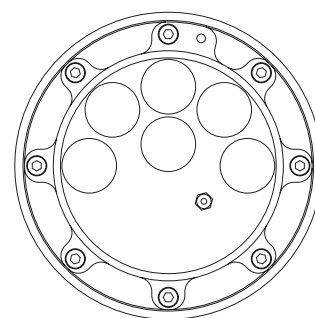
	MUF-2/24	
cable port types	6 round (5 for OH-4)	
cable diameter range [mm]	polyvinyl cable: 10-18, cable OPGW: 9-20	
number of splice trays	2	
type/capacity of splice tray	KS-24	
maximum number of splices	48	
number of patching fields	24	48
connector standard	E-2000, SC	LC
cable sealing	heatshrink	
dimensions height/diameter [mm]	460 (510 with entries)/ø215	
fixing	2 fixing brackets OH-2 or OH-3	
weight [kg]	6	
environmental IP protection	IP67	

ORDERING:

MUF-24 - fibre optic splice closure for 24 splices and cross-connects

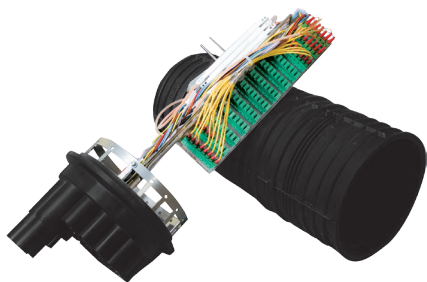


*MUF-2 Cross-connect
fibre optic splice closure*



*Entry configuration
in the base*

MUF-3 FIBRE OPTIC SPLICE CLOSURE



*MUF-3 Cross-connect
fibre optic splice closure*

FEATURES:

- cross-connect fibre optic closure used in underground and aerial networks
- up to 36 KSH splice trays
- maximum 24 splices in a splice tray with min. fiber bending radius of 38 mm
- UV stabilised plastic cap
- adapter plates for 72 FC, ST, SC connectors or 96 E-2000, SC connectors or 144 LC connectors
- possibility of storing reserves of uncut, loose loops of feeder cable tubes
- environmentally sealed to the base with an "o" ring
- clamp enabling easy and multiple access to the interior of the closure
- environmental cable sealing with heatshrink sleeves or CABLELOK rubber cable sealings
- possibility of mounting the closure with OH-3 bracket
- using fibre manifolds R-06 enables proper fibre distribution to splice trays
- large capacity - max. 192 splices
- recommended cable retention frames:
SZ-3 (wooden poles)
SZ-2 (telecommunication manholes)

EQUIPMENT:

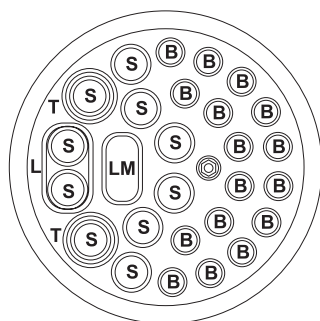
- splice enclosure
- KS-3E splice trays
- bands and tags
- Cablelok rubber Cable Sealings or heatshrink sleeves

OPTIONAL EQUIPMENT:

- fibre manifold R-06
- OH-3 bracket
- adapters and pigtails

TECHNICAL SPECIFICATIONS:

	MUF-3/72	MUF-3/96
cable port types	28 round (16xB, 2xT, 10xS) i 2 oval (1xL, 1xLM)	
cable diameter range [mm]	polyvinyl cable: 3,8-29	
number of splice trays	6 x KS-24 or 12 x KSH	8 x KS-24 or 16 x KSH
type/capacity of splice tray	KSH/12, KS-24	
maximum number of splices	144	192
number of patching fields	72	144
connector standard	FC, ST, SC	LC Duplex
cable sealing	Cablelok heatshrink	
dimensions height/diameter [mm]	760 including cable entries/ø254 mm	
fixing	OH-3	
weight [kg]	7	8
environmental IP protection	IP67	



*Entry configuration
in the base*

ENTRY CONFIGURATION IN THE BASE:

cable port	number of cable ports	CABLELOK seal	cable diameter range [mm]	
			Cablelok	heatshrink
L	1	L10C, L20C, L30C, L40C, L50C	2 x 13,0 - 22,0	2 x 12,0 - 24,0
B	16	B10, B20, B30	4,8 - 16,5	6,0 - 19,0
T	2	T10, T20, T30, T40	15,5 - 29,0	8,0 - 35,0
S	10	S10, S20, S30D, S40, S50	5,0 - 20,0	12,0 - 26,0
LM	1	LM10C, LM20C, LM30C, LM40C	2 x 9,5 - 22,0	2 x 8,0 - 22,0

ORDERING:

MUF-3/96 - fibre optic closure for 192 splices and 96 cross-connections



MUF - 5 FIBRE OPTIC SPLICE CLOSURE

FEATURES:

- cross-connect fibre optic closure used in underground and aerial networks
- up to 36 KSH splice trays
- maximum 24 splices in a splice tray with min. fiber bending radius of 38 mm
- UV stabilised plastic cap
- clamp enabling easy and multiple access to the interior of the closure
- hermetic dome to base rubber o-ring sealing
- the cable ports can be sealed using either heatshrinking sleeves or (not for R type cable ports) or Cablelok mechanical seals
- wall or pole mounted with the use of OH-3 brackets
- large number of cable ports
- recommended cable retention frames:
 - SZ-3 (wooden poles)
 - SZ-2 (studnie teletechniczne)

EQUIPMENT:

- splice enclosure
- KSH or SMF splice trays
- adapter plate (for MUF-5/36)
- two adapter plates (for MUF-5/48)
- cable ties and markers
- heatshrink sleeves

OPTIONAL EQUIPMENT:

- additional CABLELOK Cable Sealings
- OH-3 bracket

TECHNICAL SPECIFICATIONS:

	MUF-5/36	MUF-5/48
number of splices (typical/maximum)	96/288	96 / 96
number of splice trays [typical/max.]	4/12*	8/8
number of patching fields	36	36 + 12 (two adapter panels)
connector standard	SC/E-2000	SC/E-2000
dimensions: length/weight/henght [mm]	455/312/222	
fixing	OH-3	
weight [kg]	4,2	
environmental IP protection	IP-68	

* possibility of adding extra splice trays, max. 12 pieces

ENTRY CONFIGURATION IN THE BASE:

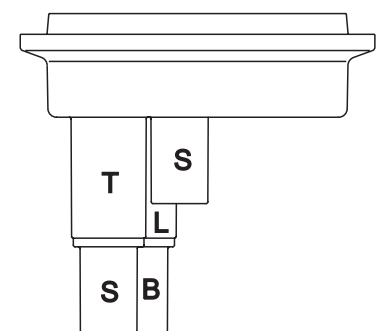
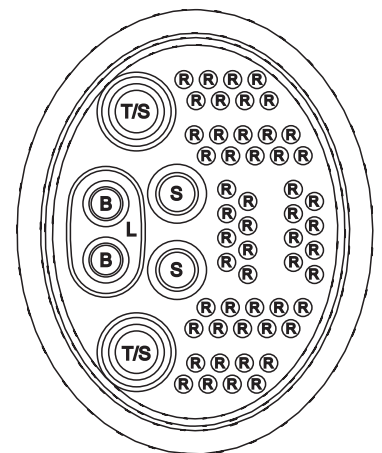
cable port	number of cable ports	CABLELOK seal	cable diameter range [mm]	
			Cablelok	heatshrink
L	1	L10C, L20C, L30C, L40C, L50C	2 x 13 - 22	2 x 12 - 24
T	2	T10, T20, T30, T40	15.5 - 29	12 - 35
S	4	S10, S20, S30D, S40, S50	5 - 20	6 - 26
B	2	B10, B20, B30	4.8 - 16.5	6 - 19
R	52	R10, R10D, R20, R30D, R40, R50, R70, R80	1.7 - 9.5	-

ORDERING:

MUF-5/48/SCAPC- fibre optic splice closure, 96 splices, 48 SC/APC adapter

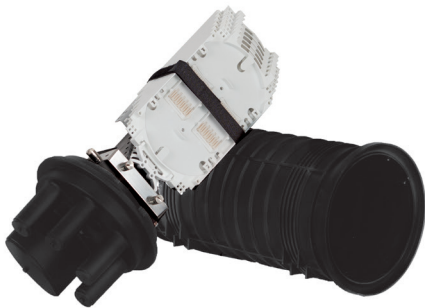


MUF-5 Fibre Optic Splice Closure

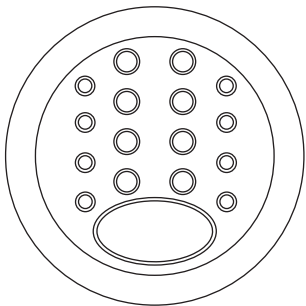


Base port configuration

MUF-6 FIBRE OPTIC SPLICE CLOSURE



MUF - 6 Fibre Optic Splice Closure



Cable port configuration in the base

FEATURES:

- fibre optic splice closure dedicated for underground and aerial applications
- up to 24 splice trays dedicated for MUF-6/288
- max. 12 splices per tray for MUF-6/288, max. 24 splices per tray for MUF-6/144
- glass fibre reinforced, UV stabilised plastic cap
- possibility of storing reserves of uncut, loose loops of feeder cable tubes
- the cable ports in the base are environmentally sealed using heatshrink sleeves or self-amalgamating mastic (optional)
- possibility of mounting the closure with OH-3 bracket
- recommended cable retention frames:
SZ-3 (wooden poles)
SZ-2 (telecommunication manholes)

EQUIPMENT:

- splice enclosure
- dedicated splice trays
- heatshrink sleeves
- CABLELOK Cable Sealings or heatshrink sleeves - set
- mounting holder
- splice protectors

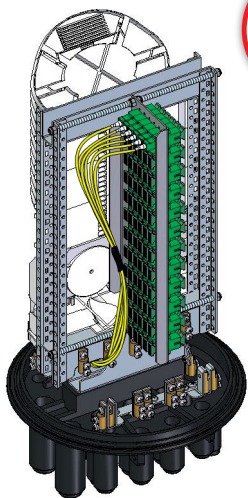
OPTIONAL EQUIPMENT:

- fibre manifold R-06
- self-amalgamating mastic

TECHNICAL SPECIFICATIONS:

	MUF-6/144/S	MUF-6/144	MUF-6/288
max. number of entering cables	6		12
cable diameter range [mm]	up to 19		do 21
number of splice trays	6		24
splice tray type/splice tray capacity	dedicated/24 splices		dedicated/12 splices
max. number of splices	144		288
cable sealing	heatshrink or self-amalgamating mastic		
dimensions: height/diameter [mm]	464/ø220	464/ø231	560/ø278
fixing	OH-3 bracket		
environmental IP protection	IP68		

MUF - 6 FIBRE OPTIC SPLICE CLOSURE WITH ADAPTER PLATE



Cable organisation in MUF-6 with adapter plate

FEATURES:

- fibre optic splice closure dedicated for underground and aerial applications
- splice capacity - 72 fibres, adapter capacity - 72
- tray capacity: up to 12 dedicated splice trays
- max 12 splices per tray
- glass fibre reinforced, UV stabilised plastic cap
- possibility of storing reserves of uncut, loose loops of feeder cable tubes
- the cable ports in the base are environmentally sealed using heatshrink sleeves or self-amalgamating mastic (optional)
- possibility of mounting the closure with OH-3 bracket or mounting plate
- recommended cable retention frames:
SZ-3 (wooden poles)
SZ-2 (telecommunication manholes)

EQUIPMENT:

- splice enclosure
- dedicated splice trays
- heatshrink sleeves
- cable ties
- mounting holder
- adapter plate
- patching field
- installation kit

OPTIONAL EQUIPMENT:

- fibre manifold R-06
- OH-3 bracket or OH-3K
- self-amalgamating mastic
- minicable holder

FST FIBRE OPTIC SPLICE CLOSURE

FEATURES:

- dedicated for underground and aerial networks
- up to 3 Hellapon Small trays
- max. 12 splices per one tray
- glass fibre reinforced, UV stabilised plastic cap
- possibility of storing reserves of uncut, loose loops of feeder cable tubes
- clamp enabling easy and multiple access to the interior of the closure
- environmentally sealed to the base with an "o" ring
- the cable ports in the base are environmentally sealed using heatshrink sleeves (only for 4-port base) or Cablelok mechanical seals
- used in FTTH networks with multiple customer drop cables
- wall or pole mounted with OH-1 or OH-3 fixing brackets
- multiple cable glands in a base
- small size
- recommended cable retention frames:
 - SZ-2 (telecommunication manholes)
 - SZ-3 (wooden poles)
 - SZ-4 (cable rooms)

EQUIPMENT:

- splice enclosure
- Hellapon splice trays Small
- CABLELOK Cable Sealings or heatshrink sleeves

OPTIONAL EQUIPMENT:

- Bracket OH-1
- OH-3 bracket
- additional CABLELOK Cable Sealings or heatshrink tubes

TECHNICAL SPECIFICATIONS:

	FST3804*	FST3697	FST3705	FST3577	FST3578
number of splices	12	24			36
cable port types	13	4		13	
number of splice trays	1	2			3
number of splices per tray	12				
dimensions height/diameter [mm]	310/110				
sealing type	Cablelok		heatshrink	Cablelok	Cablelok

* closure available with loose tube loop storage basket

ENTRY CONFIGURATION IN THE BASE:

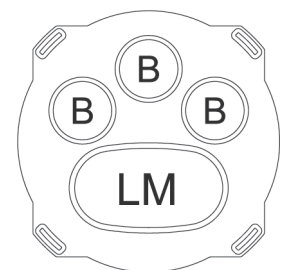
cable port	number of cable ports	cable diameter range [mm]	
		Cablelok	heatshrink
LM	1	2 x 4,0 - 15,0	2 x 12,0 - 24,0
B	2 or 3	4,8 - 16,5	6,0 - 19,0
R	10	1,7 - 9,5	-

ORDERING:

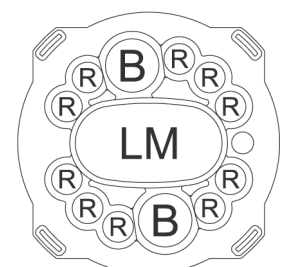
FST3697 - fibre optic splice closure with 2 splice trays, total capacity 24 fibres



FST Fibre Optic Splice Closure



4-port base configuration



13-port base configuration

SPLICE CLOSURES AND CONNECTION SHEETS - SUMMARY

	cable port types	cable diameter range [mm]	number of splice trays	type/capacity of splice tray	max. number of splices	cable sealing	dimensions height/diameter or length/width/height [mm]	fixing remarks				
UFC2770	28 round (16x8, 2xT, 10xS) i 2 oval (1xL, 1xLM)	4,8 - 36	6	KSH/12	72	heatshrink	400/ø275	OH-3				
UFC2844			12		144		600/ø275					
UFC2845			18		216		750/ø275					
UFC2846			24		288							
UFC2847			30		360							
UFC2848			36		432							
UFC2794			6		72	Cablelok	400/ø275					
UFC2868			12		144		600/ø275					
UFC2869			18		216		750/ø275					
UFC2870			24		288							
UFC2871			30		360							
UFC2872			36		432							
UFC2834			24	576	heatshrink							
UFC2835			30	720	Cablelok							
UFC2836			36	864								
UFC2840			24	576								
UFC2841			30	720								
UFC2842			36	864								
FRBU1313	1 oval (L), 8 round (4x8, 4xR)	4,8 - 24	2	Hellapon/12 (maks.16)		24	heatshrink	435/ø130	2xOH-1			
FRBU1314			4		48							
FRBU1315			6		72							
FRBU1323			2		24	Cablelok						
FRBU1324			4		48							
FRBU1325			6		72							
FDN3583	1 oval (L), 60 round (52xR, 4xS, 2xT, 2xB)	1,7 - 35	12	KSH/12	144	Cablelok	455/312/222	OH-3				
FDN3584				SMF/24	288	Cablelok/heatshrink						
FDN3585			Cablelok			OH-3,OH-6						
FDN3586			20					480	Cablelok/heatshrink			
FDN4029	1 oval (L), 58 round (52xR, 2xS, 2xT/S, 2xB zamiast L)	1,7 - 35	6 SE or 12 SC	SE/12 or SC/4	72 for SE or 48 for SC	663/312/222	OH-3					
FDNIR-A					144 for SE or 96 for SC	455/312/222						
FDNIR-AB					288 for SE or 192 for SC	561/312/222						
FDNIR-B					432 for SE or 288 for SC	663/312/222						
FDNIR-C						789/312/222						
MUF-1/24	5 round	polyvinyl cable 10-18, cable OPGW: 9-20	1	KS-24/24	24	heatshrink	460 (510 with entries)/ø215	2xOH-2 or OH-3				
MUF-1/48			2		48							
MUF-1/72			3		72							
MUF-1/96			4		96							
MUF-1/120			5		120							
MUF-1/144			6		144							
MUF-2/24			2		48			2xOH-2 or OH-3, patching 24xE-2000, SC				
MUF-2/24								2xOH-2 or OH-3, patching 48xLC				
MUF-3/72	28 round (16x8, 2xT, 10xS) i 2 oval (1xL, 1xLM)	3,8-29	12/6	KSH/12, KS-24/24	144	Cablelok/heatshrink	760/ø 254	OH-3, patching 72xFc, ST, SC				
MUF-3/72		3,8-30						OH-3, patching 144xLC				
MUF-3/96		3,8-31			192			OH-3, patching 96xE-2000, SC				
MUF-3/96		3,8-32										
MUF-5/36	1 oval (L), 60 round (52xR, 4xS, 2xT, 2xB)	1,7 - 35	4/max. 12	SMF/24	96/288	Cablelok/heatshrink	455/312/222	OH-3				
MUF-5/48	1 oval (L), 60 round (52xR, 4xS, 2xT, 2xB)		8		96							
MUF-6/144/S	4 round + 1 oval	do 19	6	dedicated/24	144	heatshrink or self-amalgamating mastica	464/ø220					
MUF-6/144							464/ø231					
MUF-6/288	16 round + 1 oval	do 21	24	dedicated/12	288		560/ø278					
FST3804	13	do 16,5 (Cablelok) or do 22 (heatshrink)	1	12	12	Cablelok/heatshrink	310/ø110	OH-1, OH-3				
FST3697	4		2		24							
FST3705												
FST3577	13		3		36							
FST3578												

CABLELOK MECHANICAL SEALS

FEATURES:

- excellent sealing properties to 6 m head of water
- rapid and consistent installation – 2 minutes in comparison with heatshrink 20 minutes
- no heat required for installation eliminating the possibility of cable damage
- mounting possible under tight packing conditions
- 25 years warranty for installed seals
- used for the environmental sealing of cable entering a Hellermann jointing enclosure
- manufactured from a grade of flexible neoprene rubber, resistant to external environmental conditions
- sealing is achieved by a number of internal lips seals which are compressed onto the cable during installation
- a range of sizes for individual types are given in the table below

SELECTION METHOD OF CABLELOK SEALING FOR ENTRIES IN JUNCTION SHEATHS:

	cable port	part number	cable diameter range [mm]	pack size
R	R10	CABLELOK-R10	1,7 – 2,0	50
	R10D	CABLELOK-R10D	2 x 1,7 – 2,0	
	R20	CABLELOK-R20	3,0 – 3,8	
	R30D	CABLELOK-R30D	2 x 3,8 – 4,8	
	R40	CABLELOK-R40	3,8 – 5,2	
	R50	CABLELOK-R50	5,2 – 8,0	
	R70	CABLELOK-R70	6,0 – 8,5	
	R80	CABLELOK-R80	8,0 – 9,5	
	R99	CABLELOK-R99	port plug	
B	B10	CABLELOK-B10	4,8 – 9,0	25
	B20	CABLELOK-B20	8,0 – 14,0	
	B30	CABLELOK-B30	13,0 – 16,5	
	B99	CABLELOK-B99	port plug	
S	S10	CABLELOK-S10	5,0 – 8,5	20
	S20	CABLELOK-S20	8,0 – 12,0	
	S30D	CABLELOK-S30D	2 x 10,0 – 11,5	
	S40	CABLELOK-S40	12,0 – 16,0	
	S50	CABLELOK-S50	16,0 – 20,0	
	S99	CABLELOK-S99	port plug	
LM	LM10C	CABLELOK-LM10C	2 x 4,0 – 6,5	15
	LM20C	CABLELOK-LM20C	2 x 6,0 – 9,5	
	LM30C	CABLELOK-LM30C	2 x 9,0 – 12,5	
	LM40C	CABLELOK-LM40C	2 x 12,0 – 15,0	
	LM99C	CABLELOK-LM99C	port plug	
L	L10C	CABLELOK-L10C	2 x 5,5 – 9,5	10
	L20C	CABLELOK-L20C	2 x 9,0 – 12,5	
	L30C	CABLELOK-L30C	2 x 12,0 – 15,0	
	L40C	CABLELOK-L40C	2 x 15,0 – 18,5	
	L50C	CABLELOK-L50C	2 x 18,3 – 20,0	
	L99C	CABLELOK-L99C	port plug	
T	T10	CABLELOK-T10	15,5 – 22,0	10
	T20	CABLELOK-T20	20,0 – 23,5	
	T30	CABLELOK-T30	23,5 – 25,5	
	T40	CABLELOK-T40	24,5 – 29,0	
	T99	CABLELOK-T99	port plug	

ORDERING:

B1- cable seal CABLELOK for cables of 9.0-14.0 mm diameter

TELECOM

ACCESS

CATV

MAN

WAN

LAN

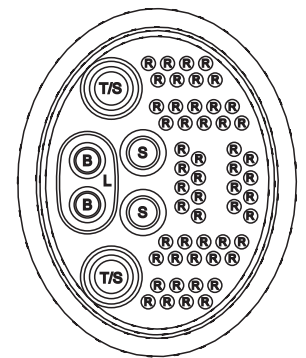
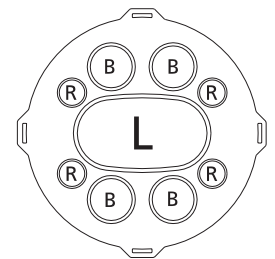
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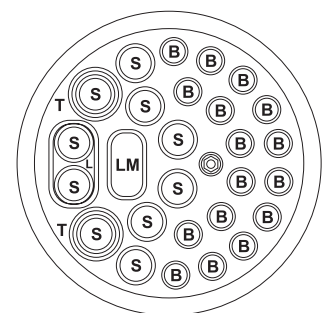
xWDM



CABLELOK Cable Seal

FDN
FDN IR
MUF-5

FRBU

UFC
MUF-3

CABLE GLAND OPGW-2



OPGW-2 Cable Gland

FEATURES:

- the cable gland is intended for use in OPGW ground cable closure, employed in power lines
- application in fibre closures MUF-1, MUF-2
- cable is fixed between two parts of the gland tightened with two screws
- made for cables of diameter from 9.0 to 20.0 mm
- made of duralumin and brass
- dimensions: length 92 mm, diameter 37 mm

EQUIPMENT:

- cable gland
- heatshrink sleeve

TECHNICAL SPECIFICATIONS:

	OPGW-2/12	OPGW-2/13	OPGW-2/14	OPGW-2/15	OPGW-2/16	OPGW-2/17	OPGW-2/18	OPGW-2/20
cable diameter range [mm]	9,0 - 12,5	10,5 - 13,5	12,0 - 14,0	14,1 - 15,0	15,1 - 16,0	16,1 - 17,0	17,1 - 18,0	18,1 - 20,0

ORDERING:

OPGW-2/14 - cable gland for cable diameter from 12 to 14 mm

ADSS CABLE GLAND



ADSS Cable gland

FEATURES:

- intended for use for feeder cables, underground and overhead
- application in fibre closures MUF-1, MUF-2
- the cables are fixed with heatshrink sleeveings and cable strength member
- made of duralumin and brass
- dimensions: length 114 mm, diameter 37 mm
- range of cable diameter: up to 18 mm

EQUIPMENT:

- cable gland
- heatshrink sleeve

ORDERING:

ADSS - cable gland



POLE/WALL MOUNTING BRACKETS

BRACKET OH-1

- enables mounting FRBU enclosure
- for mounting a closure, two OH-1 brackets are needed
- metal crimping tie
- base made of epoxy powder coated, zinc plated steel sheet

BRACKET OH-2

- enables mounting enclosures MUF-1, MUF-2
- for mounting an closure, two OH-2 brackets are needed
- enables mounting on walls or WS-1 cantilevers
- Zinc plated, epoxy powder coated steel bracket

BRACKET OH-3

- enables mounting enclosures UFC, MUF-1, MUF-2, MUF-3 and FDN
- for mounting a closure, one OH-3 bracket is needed
- enables mounting on walls or WS-1 cantilevers
- made of aluminium alloy, epoxy powder coated
- plastic or metal cable ties
- supporting c-shaped bars (for mounting on pylons) – steel, zinc plated
- enables mounting on pylons

BRACKET OH-4

- made of aluminium alloy, epoxy powder coated
- dedicated for MUF-1 and MUF-2 closures to be mounted on pylon towers
- allows to adjust the angle of enclosure
- range of profiles of pylons: from 50 x 50 mm to 100 x 100 mm

BRACKET OH-6

- quick installation of FDN splice closures
- simple fixing to the wall
- stainless steel bands, powder coated aluminium base

WS-1 BRACKET

- application in fiber closures MUF-1, MUF-2
- made of aluminium or blaze zinc steel
- STANDARD KIT a bracket for setting the whole system on the pole
- an accessory for OH-2 bracket

EQUIPMENT:

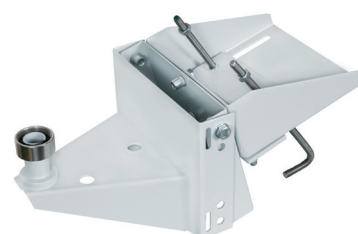
- bracket/clasp
- mounting kit

	OH-1	OH-2	OH-3	OH-4	OH-6
application	FRBU	MUF-1, MUF-2	UFC, MUF-1, MUF-2, MUF-3, FDN	MUF-1, MUF-2	FDN
bracket diameter [mm]	115-130	160	260	pivot ø20	207
pole mounting	2 holes ø8	2 holes ø9	5 holes ø10	-	2 holes ø8
holes span [mm]	175	240	90	135 (hooks spacing)	100
base [mm]	30x205	30x275	45x400	335x191x185	65x170

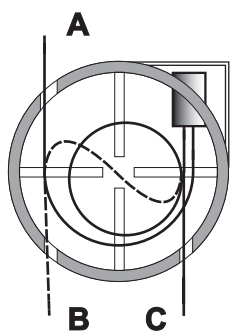
	WS-1/150	WS-1/200	WS-1/300
dimensions [mm]	650/150		
pole diameter [mm]	150	200	300
fixing	2x2 holes ø9 mm		

ORDERING:

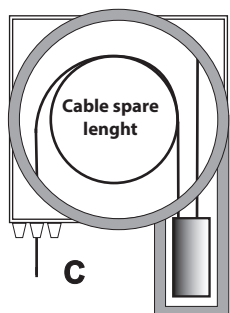
OH-6 - Bracket for optical splice closures

**OH-1****OH-2****OH-3****OH-4****OH-6****WS-1**

UNDERGROUND PLASTIC PIT ZK-1



ZK-1 Underground plastic chamber



ZK-1-3 Underground plastic chamber



ZK-1-5 Underground plastic chamber

FEATURES:

- enables storage of up to 200 m spare optical fibre cable
- used in places of cable incision/failure as a repair kit - underground plastic chamber + splice closure
- case - corpus made of HDPE
- guarantees to withstand short-time external loads of up to 3000 N and high mechanical resistance
- place with handles for optical fibre splice closure of diameter up to 180 mm and length 450 mm
- making „8 shape“ with cable, enables cable repairment without the need to replace pipes
- possibility of installing an uncut cable
- unused holes in the underground plastic chambers covered with blank plates or plugs and sealed with soft silicon
- feeder cables enter the ZK-1 chamber in 32 to 40 mm diameter polyethylene HDPE cable protection pipes
- the underground plastic chamber enables making additional entries for cable outputs

EQUIPMENT:

- chamber base
- chamber lid (for ZK-1)
- chamber lid with seal (for ZK-3, ZK-5)
- cable port plug (for ZK-1)
- cable ties
- lid-blocking screws
- seals for ducts with a diameter of 40 mm (for ZK-3, ZK-5)

OPTIONAL EQUIPMENT:

- fibre optic enclosures dedicated for ZK-1 chamber:: FRBU, MUF-1, MUF-2, FOSC 400A, OZKS
- fibre optic enclosures dedicated for ZK-3 chamber:: FRBU, MUF-1, MUF-2, FOSC 400A (B i D), OZKS
- fibre optic enclosures dedicated for ZK-5 chamber:: FRBU, MUF-1, MUF-2, FOSC-100B/H, FOSC-100B2/H, FOSC 400 A4, FOSC 400 B2, FOSC 400 B4, OZKS 160 NK
- cable OZ-1 or OZ-2

	ZK-1	ZK-3	ZK-5
number of ports	3	3 to be cut out	2 x 3 to be cut out
number of protective pipes	9	9 to be cut out	6 to be cut out
max. spare cable capacity ø10mm [m]	200		300
max. spare cable capacity ø18mm [m]	50		100
dimensions: diameter/height [mm]	800/400		812/560
max. enclosure diameter	180		220
weight [kg]	20 (lid: 8)	23,5 (lid: 6,5)	25 (lid: 6,5)
OPTOKOD	G1160	G1165	G1167

ORDERING:

ZK-5 - tray with double enclosure space



SZ-1, SZ-1.2, SZ-1.3 CABLE RESERVE BOXES

FEATURES:

- designed to be installed in the outdoor cable chambers
- protects the cable against external mechanical damage
- guarantees functionality and proper bending radius of a cable
- consists of a casing, inbound metal rack and a lid
- interior access protected by a lock
- easy disassembly of the rack from the box
- has 8 (6 in case of SZ-1.2) cable outputs with special rubbed gasketed entries
- box made of sheet painted with the powder varnish with the colour RAL-7035
- available in special aluminium version SZ-1AL and SZ-1.2AL

EQUIPMENT:

- cable reserve
- rubbed gasketed entries
- mounting kit
- locks

TECHNICAL SPECIFICATIONS:

		SZ-1	SZ-1.2	SZ-1.3
fixing		4x ø7 mm 530x530 mm		4x ø7 mm 630x630 mm
number of inputs/outputs of a cable		8		
dimensions width/height/depth [mm]		750/750/150	750/750/250	860/860/215
weight [kg]		16	20	22
cable capacity [m]	cable ø10 mm	150	250	350
	cable ø11 mm	130	200	300
	cable ø12 mm	100	180	250
	cable ø13 mm	80	150	200
	cable ø14 mm	60	120	180
	cable ø16 mm	30	50	50
interior access protection		lock	lock	lock
housing material/color		steel or aluminium/RAL 7035		steel/RAL 7035

ORDERING:

SZ-1 Cable Reserve Box



SZ-1, SZ-1.2 Cable Reserve Box

SZ-2, SZ-2.2, SZ-2.3 CABLE RESERVE FRAMES



SZ-2.3 Cable Reserve Frame



SZ-2.2 Cable Reserve Frame



SZ-2 Cable Reserve Frame

FEATURES:

- designed to be installed in the telecommunication manholes or in cable chambers
- guarantees functionality and proper bending radius of a cable
- the rack arranges the layout of the cables
- positive management of cable reserve, suitable for various cable diameters
- SZ-2 made of aluminium
- SZ-2.2 made of stainless steel sheet - for two cables
- SZ-2.3 made of steel sheet coated with anticorrosion layer- regulated arm base
- frame painted with the powder varnish with the colour RAL-7035

EQUIPMENT:

- cable spare length frame
- cable ties
- mounting kit

TECHNICAL SPECIFICATIONS:

		SZ-2	SZ-2.2	SZ-2.3	
fixing		4 x ø7 mm 300 x 300 mm	4 x ø7 mm 315 x 315 mm	4 x ø7 mm 220 x 220 mm	
number of inputs / outputs of cable		-	-	min.	max.
dimensions width/height/depth [mm]		550/550/95	625/625/175	680/680/185	880/880/185
weight [kg]		0,9	1,7	4,4	
cable capacity [m]	cable ø10 mm	90	200	350	-
	cable ø11 mm	50	150	250	-
	cable ø12 mm	30	100	200	-
	cable ø13 mm	20	50	150	300
	cable ø14 mm	-	30	90	250
	cable ø16 mm	-	-	20	150
	cable ø18 mm	-	-	-	120
housing material/color		aluminium/RAL 7035	acid resistant steel/ RAL 7035	steel/RAL 7035	

ORDERING:

SZ-2 outdoor cable reserve frame



SZ-3 CABLE RESERVE FRAME

FEATURES:

- intended for use on telecommunication poles
- guarantees functionality and proper bending radius of a cable
- accommodates and arranges excess cable
- can be stretched to increase capacity
- minimal reserve of 70 m, under maximal arches stretch for cable of 10 mm diameter
- corrosive resistance for the whole exploitation period
- fixed on a pole with brackets

EQUIPMENT:

- cable reserve frame
- clamping rings

OPTIONAL EQUIPMENT:

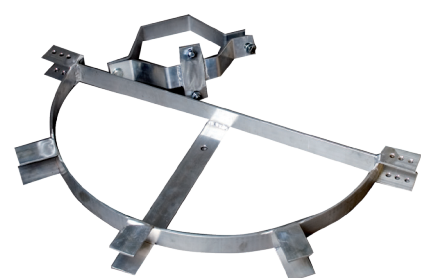
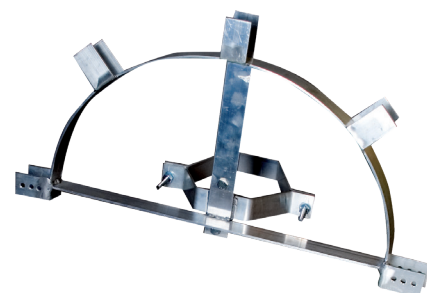
- WS-1 cantilever
- pylon tower mounting bracket (4 szt.)

TECHNICAL SPECIFICATIONS:

	SZ-3/150	SZ-3/200	SZ-3/300
fixing	ø150 mm pole	ø200 mm pole	ø300 mm pole
number of inputs/outputs of a cable	-		
dimensions width/height/depth [mm]	2 arches of 300 radius		
weight [kg]	5		
cable capacity [m]	cable ø10 mm	80	
	cable ø11 mm	70	
	cable ø12 mm	60	
	cable ø13 mm	50	
	cable ø14 mm	40	
	cable ø16 mm	20	
	cable ø18 mm	20	
housing material/color	aluminum		

ORDERING:

SZ-3 - Cable reserve frame



SZ-3 Cable Reserve Frame

SZ-4, SZ-4.1, SZ-4.2 CABLE RESERVE BOXES

FEATURES:

- designed to be installed in the outdoor cable chambers
- interior access is protected with a lid, in SZ-4.2 lockable
- capacity from 20 up to 50 m of cable, for diameters 13 and 10 mm
- guarantees functionality and proper bending radius of a cable

EQUIPMENT:

- positive cable arrangement
- cable reserve box
- mounting kit
- lock

TECHNICAL SPECIFICATIONS:

	SZ-4	NEW: SZ-4.1	SZ-4.2
dimensions width/height/depth [mm]	550/550/100	450/450/130	750/750/150
weight [kg]	6,5	6	12
mounting on a wall	4 holes ø8,5 mm screw spacing 300 x 300 mm	4 holes ø8,5 mm screw spacing 250 x 250 mm	4 holes ø8,5 mm screw spacing 500 x 500 mm
number of inputs/outputs of a cable	4	4	6
cable capacity [m]	cable ø10 mm	100	300
	cable ø11 mm	60	250
	cable ø12 mm	40	220
	cable ø13 mm	30	180
	cable ø14 mm	30	140
	cable ø16 mm	20	60
	cable ø18 mm	20	20
interior access protection	lock		
housing material/color	steel*/RAL 7035		

*made of aluminum: SZ-4AL, SZ-4.1AL, SZ-4.2AL (option)

ORDERING:

SZ-4 - spare length cable box



SZ-4, SZ-4.2 Cable Reserve Boxes

TELECOM

ACCESS

CATV

MAN

WAN

LAN

FTTx

PON

xWDM



SZ-5 CABLE RESERVE BOX

FEATURES:

- intended for use in cable chambers and outdoors
- protects the cable against external mechanical damage, secures proper cable bending radius
- interior access protected by a key locked lid
- maximum cable diameter 18 mm
- 4 cable entries, on top and bottom wall
- possibility of inserting horizontal cables
- made of aluminum sheet

EQUIPMENT:

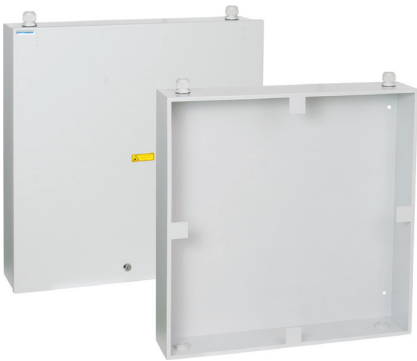
- spare length cable box
- cable ports
- port plugs
- installation kit
- lock

TECHNICAL SPECIFICATIONS:

		SZ-5
fixing		4x ø10 mm 500x590 mm
number of inputs/outputs of a cable		4
dimensions width/height/depth [mm]		635/635/140
weight [kg]		5,4
cable capacity [m]	cable ø10 mm	100
	cable ø11 mm	90
	cable ø12 mm	70
	cable ø13 mm	60
	cable ø14 mm	50
	cable ø16 mm	30
	cable ø18 mm	20
interior access protection		lock
housing material/color		aluminium/RAL 7035

ORDERING:

SZ-5 - Cable Reserve Box



Cable Reserve Box SZ-5

SZ-7/N CABLE RESERVE FRAME

FEATURES:

- dedicated for use in cable chambers
- hinged frames for the storage of spare cable coils
- easy access to all cables routed from the top or from the bottom
- capacity of one hinged frame: 4 cable coils, 60 up to 150 m each
- maximum coil diameter: 800 mm
- installation of 4 additional SZ-7K spare cable frames on each hinged frame possible
- SZ-7K is used for smaller diameter cables with the maximum coil diameter of 550 mm
- maximum capacity of SZ-7K frame: 50 m of the cable with 10 mm diameter
- maximum capacity of SZ-7/4 with 4 frames is 32 cable coils (only if 4 SZ-7k frames are used)
- made of steel profiles finished with powder varnish in RAL 7035 colour

EQUIPMENT:

- cable reserve frame
- installation kit
- cable ties

OPTIONAL EQUIPMENT:

- additional cable reserve frame SZ-7K

TECHNICAL SPECIFICATIONS:

	SZ-7/1	SZ-7/2	SZ-7/3	SZ-7/4	SZ-7/3/M
number of hinged frames	1	2	3	4	-
fixing	standing				
dimensions width/height/depth [mm]	350/1700/850	600/1700/850	850/1700/850	1100/1700/850	1000/1750/400
weight [kg]	35	50	65	80	65
maximum number of cable coils*	4	8	12	16	-
cable capacity [m]	cable ø10 mm	4 x po 150 m	2 x (4 x po 150 m)	3 x (4 x po 150 m)	4 x (4 x po 150 m)
	cable ø11 mm	4 x po 120 m	2 x (4 x po 120 m)	3 x (4 x po 120 m)	4 x (4 x po 120 m)
	cable ø12 mm	4 x po 100 m	2 x (4 x po 100 m)	3 x (4 x po 100 m)	4 x (4 x po 100 m)
	cable ø13 mm	4 x po 90 m	2 x (4 x po 90 m)	3 x (4 x po 90 m)	4 x (4 x po 90 m)
	cable ø14 mm	4 x po 75 m	2 x (4 x po 75 m)	3 x (4 x po 75 m)	4 x (4 x po 75 m)
	cable ø16 mm	4 x po 50 m	2 x (4 x po 50 m)	3 x (4 x po 50 m)	4 x (4 x po 50 m)
	cable ø18 mm	4 x po 20 m	2 x (4 x po 20 m)	3 x (4 x po 20 m)	4 x (4 x po 20 m)
housing material/color	steel/RAL 7035				

*for cables with 10mm diameter there is a possibility of doubling the number of cable coils by the application of SZ-7K frames

NOTICE:

1. Frame heights: 1.7 m without the base, 2.0 m with the base.
2. SZ-7K frames and lateral plates to be ordered separately

SZ-7/3M

- stores up to 15 optical cable splice closures
- stores optical splice closures of diameter up to 300 mm

ORDERING:

SZ-7/2 - Cable Reserve Frame with two hinged frames for 8 outdoor cable coils



SZ-7/2



Additional Cable Reserve Frame SZ-7K



SZ-7/3/M

SZ-8 CABLE RESERVE BOX

FEATURES:

- dedicated for use in cable chambers
- access to the interior protected by a key locked lid
- 6 round pre-punched cable entries, 2 open cable entry slots allowing insertion of the cable loop
- possibility of installation of up to three KS-3E splice trays
- possibility of installation of two Fibre Optic Distribution Boxes PSW-12/DIN
- standard kit outdoor cable termination plates
- space dedicated for storage and arrangement of outdoor cable loose tubes guided to splice trays and distribution boxes
- made of steel sheet finished with powder varnish

EQUIPMENT:

- cable reserve box
- rubber bushing
- rubber gland
- DIN rail
- cable ties and bands
- lock
- KS-3E splice trays

OPTIONAL EQUIPMENT:

- PSW-12/DIN Fibre Optic Distribution Box
- splittable corrugated protective tube

TECHNICAL SPECIFICATIONS:



Cable Reserve Box SZ-8

		SZ-8
fixing		4x ø6 mm 560x560 mm
number of inputs/outputs of a cable		6 round pre-punched, 2 open slots
dimensions width/height/depth [mm]		660/660/158
weight [kg]		13,8
cable capacity [m]	cable ø10 mm	100
	cable ø11 mm	100
	cable ø12 mm	80
	cable ø13 mm	60
	cable ø14 mm	50
	cable ø16 mm	30
	cable ø18 mm	20
interior access protection		lock
housing material/color		steel sheet/RAL 7035

ORDERING:

SZ-8 - Cable Reserve Box



CABLE RESERVE BOXES AND RACKS - SUMMARY

		SZ-1	SZ-1.2	SZ-1.3	SZ-2	SZ-2.2	SZ-2.3		SZ-3/150	SZ-3/200	SZ-3/300	SZ-4	SZ-4.1	SZ-4.2	SZ-5
fixing		4x ø7 mm 530x530 mm		4x ø7 mm 630x630 mm	4x ø7 mm 300x300 mm	4x ø7 mm 315x315 mm	4x ø7 mm 220 x 220 mm		ø słupa 150 mm	ø słupa 200 mm	ø słupa 300 mm	4 holes ø8,5 mm w rozstawie 300 x 300 mm	4 holes ø8,5 mm w rozstawie 250 x 250 mm	4 holes ø8,5 mm w rozstawie 500 x 500 mm	4x ø10 mm 500x590 mm
number of inputs/outputs of a cable		8			-	-	-		-			4		6	4
dimensions width/height/ depth [mm]		750/750/150	750/750/250	860/860/215	550/550/95	600/600/160	min. 680/680/185	maks. 880/880/185	2 arches of 300 radius			550/550/100	450/450/130	750/750/150	635/635/140
weight [kg]		16	20	22	0,9	1,7	4,4		5			6,5	6	12	5,4
cable capacity [m]	cable ø10 mm	150	250	350	90	200	350	-	80			100	50	300	100
	cable ø11 mm	130	200	300	50	150	250	-	70			60	-	250	90
	cable ø12 mm	100	180	250	30	100	200	-	60			40	-	220	70
	cable ø13 mm	80	150	200	20	50	150	300	50			30	-	180	60
	cable ø14 mm	60	120	180		30	90	250	40				-	140	50
	cable ø16 mm	30	50	50	-	-	20	150	20				-	60	30
	cable ø18 mm	-	-		-	-	-	120					-	20	20
interior access protection		lock			-	-	-	-	-	-	-	lock			
housing material/color		steel or aluminum/ RAL 7035		steel/ RAL 7035	aluminum/ RAL 7035	steel sheet/ RAL 7035	steel/ RAL 7035		aluminum			steel or aluminum/RAL 7035			aluminum/ RAL 7035

	SZ-7/1	SZ-7/2	SZ-7/3	SZ-7/4	SZ-7/3/M	SZ-8
liczba uchylnych ram	1	2	3	4	-	-
fixing	standing	standing	standing	standing	standing	4x ø8 mm 560x560 mm
number of cable ports	-	-	-	-	-	6 closed i 2 open
dimensions width/height/ depth [mm]	350/1700/850	600/1700/850	850/1700/850	1100/1700/850	1000/1750/400	650/650/155
weight [kg]	35	50	65	80	65	13,8
max. number of single cable coils	4	8	12	16	-	-
cable capacity [m]	cable ø10 mm	4 x po 150 m	2 x (4 x po 150 m)	3 x (4 x po 150 m)	4 x (4 x po 150 m)	100
	cable ø11 mm	4 x po 120 m	2 x (4 x po 120 m)	3 x (4 x po 120 m)	4 x (4 x po 120 m)	100
	cable ø12 mm	4 x po 100 m	2 x (4 x po 100 m)	3 x (4 x po 100 m)	4 x (4 x po 100 m)	80
	cable ø13 mm	4 x po 90 m	2 x (4 x po 90 m)	3 x (4 x po 90 m)	4 x (4 x po 90 m)	60
	cable ø14 mm	4 x po 75 m	2 x (4 x po 75 m)	3 x (4 x po 75 m)	4 x (4 x po 75 m)	50
	cable ø16 mm	4 x po 50 m	2 x (4 x po 50 m)	3 x (4 x po 50 m)	4 x (4 x po 50 m)	30
	cable ø18 mm	4 x po 20 m	2 x (4 x po 20 m)	3 x (4 x po 20 m)	4 x (4 x po 20 m)	20
interior access protection	-	-	-	-	-	lock
housing material/color	steel/RAL 7035					steel/RAL 7035