Out Line
SOLUZIONI INNOVATIVE

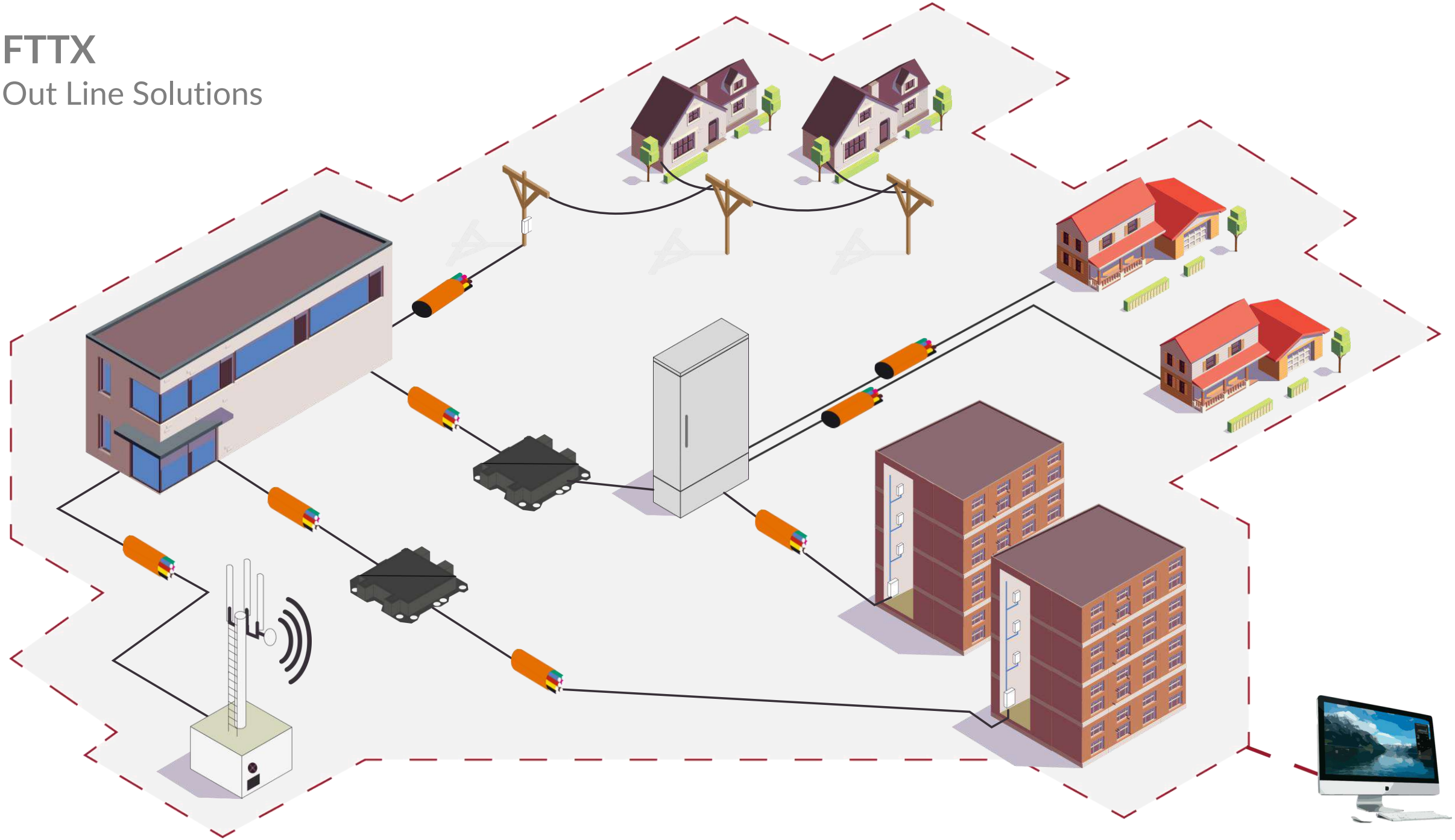
Kalentel
every connection counts

Catalogue for

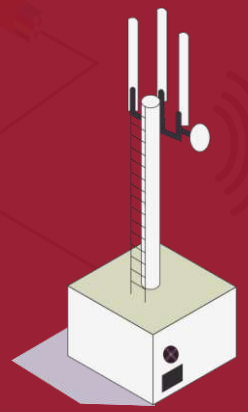
FTTX Solutions

FTTX

Out Line Solutions



FTTX
Out Line Solution



- Cooling unit

- Subrack

- Splitter

- FttA

- Shelter

- FWA Cabinet

COOLING UNIT

Multi-functional Cooling Unit

Heat Pipe Heat Exchanger

Mini-shelter Integrated Air-conditioning Heat Exchanger Unit

BACK

COOLING UNIT

MULTI-FUNCTIONAL COOLING UNIT

Compared to the ones of traditional outdoor mobile base station without a temperature management device, the new battery of outdoor base station with a cooling unit has a service life prolonged 3 to 4 times. The new-type compression multi-functional cooling unit, which applies DC power supply, is able to ensure that the temperature of battery cabinet will not exceed 25°C when the environmental temperature is as high as 55°C, and its energy consumption only takes 1/4 of that of the traditional TEC cooling unit. By advantage of the adoption of 48V DC direct-driving compressor, the cooling unit doesn't need to bear any additional failure risk and energy consumption caused by inverter, and continues working by using the electric energy from accumulator after the interruption of mains supply. Owing to the excellent energy efficiency ratio (EER), the working cooling unit only consumes a little of back-up power.

For the regions where the mains supply is in a better and stable condition, we also provide a type of multi-functional cooling unit which applies the bi-model (AC & DC) power supply technologies. The compressor is AC-powered. When the mains supply is interrupted, the DC-powered fan and electric air damper will operate in time for indoor/ outdoor air exchange, so as to prevent the battery cabinet from excessive high temperature as a result of the interruption of mains supply. The electric air damper also has the function of exhausting hydrogen and acid gases produced by the working battery from the cabinet in daily use.

By installing the multi-functional cooling units, the outdoor station can have the longer life, and avoid reakdown due to the batter's malfunction.
The multi-functional cooling unit not only can be used for the cooling of battery chamber, but also applies to the heat management of small outdoor cabinet due to its compact and light structure.

BACK

COOLING UNIT
HEAT PIPE HEAT EXCHARGER

Because of the structural problem of heat exchange core, the power-heat ratio of traditional plate heat exchanger is limited to 4~6, and the attenuation value of heat exchange will become higher and higher after a period of operation. After applying the new type double siphon heat pipe heat exchanger, which lowers the coolant flow resistance through two groups of siphon heat pipes, the power-heat ratio is 10 and higher. Meanwhile, in virtue of the parallel-flow heat exchange technology, the air resistance is 2/3 lower than traditional plate.

Accordingly, it can not only save almost half energy consumption and extend the interval of maintenance twice and more during the long-term operation. Each set of heat exchanger provides such options as standard model, low noise model and energy-saving model. In the noise-sensitive regions, the low noise model shall be selected to make the sound pressure level of noise below 55dB.

BACK

COOLING UNIT

MINI-SHELTER INTEGRATED AIR-CONDITIONING HEAT EXCHARGER UNIT

An ideal mini-shelter heat management equipment shall have low energy consumption as the heat exchanger but with the same cooling capability as the cabinet air-conditioning. Furthermore, when the cooling system malfunctions, the heat exchanger can operate automatically, so as to prevent the entire system of outdoor base station from going ¡°out of service due to loss of temperature control.
The innovative design integrates the compression cooling system and the independent flow heat exchanger, creating the Integrated Air-conditioning Heat Exchanger a brand-new heat management device which doesn’t belong to cabinet air-conditioning and is different from ordinary heat exchanger.

The outdoor base station works under changing temperatures. In general, the daily maximum temperature is in the time period from 10:00AM to 3:00PM. During such period, the compression cooling unit is used for cooling supply, while the heat exchanger is used to control the temperature during the rest periods. Therefore, under the same condition, the energy consumption of integrated air-conditioning heat exchanger is 70% lower than that of traditional cabinet air-conditioning.
With an independent cooling and heat exchange system installed inside, the mini-shelter possesses two redundant sets of equipments even if merely one set is installed.

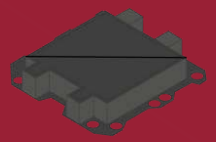
BACK

FTTX
Out Line Solution

- Underground distribution systems with water proofed cabinet

- Underground distribution systems for socket combinations

- Underground distribution systems for customer specific installations

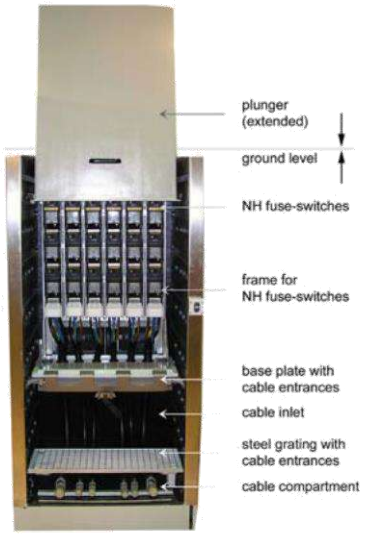


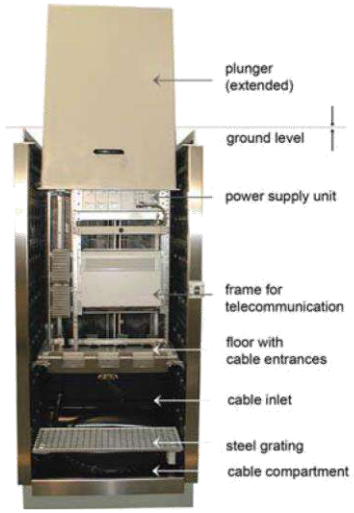
- Underground distribution systems for supply media

- Underground distribution systems for fiber optic

UNDERGROUND DISTRIBUTION SYSTEMS
WITH WATER PROOFED CABINET

System with swivelling water proofed cabinet to assemble components for power distribution, controls for streetlight management or telecommunication





System accessible with vertically installed frame to assemble units for telecommunication, control and power distribution Approved by the employer`s liability insurance association.

BACK

UNDERGROUND DISTRIBUTION SYSTEMS
FOR SOCKET COMBINATIONS

System with vertically removable distributor and cast iron cover with customer-specific equipment

Variation of manhole sizes and covers, System with swivelling cover and assembled socket combination

BACK

UNDERGROUND DISTRIBUTION SYSTEMS
FOR CUSTOMER SPECIFIC INSTALLATIONS

System with vertically removable distributor and cast iron cover with customer-specific equipment

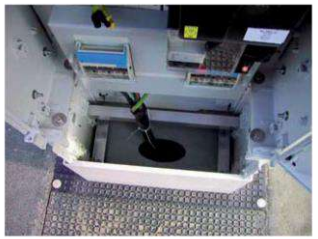
System with integrated cable outlet in the cast iron cover

With HRC00 3 pole isolator assembled in a water proofed IP 68 enclosure

BACK

UNDERGROUND DISTRIBUTION SYSTEMS
FOR SUPPLY MEDIA

System includes polycarbonate manhole and street cabinet with base. Application for a temporary distribution unit at market-places



System with integrated supply media such as water meter

BACK

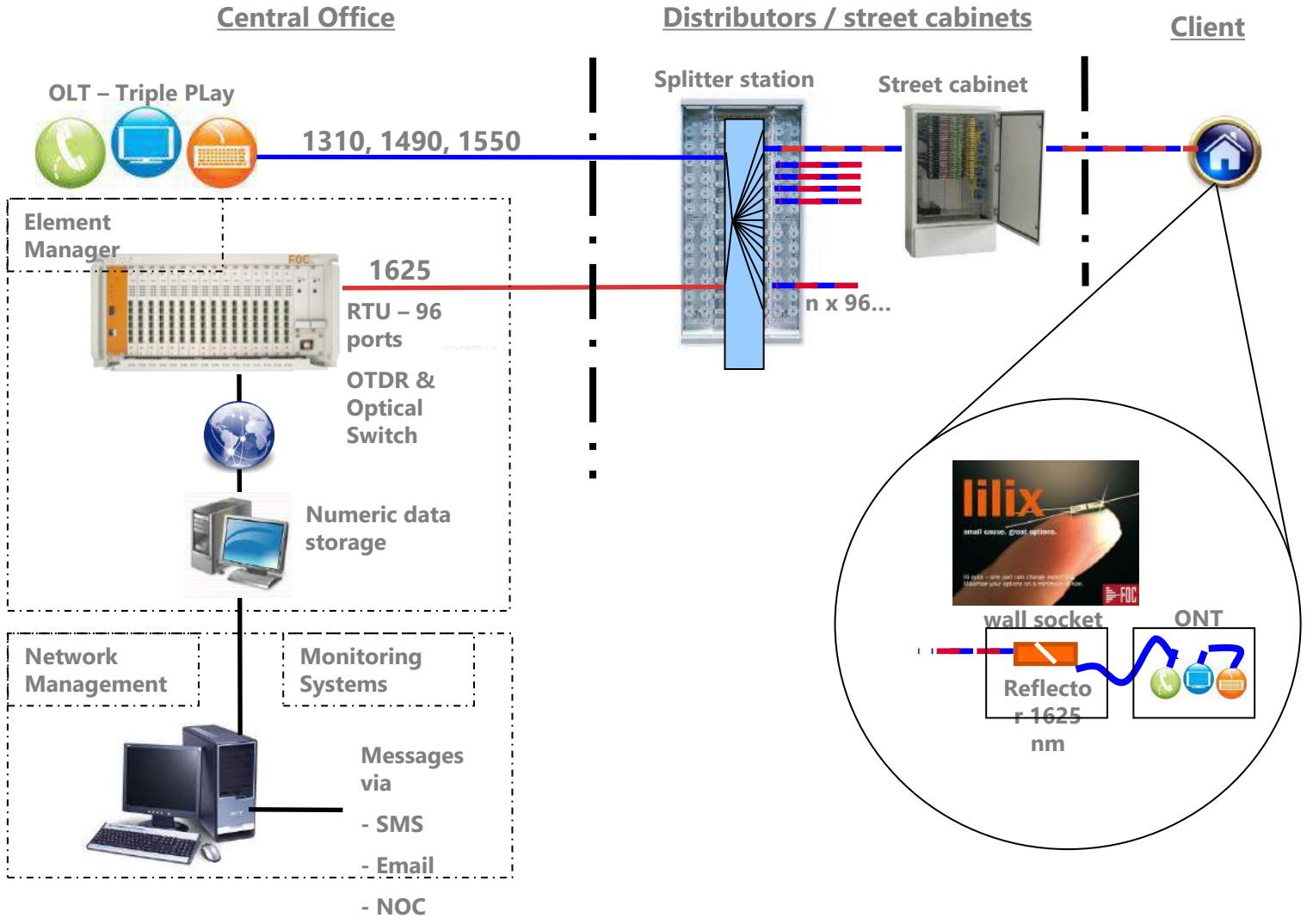
UNDERGROUND DISTRIBUTION SYSTEMS
FOR FIBER OPTIC

Shaft equipped with two socket mounts, adaptation of various fiber optical closures, sleeve mounted on a telescopic arm and more length recording of microducts.

BACK

INTERFACES:
FTTX MONITORING

Monitoring Systems

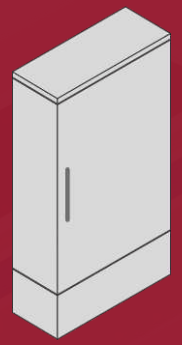


BIDIRECTIONAL REFLECTOR

MONODIRECTIONAL REFLECTOR

BACK

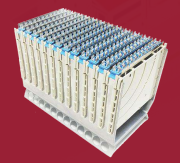
FTTC/FTTH
Out Line Solutions



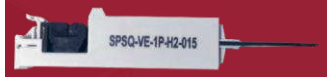
- Outdoor Cabinet

- Subrack

- IDC



- Splitter



- Wall outlet Termination box

OUTDOOR CABINET

CNO

PFS4

CRO

PFS3

MINICRO

SOPRALZO

BACK

OUTDOOR CABINET

PFS3

BACK

OUTDOOR CABINET

PFS4

BACK

OUTDOOR CABINET

CNO

BACK

OUTDOOR CABINET

SOPRALZO

BACK

OUTDOOR CABINET

CRO

BACK

OUTDOOR CABINET

MINICRO

BACK

SUBRACK

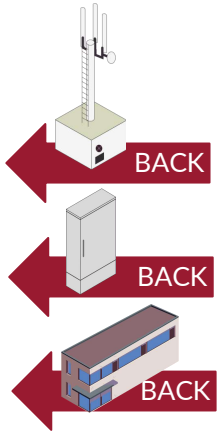
Standard sliding 19"subrack

19/21 72/144 FO
patch and splice

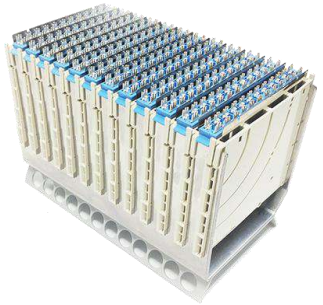
Standard pivot 19/21 subrack

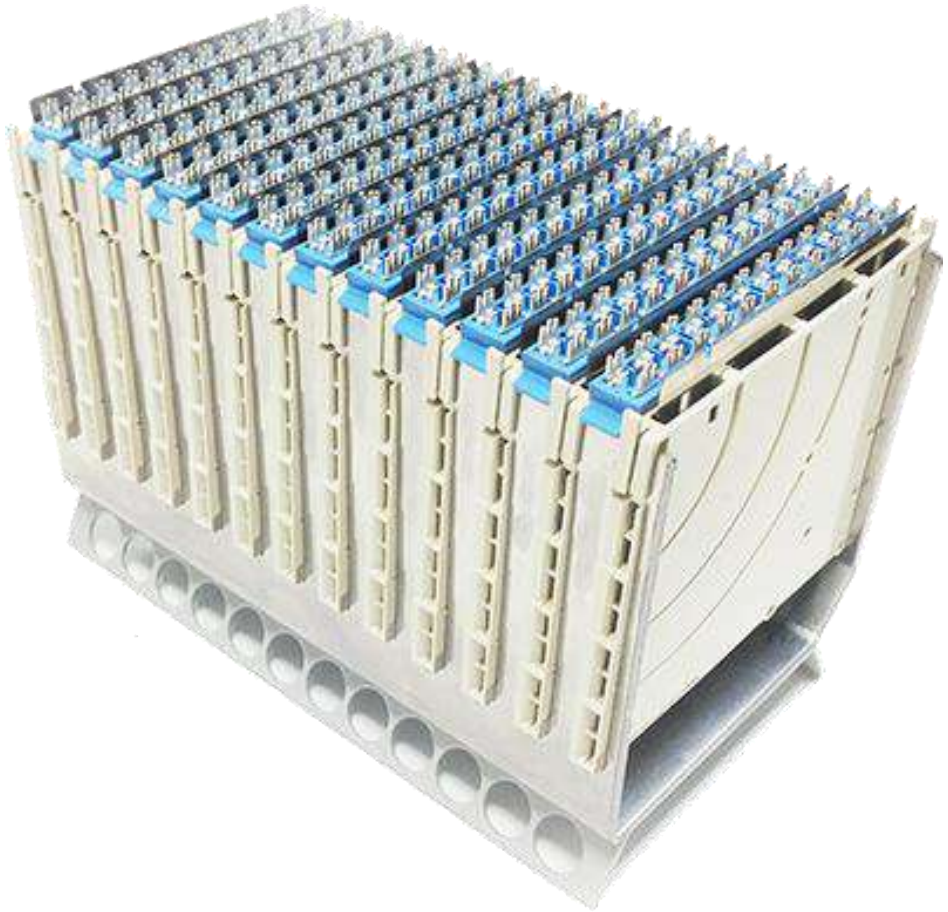
3 fixing points pivot 19
patching subrack

3 fixing points pivot 19
patch/splice subrack



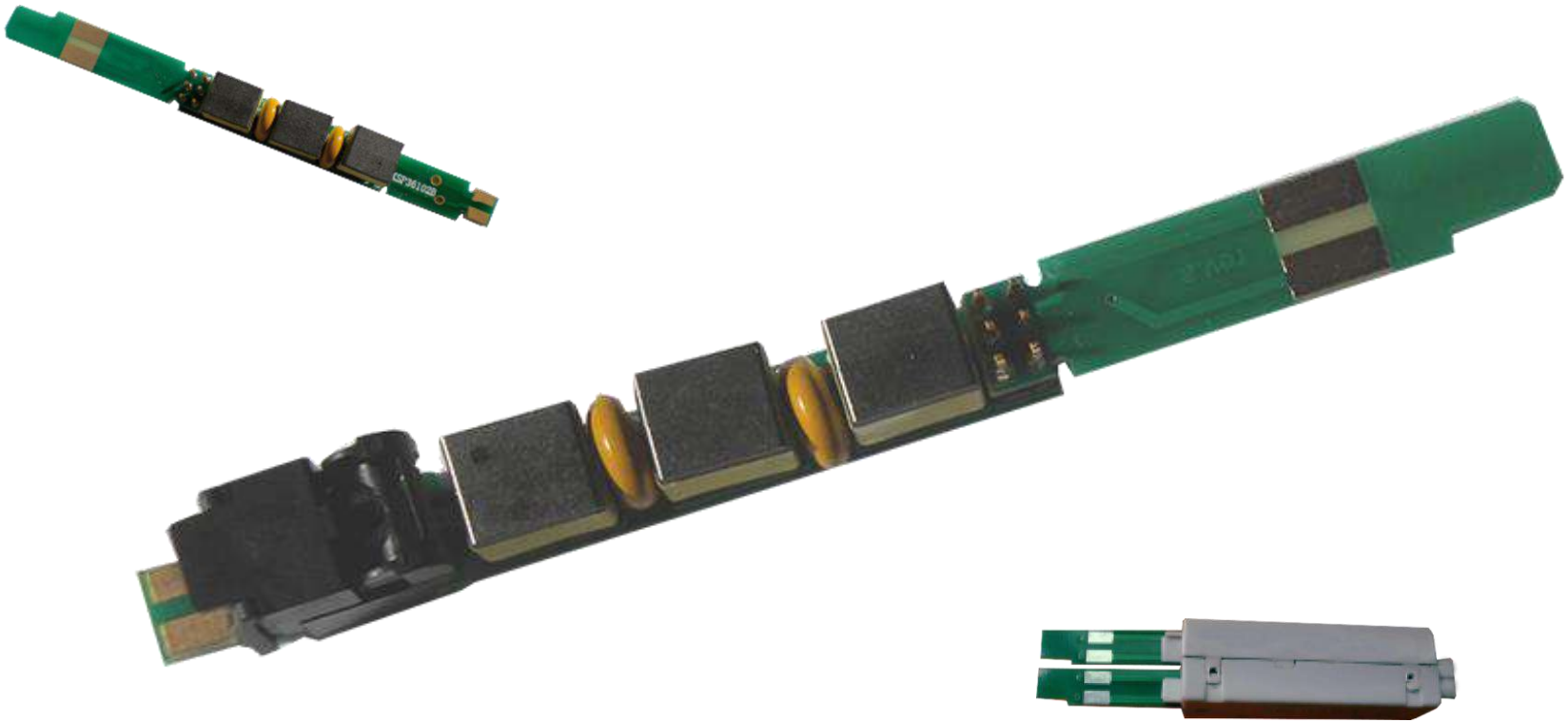
IDC





BACK

SPLITTER



BACK

WALL OUTLET

1 F.O.

4 F.O.

PIZZABOX

2 F.O.

HYBRID

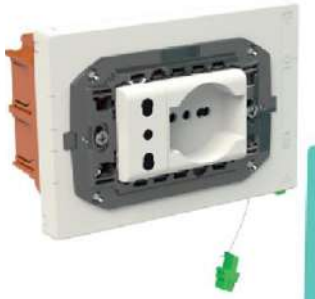
COPPER

BACK

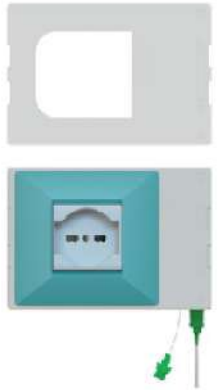
BACK

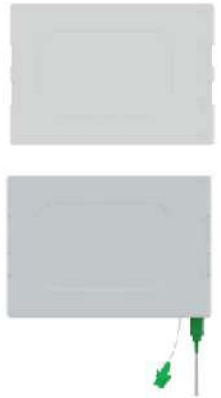
WALL OUTLET
1 CUSTOMER

FRAME WALL OUTLET



OUR DESIGN WALL OUTLET



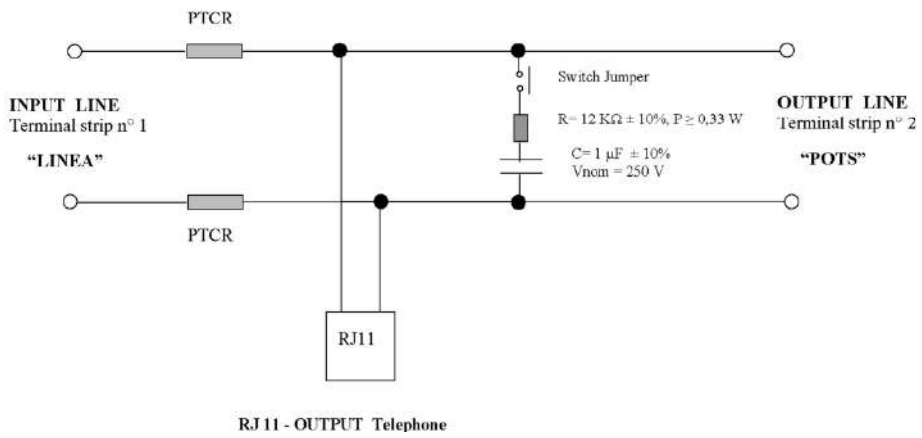


OF WALL OUTLET

BACK

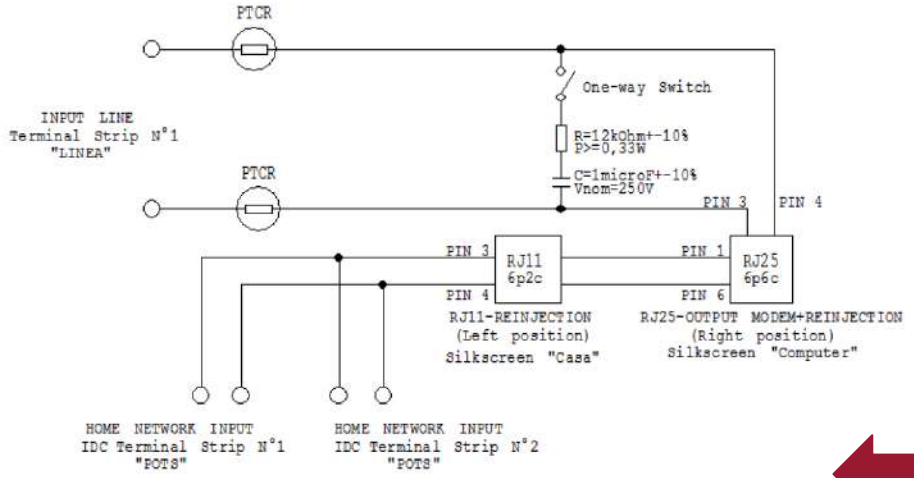
WALL OUTLET
COPPER

BASE POTS WALL OUTLET



RJ 11 - OUTPUT Telephone

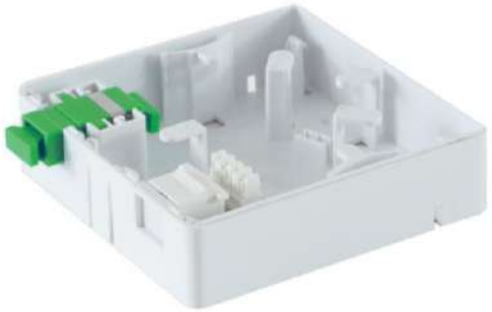
CUSTOMER CIRCUIT BREAKER (CBS)



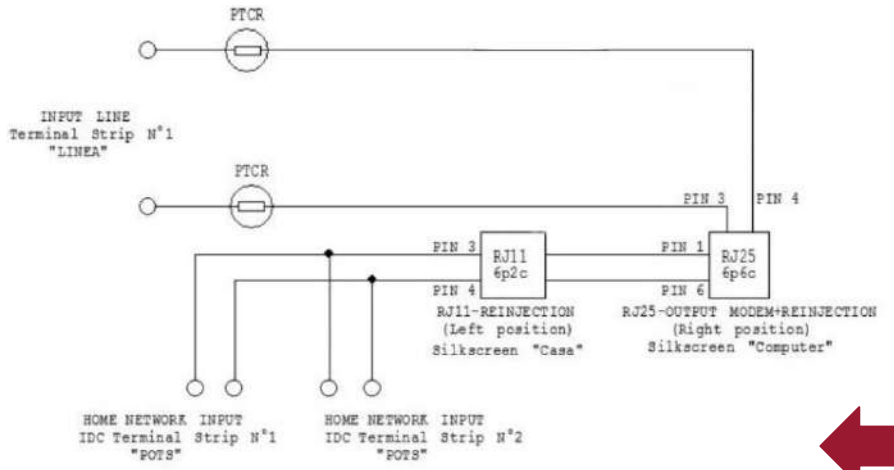
BACK

WALL OUTLET
HYBRID

STANDARD HYBRID WALL OUTLET



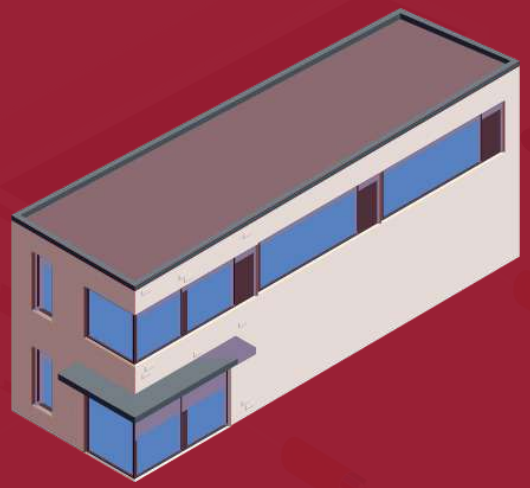
TIM HYBRID WALL OUTLET



BACK

DATAOFFICE/DATACENTER

Out Line Solutions



- Rack and accessories

- POP and Shelter infrastructures

- Fiber Optical Cable Duct

DATA OFFICE/DATACENTER SOLUTIONS

RACK AND ACCESSORIES

- Free Standing
- Customized Racks
- Wall Mounting
- Subracks
- Security
- Intelligent PDUs
- Customized PDUs

BACK

RACK AND ACCESSORIES

IT NETWORK AND DATACENTRE INFRASTRUCTURE

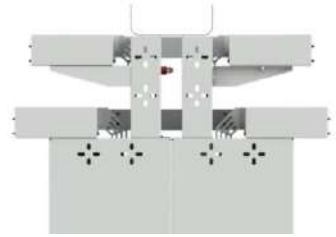
NETWORKING SOLUTION

DATACENTER SOLUTION

BACK

DATA OFFICE/DATACENTER SOLUTIONS

POP AND SHELTER SOLUTION



OF DUCTS SOLUTION

BIZ DUCTS SOLUTION

TIM VERS.

BACK

DATA OFFICE/DATACENTER SOLUTIONS

TIM POP SOLUTION

BACK

RACK AND ACCESSORIES
WALL MOUNTING

BACK

RACK AND ACCESSORIES
SECURITY

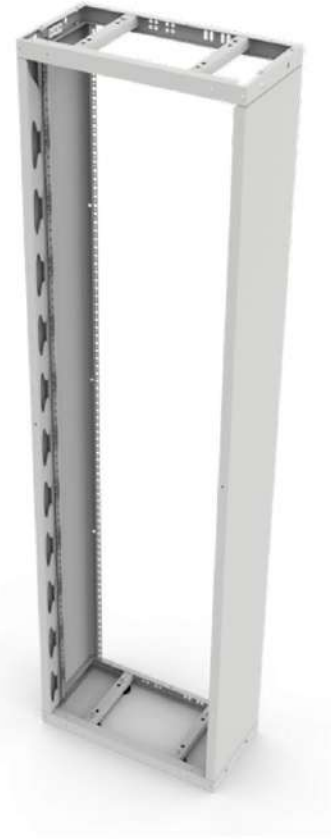
BACK

RACK AND ACCESSORIES

CUSTOMIZED RACK

VULA OF SOLUTION

ODF 3 FIXING PONTS OF SOLUTION



N3 ETSI 21” SOLUTION

BACK

SHELTER FOR POP

ACCESS POINT FOR DATA TRAFFIC

The shelters intended to house telecommunications equipment are equipped with active conditioning as this solution is more efficient when the heat to be dissipated is high and when there is electricity from the network.

BACK

FWA OUTDOOR/INDOOR
CABINET FOR FWA NETWORK

The FWA cabinet is a cabinet designed and built for use outdoors and in any case in situations not protected from bad weather.
It is used to house telecommunication equipment in areas open to the public or private, along roads and sidewalks, on building terraces or near pylons. Typically each cabinet is equipped with an input protection panel, a -48Vdc energy station with relative management module and back-up batteries to ensure continuity of power supply even in the absence of 230Vac mains voltage and a integrated distribution panel.

BACK

RACK AND ACCESSORIES

CUSTOMIZED CURRENT MONITORING PDU

4RU 48Vcc 4+4ui

3RU 48Vcc 8+8ui

3RU 230VAC FOR AUTOMATIC TRANSFER SWITCH

BACK

RACK AND ACCESSORIES
INTELLIGENT PDU

AMPERMETER DISPLAY BASIC PDU:

MANAGED SWITH on SWITCH off IP PDU
Per Socket Base:

Power Generatrix Distribution System
MONITORING AND MANAGEMENT FUNCTIONS:

BACK

FIBER OPTICAL CABLE DUCT

Optical cable duct is a system designed to protect and route fiber optic patch cords, cable assemblies to and from fiber guide closures, ODF and other terminal devices. Optical cable duct offers ideal solution for optical raceway requirements and application with pleasing appearance and easy maintenance.

Sizes

Parts

Supports

Installations

BACK

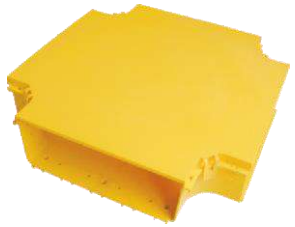
FIBER OPTICAL CABLE DUCT

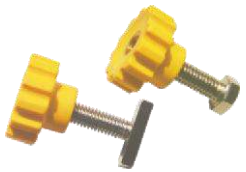
SIZE

BACK

FIBER OPTICAL CABLE DUCT

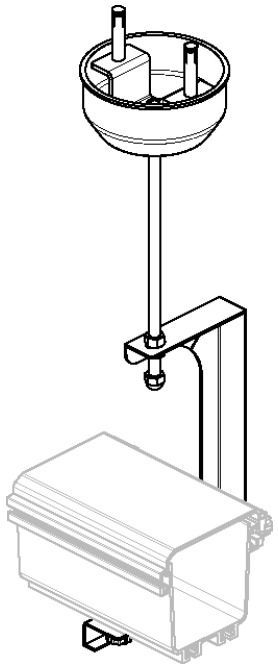
PARTS

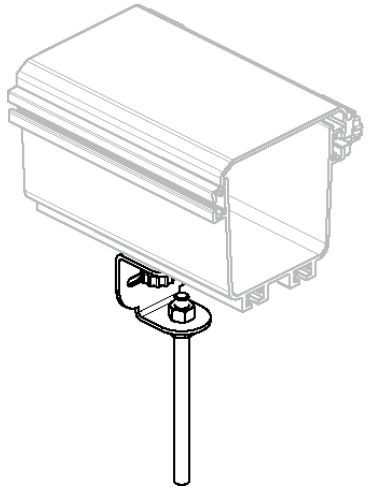


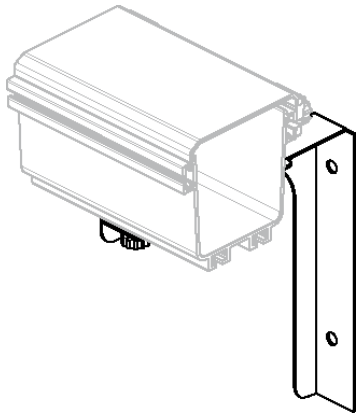


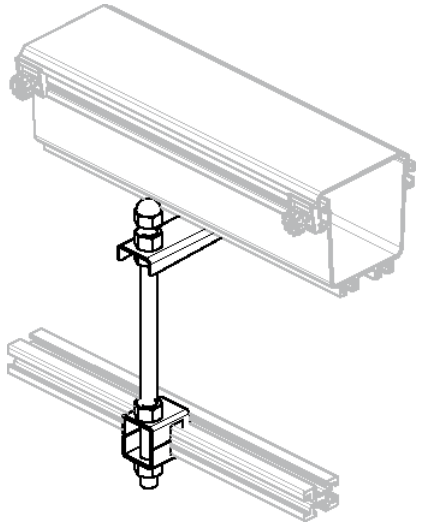
BACK

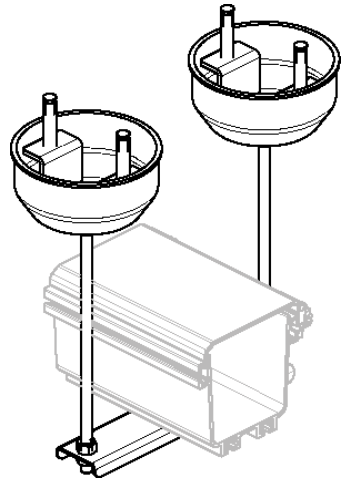
FIBER OPTICAL CABLE DUCT
SUPPORTS











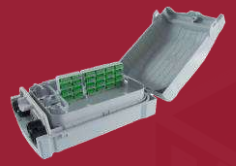
BACK

FIBER OPTICAL CABLE DUCT
INSTALLATIONS

BACK

FTTH
Building Out Line Solutions

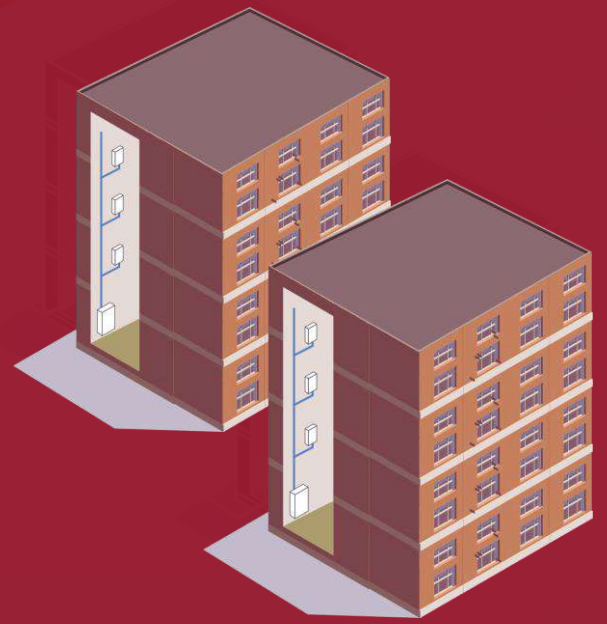
Framework



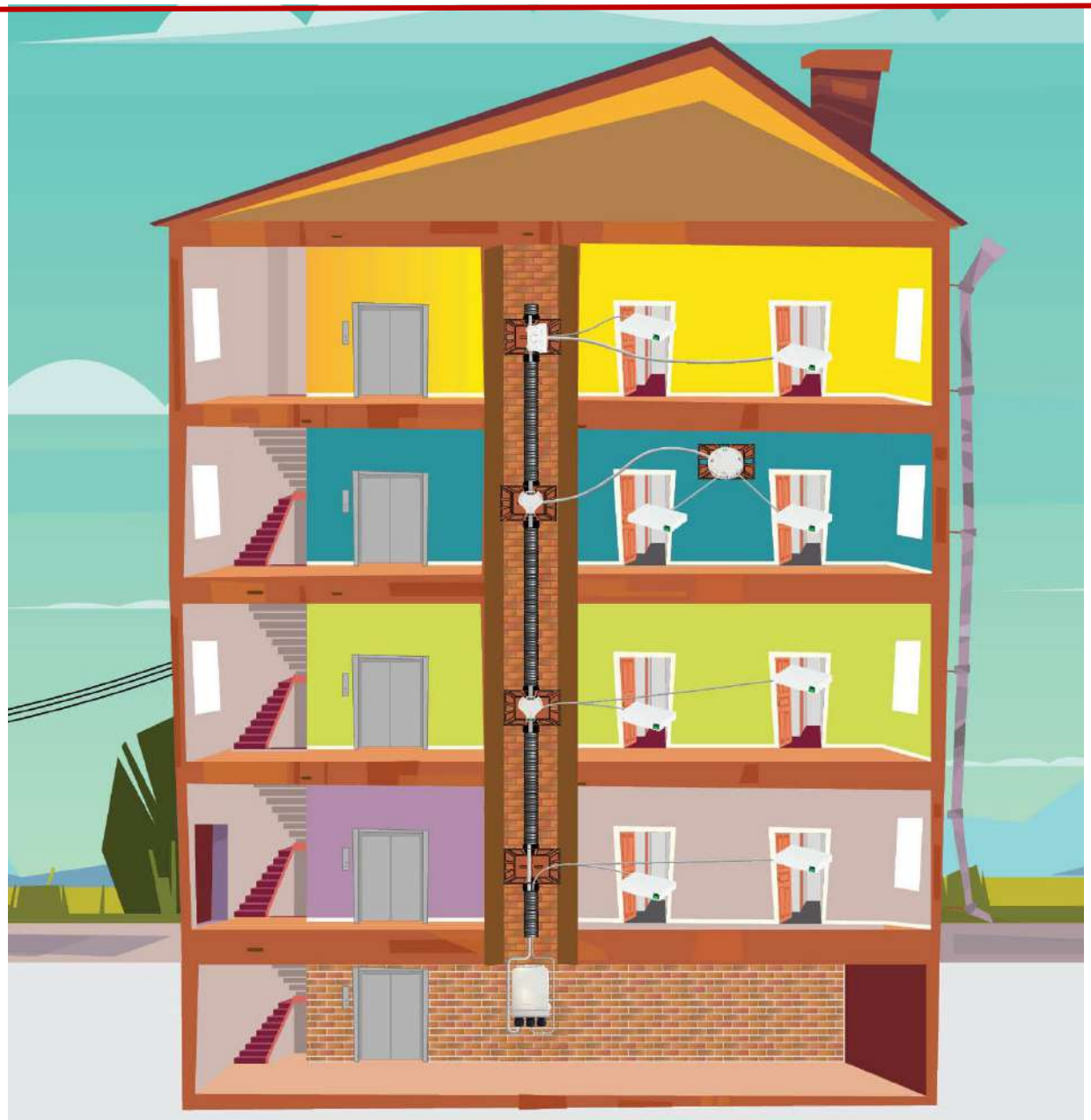
Building distribution box

Floor distribution box

Customer wall outlet



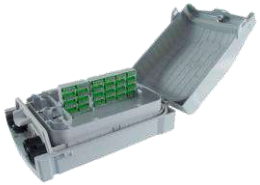
FRAMEWORK
(FTTH)



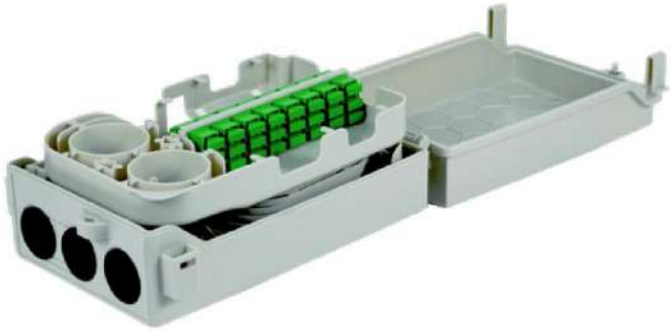
BACK

BUILDING DISTRIBUTION BOX

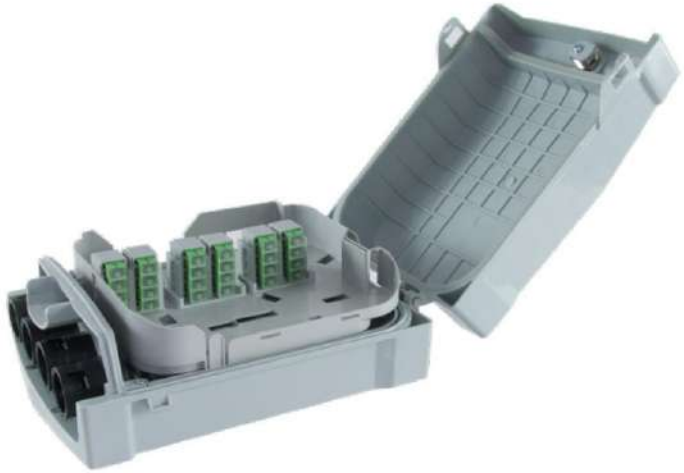
PTE – Splicing and patching box



24UI OF version



24UI TIM version

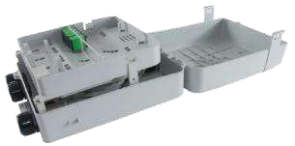


48UI TIM version

BACK

BUILDING DISTRIBUTION BOX

ROE – Splicing, splitting and patching box

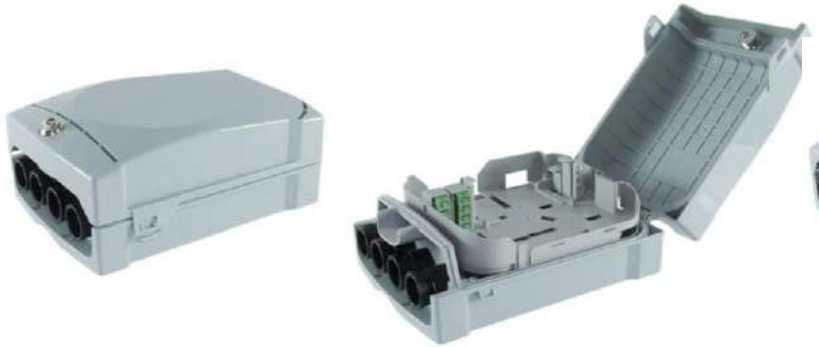


8UI our design

16UI our design

32UI our design

24UI TIM version



32UI TIM version

48UI TIM version

BACK

FLOOR DISTRIBUTION BOX

FDB

EXTERNAL FLOOR BOX

CUSTOMIZED EXTERNAL FLOOR BOX

PRIMARY FLOOR DISTRIBUTION BOX

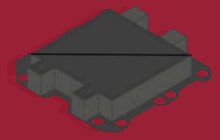
INTERNAL SPLICING BOX

SECONDARY FLOOR DISTRIBUTION BOX

BACK

FTTX
Out Line Solution

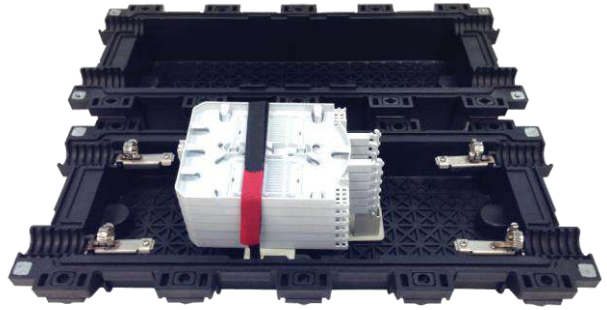
Fiber Optic Closure



FIBER OPTIC CLOSURE

SINGLE ELEMENT
(FOSC TYPE)

SINGLE CIRCUIT
(FIST TYPE)



INLINE CLOSURE

BACK

FIBER OPTIC CLOSURE

SINGLE ELEMENT (FOSC TYPE)

SPLICE TRAYS AVAILABLE

MINI CLOSURE

BASES AVAILABLE

BACK

FIBER OPTIC CLOSURE

SINGLE CIRCUIT (FIST TYPE)

ROUND CLOSURE

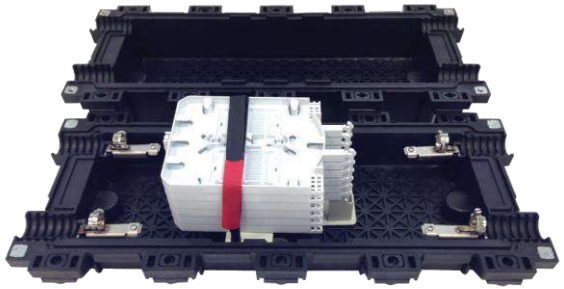
SQUARE CLOSURE

CUSTOMIZED CLOSURE

BACK

FIBER OPTIC CLOSURE

INLINE CLOSURE



BACK

FTTX

Underground Out Line Solutions

- Speed•pipe® System
- Split Duct System
- Common Fittings

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Connecting elements

Branch Supports

Protection elements

Tools

Speed•pipe® bundles ground

Sealing and fixing elements

Connecting elements

Branch Supports

House lead-ins

Application in the cellar

Above ground application

Sleeves

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

With the speed•pipe® pipe-in-pipe solution gabocom facilitates a flexible, cost-saving and maximum utilisation of capacity of empty and occupied ducts.

Speed•pipe® fittings

Speed•pipe® bundles ground

House lead-ins

Application in the cellar

Above ground application

Sleeves

Protection elements

Tools

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Ground

The speed•pipe® ground are directly buried and assure highest flexibility when constructing fibre optic networks.

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Branch Supports

Protection elements

Tools

Speed•pipe® bundles ground

House lead-ins

Application in the cellar

Above ground application

Sleeves

The divisible and easy to install sealing and fixing elements of gabocom allow the gas- and water-tight sealing of empty and occupied ducts and ensure the fixing against elongation.

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Connecting elements

Branch

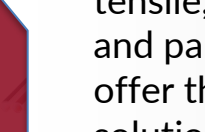
Protection elements

Tools

Speed•pipe® bundles ground

Sealing and fixing elements

Connecting



House lead-ins

Application in the cellar

Above ground application

Sleeves

The gabocom connecting elements which are resistant to tensile, easy to install and partially divisible, offer the perfect solution for the gas- and water-tight connection of empty or occupied speed•pipe®.

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Connecting elements

Branch Supports

Tools

Speed•pipe® bundles ground

Sealing and fixing elements

Connecting elements

House lead-ins

Application in the cellar

Above ground application

Sleeves

With the branch supports for the speed•pipe® bundle ground gabocom ensures simple and secure solutions.

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Connecting elements

Branch Supports

Protection elements

Speed•pipe® bundles ground

Sealing and fixing elements

Connecting elements

Branch Supports

House lead-ins

Application in the cellar

Above ground application

Sleeves

In order to allow the storage of excess lengths and to guarantee a safe protection of the cables against damages, gabocom developed special protection elements.

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Connecting elements

Branch Supports

Protection elements

Tools

Speed•pipe® bundles ground

Sealing and fixing elements

Connecting elements

Branch Supports

House lead-ins

Application in the cellar

Above ground application

Sleeves

The gabocom speed•pipe® and speed•pipe® bundles can be professionally cut with the corresponding tools.

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Protection elements

Tools

Speed•pipe® bundles ground

Sealing and fixing elements

Branch Supports

House lead-ins

Application in the cellar

Above ground application

Sleeves

The direct burying speed•pipe® bundles ground for customer connection networks (FTTH) enable the development of flexible fibre optic networks with maximum capacity utilisation.

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Tools

Speed•pipe® bundles ground

Sealing and fixing elements

Connecting elements

Branch parts

House lead-ins

Application in the cellar

Above ground application

Sleeves

The speed•pipe® ground out of the speed•pipe® bundle ground can be pulled into existing PE-HD ducts for ensuring maximum occupation. This enables a cost saving and flexible network construction.

BACK

SPEED•PIPE® SYSTEM

Pipe-in-pipe

Sealing and fixing elements

Sealing and fixing elements

Application in the cellar

Ground

Connecting elements

Connecting elements

Above ground application

Branch Supports

Sleeves

The direct burying speed•pipe® bundles ground ensure highest flexibility for the structure of latest access networks (FTTN / FTTC).

Branch Supports

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Connecting elements

Branch Supports

Protection elements

Tools

Speed•pipe® bundles ground

Sealing and fixing elements

Branch Supports

House lead-ins

Application in the cellar

A variety of gabocom components allows the gas- and water-tight realisation of the customer connection in the cellar.

Sleeves

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Connecting elements

Branch Supports

Protection elements

Tools

Speed•pipe® bundles ground

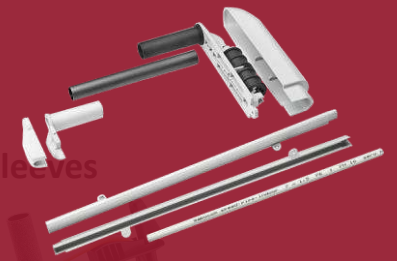
Sealing and fixing elements

Connecting

House lead-ins

Application in the cellar

Above ground application



Sleeves

The above ground house lead-in ensures the gas- and water-tight customer connection through the facade. Therefore gabocom developed a special design for all common facades which guarantees a comfortable atmosphere.

BACK

SPEED•PIPE® SYSTEM

Speed•pipe®

Pipe-in-pipe

Ground

Speed•pipe® fittings

Sealing and fixing elements

Connecting elements

Branch Supports

Protection elements

Tools

Speed•pipe® bundles ground

Sealing and fixing elements

Connecting elements

Branch Supports

House lead-ins

Application in the cellar

Above ground application

Sleeves

The gabocom sleeves allow the application of all house lead-ins in brick walls.

BACK

SPLIT DUCT SYSTEM

Split ducts

Connectors

Assembly tools

Split ducts bends

Branches

Repairing Sleeves

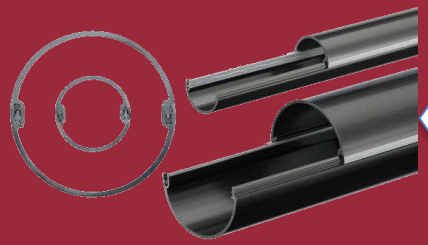
BACK

SPLIT DUCT SYSTEM

Split ducts

Connectors

Assembly tools



The split ducts KKHR were developed by gabocom for the pressure-tight repair of empty ducts or ducts occupied with cables or speed•pipe®. They are suitable for the gas- and water-tight sealing of blow-in points. They consist of two half shells manufactured out of high-quality PVC-U. The easy installation facilitates the branching off from pipeline routes.

Split ducts bends

Repairing Sleeves

BACK

SPLIT DUCT SYSTEM

Split ducts

Connectors

Assembly tools

The connector EBM and the split duct sleeve KKHRM are used for the gas- and water-tight connection of split ducts and ducts. The connectors EBM are resistant to tensile. Both fittings are out of PVC-U and are divisible.

Split ducts bends

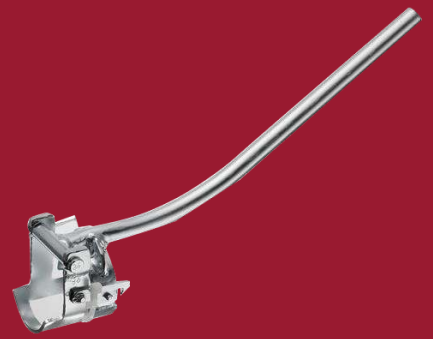
Branches

BACK

SPLIT DUCT SYSTEM

Assembly tools

The assembly tools KKHRG are divisible. They are used for the professional assembly of the gabocom split ducts.

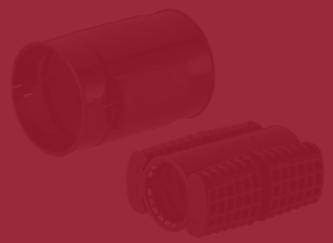


BACK

SPLIT DUCT SYSTEM

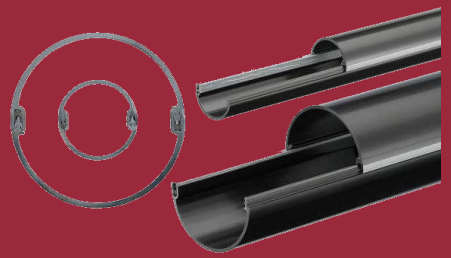
Split ducts

Connectors



Assembly tools

Split ducts bends



The divided split duct bends KKHRB are used for repairing ducts which are laid in a bend due to changes of the pipe ways or to height differences. They consist of PVC-U and are gas- and water-tight up to 0.5 bar.

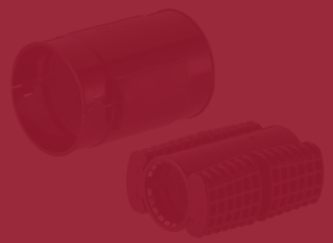
Repairing Sleeves

BACK

SPLIT DUCT SYSTEM

Split ducts

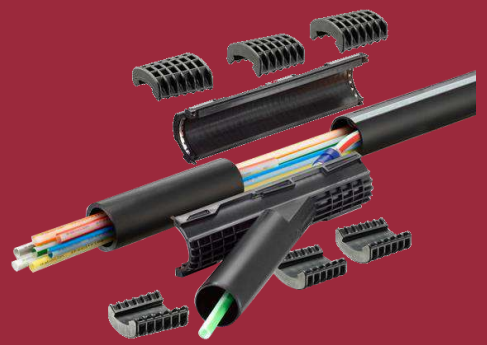
Connectors



Assembly tools

Split ducts bends

Branches



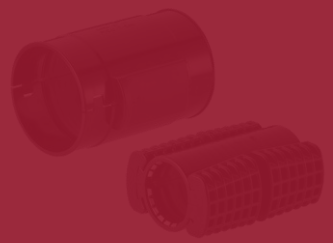
By means of the divided split duct branch HRMA and split duct double branch HRM-DA, speed•pipe® or cables are safely branched off from a PE / PVC duct. They are gas- and water-tight up to 0.5 bar.

BACK

SPLIT DUCT SYSTEM

Split ducts

Connectors



Assembly tools

Split ducts bends

The divided repairing sleeves EBM-R and RM are applicable for the repair of light damages of empty ducts or ducts occupied with cables. They are gas- and water-tight up to 0.5 bar.

Repairing Sleeves

BACK

COMMON FITTINGS

Sealing elements

Divisible sealing elements

Protective duct sealing

Sealing plugs

Sealing caps

Sealing and fixing discs

Cable end caps

BACK

COMMON FITTINGS

Sealing elements

Divisible sealing elements

The divisible sealing elements ensure the gas- and water-tight sealing of empty ducts or ducts occupied with cables.

Sealing plugs

Sealing caps

Sealing and fixing discs

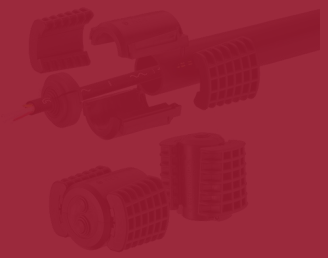
Cable end caps

BACK

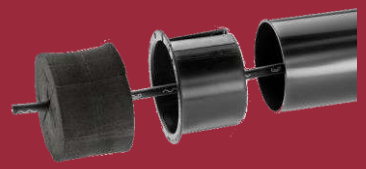
COMMON FITTINGS

Sealing elements

Divisible sealing elements



Protective duct sealing



The protective duct sealings allow the sealing against sand of empty ducts or ducts occupied with cables.

Sealing plugs

Sealing caps

Sealing and fixing discs

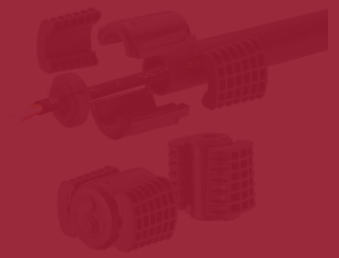
Cable end caps

BACK

COMMON FITTINGS

Sealing elements

Divisible sealing elements



Protective duct sealing

The sealing plugs ensure the gas- and water-tight sealing of insertion ends and sockets up to 0.5 bar.

Sealing plugs

Sealing caps

Sealing and fixing discs

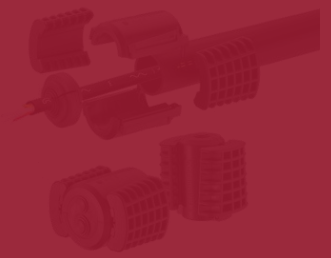
Cable end caps

BACK

COMMON FITTINGS

Sealing elements

Divisible sealing elements



Protective duct sealing

Sealing plugs

Sealing caps

Sealing and fixing discs

Cable end caps

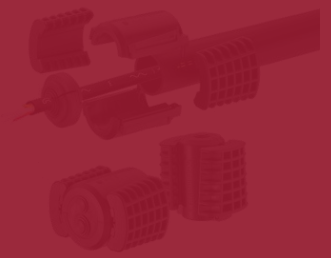
The protective duct sealings allow the sealing against sand of empty ducts or ducts occupied with cables.

BACK

COMMON FITTINGS

Sealing elements

Divisible sealing elements



With the divisible sealing and fixing discs gabocom offers an optimised solution for the gas- and water-tight sealing of the cavity between the cable duct and the multi pipe.

Sealing plugs

Sealing caps

Sealing and fixing discs

Cable end caps

BACK

COMMON FITTINGS

Sealing elements

Divisible sealing elements

Protective duct sealing

Sealing plugs

Sealing caps

Sealing and fixing discs

Cable end caps

The cable end caps ensure the gas- and water-tight sealing of cable ends.

BACK

COMMON FITTINGS

Connecting elements

Transition fitting

Duct adaptors

Connector

Duoble clamp fittings

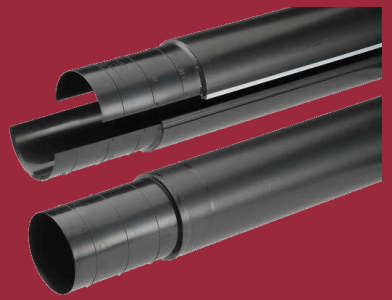
Transition duct socket

BACK

COMMON FITTINGS

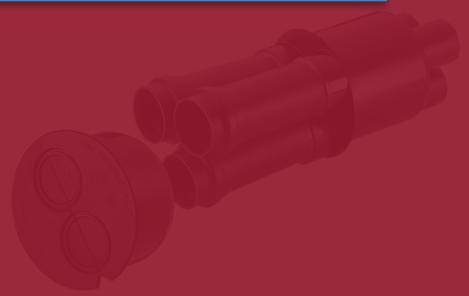
Connecting elements

Transition fitting



The transition fittings connect cable ducts and cable duct blocks.

Connector



Duoble clamp fittings

Transition duct socket

BACK

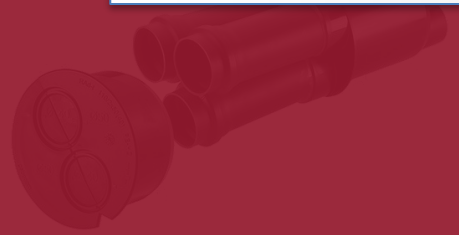
COMMON FITTINGS

Connecting elements

Transition fitting

Connector

PE-HD ducts are connected with this fitting.



Duoble clamp fittings

Transition duct socket

BACK

COMMON FITTINGS

Connecting elements

Transition duct socket

The transition duct socket allows the connection of PE-HD culvert pipes to cable ducts.

BACK

COMMON FITTINGS

Connecting elements

Transition fitting

Connector

Duct adaptors

The duct adaptors are used as transition elements in sockets.

Transition duct socket

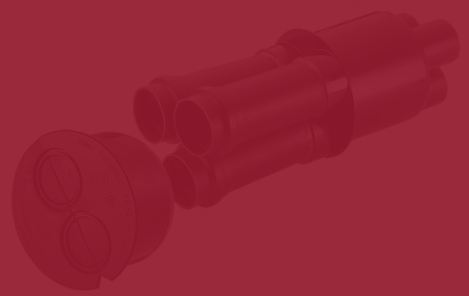
BACK

COMMON FITTINGS

Connecting elements

Transition fitting

Duct adaptors



Connector

Duoble clamp fittings

The double clamp fittings connect PE-HD ducts.

Transition duct socket

BACK

COMMON FITTINGS

Repair set for multi pipe

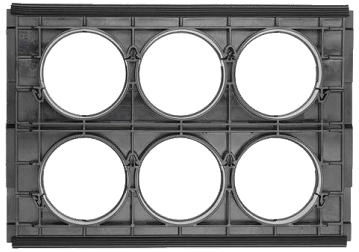
Half Shells for protective pipes

Sealing elements

Spacers

Connecting elements

Ducting terminal panels



Jointed Duct bends

BACK

COMMON FITTINGS

Half Shells for protective pipes

The protective half shells HS protect communication and power cables being laid above ground. Furthermore they meet all requirements for repairing half shells for sand-tight cable protection ducts. They consist of two half shells with snap lock and are manufactured out of UV-resistant PVC-U. Due to its white colour the extension caused by solar radiation is kept low. The easy handling allows a rapid installation. The half shells are reusable.

BACK

COMMON FITTINGS

Repair set for multi pipe

The repair set for multi pipe MR-RS was developed by gabocom for repairing occupied multi pipes and for the connection in manholes. The gas- and water-tight system completes the split duct system KKHR 110. It is compatible with multi pipes of the dimension 2×32 and 2×40 and can easily be installed.

Sealing elements

Ducting terminal panels

Jointed Duct bends

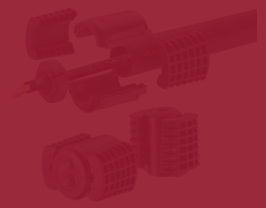
Half Shells for protective pipes

BACK

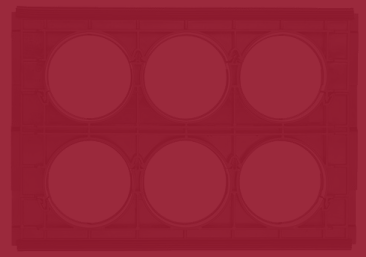
COMMON FITTINGS

Repair set for multi pipe

Sealing elements



Ducting terminal panels



Spacers

Half Shells for protective pipes

Jointed Duct bends

Connecting elements

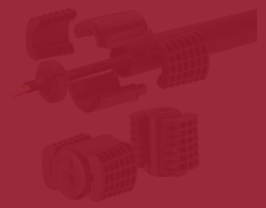
The spacers AH are used for direct burying and are manufactured out of PE-HD.

BACK

COMMON FITTINGS

Repair set for multi pipe

Sealing elements

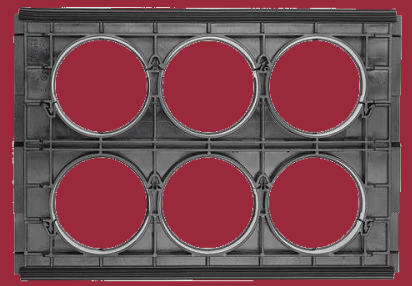


Spacers

Half Shells for protective pipes

Connecting elements

Ducting terminal panels



The ducting terminal panels EP were developed for the insertion of ducts with diameter 110mm into distribution boxes and small manholes. They consist of PE-HD, are self-clamping at the duct and thus especially easy to install. An afterward installation is also possible.

BACK

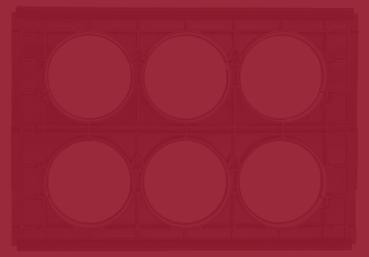
COMMON FITTINGS

Repair set for multi pipe

Sealing elements

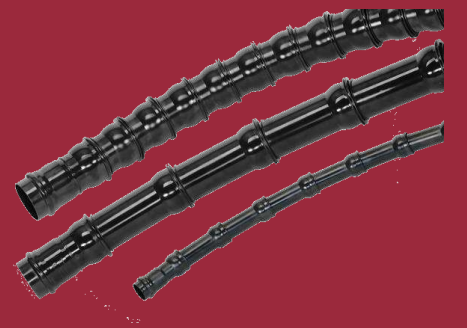
Spacers

Ducting terminal panels



Half Shells for protective pipes

Jointed Duct bends



The transition duct socket allows the connection of PE-HD culvert pipes to cable ducts.

BACK

FTTH
Aerial Out Line Solution

- Aerial distribution cabinet

- Outdoor boxes

- Suspensions
- Wall outlet

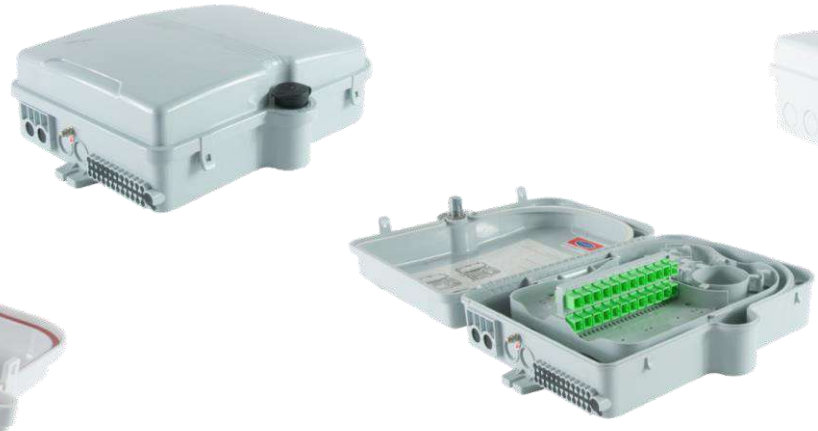
RADIAL DISTRIBUTION BOX

4FO

8FO

12FO

16FO



24FO

48FO

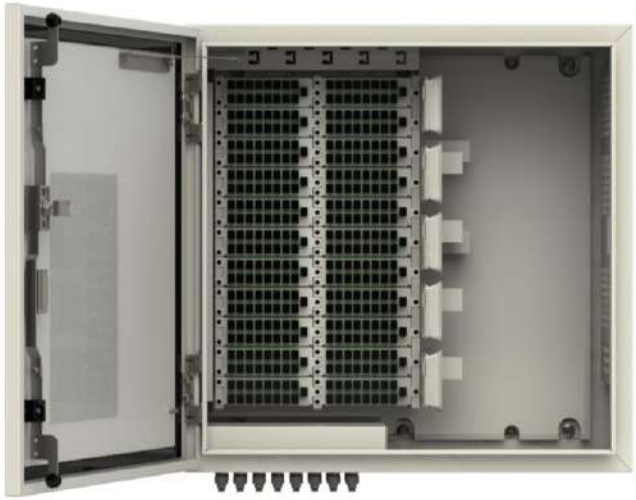
BACK

AERIAL DISTRIBUTION CABINET

600X600X25MM

STANDARD CABLE 144FO

MPO CABLE 288FO



BACK

OUTDOOR BOXES
IP67 MPO

12FO IP67 MPO/SC

8FO IP67 MPO/SC

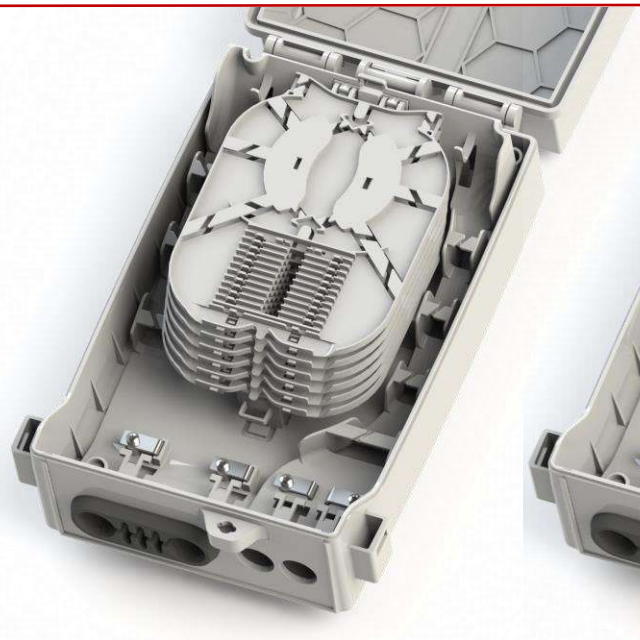
BACK

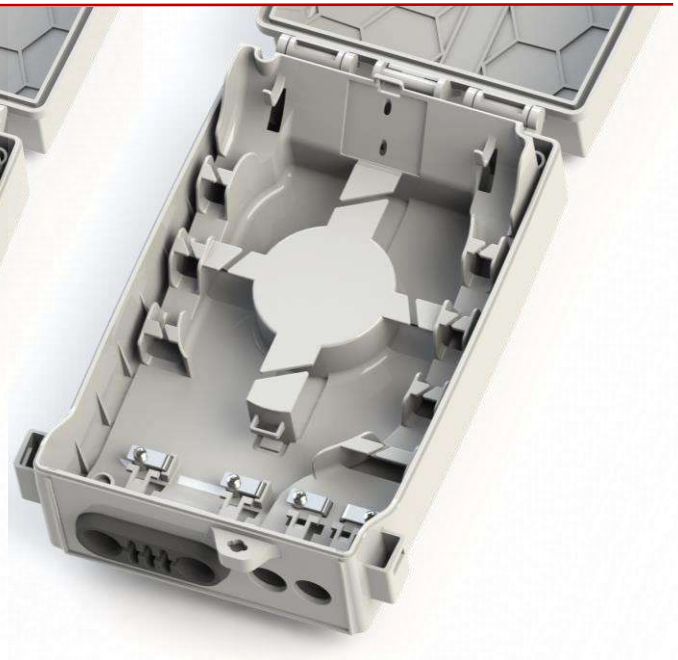
OUTDOOR BOXES
CTO

16FO IP67 standard cable/SC

BACK

OUTDOOR BOXES
TB





This box can accommodate up to 72FO. It's for splicing only.
For this solution is developed a special splice tray,
that can accommodate 12 smouvs and 1 splitter each.

BACK

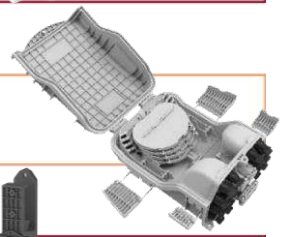
OUTDOOR BOX

- ROE - Building distribution box

- PTE – Building termination point

- RDB – Radial distribution box

- CTO – IP67 Customer distribution box



- MPO CTO – IP67 MPO Customer distribution box

- TB - Transition box

BACK

BACK