



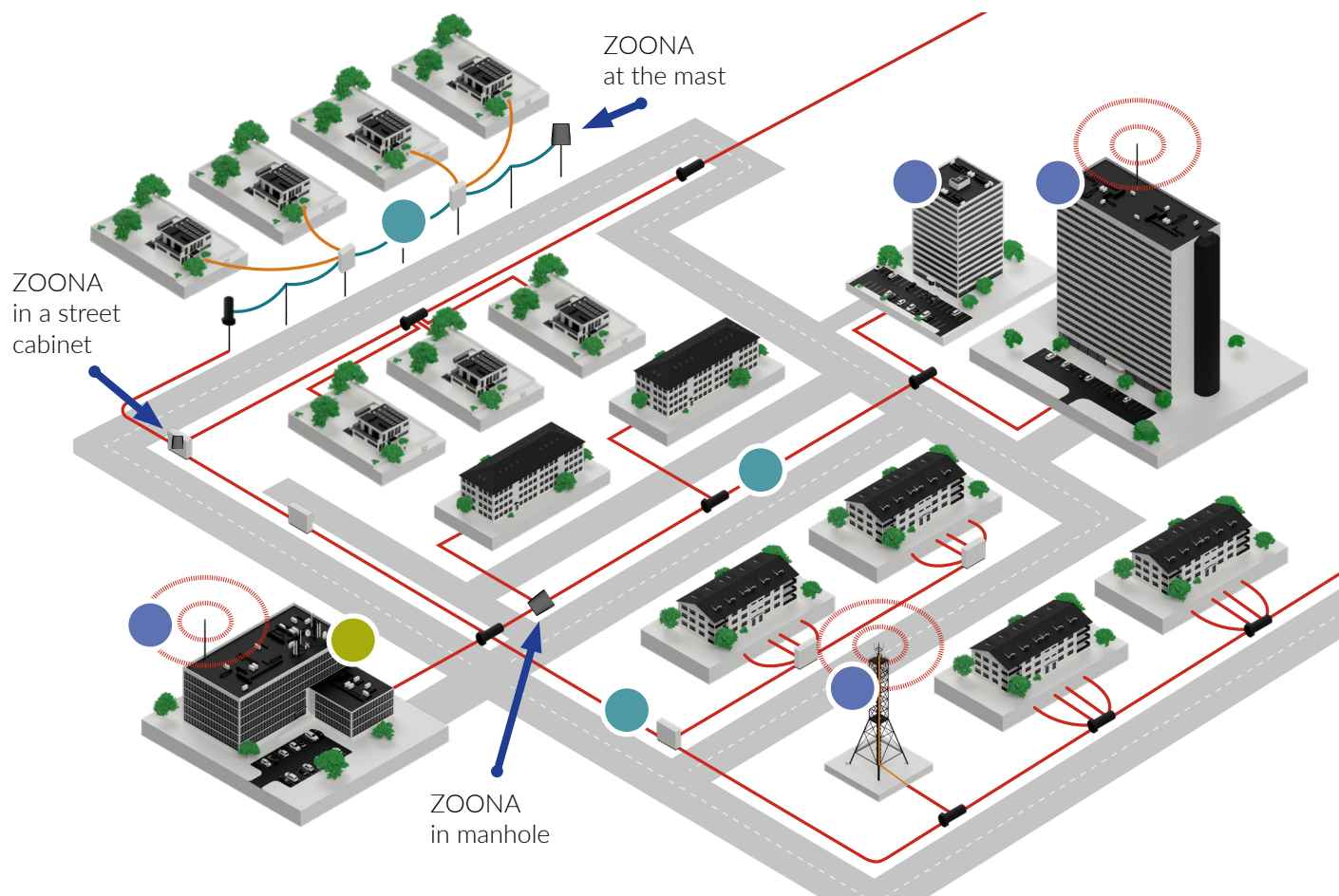
ZONA Closure

For today's hybrid fiber
optical access networks

ZOONA – The new compact access closure

From central office via outside plant to customer premises

«Your next project»



Central office

Customer-specific solutions for effective assembly, future-proof expansion and effective operation and optical or copper connectivity based distribution frames. Modular system elements complemented by professional planning consultancy.

Outside plant

Complete portfolio of robust street cabinets, underground closures and distribution boxes offering state-of-the-art technology in fiber connectivity and management. The different product platforms support all common cable types and fiber optical network topologies.

Customer premises, buildings and cell sites

Efficient solutions for supplying different buildings and urban infrastructure with fiber optic connectivity. Building entry points inside and outside of the building, realized with Polaris-box family – a compact, flexible and modular concept for fiber termination. Complemented by field deployable connectors as a modern alternative to fusion splicing. Fiber optic connection in no time.

ZOONA – The new compact access closure

Cost efficient, easy, fast and the most flexible to deploy

The ZOONA closure is a mechanically sealed closure for typical access network applications with compact dimensions, designed for limited space in smaller hand-holes or already crowded manholes. The ZOONA closure offers fast and time saving installation without any special tool. Preparation of single cable entries or special loop entry takes place outside of the closure. The closure comprises modern features for overlength management, fiber handling, splicing and splitter applications.

Quick and easy access

The ZOONA closure is prepared for stepwise installation, starting with an initial, cost efficient application covering first rollout needs and access scenarios in the network. The modular concept of the ZOONA closure allows additional subscribers to be connected later; fiber count upgrades and cable type changes are possible at any time during operation.

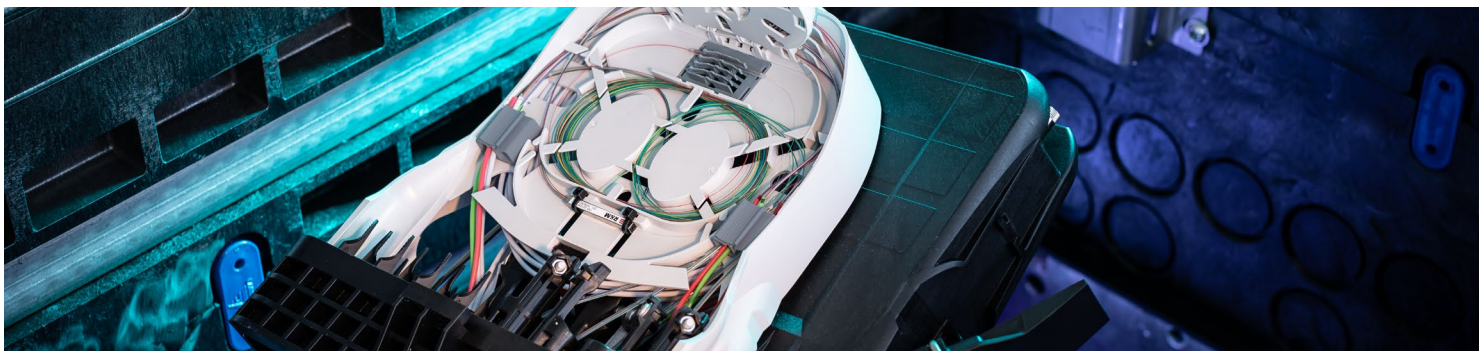
All ports are sealed using the new QIKseal cable sealing concept:

- For one cable loop and up to twelve single cable entries
- Multiple cable diameters and cable types are covered
- Easy to apply, quick and reliable drop cable installation
- Clean handling, cables already installed are not affected
- No special training or expert skills needed
- Accessories for speed pipe installation available

QIKseal cable ports are available for 2x 6-16mm (loop) and 12x 2-8.5mm (single cable entry) and can be ordered separately.

The ZOONA closure offers a robust housing (dome, glass reinforced), IP68 rated and tested for withstanding a 0.3bar/3m (9.84ft) water level for more than 7 hours.

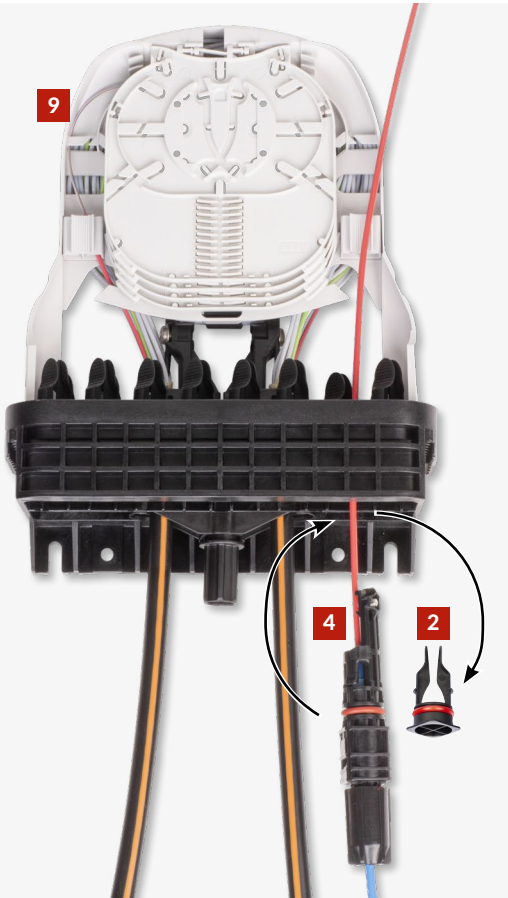
Additional accessories like metal brackets for pole mounting or fixation in a manhole or street cabinet are available as well as a ZOONA specific support metal plate for external cable guidance and fixation.



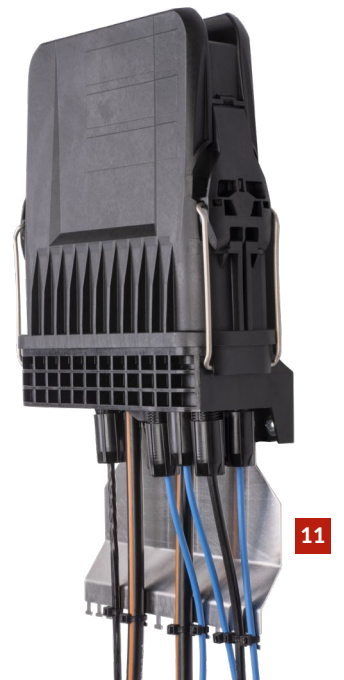
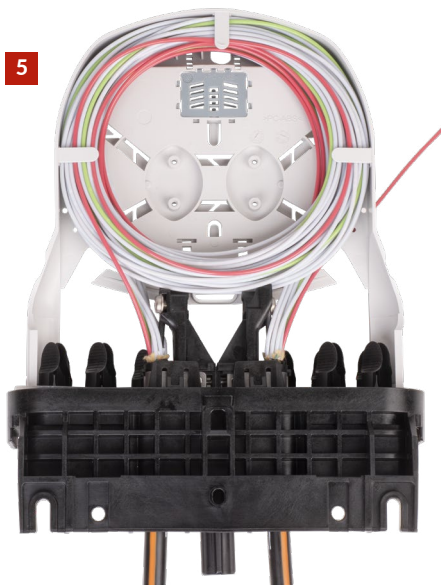
ZOONA is prepared for installation in a manhole

ZOONA – The new compact access closure

Features & benefits



- 1 Low initial investment, expandable step by step
- 2 Simple, tool-free and fast installation
- 3 Convenient assembly of the cable entry outside of the closure
- 4 Highly efficient QIKseal cable entry solution
- 5 Compact with integrated loop storage and fiber excess storage
- 6 Robust thanks to excellent tightness
- 7 Universally applicable: wall, mast, ground, manhole
- 8 Possibility of replacing and adding cables during operation
- 9 Prepared for integration of splitter modules
- 10 Option to protect against unauthorized access with a padlock
- 11 External cable support
- 12 Tool free opening of the closure



ZOONA – The new compact access closure

Best price / value ratio

Total Cost of Ownership

Reduction of installation costs: The Zoona closures are put together individually according to customer needs. They can optionally be equipped with QIKseal loop and up to 12 single cable entries (drops). This saves material time and reduces project costs significantly.

Looking at the ZOONA closure precon variants, the customer can choose between four different bottoms and individual fiber splicing.

The result is a simple and fast installation process. Future extensions and changes can be carried out quickly without system interruption.

In terms of overall costs, this maximizes profits, reduces initial investment and saves long-term operating expenses, while improving the stability and security of their network.

Low initial investment

- Competitive price
- Modular construction
- Designed for access network applications
- Compact dimensions
- Ideal for hand- or manholes with reduced space

Accelerated roll-out

- Quick installation, reduced number of installation steps
- No special installer training needed
- Lower labor costs
- Reduced labor costs due to time-saving QIKseal cable entry and loop installations
- Easier roll-out planning

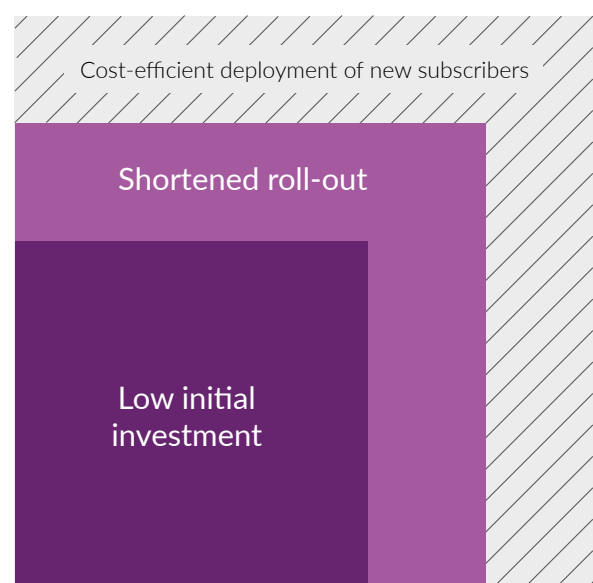
Cost-efficient deployment

- Fast access to closure
- Cable strain relief
- Secure fiber routing
- Convenient addition of new subscribers during operation



ZOONA pole fixing bracket

Reduces TCO (Total Cost of Ownership)



ZOONA – The new compact access closure

Housing, fiber & overlength management, accessories

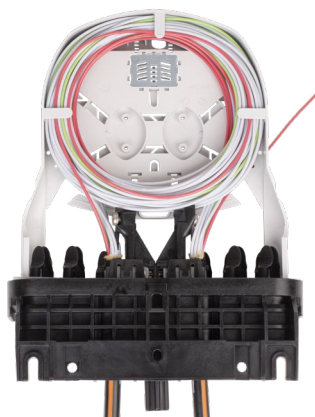


Housing

- Compact size
- Extremely robust
- Fiber reinforced material
- H-sealing and mechanical clamps
- Valve



- Padlock option
- Protection against unwanted access

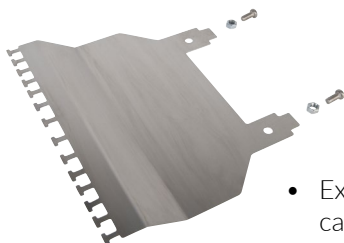
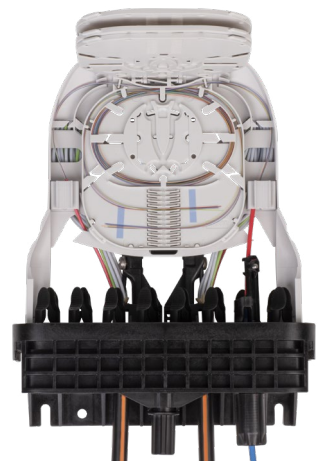


Loop & overlength management

- Exceptional space, convenient

Fiber management

- FMTS 30 splice trays
 - heatshrink (HS)
 - sandwich (SW)
 - with 12 splices
- Total 48 splices (4x12)



- External cable support



- Accessory for pole mount

ZOONA – The new compact access closure

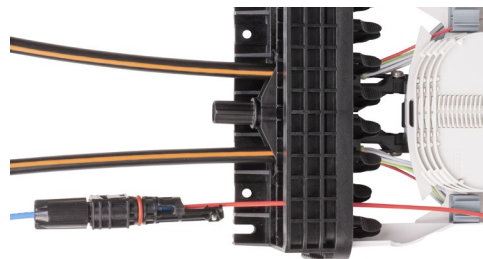
QIKseal solutions

Single cable entry

- Three variants available for cable diameters:
 - 2-3 mm
 - 3-6 mm
 - 6-8.5 mm

Triple seal:

- 1** Retention bush for strain relief
- 2** Innovative silicon rubber grommet (sealing against cable jacket)
- 3** O-ring (sealing against closure housing)

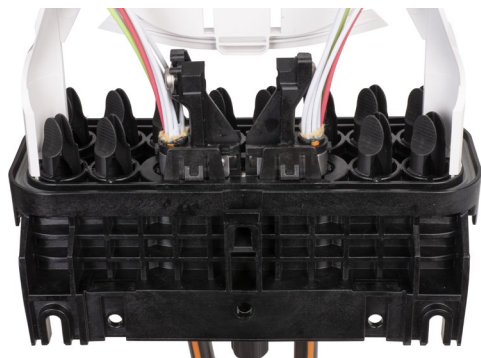
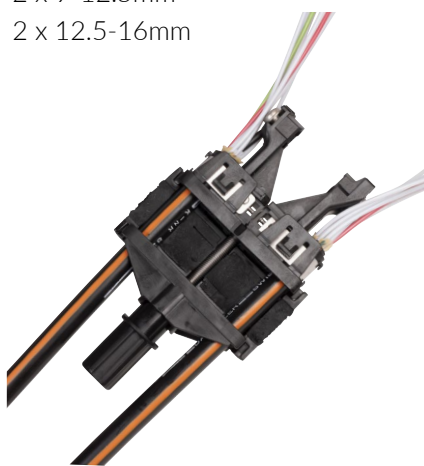
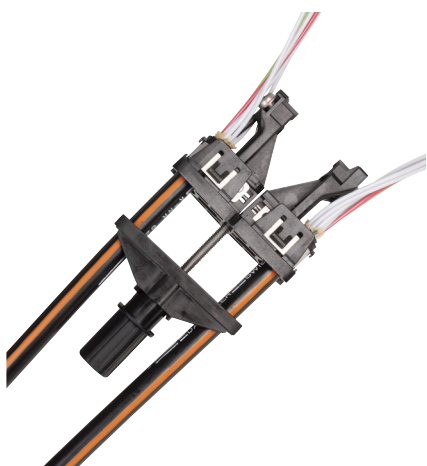


Loop cable entry

- 6-16 mm

Three variants available

- 2 x 6-9 mm
- 2 x 9-12.5 mm
- 2 x 12.5-16 mm



Main seal

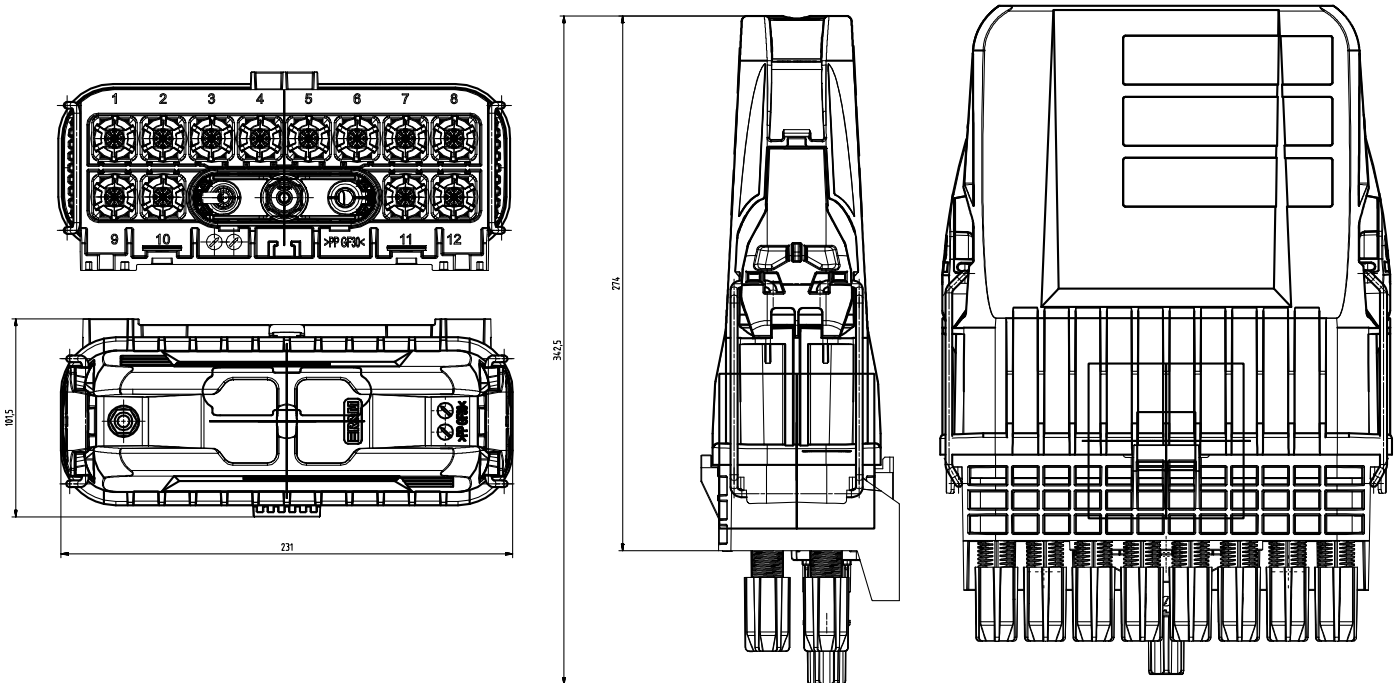
- H-sealing, dome against bottom
- Secured with 2 clamping levers



ZOONA – The new compact access closure

Dimensions & technical specifications

«Clever, simple and compact for aerial or ground application»



DESCRIPTION	VALUE / VALUE RANGE
Number of tray positions (TPU)(1)	4
Min. bending radius	30mm
Loop storage	3m
IP rating (compliant with IEC 60529)	IP68 (3m/7days)
Dimensions	
Height	274mm
Width	231mm
Single ports	102mm
Volume	3.6 l exact replaced volume / 5.8 l based on 3 outside dimensions
Number / diameters of cable ports	
QIKseal loop	1x 3 cable diameter ranges: 6-9mm / 9-12.5mm / 12.5-16mm
QIKseal single cable entry	12x 3 cable diameter ranges: 2-3mm Ø / 3-6mm/6-8.5mm Ø)

DESCRIPTION	VALUE / VALUE RANGE
Closure body (end cap, dome, lever)	Polypropylene, fiber-glass reinforced 30%
SCM system / trays	PC-ABS

ZOONA – The new compact access closure

Application examples

ZOONA examples



Maximum flexibility for the last mile

Fiber management

- FMTS30 fiber management system in 2 variants
 - heatshrink (HS)
 - sandwich (SW)
- 48 splices (4x12)

Loop & overlength management

- 3m exceptional space
- Optionally with or without loop: can be ordered separately if needed
- QIKseal can be ordered separately

Application locations

- Manhole
- Street cabinet
- Pole mount



Fiber cable

R&M offers a complementary and modern portfolio of fiber optical cables for FTTx installations.

Exceptional cable design for every application

With Fiber optic cables from R&M, you benefit from an optimized cable structure which in turn creates several benefits such as:

- Installation time saving due to gel-free cable constructions eliminating time consuming cleaning processes
- Less space demand in cable ducts or cable trays
- Less fire load and smoke emission could generate lower assurance costs



Polaris-box family

To complement the application, also on customer premises, R&M offers the versatile and multifunctional Polaris-box family.

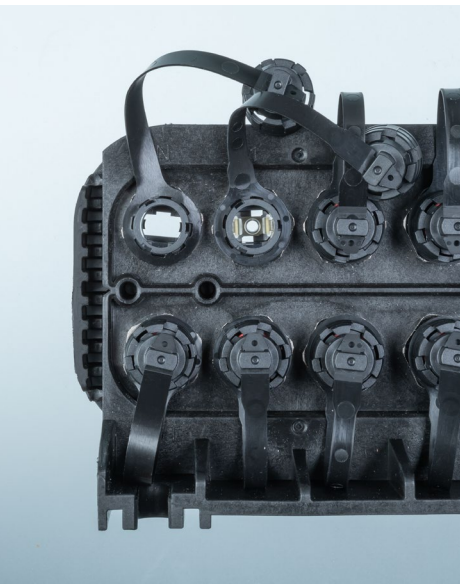
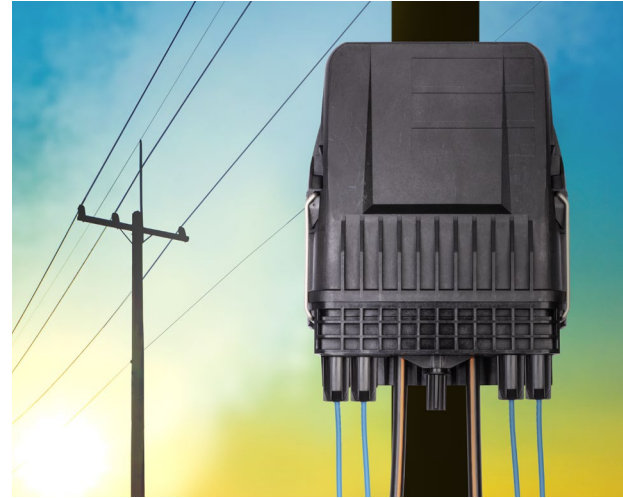
ZOONA – The new compact access closure

PRECON – pre-terminated and ready

PRECON – already pre-configured closures and customized cable assemblies. Supporting your specific network design and roll-out.

Currently, there are four configurations 1/8, 2/8, 1/16 and 2/16 available. Input / output for the loop can be either as SC or MPO adapter type. Up to 16 drop-out SC adapters are available in the max. configuration.

Thus typical configurations with integrated 1:4, 1:8 or 1:16 splitters can be built. With or without additional loops or cascades using multifiber fanout cables with MPO12 connectors/adapters or uneven splitters.



Detail: MPO and SC adapter



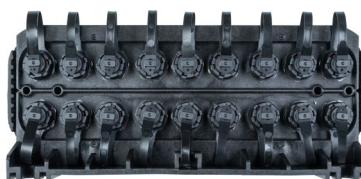
PRECON 1/8



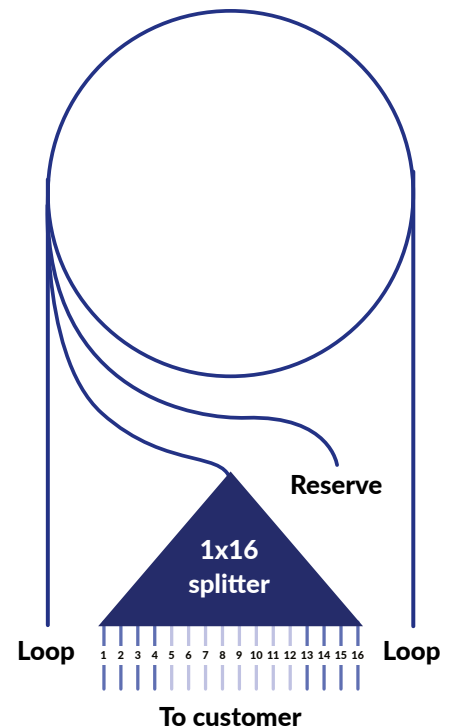
PRECON 2/8



PRECON 1/16



PRECON 2/16

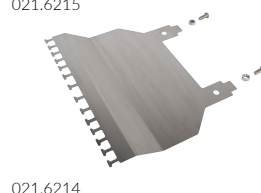


Example: Splitter schematic

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Ordering information

Items & accessories



Description	Article number
ZOONA closure STP4/HS with valve	878261
ZOONA closure STP4/SW with valve	878262
Dome closure with valve (empty), prepared for splice tray assembling (4 TPU), prepared for cable entry assembly (single or loop), to be ordered separately	
QIKseal cable entry kit	
20/2-3mm	878263
20/3-6mm	878264
20/6-8.5mm	878265
QIKseal cable entry kit loop	
2x 6-9mm	878831
2x 9-12.5mm	878832
2x 12.5-16mm	878833
Cassette FMTS30 splice tray	
12x FMTS splice tray Cover, gray	820098
1x FMTS splice tray Cover, gray	895103
12x FMTS splice tray 12ANT, gray	820096
1x FMTS splice tray 12ANT, gray	895102
12x FMTS splice tray 12HS, gray	820095
1x FMTS splice tray 12HS, gray	895101
ZOONA pole fixing bracket	878269
ZOONA external cable support	878270

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