



Data Center

Solutions for the multi-service system



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2022

GEWISS

Development as a constant feature of management is the philosophy that has consistently guided the decisions made by GEWISS, from its establishment until today. Since the very first day it was founded, the company has been creating high-quality solutions with a reputation for excellence. Over the years, this vocation has taken shape, becoming part of a business model based above all on continuous investment in research and development, staff training for all, and optimisation of production facilities.

This approach has enabled GEWISS to establish itself as a point of reference for the market in the creation of solutions and services for home & building automation, energy protection and distribution, electric mobility and smart lighting.

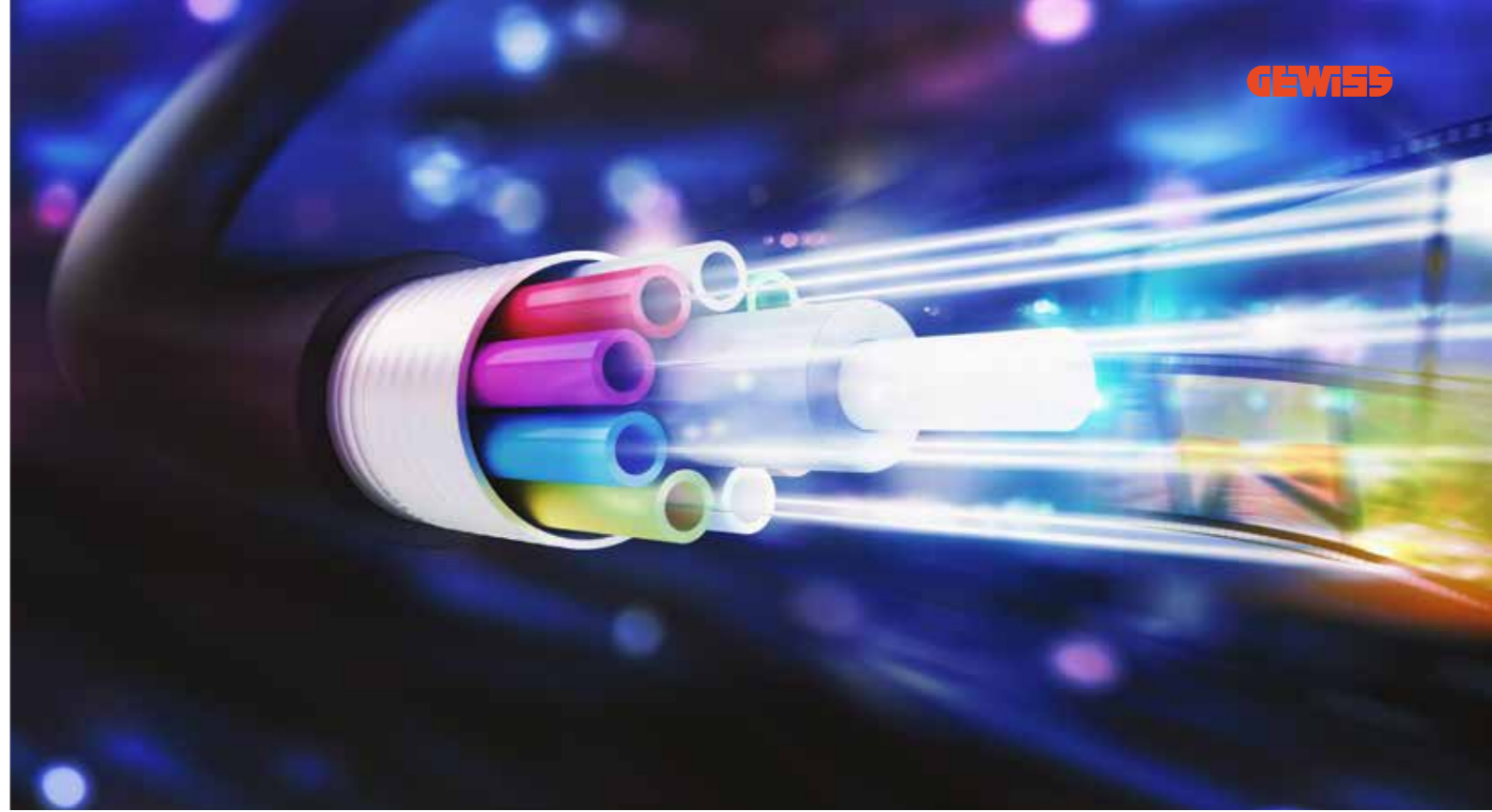


THE HEART OF THE ULTRA-FAST CONNECTION

Since the beginning of recorded history, humans have always felt the need to communicate, pass down and share information in the quickest and most effective way possible. This need, this instinct to continuously improve, has led to the development of language and tools that are increasingly complex, moving from written letters, telephone lines and the Internet to the most modern technology: optical fiber.

Fully in line with this evolution, GEWISS has decided to renew its offer for the connection and distribution of both copper wire and fiber optic networks with the Data Center. The range includes optical fiber solutions compatible with all the regulations outlined in the new CEI 306-2 Guide and Law 164/14, surface-mounting distribution boards, free-standing cabinets and copper wiring products.

This complete offer is able to meet any need and can be integrated into any application context. It is the beating heart of the newest form of connecting.



FIBER TO THE HOME: RULES AND BENEFITS

THE REGULATORY FRAMEWORK: LAW 164/14, EUROPEAN ELECTRONIC COMMUNICATIONS CODE AND CEI GUIDES

With **Law no. 164 of 11 November 2014**, the Italian government modified **Presidential Decree no.380 of 6 June 2001**, which regulates the construction of buildings from an urban-building point of view, adding **art. 135-bis**.

This article defines new standards for the digital infrastructure of buildings, which provide that:

1. All newly constructed buildings for which construction authorisation requests were presented after 1 July 2015 **must be fitted out with a passive physical multi-service infrastructure inside the building itself** and comprise adequate installation spaces and high-speed communication systems in **optical fiber** up to the network terminal points. [...]

2. All newly constructed buildings for which construction authorisation requests were presented after 1 July 2015 **must be fitted out with an access point. The same obligation applies**, as of 1 July 2015, **in the case of major renovation works** requiring the issue of a building permit in accordance

with article 10. **"Access point"** means the physical point inside or outside the building, accessible to the institutions authorised to provide public communication networks **and allowing a connection with the indoor infrastructure for access services in ultra broadband optical fiber**.

With the **Legislative Decree no.207 of 8 November 2021** - implementation of EU Directive 2018/1972, which establishes the **European Electronic Communications Code** - some **changes** were made to the **art. 135-bis**, particularly with the addition of par. 2-bis and the modification of par. 3:

2-bis. For new buildings as well in case of new works that require the release of the building permit pursuant to paragraphs 1 and 2, for which **construction authorisation requests** were presented **after 1 January 2022**, the fulfillment of the prescribed obligations for the digital equipment of buildings is certified **by the required label of "building fitted out for broadband"**, issued by a qualified technician [...]

3. Buildings fitted out to comply with this article, for which construction authorisation requests were presented **before 1 January 2022**, can take advantage - for the purpose of the transfer, rental or sale of the property - of the **voluntary, non-binding label** of "building fitted out for broadband", issued by a qualified technician, as required by paragraph 2-bis.

The recommendations and references to help in the interpretation of law 164/14 and subsequent amendments can be found in the **CEI 306-2** - whose aim is to "permit those who design, build and wire residential buildings to apply, in the most correct and rational way, a multitude of standards relating to the wiring of communication systems in residential buildings" - **CEI 306-22** and **64-100/1, 2 and 3** Guides, all expressly referred to by the Decree n.207/2021.

THE BENEFITS OF FIBER IN THE HOME

The Fiber To The Home (FTTH) multi-service infrastructure for the residential environment connects each single housing unit directly to the optical fiber and is the best solution for connecting and distributing various types of signals and services. The main benefits of a FTTH system are:

- **Unified installation.** A single ultra broadband infrastructure receives and distributes all the services needed for the connectivity of the building: signals (Internet, telephony, digital terrestrial and satellite TV), video entryphone, video surveillance, smart metering.
- **High performance.** It offers greater reliability, faster transmission speeds and enhanced electromagnetic interference immunity compared to classic copper solutions.
- **Regulatory compliance and increased market value.** With the installation of a multi-service infrastructure for optical fiber, the entire property is labelled "building fitted out for broadband", guaranteeing an immediate increase in the economic value of every single housing unit.

THE BUILDING INFRASTRUCTURE

The multi-service building infrastructure is made up of functional units that collect the signals and services arriving from outside and distribute them - via optic fiber backbones - to all the housing units.

BUILDING FIBER TERMINATION BOX (STOM)

Head terminal that collects the optic service signals arriving from the top part of the building (TV, SAT, wireless operators) and channels them towards the building optical services cabinet (CSOE).



MULTI-FIBER PATCH CABLES FOR UPRIGHTS

Single-mode optical fibers in 8-element bundles, equipped with the innovative **Fiber Fast Plus system** for the fast wiring of connectors. Used to create the building backbones.



MULTI-DWELLING UNIT (ROE)

An optic box that collects the fibers from the telecommunication service operators and sends them to the distribution CSOE. Installed directly by the TLC operator in the utility room of the building.

BUILDING OPTICAL SERVICES CABINET (CSOE)

Home Networking of the optic infrastructure of the building. A box which, by using the accessories available, can be fitted out to work with two different configurations:

Services CSOE

Collects the fiber cables arriving from the STOM and the other building services (TV, SAT, video cameras, video entryphones) and sub-divides the optic signals to the Distribution CSOE.

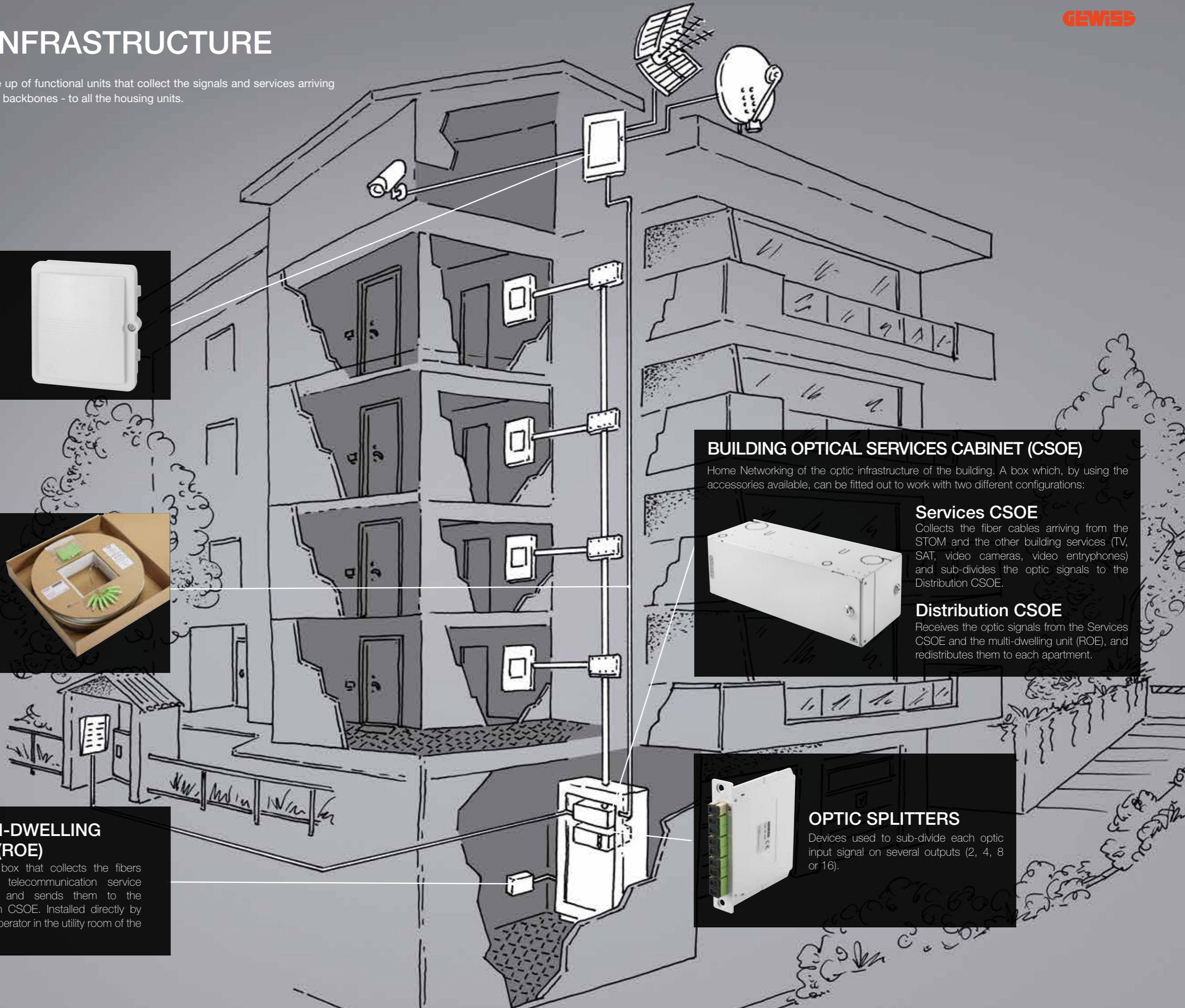
Distribution CSOE

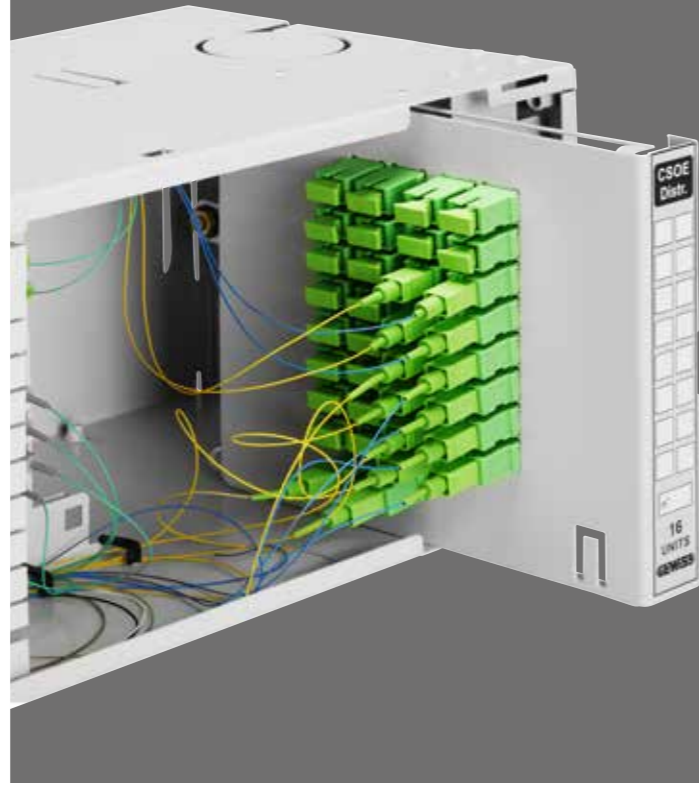
Receives the optic signals from the Services CSOE and the multi-dwelling unit (ROE), and redistributes them to each apartment.



OPTIC SPLITTERS

Devices used to sub-divide each optic input signal on several outputs (2, 4, 8 or 16).





THE SOLUTIONS FOR THE BUILDING

BUILDING FIBER TERMINATION BOX (STOM)

The head terminal can house up to 12 adapters (corresponding to 12 SC/APC optical fibers). It has 2 inputs for cables and 12 inputs for single optical fiber patch cables.

The container is made of plastic with an IP65 degree of protection, a door that can be opened 180° and a safety lock.

- **High management capacity.** Pre-arranged to manage up to 12 optical fibers, the head terminal fully meets the minimum requisites laid out in the CEI 306-2 Guide (8 fibers).
- **Ample internal space.** The STOM has a stock management system designed to house any possible optical fiber excess (that can be used for maintenance following installation).
- **Highly robust.** Thanks to the IP65 degree of protection and the wide operating temperature range (-40 to +80°C), the terminal can be assembled both indoors and outdoors.

BUILDING OPTICAL SERVICES CABINET (CSOE)

The Home Networking has one box or more, fitted out to work as a Services CSOE or Distribution CSOE (for managing **up to 16 apartments**). The boxes are made of grey-painted metal (RAL 7035), and can be positioned in vertical intercommunicating combinations thanks to dividers with knockouts for the fibers and the connection with the ROEs of the TLC operators.

- **Numerous configuration possibilities.** Thanks to the wide variety of components and accessories available, the CSOE can easily be equipped to create either the Services or Distribution version.
- **Easy, tidy wiring.** The boxes have a handy extractable slide that can house up to 32+2 optic adapters (FTTH + 5G service) and 5 slots for optic splitters, patch-panels and fiber supports.
- **Installation flexibility.** The CSOE modules are pre-arranged for surface-mounting with the aid of wall plugs, or inserting in boards and rack cabinets (19") with the relative support brackets supplied as accessories.

OPTIC SPLITTERS

The optic splitters are housed in the Services CSOE box, to redistribute the signals from the various services (TV, SAT, video cameras) to other optic boxes, or in the Distribution CSOE module, to further sub-divide the optic signals to the single housing units.

- **Complete equipment.** The splitters are already equipped with input/output adapters (SC/APC type) that ensure the simplified wiring of all the single-mode fiber cables.
- **Guaranteed connection performance.** The splitters have a low connection loss and offer the possibility to redistribute the signal from 2 to 16 outputs.
- **Simplified signal distribution.** The use of optic splitters facilitates the creation of the building backbones for the balanced distribution of the head signals to all users.

MULTI-FIBER PATCH CABLES FOR UPRIGHTS

The patch cables consist of 8-fiber single-mode cables (G.657.A2 type) equipped with the innovative Fiber Fast Plus system and used to create the building backbones. At one end, the patch cables terminate with SC/APC connectors, while at the other end they have a pulling sheath in kevlar to protect the SC/APC terminations, which have to be completed manually assembling the SC/APC connectors (supplied) after the laying phase is finish.

- **Quick wiring.** With **Fiber Fast Plus**, the laid fibers can be quickly terminated in just a few steps, without the need for tools.
- **More resistant structure.** The patch cables have a pulling system and are reinforced with a protective kevlar sheath that can withstand the mechanical strain during installation.
- **Pre-arranged for additional services.** The use of 8-fiber cables means it's possible to create backbones already pre-arranged to house additional future services, in accordance with the indications of the CEI 306-2 Guide.

THE APARTMENT INFRASTRUCTURE

The signals arriving from the building optical services cabinets reach the housing units in a precise access point, called QDSA ("multimedia enclosure"). From this board, the signals are distributed to each single device using the various technologies available: optical fiber, copper wires, or wireless.



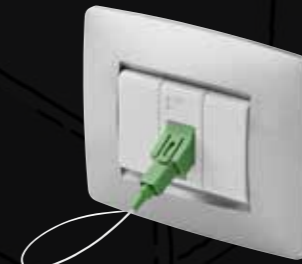
MULTIMEDIA ENCLOSURE (QDSA)

A flush-mounting board that collects and sorts the services and optic signals to be sent to the apartment, housing the passive components (STOA, mixers, filters) and the active devices (modem, switches, signal amplifiers) of the domestic system.



APARTMENT TERMINATION BOX (STOA)

Terminal that collects the optical fiber signals arriving from the CSOE, and channels them into each single home. The STOA is usually housed in the QDSA.



OPTICAL FIBER SOCKET-OUTLETS FOR DOMESTIC RANGES

Flush-mounting socket-outlets for domestic ranges, made with SC/APC adapters, allowing the domestic circuits to be directly connected to the optical fiber.



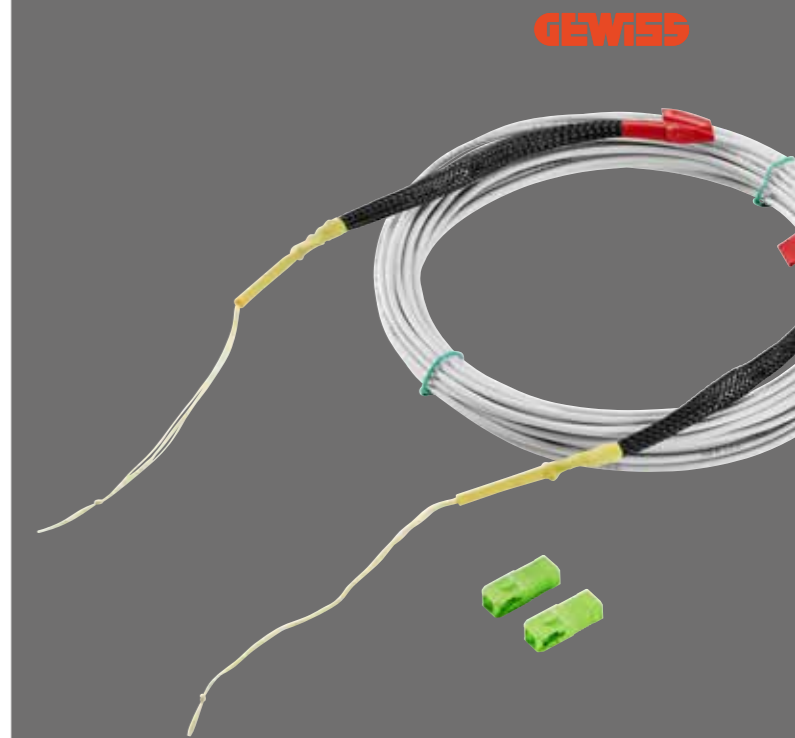
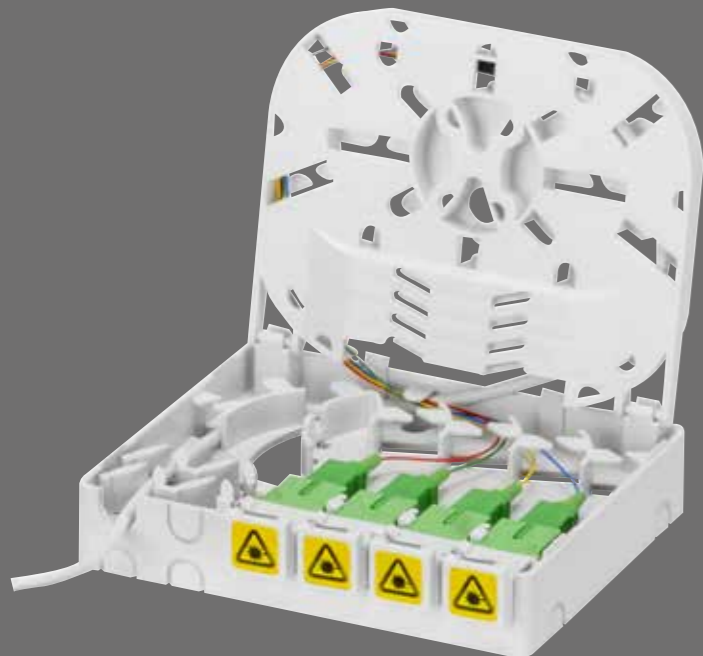
OPTICAL SPLICE HOLDER

Frame used to house the optical fiber splices (between the optic cable and the pigtail), or the excess winding of the fiber inside the flush-mounting boxes.



SINGLE-FIBER PATCH CABLES

Optic patch cables with a single-mode fiber, used to distribute optic signals inside the apartment.



THE SOLUTIONS FOR THE APARTMENT

COMPACT STOA

Plastic box (with 4 SC/APC adapters, knockout inlets that can be used for cables, an openable box and internal guides) for housing the excess cable.

There are also pre-wired versions, supplied with 4-fiber single-mode patch cables (G.657.A2 type) of predefined lengths (15m, 30m, 50m, 65m, 80m or 100m).

- **Reduced laying times.** The pre-wired versions of the STOA are supplied with optic patch cables of various lengths, equipped with the Fiber Fast Plus system and contained in a handy pack to facilitate unwinding for the laying phase and to minimise installation times.
- **Flexible application.** The STOAs can easily be housed in the compact version of the QDSAs (36 DIN modules), the complete version (54 DIN modules) or the special version (for Domo Center). All the boards, in turn, can be installed in masonry walls, plasterboard walls or other lightweight materials.

METAL STOA

The Apartment Termination Boxes are available in a metal version too, with 4 SC/APC adapters and the possibility to add others up to a maximum number of 8. The metal STOAs are pre-arranged to be fixed on the bottom of Gewiss PT DIN flush-mounting boxes, which are the ideal solution for creating a distributed QDSA.

- **Pre-arranged for additional services.** The possibility to house up to 8 fibers allows the STOA to host additional services without the need for onerous extensions following the initial installation. In this way, the minimum requisite indicated in the CEI 306-2 Guide (4 fibers) is also met.
- **Versatile use.** The metal STOA can also be used as a Building Fiber Termination Box (STOM), housed in any watertight container.

OPTICAL FIBER SOCKET-OUTLETS FOR DOMESTIC RANGES

The optical fiber socket-outlets consist of SC/APC adapters tilted by 40° to reduce their overall dimensions. They're made with a Keystone Jack type coupling so they can be used with all the Gewiss domestic ranges. A splice holder can be fitted on the back of the socket-outlets, for holding up to 3 splices and protecting them against mechanical stress.

- **Regulated access.** The adapters are equipped with a closure system and safety lock to prevent any risk of accidental access to the optic source.
- **Installation flexibility.** The splice holder coil facilitates all the installation and maintenance phases as it contains the fiber winding excess (as envisaged by the CEI 306-2 Guide) and guarantees its correct curvature radius.

SINGLE-FIBER PATCH CABLES

The indoor single-fiber patch cables consist of one single-mode fiber (G.657.A2 type), used to connect the terminals of the STOA or of the optic socket-outlets to the optical fiber devices in the home (fiber modem, TV-SAT optic receivers). The cables are available in versions complete with SC/APC connectors on both sides, or with the **Fiber Fast Plus** system.

- **Easy installation.** Thanks to the use of the Fiber Fast Plus system, the overall dimensions of the optic cable are greatly reduced, making it easier to insert and lay in the conduits.
- **More resistant structure.** The cables have a pulling system and are reinforced with a protective kevlar sheath that can withstand the mechanical strain during installation.



The Fiber Fast Plus system

Coupling an optic connector with a fiber cable is an onerous operation in both technical and economic terms. The methods currently used, like the fusion joint or the cold joint, call for costly tools, precision instruments, lengthy work times, and considerable waste percentages.

To reduce installation times and mechanical risks associated with the handling of the fiber, Gewiss offers the **Fiber Fast Plus** solution - system for terminating with extremely easy and safe (in terms of quality) the fibers. The ends of the patch cables, in fact, consist of a pre-lapped ferule already pre-arranged with SC/APC connectors, which do not need to be applied at a later stage.

A real help for cabling systems in optic fiber, both in terms of speed execution and handling ease of the www.cables.com.



QDSA COMPACT VERSION

The QDSA compact version is a flush-mounting enclosure from the CDK range, with 36 DIN modules. It's specifically designed for the input and distribution of optic signals in the home.

- **Reduced overall dimensions.** The compact version complies with the minimum dimensional requisites of the CEI 306-2 Guide. Thanks to this conformity, the board is the ideal solution for managing essential connection services even in limited spaces.
- **A variety of installation solutions.** All the QDSAs are made with a Green Wall back box - the Gewiss system enabling the enclosures to be inserted in both masonry walls and lightweight or plasterboard walls.
- **Focus on design.** The Gewiss QDSAs are designed with the same style as the enclosures from the CDK range; for this reason, these optic signal boards blend perfectly with the rest of the protection system.

QDSA FULL VERSION

The QDSA full version is an enclosure from the CDK range with 54 DIN modules, suitable for residential contexts where various connection services (TV, SAT, telephone, Internet, video entryphone, video surveillance) need to be managed.

- **Adaptable supports.** The support brackets can be freely positioned on the back-mounting plate, allowing a wide variety of devices to be inserted in the enclosure and ensuring notable autonomy in the wiring phase.
- **Simplified distribution.** In all the Gewiss QDSAs, the lower plate has an integrated panel that's tilted to facilitate the insertion of the connectors, and can house up to 18 socket-outlet points with Keystone Jack coupling.
- **Safety guaranteed.** The QDSA full version is equipped with 4 multi-standard socket-outlets (Italian/German) 2P+E 16A for safely powering all the active devices of the multi-service system.

DISTRIBUTED QDSA

If the apartment does not have enough space for the installation of a QDSA compact version, or when - for design reasons - it isn't necessary to install a single enclosure, the optic connection and distribution devices can all be positioned in specific 48 PT DIN junction boxes.

- **Reduced costs.** Installing the optic connection devices, like the specific STOA, in boxes of the 48 PT DIN range means a drastic reduction in the cost of the system and the space required.
- **Conformity with standards.** The installation of a QDSA in distributed mode fully complies with the indications of the CEI 306-2 guide, which specifies that the overall dimensions of an enclosure "may be split into several spaces (interconnected by means of conduits to ensure the same degree of practicality)".
- **Varied range.** The 48 PT and 48 PT DIN ranges offer 11 box versions for masonry walls and 7 for plasterboard walls. This selection makes the distributed QDSA the best solution for all installation conditions and requirements.

VERSION FOR DOMO CENTER

The full version of QDSA is also available as an accessory for Domo Center - the system column that combines all the devices for energy distribution, domotics, multimedia and safety.

- **Easy extension.** The QDSA for Domo Center has the same technical characteristics as the QDSA full version but it's inserted in a system column, so the system can be expanded without any need for masonry work.
- **One size for every format.** Available in a single large size, the QDSA for Domo Center can be installed in both the back-mounting boxes envisaged for the system column (2400mm and 2700mm).
- **Unaltered design.** Integrating the QDSA in Domo Center, no other enclosures or structures are needed for the multi-service system. This means you can rationalise and centralise all the electrical system components without having to alter the style of the home.

CONDUIT SIZING

CEI 306-2 Backbone sizing (vertical distribution)

The following table shows some examples of conduit and box sizing in relation to the size of the building. These dimensions are merely indicative, and should not be taken as a decisive factor when choosing the products available on the market.

No. of floors	No. of housing units per floor	Total no. of conduits (1)	No. of TV upright conduits	No. of data/telephony upright conduits	Conduit diameter (2)	No. of boxes per floor	Minimum recommended internal dimensions for the boxes on each floor (3)
2	2	5	3	2	40mm	2	400 x 215 x 65mm
2	4	5	3	2	40mm	2	400 x 215 x 65mm
4	2	5	3	2	40mm	2	400 x 215 x 65mm
4	4	6	4	2	40mm	2	400 x 215 x 65mm
6	2	6	4	2	40mm	2	400 x 215 x 65mm
6	4	7	4	3	40mm	2	400 x 215 x 65mm
8	2	6	4	2	40mm	2	400 x 215 x 65mm
8	4	8	5	3	40mm	2	400 x 215 x 65mm

(1) the number of conduits indicated takes into account the needs of both signals via radio and signals from underground (copper and optical fiber)
 (2) the diameter indicated refers to the nominal measurement of the corrugated conduit (mm); the designer can opt for an alternative solution as long as it guarantees the equivalent space or more
 (3) to rationalise the provisioning of materials and optimise the efficacy on optical fiber, the size of the boxes has been standardised (adopting the largest format)

CEI 306-2 Conduit sizing on each floor (horizontal distribution)

Type	Total no. of conduits	Minimum conduit diameter
Input wires to the QDSA from the backbone junction box	1	40mm
Output wire from the QDSA to the terminal socket-outlets of the apartments	1 per point of use	25mm



JUNCTION BOXES

To allow the distribution of the optical fiber to the various floors of the building and to all the housing units, PT DIN junction boxes can be used, with the minimum dimensions envisaged by the CEI 306-2 Guide (400mm x 215mm x 65mm).



CONDUITS

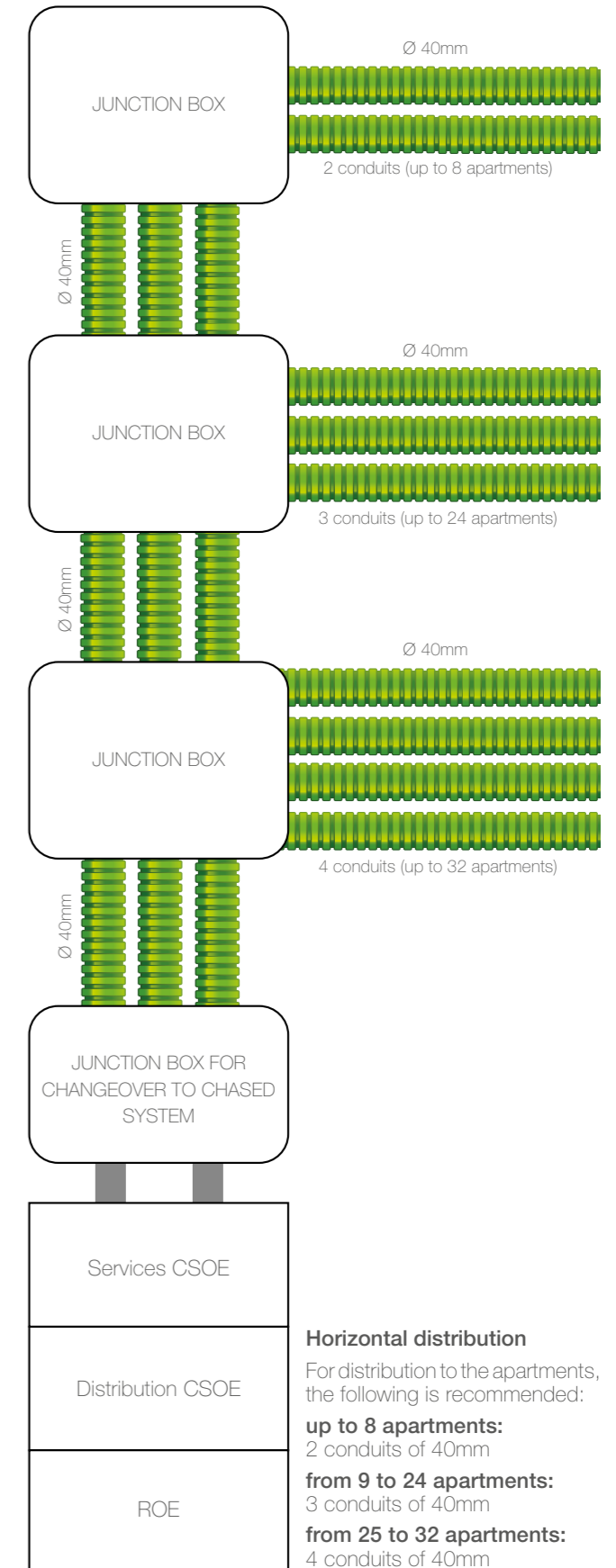
To create the system backbones, protective conduits are used for all application contexts: traditional masonry, self-levelling liquid cement, and plasterboard. The conduits come in different colours to make it easier to identify their function.



JUNCTION BOXES WITH DEEP COVER

When changing from CSOE to a chased system, Gewiss recommends the use of deep covers combined with PT DIN junction boxes.

Conduits and junction boxes



APPLICATION EXAMPLE

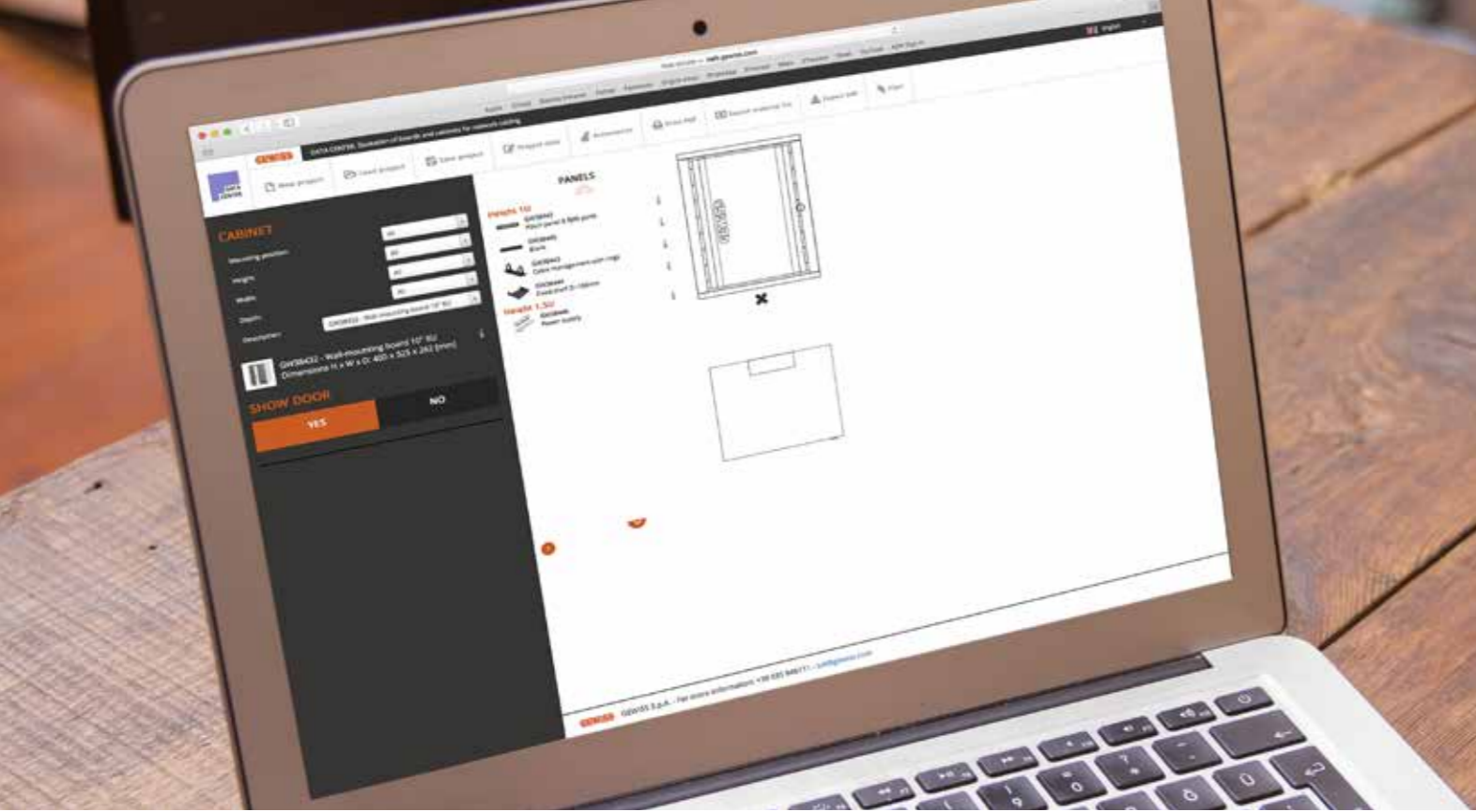
Building with 24 apartments

AIM

To create the FTTH multi-service infrastructure in a building with vertical distribution consisting of 24 apartments, pre-arranging each housing unit for optical fiber connection.

BUILDING STRUCTURE	DISTANCES
No. of stairwells: 1	between the roof and the utility room: 22m
No. of utility rooms: 1	between the 1st floor apartments and the utility room: 9m
No. of floors: 6	between the 2nd floor apartments and the utility room: 12m
No. of apartments per floor: 4	between the 3rd floor apartments and the utility room: 15m
Total no. of apartments: 24	between the 4th floor apartments and the utility room: 18m
	between the 5th floor apartments and the utility room: 21m
	between the 6th floor apartments and the utility room: 24m

TYPE OF SERVICES AND ACCESS POINT
Internet (FTTH1 and FTTH2) at the bottom of the building
Pre-arrangement for 5G services
TV and SAT from the roof



DATA CENTER

Software for the cost estimate of boards and cabinets for network cabling

DATA CENTER is an online software (available from the website www.gewiss.com) that can be used on any device connected to the Internet (smartphone, tablet or PC) to configure boards or cabinets for the network cabling of the DATA CENTER range.

The program consists of a search area where you can set various filters (height, width, depth) and a configuration area where the various panels can be dragged into the required board. After completing the configuration, you can export the documentation (which includes the list of material, board front and DXF technical drawing in a scale of 1:1).



Data Center software

Quotation for rack cabinets



FTTH

Software for the cost estimate of FTTH fiber optic signals distribution systems

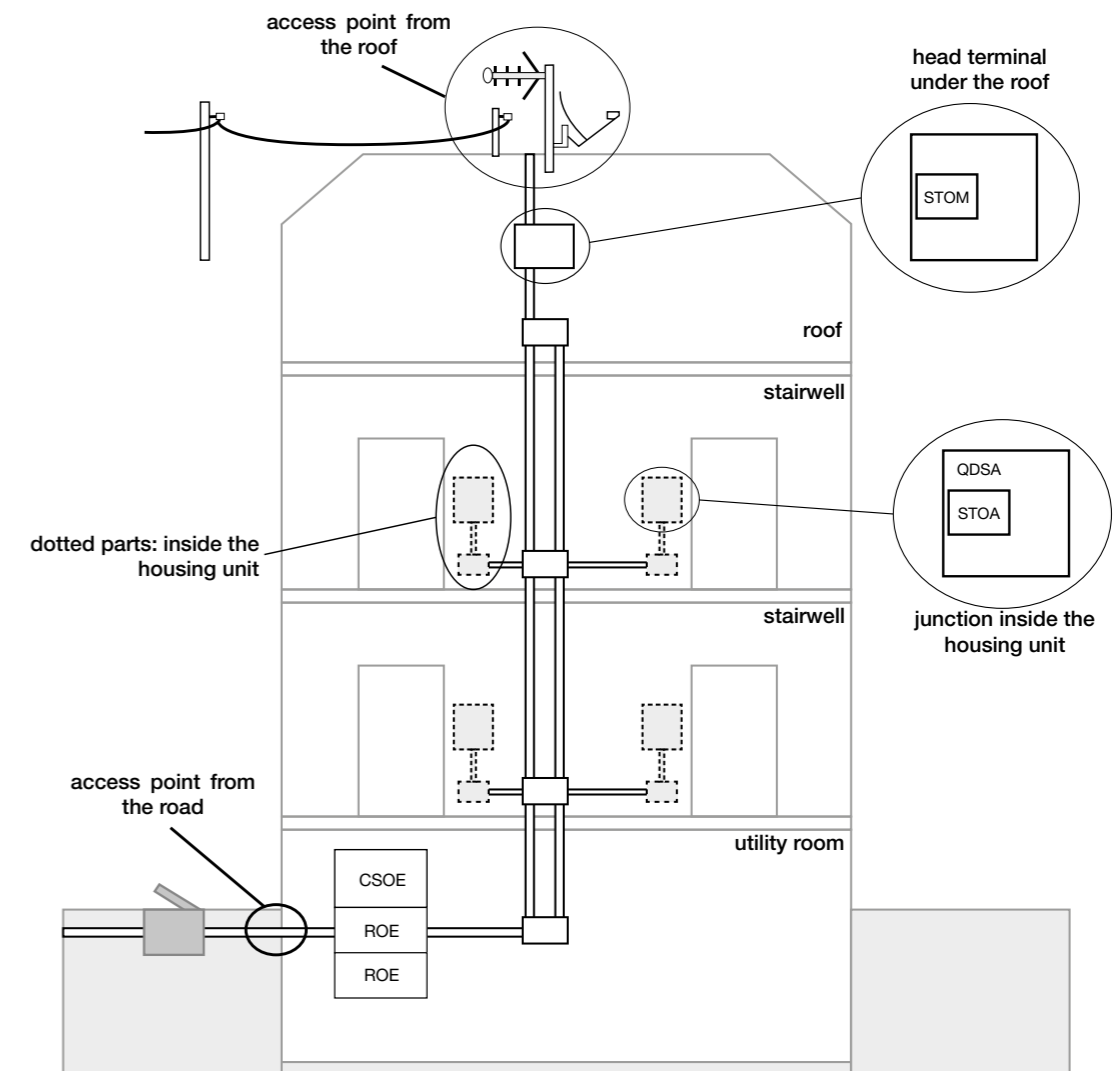
FTTH is an online software (available from the website www.gewiss.com) that can be installed on a PC and can be used on any device connected to the Internet (smartphone, tablet or PC) with which it is possible to configure FTTH fiber optic systems.

The program is managed by a simple auto-composition system that allows you to define various information (number of homes, distances and types of signals available), thus obtaining a topographical scheme of the system and the related devices necessary for its implementation. At the end of the configuration it is possible to export the documentation including material list and topographical scheme.

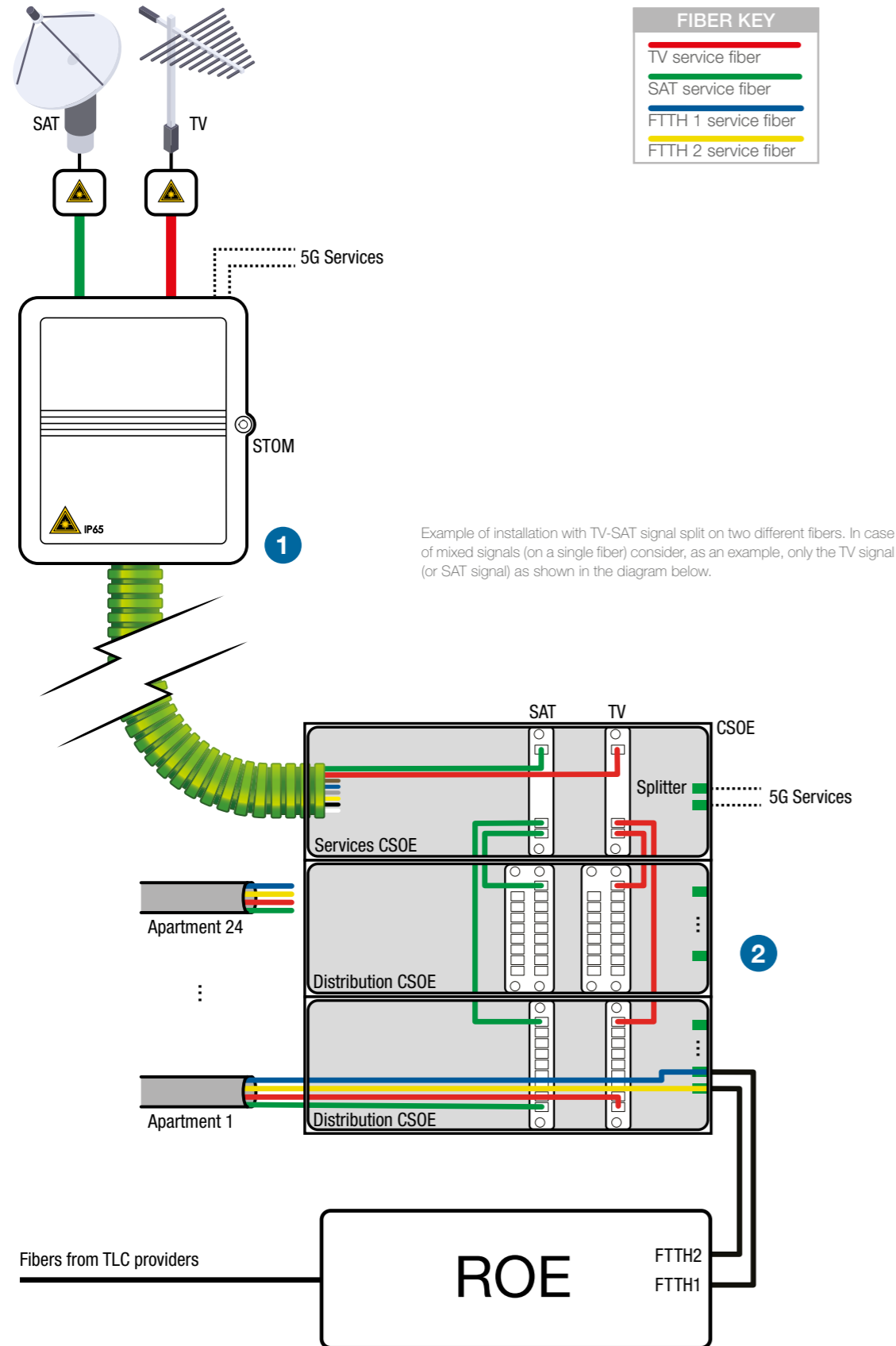


FTTH software

Quotation for fiber optic signals distribution systems



Example of building infrastructure

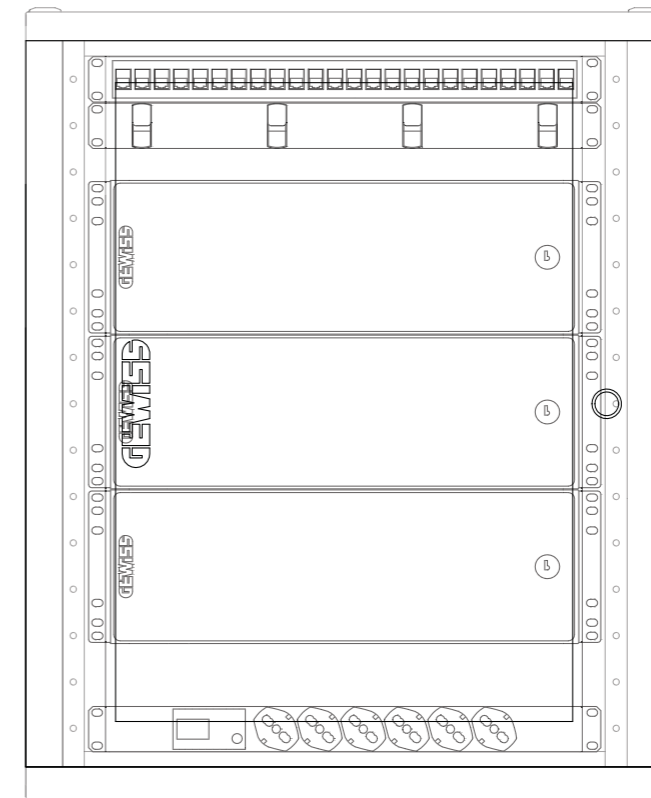


LIST OF MATERIAL FOR UPRIGHT / UTILITY ROOM

Pos.	Code	Description	Qty.	Notes
1	GW38331	SC/APC STOM head terminal max 12 o.f.	1	
	GW38326	SC/APC adapter	10	2 adapters reserved for 5G services
2	GW38346	SC/APC 50m 8-fiber patch cable for upright	1	Building upright
	GW38301	CSOE building optical services cabinet	3	1 used as a Services CSOE, 2 used as Distribution CSOE
	GW38306	Optic splitter 1x2 with SC/APC adapters	2	To sub-divide the TV and SAT signals
	GW38308	Optic splitter 1x8 with SC/APC adapters	2	To be used in the Distribution CSOE
	GW38309	Optic splitter 1x16 with SC/APC adapters	2	To be used in the Distribution CSOE
	GW38321	Caddy for fiber optic patch cables	12	
	GW38326	SC/APC adapter	50	To be used in the Distribution CSOE (48 adapters) and in the Services CSOE (2 adapters reserved for 5G services)
	GW38310	SC/APC 0.5m 1-fiber patch cable	4	To connect together the optic splitters in the CSOEs
	DX15240	FK 15/40 green medium pliable conduit	as necessary	To create the building upright
	*GW38322	Pair of brackets for rack mounting CSOE	3	
	*GW38419	19" wall-mount cabinet 15U p=600mm.	1	
	*GW38557	Kit of M6 screws and nuts for panel fixing	1	
	*GW38606	19" power strip, 6 socket-outlets 16A + one-way switch	1	
	*GW38603	19" empty patch panel, 24 RJ45 ports UTP/FTP	1	Unwired panel for future development
*GW38611	Cable management panel with plastic rings, 1U	1		

* Optional: for housing the CSOEs in a 19" rack board

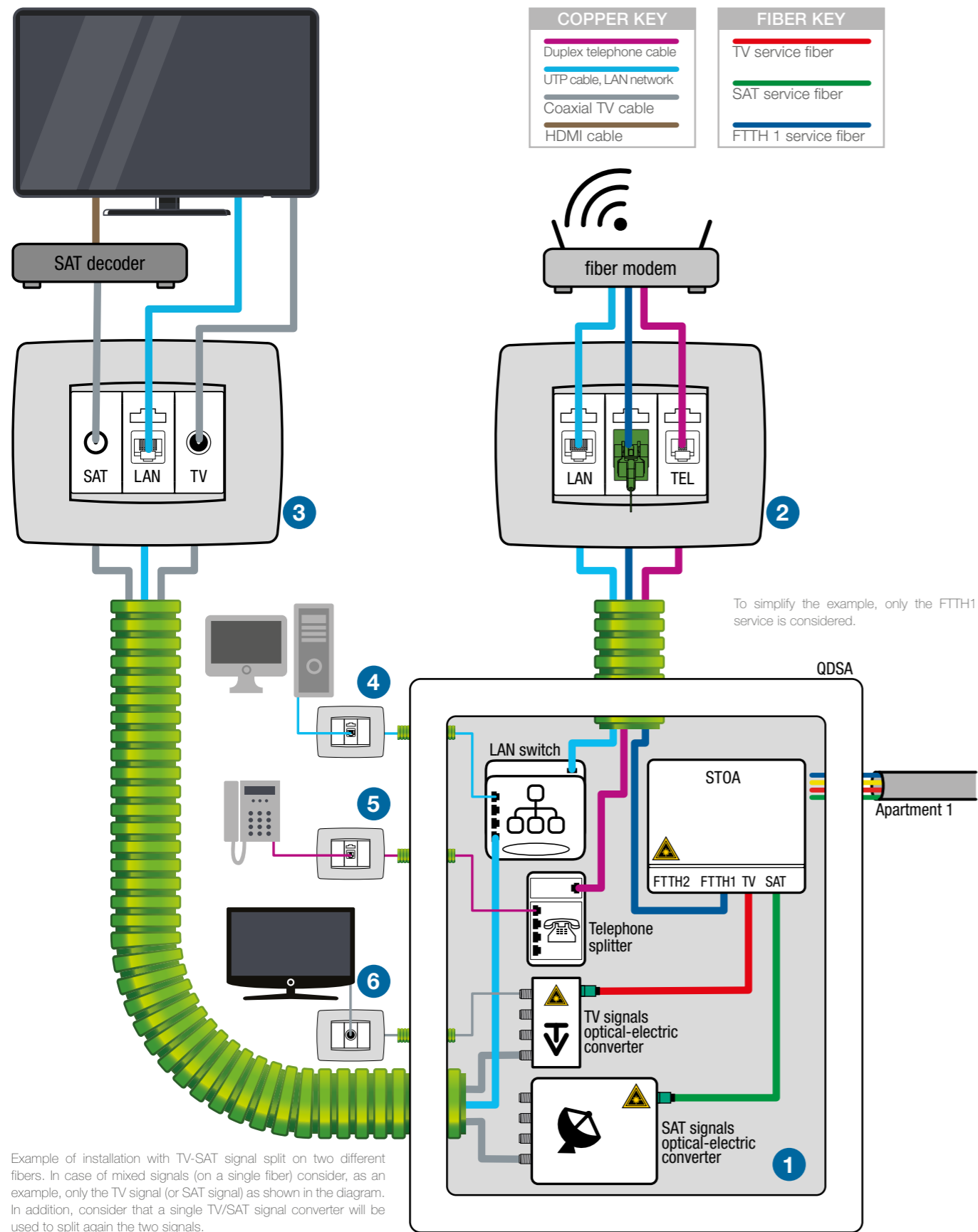
Example of a CSOE housed in a 19" rack board using Gewiss DATA CENTER software.



JUNCTION BOXES

Code	Description	Qty	Notes
GW48011	Flush-mounting junction box, DIN rail, 516x294x90mm	12	For the junctions to the floors
GW48008	Flush-mounting junction box, DIN rail, 392x152x75mm	2	For the changeover to the chased system in the utility room
GW48088	Deep box cover 392x152mm	2	

Example of apartment infrastructure



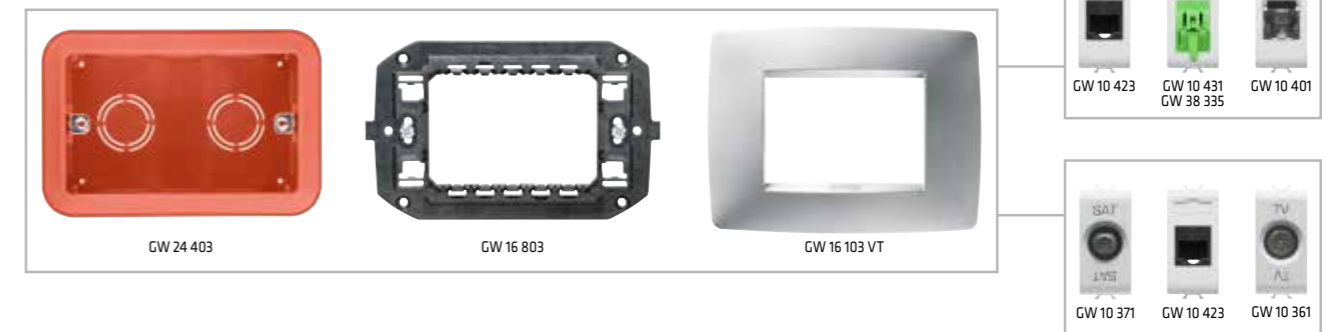
Example of installation with TV-SAT signal split on two different fibers. In case of mixed signals (on a single fiber) consider, as an example, only the TV signal (or SAT signal) as shown in the diagram. In addition, consider that a single TV/SAT signal converter will be used to split again the two signals.

LIST OF MATERIAL FOR APARTMENT


















Pos.	Code	Description	Qty	Notes
1	GW40390F	Full version 54M multimedia enclosure front	1	
	GW40689PM	54M green flush-mounting enclosure back box	1	
	*GW38372	STOA 4 o.f. SC/APC + 15m 4-fiber patch cable	1	
	GW38311	SC/APC 1m 1-fiber patch cable	2	Between STOA and TV/SAT converters
	GW38323	SC/APC 10m 1-fiber patch cable with pulling sheath	1	Between STOA and optic socket-outlet
	DX15225	FK 15/25 green medium pliable conduit	as necessary	Between QDSA and terminal socket-outlets
	DX15240	FK 15/40 green medium pliable conduit	as necessary	Between QDSA and landing junction box
2	GW24403	Bigbox 3-module box for masonry walls	1	
	GW16803	Italian std. 3-module support	1	
	GW10423	RJ45 1M connector cat.6 UTP, white	1	LAN socket-outlet
	GW10401	RJ11 1M telephone connector, white	1	TEL socket-outlet
	GW10431	RJ45 socket-outlet housing, white	1	
	GW38335	SC/APC keystone jack angled adapter	1	Optic socket-outlet
3	GW38334	Optical splice holder for 3-module box	1	
	GW16103VT	Chorus One plate, 3-module, titanium	1	
	GW38132	RJ45-RJ45 cat.6 UTP 2m patch cord	1	For connecting to the fiber modem
	GW38312	SC/APC 2m 1-fiber patch cable	1	For connecting to the fiber modem
	GW24403	Bigbox 3-module box for masonry walls	1	
	GW16803	Italian std. 3-module support	1	
4	GW10423	RJ45 1M connector cat.6 UTP, white	1	LAN socket-outlet
	GW10361	1M TV socket-outlet, direct male connector 9.5mm, white	1	TV socket-outlet
	GW10371	1M TV/SAT socket-outlet, direct F-female connector, white	1	SAT socket-outlet
	GW16103VT	Chorus One plate, 3-module, titanium	1	
	GW38132	RJ45-RJ45 cat.6 UTP 2m patch cord	1	For connecting to the smart TV
	GW24403	BigBox 3-gang box for masonry walls	1	
5	GW16803	Italian std. 3-gang support	1	
	GW10423	RJ45 1M connector cat.6 UTP, white	1	LAN socket-outlet
	GW10195	1M blanking module, white	2	
	GW16103VT	Chorus One plate, 3-module, titanium	1	
	GW24403	Bigbox 3-module box for masonry walls	1	
	GW16803	Italian std. 3-module support	1	
6	GW10401	RJ11 1M telephone connector, white	1	TEL socket-outlet
	GW10195	1M blanking module, white	2	
	GW16103VT	Chorus One plate, 3-module, titanium	1	
	GW24403	Bigbox 3-module box for masonry walls	1	
	GW16803	Italian std. 3-module support	1	
	GW10361	1M TV socket-outlet, direct male connector 9.5mm, white	1	TV socket-outlet
	GW10195	1M blanking module, white	2	
	GW16103VT	Chorus One plate, 3-module, titanium	1	

Alternatively:
 * Choose the code according to the distance of the apartment from the utility room (e.g: GW38372 if <15m, GW38373 if <30m, GW38374 if <50m, GW38375 if <65m, GW38376 if <80m, GW38377 if <100m)

EXAMPLE OF A COMPOSITION USING CHORUS DEVICES








Components for fiber optic wiring

Optical services cabinets	<p>GW 38 303 - Building optical services GW 38 302 - Cable management</p>  <p>Cabinets</p>	Accessories for optical services cabinets	<p>PLC splitter modules</p> 	<p>GW 38 306 - 1x2 GW 38 307 - 1x4 GW 38 308 - 1x8 GW 38 309 - 1x16</p>  <p>GW 38 320 Empty patch panel for 9 SC/APC adapters</p>  <p>GW 38 321 Caddy for fiber optic patch cables</p>  <p>GW 38 322 Brackets for 19" rack mount</p>
Building fiber termination box	 <p>GW 38 331 Termination box</p>	Fiber optic patch cords	<p>GW 38 310 - 0.5m GW 38 311 - 1m GW 38 312 - 2m GW 38 317 - 10m GW 38 318 - 20m GW 38 319 - 40m</p> <p>Single-fiber cable SC/APC-SC/APC</p>  <p>Fiber Fast Plus single-fiber cable SC/APC</p>  <p>GW 38 323 - 10m GW 38 324 - 20m GW 38 325 - 40m</p> <p>GW 38 347 - 50m GW 38 348 - 100m</p> <p>GW 38 346 - 50m Fiber Fast Plus 8-fiber cable SC/APC</p>  <p>8-fiber cable coil - 500m</p>	Optical cables
Apartment termination boxes	<p>GW 38 372 - 15m GW 38 373 - 30m GW 38 374 - 50m GW 38 375 - 65m GW 38 376 - 80m GW 38 377 - 100m</p>  <p>GW 38 338 Compact termination box</p> <p>Compact termination box with Fiber Fast Plus 4-fiber cable SC/APC</p>  <p>GW 38 339 Metal termination box</p>	Fiber optic adapters	<p>GW 38 326 SC/APC</p>  <p>GW 38 335 Angled SC/APC</p> 	Accessories
Multimedia enclosures	<p>GW 40 390 F Front cover GW 40 689 PM Back-mounting box</p>  <p>Full version 54M</p> <p>GW 40 390 C Front cover GW 40 688 PM Back-mounting box</p>  <p>Compact version 36M</p> <p>GW N1 031 F Full version GW N1 122 XB Finishing panel</p>  <p>Board for Domo Center</p>	Accessories	<p>GW 38 334 Splice holder cable spool</p> 	





Components and accessories

RJ45 connectors	<p>GW 38 031 Cat. 5e GW 38 032 Cat. 6 GW 38 033 Cat. 6a</p>  <p>RJ45 - UTP</p> <p>RJ45 - FTP</p> 	Couplers	<p>GW 38 034 Cat. 5e GW 38 035 Cat. 6 GW 38 036 Cat. 6a</p>  <p>GW 38 056 HDMI</p>  <p>GW 38 057 USB</p> 
Patch cords and cables	<p>GW 38 116 Cat. 5e - L=0.5m GW 38 117 Cat. 5e - L=1m GW 38 118 Cat. 5e - L=2m GW 38 119 Cat. 5e - L=5m GW 38 131 Cat. 6 - L=1m GW 38 132 Cat. 6 - L=2m GW 38 133 Cat. 6 - L=5m</p>  <p>Copper patch cords - UTP</p> <p>GW 38 121 Cat. 5e - L=0.5m GW 38 122 Cat. 5e - L=1m GW 38 123 Cat. 5e - L=2m GW 38 124 Cat. 5e - L=5m</p>  <p>Copper patch cords - FTP</p>		











10" wall mount rack cabinets

10" cabinets	 <p>GW 38 432 Cabinet D=265mm 8U</p>	Accessories	<p>GW 38 443 Empty patch panel for 8 RJ45 sockets - 1U</p>  <p>GW 38 444 Fixed shelf D=150mm 1U</p>  <p>GW 38 446 Power strip with 2 ita/ger std 16A sockets - 1.5U</p>  <p>GW 38 445 Blind panel 1U</p>  <p>GW 38 442 Cable management panel with 2 rings 1U</p> 
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19" Wall mount rack cabinets

19" cabinets	<p>600x400mm GW 38 406 - 6U GW 38 407 - 9U GW 38 408 - 12U GW 38 409 - 15U</p> <p>600x600mm GW 38 418 - 12U GW 38 419 - 15U</p> 	Spare parts	<p>Replacement doors</p>  <p>GW 38 590 - 6U GW 38 591 - 9U GW 38 592 - 12U GW 38 593 - 15U</p> <p>GW 38 471 Replacement lock</p> 	Accessories	<p>GW 38 485 Single fan</p> 
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19" Floor rack cabinets

19" cabinets	<p>600x600mm GW 38 451 - 24U GW 38 452 - 30U GW 38 453 - 42U</p> <p>800x800mm GW 38 461 - 24U GW 38 462 - 30U GW 38 463 - 42U</p> <p>800x1000mm GW 38 464 - 42U</p> 	Spare parts	<p>Replacement doors</p>  <p>GW 38 472 Replacement lock</p> 	Accessories	<p>GW 38 479 Air circulation unit complete with thermostat</p> 
Accessories	<p>Pair of uprights</p>  <p>GW 38 474 - 24U GW 38 475 - 30U GW 38 476 - 42U</p> <p>Plinths</p>  <p>GW 38 480 600x600mm GW 38 481 800x800mm GW 38 482 800x1000mm</p> <p>GW 38 477 Kit with 8 metal rings for cabinets 800x800mm and 800x1000mm</p>  <p>GW 38 483 Coupling set for cabinets</p>  <p>GW 38 484 Set of 4 swivelling wheels</p>  <p>GW 38 558 Earthing set</p> 				

Accessories for 19" rack cabinets

Accessories	<p>GW 38 603 UTP/FTP Empty patch panel for 24 RJ45 sockets - 1U</p>  <p>GW 38 601 1U GW 38 602 2U</p>  <p>Blind panels</p> <p>GW 38 612 SC/LC GW 38 613 ST</p>  <p>Empty fiber optic panels for 24 ports - 1U</p> <p>GW 38 610 With brushes - 1U GW 38 611 With 4 rings - 1U</p>  <p>Cable management panels</p> <p>GW 38 607 D=260mm GW 38 608 D=360mm</p>  <p>Fixed shelves - 2U</p> <p>GW 38 609 D=410mm</p>  <p>Sliding shelf - 2U</p> <p>GW 38 606 Power strip with 6 ita/ger std 16A sockets - 1U</p>  <p>GW 38 557 Cage nuts and screws</p> 
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COMPONENTS FOR FIBER OPTIC WIRING

OPTICAL SERVICES CABINETS



GW 38 303

BUILDING OPTICAL SERVICES CABINET

Code	Characteristics	Colour	No. modules	Dimensions LxHxD (mm)	Pack Carton
GW 38 303	Suitable for 34 SC/APC adapters	Grey (RAL 7035)	5	445x151x173	1

CHARACTERISTICS: made from sheet steel, powder coated and texture finish. The cabinet consists of two lockable storage compartments: the main compartment comes with a rack for fibers, for optical splitters (GW38306, GW38307, GW38308, GW38309) and for a patch panel (GW38320). In addition a removable rack for adapters suitable to host the fibers for unused services is located inside. The side compartment is reserved for telecommunication service providers and can accommodate up to 34 SC/APC adapters (not included). The cabinet is provided with knock outs (Ø22mm, Ø50mm, Ø60mm) and an adjustable slot for the passage of the optical fiber cables. The cabinet can manage up to 16 apartment units and can be used both as Services or Distribution CSOE.

ACCESSORIES SUPPLIED: two sets of 2 keys to access independently to each compartment, screws for mounting accessories, 2 nylon strips to fasten fibers.

NOTES: wall mounting with wall plugs. As an alternative, the cabinet can be mounted into 19" rack cabinets thanks to the GW38322 brackets (not included), with an occupation of 4 rack units. The cabinets can be stacked vertically thanks to foldable wings.



GW 38 302

OPTICAL FIBER CABLE MANAGEMENT CABINET

Code	Colour	Dimensions LxHxD (mm)	Pack Carton
GW 38 302	Grey (RAL 7035)	440x204x168	1

CHARACTERISTICS: made from sheet steel, powder coated and texture finish. The cabinet comes with a large interior space to accommodate the excess part of the optical fiber cables. It is provided with knock outs (Ø60mm) and an adjustable slot for the passage of the optical fiber cables.

NOTES: wall mounting with wall plugs. As an alternative, the cabinet can be mounted into 19" rack cabinets thanks to the GW38322 brackets (not included), with an occupation of 5 rack units. The cabinets can be stacked vertically thanks to foldable wings.

ACCESSORIES FOR OPTICAL SERVICES CABINETS



GW 38 308

PLC SPLITTER MODULES

Code	No. inputs	No. output	Attenuation (dB)	Colour	No. modules	Pack Carton
GW 38 306	1	2	4	Grey (RAL 7035)	1	1/12
GW 38 307	1	4	7,4	Grey (RAL 7035)	1	1/12
GW 38 308	1	8	14	Grey (RAL 7035)	1	1/12
GW 38 309	1	16	14	Grey (RAL 7035)	2	1/6

CHARACTERISTICS: fitted with SC/APC input/output adapters for single-mode fibers.

NOTES: screw fastening on the rack of the building optical services cabinet (GW38303).



GW 38 320

EMPTY PATCH PANEL

Code	Characteristics	Colour	No. modules	Pack Carton
GW 38 320	Suitable for 9 SC/APC adapters	Grey (RAL 7035)	1	6/84

CHARACTERISTICS: made of plastic material. The panel can house up to 9 SC/APC adapters (e.g.: GW38326) not included.

NOTES: screw fastening on the rack of the building optical services cabinet (GW38303).



GW 38 321

CADDY FOR FIBER OPTIC PATCH CABLES

Code	Characteristics	Colour	Pack Carton
GW 38 321	Suitable for 9 optical fibers	Grey (RAL 7035)	10/80

CHARACTERISTICS: made of plastic material.

NOTES: snap-in mounting in the building optical services cabinet (GW38303).



GW 38 322

PAIR OF BRACKETS FOR 19" RACK MOUNTING

Code	Colour	Dimensions LxHxD (mm)	Pack Carton
GW 38 322	Grey (RAL 7035)	68x147x22	1/10

CHARACTERISTICS: made from sheet steel, powder coated and texture finish.

ACCESSORIES SUPPLIED: screws for fixing the brackets to the GW38303 or GW38302 cabinets.

NOTES: the brackets allow GW38303 and GW38302 to be mounted in 19" rack cabinets.

BUILDING FIBER TERMINATION BOX



GW 38 331

BUILDING FIBER TERMINATION BOX

Code	Characteristics	Colour	IP degree	Dimensions LxHxD (mm)	Pack Carton
GW 38 331	Suitable for 12 SC/APC adapters	Grey (RAL 7035)	IP65	206x233x65	1

CHARACTERISTICS: made of plastic material with lockable 180 degrees opening lid. The box has 2 riser cable inlets, 12 outlets for optical fibers, flip splice tray, internal guides to accommodate the excess part of the optical fibers. Suitable to house up to 12 SC/APC adapters (e.g.: GW38326) not included.

ACCESSORIES SUPPLIED: set of 2 keys, 3 wall plugs for wall mounting, 4 plastic strips to fasten cables, 12 heat shrink fiber optic splice sleeves, 12 fiber optic cable glands.

APARTMENT TERMINATION BOXES



GW 38 338

COMPACT TERMINATION BOX

Code	Colour	Dimensions LxHxD (mm)	Pack Carton
GW 38 338	White	101x85x31	1/15

CHARACTERISTICS: made of plastic material with snap-in removable lid, flip splice tray and internal guides to accommodate the excess part of the optical fibers. The box includes 4 SC/APC adapters with dust covers and knockout holes, on all sides, for cable inlets.

ACCESSORIES SUPPLIED: 4 heat shrink fiber optic splice sleeves and 2 wall plugs for wall mounting.

NOTES: the box can be installed inside the multimedia distribution board.



GW 38 372

COMPACT TERMINATION BOXES WITH 4-FIBER OPTIC CABLE - FIBER FAST PLUS

Code	Colour	No. optical fibers	Cable length	Ø sheath	Ø pulling sheath	CPR class	Dimensions LxHxD (mm)	Pack Carton
GW 38 372	White	4	15 m	3 mm	9 mm	Eca	101x85x31	1/10
GW 38 373	White	4	30 m	3 mm	9 mm	Eca	101x85x31	1/10
GW 38 374	White	4	50 m	3 mm	9 mm	Eca	101x85x31	1/10
GW 38 375	White	4	65 m	3 mm	9 mm	Eca	101x85x31	1/10
GW 38 376	White	4	80 m	3 mm	9 mm	Eca	101x85x31	1/10
GW 38 377	White	4	100 m	3 mm	9 mm	Eca	101x85x31	1/10

CHARACTERISTICS: made of plastic material with snap-in removable lid, flip splice tray and internal guides to accommodate the excess part of the optical fibers. The boxes include 4 SC/APC adapters with dust covers and are supplied with single-mode, 4-fiber, G.657.A2 Bend Insensitive, LSZH sheath optical fiber cables. From one side the patch cables has a pulling sheath in kevlar to protect the SC/APC terminations, which have to be completed manually assembling the 4 SC/APC connectors (supplied) after the laying phase is finish.

ACCESSORIES SUPPLIED: the items are supplied in a cardboard box complete with a compact termination box and an optical fiber cable reel. The package includes 2 wall plugs for wall mounting.

NOTES: the box can be installed inside the multimedia distribution board.



GW 38 339

METAL TERMINATION BOX

Code	Colour	Dimensions LxHxD (mm)	Pack Carton
GW 38 339	White	168x115x58	1/5

CHARACTERISTICS: made from painted sheet steel. The box is suitable to house up to 8 SC/APC adapters (e.g.: GW38326).

ACCESSORIES SUPPLIED: 4 SC/APC adapters, screws for fixing.

NOTES: mounting on the bottom of flush-mounting junction boxes for concrete walls (e.g.: GW48006), lightweight and plasterboard walls (e.g.: GW48006PM) or in wall mount boxes (GW44207).

MULTIMEDIA ENCLOSURES



GW 40 390 C

MULTIMEDIA ENCLOSURE COMPACT VERSION 36 DIN MODULES - WHITE RAL 9016 - BLANK DOOR



Code	Description	Outer dim. LxHxD (mm)	Pack Carton
GW 40 390 C	Front cover, inner frame and accessories 36 DIN modules	465x505x85	1
GW 40 688 PM	Empty back box 36 DIN modules		1/5

APPLICATIONS: multimedia enclosures allow the distribution of the services through the apartment (e.g. internet, phone, satellite TV, etc.). The compact version is dedicated to small apartments with a small amount of services.

CHARACTERISTICS: the product is compliant to the CEI 306-2 Guide. The back box features plastic tab for an easier installation on metal frames and plasterboard panels. The product can be joint vertically with other enclosures of the the CDKi range (minimum size 36 DIN modules) through the GW40425 tool.

ACCESSORIES SUPPLIED: the GW40390C is composed of 1 pc front cover with blank door, 1 pc detachable frame with 2 pcs perforated mounting plates (1 pc with 18 Keystone Jack slot), 2 m velcro roll h=16 mm, 4 pcs brackets, 4 pcs self-adhesive cable clips with cable ties, 5 pcs. RJ45 Cat.6 Keystone Jack.

INSTALLATION: the product can be installed on both masonry and plasterboard walls.



GW 40 390 F

MULTIMEDIA ENCLOSURE FULL VERSION 54 DIN MODULES - WHITE RAL 9016 - BLANK DOOR



Code	Description	Outer dim. LxHxD (mm)	Pack Carton
GW 40 390 F	Front cover, inner frame and accessories 54 DIN modules	465x680x95	1
GW 40 689 PM	Empty back box 54 DIN modules		1/3

APPLICATIONS: multimedia enclosures allow the distribution of the services through the apartment (e.g. internet, phone, satellite TV, etc.). The full version is dedicated to big apartments and villas with a huge amount of services and devices that have to be connected.

CHARACTERISTICS: the product is compliant to the CEI 306-2 Guide. The back box features plastic tab for an easier installation on metal frames and plasterboard panels. The product can be joint vertically with other enclosures of the the CDKi range (minimum size 36 DIN modules) through the GW40425 tool.

ACCESSORIES SUPPLIED: the GW40390F is composed of 1 pc front cover with blank door, 1 pc detachable frame with 3 pcs perforated mounting plates (1 pc with 18 Keystone Jack slot), 3 m velcro roll h=16 mm, 6 pcs brackets, 6 pcs self-adhesive cable clips with cable ties, 6 pcs. RJ45 Cat.6 Keystone Jack, 6 pcs patch cord RJ45-RJ45 Cat.6 0.6 m, 1 pc telephone splitter with 5 RJ11 sockets and 5 pcs patch cord RJ11-RJ45, 1 pc multiple socket with 4 Italian/German socket 2P+E 16A.

INSTALLATION: the product can be installed on both masonry and plasterboard walls.



GW N1 031 F

MULTIMEDIA BOARD FOR DOMO CENTER

Code	Height (mm)	Pack Carton
GW N1 031 F	600	1

APPLICATIONS: multimedia boards allow the distribution of the services from the DOMO CENTER through the apartment (e.g. internet, phone, satellite TV, etc.). This version is dedicated to big apartments and villas with a huge amount of services and devices that have to be connected.

CHARACTERISTICS: the product is compliant to the CEI 306-2 Guide.

ACCESSORIES SUPPLIED: 2 pcs vertical wiring trunking 80x60 mm, 1 kit fixing screws, 1 pc frame with 3 pcs perforated mounting plates (1 pc with 18 Keystone Jack slot), 3 m velcro roll h=16 mm, 6 pcs brackets, 6 pcs self-adhesive cable clips with cable ties, 6 pcs. RJ45 Cat.6 Keystone Jack, 6 pcs patch cord RJ45-RJ45 Cat.6 0.6 m, 1 pc telephone splitter with 5 RJ11 socket and 5 pcs patch cord RJ11-RJ45, 1 pc multiple socket with 4 Italian/German socket 2P+E 16A.

INSTALLATION: the finishing panel GWN1122XB can be used for better aesthetics and protection.

FIBER OPTIC PATCH CABLES



GW 38 311

SC/APC - SC/APC SINGLE-FIBER OPTIC CABLES

Code	Cable colour	No. optical fibers	Length	Ø sheath	Pack Carton
GW 38 310	White	1	0.5 m	0.9 mm	1/20
GW 38 311	White	1	1 m	0.9 mm	1/20
GW 38 312	White	1	2 m	0.9 mm	1/20
GW 38 317	White	1	10 m	2 mm	1/20
GW 38 318	White	1	20 m	2 mm	1/15
GW 38 319	White	1	40 m	2 mm	1/8

CHARACTERISTICS: single-mode, single-fiber, G.657.A2 Bend Insensitive, LSZH sheath optical fiber cables. The fibers are pre-terminated on both sides with SC/APC connectors. GW38317, GW38318, GW38319 are strengthened with a core of kevlar
NOTES: for indoor use. For mobile installation.

SINGLE-FIBER OPTIC CABLES - FIBER FAST PLUS



GW 38 324

Code	Cable colour	No. optical fibers	Length	Ø sheath	Ø pulling sheath	CPR class	Pack Carton
GW 38 323	White	1	10 m	2.6 mm	9 mm	Cca-s1b,d1,a1	1/20
GW 38 324	White	1	20 m	2.6 mm	9 mm	Cca-s1b,d1,a1	1/15
GW 38 325	White	1	40 m	2.6 mm	9 mm	Cca-s1b,d1,a1	1/8

CHARACTERISTICS: single-mode, single-fiber, G.657.A2 Bend Insensitive, LSZH sheath optical fiber cables. From both sides the patch cables has a pulling sheath in kevlar to protect the SC/APC terminations, which have to be completed manually assembling the 2 SC/APC connectors (supplied) after the laying phase is finish.
NOTES: for indoor use.

8-FIBER OPTIC CABLES - FIBER FAST PLUS



GW 38 347

Code	Cable colour	No. optical fibers	Length	Ø sheath	Ø pulling sheath	CPR class	Pack Carton
GW 38 347	White	8	50 m	3.8 mm	9 mm	Eca	1/10
GW 38 348	White	8	100 m	3.8 mm	9 mm	Eca	1/10

CHARACTERISTICS: single-mode, 8-fiber, G.657.A2 Bend Insensitive, LSZH sheath optical fiber cables. At one end, the patch cables terminate with SC/APC connectors, while at the other end they have a pulling sheath in kevlar to protect the SC/APC terminations, which have to be completed manually assembling the 8 SC/APC connectors (supplied) after the laying phase is finish.
NOTES: for indoor use.

OPTICAL CABLES



GW 38 351

8-FIBER OPTIC CABLE REELS

Code	Cable colour	No. optical fibers	Length	Ø sheath	Use	CPR class	Pack Carton
GW 38 351	White	8	500 m	3 mm	Indoor	Eca	1
GW 38 352	Black	8	500 m	3 mm	Outdoor	Eca	1

CHARACTERISTICS: single-mode, 8-fiber, G.657.A2 Bend Insensitive, LSZH sheath optical fiber cable. The cables are strengthened with a core of kevlar.

FIBER OPTIC ADAPTERS



GW 38 326

SC/APC ADAPTER

Code	Type	For connectors	Colour	Pack Carton
GW 38 326	Female/Female	SC/APC	Green RAL 6018	25/300

CHARACTERISTICS: with ceramic fiber optic sleeve, snap-fit assembly and dust caps. Suitable to join two single-mode SC/APC fiber optic patch cables.
NOTES: for optic patch panel drawers, building optical service cabinets, building fiber termination boxes, apartment termination boxes, etc.



GW 38 335

ANGLED SC/APC ADAPTER

Code	Type	Angle	For connectors	Compatibility	Colour	Pack Carton
GW 38 335	Female/Female	40°	SC/APC	Keystone Jack	Green RAL 6018	1/25

CHARACTERISTICS: cable outlet inclined of 40° to the wall line. With ceramic fiber optic sleeve and dust caps. The front output is protected with safety cap and unmissable cord. Suitable to join two single-mode SC/APC fiber optic patch cables.
NOTES: for adapters (Chorus, System and Dahlia) with Keystone Jack coupling.

ACCESSORIES

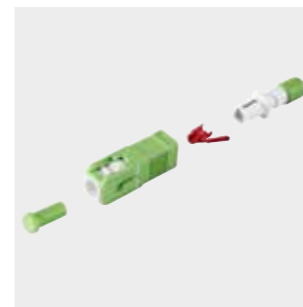


GW 38 334

OPTICAL SPLICE HOLDER

Code	N. splices	Suitable for support	Fixing	Colour	Pack Carton
GW 38 334	3	3-module	With screws	Black	1/30

CHARACTERISTICS: suitable to house up to 3 splices and max 4m optical fiber (with ø 0.9 mm cable).
ACCESSORIES SUPPLIED: 4 plastic strips to fasten the excess part of the optical fiber cable.
NOTES: coupling on the rear or 3-module supports (e.g.: GW16803).



GW 38 336

8 SC/APC CONNECTORS MOUNTING KIT - FIBER FAST SYSTEM

Code	N. connectors	Colour	Pack Carton
GW 38 336	8	Green RAL 6018	10/80

CHARACTERISTICS: replacement connectors for Fiber Fast systems.
NOTES: 8 SC/APC connectors, 1 cleaning towel for cleaning the ferrules.

COMPONENTS FOR COPPER WIRING

UTP DATA SOCKETS FOR PANEL



GW 38 033

UNSHIELDED RJ45 UTP SOCKETS T568A/B

Code	Description	Use category	Cables type	Pack Carton
GW 38 031	RJ45	5e	UTP	10/50
GW 38 032	RJ45	6	UTP	10/50
GW 38 033	RJ45	6a	UTP	10/50

CHARACTERISTICS: terminals with toolless perforated insulation.

NOTES: for patch-panels and adapters (Chorus, System, Playbus and Dahlia ranges) with Keystone Jack coupling.

FTP DATA SOCKETS FOR PANEL



GW 38 036

SHIELDED RJ45 FTP SOCKETS T568A/B

Code	Description	Use category	Cables type	Pack Carton
GW 38 034	RJ45	5e	FTP	10/50
GW 38 035	RJ45	6	FTP	10/50
GW 38 036	RJ45	6a	FTP	10/50

CHARACTERISTICS: terminals with toolless perforated insulation.

NOTES: for patch-panels and adapters (Chorus, System, Playbus and Dahlia ranges) with Keystone Jack coupling.

UTP PATCH CORDS



GW 38 116

RJ45 - RJ45 UTP UNSHIELDED PATCHCORDS

Code	Description	Use category	Cables type	Cable length	Colour	Pack Carton
GW 38 116	RJ45 - RJ45	5e	UTP 24 AWG	0.5 m	Grey	1/24
GW 38 117	RJ45 - RJ45	5e	UTP 24 AWG	1 m	Grey	1/24
GW 38 118	RJ45 - RJ45	5e	UTP 24 AWG	2 m	Grey	1/24
GW 38 119	RJ45 - RJ45	5e	UTP 24 AWG	5 m	Grey	1/24
GW 38 131	RJ45 - RJ45	6	UTP 24 AWG	1 m	Grey	1/24
GW 38 132	RJ45 - RJ45	6	UTP 24 AWG	2 m	Grey	1/24
GW 38 133	RJ45 - RJ45	6	UTP 24 AWG	5 m	Grey	1/24

PRODUCTION CHARACTERISTICS: 24 AWG copper conductor. Flameproof polyethylene insulation. Plug contacts in phosphorous bronze.

PERFORMANCE CHARACTERISTICS: performance is higher than what is envisaged for cat. 5e.

Compliant with the prescriptions required for applications such as 100BASE-Tx, 155Mbps ATM and Gigabit Ethernet.

ELECTRICAL CHARACTERISTICS AT 20°C: Impedance 100 Ohm +/- 15% 1-100 MHz; Capacity: 13.5 pF/ft at 1 MHz.

FTP PATCH CORDS



GW 38 121

RJ45 - RJ45 FTP SHIELDED PATCHCORDS

Code	Description	Use category	Cables type	Cable length	Colour	Pack Carton
GW 38 121	RJ45 - RJ45	5e	FTP 24 AWG	0.5 m	Grey	1/24
GW 38 122	RJ45 - RJ45	5e	FTP 24 AWG	1 m	Grey	1/24
GW 38 123	RJ45 - RJ45	5e	FTP 24 AWG	2 m	Grey	1/24
GW 38 124	RJ45 - RJ45	5e	FTP 24 AWG	5 m	Grey	1/24

CONSTRUCTION CHARACTERISTICS: 24 AWG copper conductor. Flameproof polyethylene insulation. Plug contacts in phosphorous bronze.

PERFORMANCE CHARACTERISTICS: performance is higher than what is envisaged for cat. 5e.

Compliant with the prescriptions required for applications such as 100BASE-Tx, 155Mbps ATM and Gigabit Ethernet.

ELECTRICAL CHARACTERISTICS AT 20°C: Impedance 100 Ohm +/- 15% 1-100 MHz; Capacity: 13.5 pF/ft at 1 MHz.

USB AND HDMI COUPLERS



GW 38 056

USB AND HDMI COUPLERS

Code	Description	Type	Compatibility	Pack Carton
GW 38 056	HDMI coupler	Female/Female	Keystone Jack	1/48
GW 38 057	USB coupler	Female/Female - A type	Keystone Jack	1/48

NOTES: for adapters (Chorus, System, Playbus and Dahlia) with Keystone Jack coupling and for patch-panels.

ACCESSORIES



GW 38 051

MOUNTING TOOLS

Code	Description	Suitable for	Pack Carton
GW 38 051	Insert wire	110 Connect (Impact tool)	1

RACK CABINETS

10" WALL MOUNT RACK CABINETS



GW 38 432

10" METAL WALL MOUNT CABINET WITH TRANSPARENT DOOR

Code	Colour	No. uprights	Cabling unity	IP degree	Outer dim. LxHxD (mm)	Pack Carton
GW 38 432	Grey (RAL 7035)	2	8 U	IP20	325x400x262	1

CHARACTERISTICS: made from sheet steel, powder coated, texture finish, with upper and lower cable entry. Movable and reversing 180° opening door with tempered glass window. Uprights adjustable in depth. Static load capacity 15Kg.

ACCESSORIES SUPPLIED: lock with 2 keys; earthing set.

ACCESSORIES FOR 10" WALL MOUNT CABINET

Code	Description	Characteristics	Load capacity (Kg)	Colour	Cabling unity	Pack Carton
GW 38 442	10" cable management panel	With 2 rings		Black RAL 9005	1 U	1/5
GW 38 443	10" empty patch panel	Suitable for 8 UTP/FTP RJ45 sockets		Black RAL 9005	1 U	1/10
GW 38 444	10" fixed shelf	Depth 150 mm	10	Black RAL 9005	1 U	1
GW 38 445	10" blind panel			Black RAL 9005	1 U	1/10
GW 38 446	10" power strip	2 sockets 2P+E - 16 A ita/ger std		Grey	1.5 U	1/12

CHARACTERISTICS: GW38442, GW38443, GW38444, GW38445 made from painted sheet steel, wrinkle texture. GW38446 body in plastic material, with dual pole luminous switch, 3m long cable, 90° 2P+E - 16A fre/ger std plug, power max 3500W.

NOTES: GW38443 to be completed with UTP and FTP RJ45 socket-outlets with Keystone Jack coupling (eg: GW38031, GW38032, GW38033, GW38034, GW38035, GW38036). For mounting on 10" wall mount cabinets use the metal small parts kit GW38557.



GW 38 443

19" WALL MOUNT RACK CABINETS



GW 38 407

19" METAL WALL MOUNT CABINETS WITH TRANSPARENT DOOR

Code	Colour	No. uprights	Cabling unity	IP degree	Outer dim. LxHxD (mm)	Pack Carton
Depth (mm): 400 mm						
GW 38 406	Grey (RAL 7035)	2	6 U	IP20	600x335x400	1
GW 38 407	Grey (RAL 7035)	2	9 U	IP20	600x470x400	1
GW 38 408	Grey (RAL 7035)	2	12 U	IP20	600x605x400	1
GW 38 409	Grey (RAL 7035)	2	15 U	IP20	600x740x400	1
Depth (mm): 600 mm						
GW 38 418	Grey (RAL 7035)	2	12 U	IP20	600x605x600	1
GW 38 419	Grey (RAL 7035)	2	15 U	IP20	600x740x600	1

CHARACTERISTICS: made from sheet steel, powder coated, texture finish, with upper, lower and rear cable entry. Movable and reversing 180° opening door with tempered glass window. Uprights adjustable in depth. Static load capacity 50Kg.

ACCESSORIES SUPPLIED: quick coupling blind side panels, rear panel, roof plate and base; lock with 2 keys; earthing set.

REPLACEMENT DOORS FOR 19" WALL MOUNT CABINETS

Code	Colour	For 19" wall mount cabinets	Pack Carton
GW 38 590	Grey (RAL 7035)	GW38406	1
GW 38 591	Grey (RAL 7035)	GW38407	1
GW 38 592	Grey (RAL 7035)	GW38408, GW38418	1
GW 38 593	Grey (RAL 7035)	GW38409, GW38419	1

CHARACTERISTICS: made from sheet steel, powder coated, texture finish and tempered glass window.

ACCESSORIES SUPPLIED: lock with 2 keys.



GW 38 591



GW 38 471

REPLACEMENT LOCK FOR 19" WALL MOUNT CABINETS

Code	Description	Pack Carton
GW 38 471	Security lock	1/30

CHARACTERISTICS: suitable for 19" wall mount cabinets.
ACCESSORIES SUPPLIED: lock with 2 keys.



GW 38 485

ACCESSORIES FOR 19" WALL MOUNT CABINETS

Code	Description	Characteristics	Pack Carton
GW 38 485	Single fan	220-240 Vac - 50/60 Hz - 28 W	1

19" FLOOR RACK CABINETS



GW 38 453

19" METAL FLOOR RACK CABINETS WITH TRANSPARENT DOOR

Code	Colour	No. uprights	Cabling unity	IP degree	Outer dim. LxHxD (mm)	Pack Carton
Depth (mm): 600 mm						
GW 38 451	Grey (RAL 7035)	2	24 U	IP20	600x1185x600	1
GW 38 452	Grey (RAL 7035)	2	30 U	IP20	600x1485x600	1
GW 38 453	Grey (RAL 7035)	2	42 U	IP20	600x1985x600	1
Depth (mm): 800 mm						
GW 38 461	Grey (RAL 7035)	4	24 U	IP20	800x1185x800	1
GW 38 462	Grey (RAL 7035)	4	30 U	IP20	800x1485x800	1
GW 38 463	Grey (RAL 7035)	4	42 U	IP20	800x1985x800	1
Depth (mm): 1000 mm						
GW 38 464	Grey (RAL 7035)	4	42 U	IP20	800x1985x1000	1

CHARACTERISTICS: made from sheet steel, powder coated, texture finish, with upper and lower cable entry. Movable and reversing 135° opening door with tempered glass window. Uprights adjustable in depth. Static load capacity 1000Kg.

ACCESSORIES SUPPLIED: quick coupling blind side and rear panels, roof plate and base; adjustable levelling feet; lock with 2 keys; earthing set.



GW 38 598

REPLACEMENT DOORS FOR 19" FLOOR RACK CABINETS

Code	Colour	For 19" rack cabinets	Pack Carton
GW 38 594	Grey (RAL 7035)	GW38451	1
GW 38 596	Grey (RAL 7035)	GW38452	1
GW 38 598	Grey (RAL 7035)	GW38453	1
GW 38 595	Grey (RAL 7035)	GW38461	1
GW 38 597	Grey (RAL 7035)	GW38462	1
GW 38 599	Grey (RAL 7035)	GW38463, GW38464	1

CHARACTERISTICS: made from sheet steel, powder coated, texture finish and tempered glass window.

ACCESSORIES SUPPLIED: lock with 2 keys.



GW 38 472

REPLACEMENT LOCK FOR 19" FLOOR RACK CABINETS

Code	Description	Pack Carton
GW 38 472	Security lock	1/5

CHARACTERISTICS: suitable for 19" floor rack cabinets.
ACCESSORIES SUPPLIED: lock with 2 keys.



GW 38 476

PAIR OF UPRIGHTS FOR 19" FLOOR RACK CABINETS

Code	Cabling unity	Pack Carton
GW 38 474	24 U	1
GW 38 475	30 U	1
GW 38 476	42 U	1

CHARACTERISTICS: made from zinc-plated sheet steel. Suitable for 19" floor rack cabinets.



GW 38 480

PLINTHS FOR 19" FLOOR RACK CABINETS

Code	Colour	For 19" rack cabinets	Outer dim. LxHxD (mm)	Pack Carton
GW 38 480	Black RAL 9005	GW38451, GW38452, GW38453	600x100x600	1
GW 38 481	Black RAL 9005	GW38461, GW38462, GW38463	800x100x800	1
GW 38 482	Black RAL 9005	GW38464	800x100x1000	1

CHARACTERISTICS: made from painted sheet steel, wrinkle texture.



GW 38 479

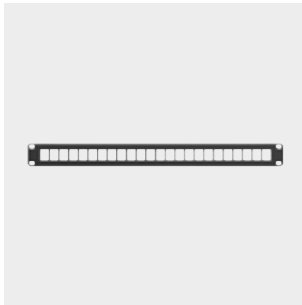
ACCESSORIES FOR 19" FLOOR RACK CABINETS

Code	Description	Characteristics	Colour	Pack Carton
GW 38 477	Kit with 8 metal rings	H 90 mm	Zinc-plated	1/8
GW 38 479	Air circulation unit	220-240 Vac - 50/60 Hz - 2x28 W	Black RAL 9005	1/8
GW 38 483	Coupling set for cabinets			1/15
GW 38 484	Set of 4 swiveling wheels	Provided with brakes. Load capacity 360 Kg		1
GW 38 558	Earthing set	Earth connection cables		1/30

CHARACTERISTICS: GW38477 suitable for fixing on the vertical cable management bars for the cabinets GW38461, GW38462, GW38463 and GW38464. GW38479 wrinkle texture, equipped with a pair of fans complete of 3m cable with german std plug and a thermostat.

NOTES: for mounting the air circulation unit GW38479 on 19" floor rack cabinets use the metal small parts kit GW38557.

ACCESSORIES FOR 19" RACK CABINETS



GW 38 603

19" EMPTY PATCH PANEL

Code	Characteristics	Colour	Cabling unity	Pack Carton
GW 38 603	Suitable for 24 UTP/FTP RJ45 sockets	Black RAL 9005	1 U	1/10

CHARACTERISTICS: made from painted sheet steel, wrinkle texture.
NOTES: to be completed with UTP and FTP RJ45 socket-outlets with Keystone Jack coupling (eg: GW38031, GW38032, GW38033, GW38034, GW38035, GW38036). For mounting on 19" rack cabinets use the metal small parts kit GW38557.



GW 38 612

19" EMPTY FIBER OPTIC PATCH PANEL DRAWER

Code	Characteristics	Colour	Depth	Cabling unity	Pack Carton
GW 38 612	Suitable for 24 SC/LC couplers	Black RAL 9005	250 mm	1 U	1
GW 38 613	Suitable for 24 ST couplers	Black RAL 9005	250 mm	1 U	1

CHARACTERISTICS: made from painted sheet steel, wrinkle texture. Optic drawers with easy clip opening.
NOTES: suitable for SC simplex (GW38326), LC duplex or ST simplex couplers. For mounting on 19" rack cabinets use the metal small parts kit GW38557.



GW 38 609

19" RACK SHELVES

Code	Description	Load capacity (Kg)	Colour	Depth	Cabling unity	Pack Carton
GW 38 607	19" fixed shelf	20	Black RAL 9005	260 mm	2 U	1/6
GW 38 608	19" fixed shelf	20	Black RAL 9005	360 mm	2 U	1/6
GW 38 609	19" sliding shelf	15	Black RAL 9005	410 mm	2 U	1/6

CHARACTERISTICS: made from painted sheet steel, wrinkle texture. The load capacity values (Kg) are referred to a uniformly distributed load. GW38609 not suitable for 19" wall mount cabinets with depth of 400mm.
NOTES: for mounting on 19" rack cabinets use the metal small parts kit GW38557.



GW 38 601

19" BLIND PANELS

Code	Colour	Cabling unity	Pack Carton
GW 38 601	Black RAL 9005	1 U	1/20
GW 38 602	Black RAL 9005	2 U	1/10

CHARACTERISTICS: made from painted sheet steel, wrinkle texture.
NOTES: for mounting on 19" rack cabinets use the metal small parts kit GW38557.



GW 38 611

19" CABLE MANAGEMENT PANELS

Code	Characteristics	Colour	Cabling unity	Pack Carton
GW 38 610	With brushes	Black RAL 9005	1 U	1/20
GW 38 611	With 4 rings	Black RAL 9005	1 U	1/15

CHARACTERISTICS: made from painted sheet steel, wrinkle texture.
NOTES: for mounting on 19" rack cabinets use the metal small parts kit GW38557.



GW 38 606

19" POWER STRIP

Code	Characteristics	Colour	Cabling unity	Pack Carton
GW 38 606	6 sockets 2P+E - 16 A dual amp. ita/ger std	Black	1 U	1/10

CHARACTERISTICS: body in plastic material, with dual pole luminous switch, 3m long cable, 90° 2P+E - 16A fre/ger std plug, power max 3500W.
NOTES: for mounting on 19" rack cabinets use the metal small parts kit GW38557.



GW 38 557

ACCESSORIES FOR RACK CABINETS

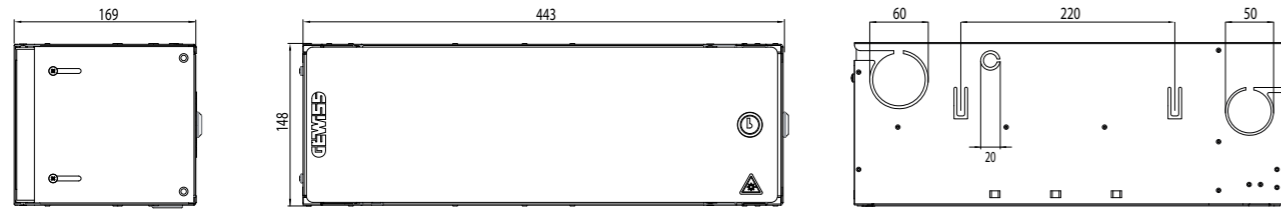
Code	Description	Dimensions LxH (mm)	Pack Carton
GW 38 557	Small parts kit		1/30
GW 38 473	Alignment adhesive strip		1/30
GW 46 447	Self-adhesive document holder	230x310	1/10

ACCESSORIES SUPPLIED: GW38557 kit of 50 cage nuts and 50 M6 screws.

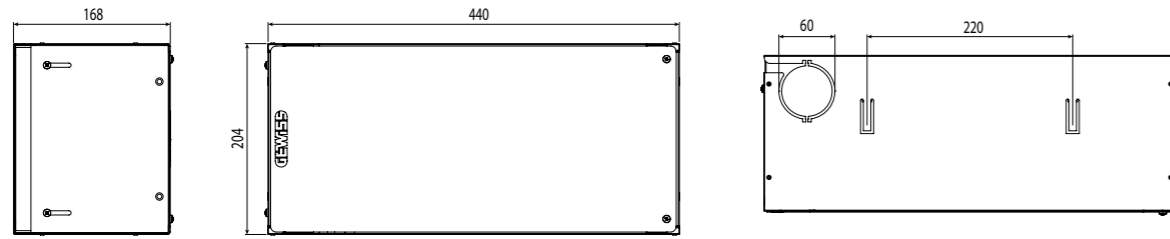
Dimensions

Components for fiber optic wiring - Dimension tables

OPTICAL SERVICES CABINETS

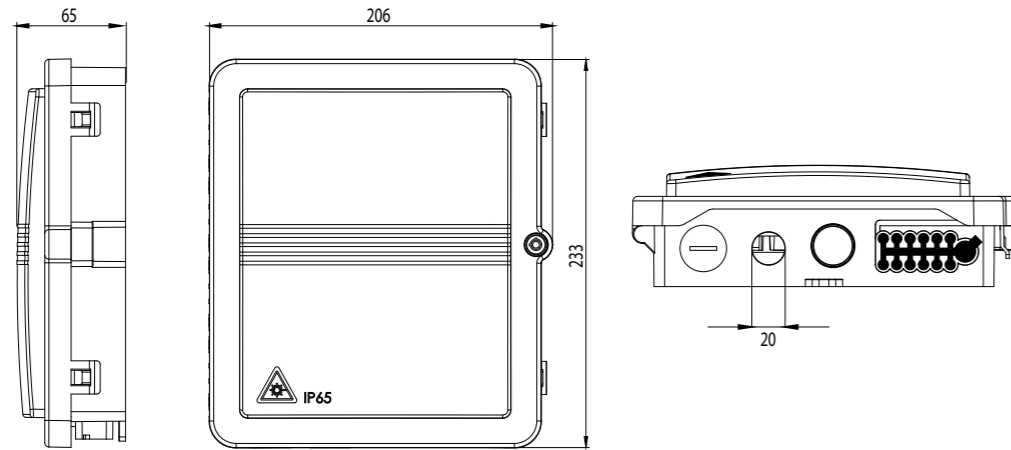


Building optical services cabinet **GW 38 303**



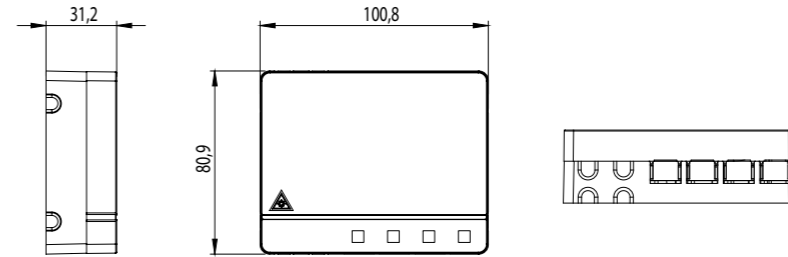
Cable management cabinet **GW 38 302**

BUILDING FIBER TERMINATION BOX

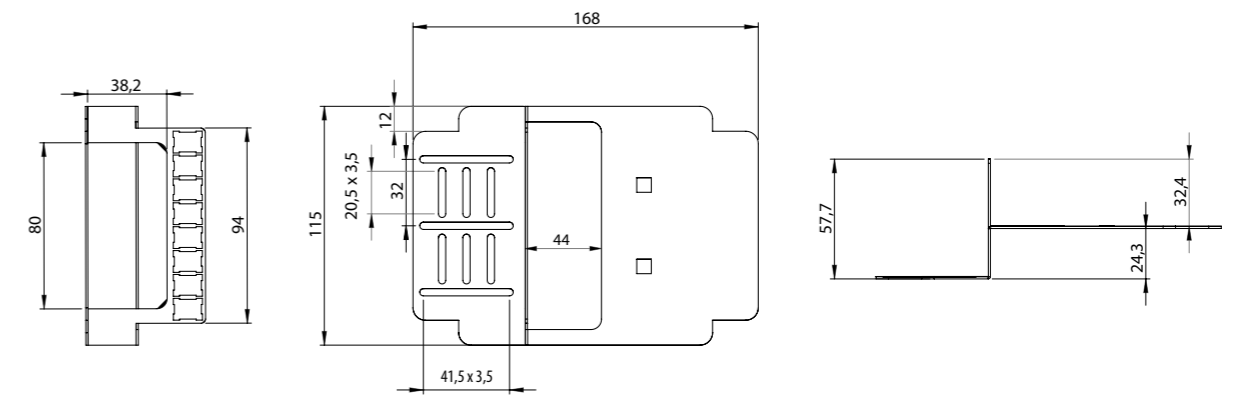


Termination box **GW 38 331**

APARTMENT TERMINATION BOXES

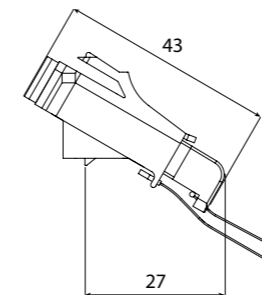


- Compact termination box **GW 38 338**
- Compact termination box with 15m long cable **GW 38 372**
- Compact termination box with 30m long cable **GW 38 373**
- Compact termination box with 50m long cable **GW 38 374**
- Compact termination box with 65m long cable **GW 38 375**
- Compact termination box with 80m long cable **GW 38 376**
- Compact termination box with 100m long cable **GW 38 377**

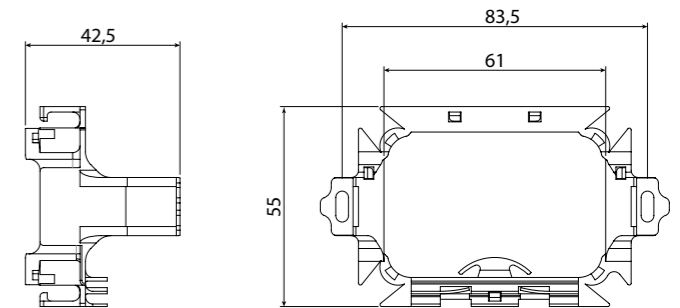


Metal termination box **GW 38 339**

ADAPTERS AND ACCESSORIES



Angled SC/APC adapter **GW 38 335**

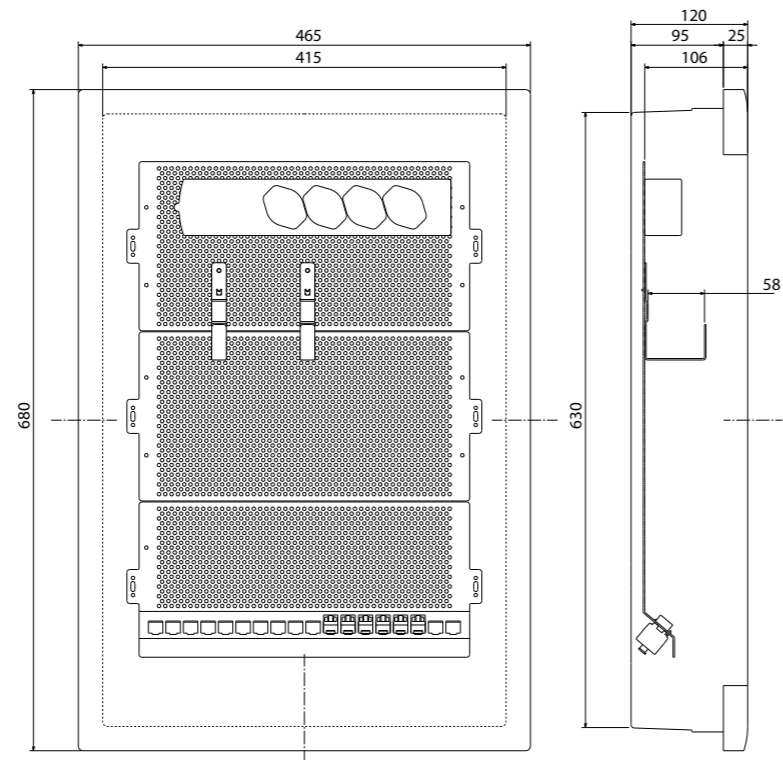


Splice holder cable spool **GW 38 334**

MULTIMEDIA DISTRIBUTION BOARDS

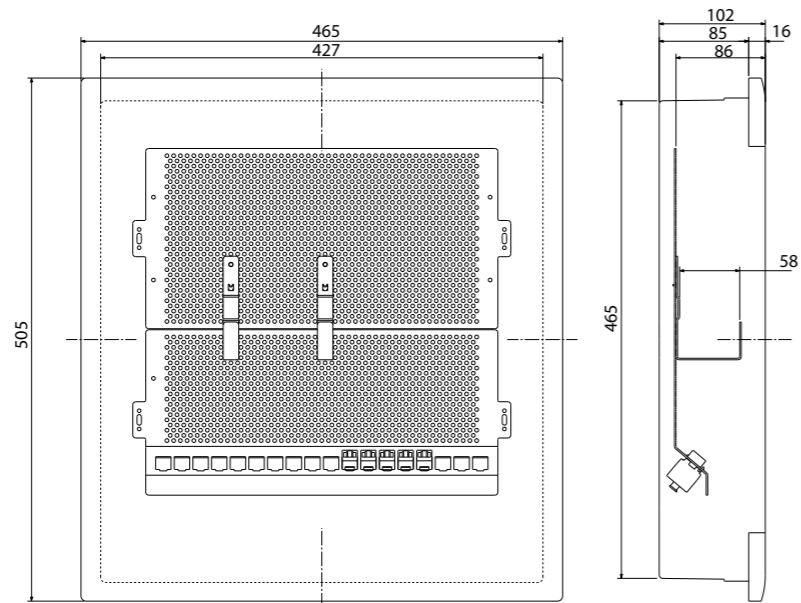
FULL VERSION - 54 MODULES

Front cover **GW 40 390 F**
 Back-mounting box **GW 40 689 PM**



COMPACT VERSION - 36 MODULES

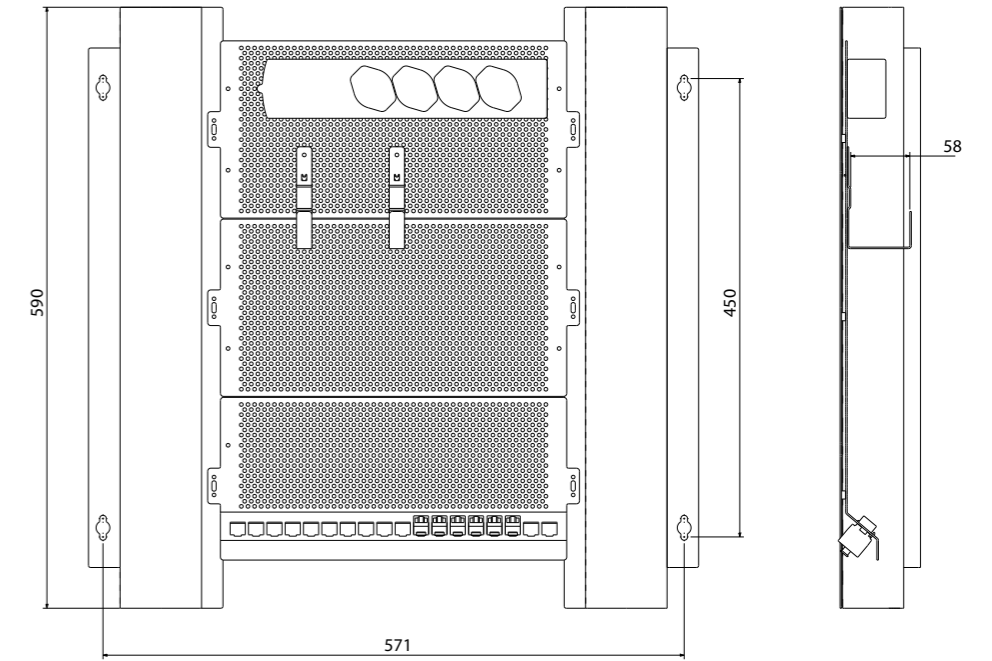
Front cover **GW 40 390 C**
 Back-mounting box **GW 40 688 PM**



MULTIMEDIA DISTRIBUTION BOARDS

DOMO CENTER VERSION

Full version **GW N1 031 F**
 Finishing panel **GW N1 122 XB**



General characteristics

Item	Description	Material	Finish	Thickness	IP degree	Static load capacity
10" wall mount rack cabinets	Structure	Sheet steel UNI EN 10130	Powder coated	1.2 mm	IP20	15 Kg
	Side panels	Sheet steel UNI EN 10130	Powder coated	1.2 mm		
	Front door ⁽¹⁾	Sheet steel UNI EN 10130	Powder coated	1.2 mm		
		Smoked gray glass	Tempered UNI EN 1288-3	4 mm		
	Uprights ⁽²⁾	Sheet steel UNI EN 10346	Galvanized	1.5 mm		

Item	Description	Material	Finish	Thickness	IP degree	Static load capacity
19" wall mount rack cabinets	Structure	Sheet steel UNI EN 10130	Powder coated	1.2 mm	IP20	50 Kg
	Roof plate and base	Sheet steel UNI EN 10130	Powder coated	1.2 mm		
	Side panels	Sheet steel UNI EN 10130	Powder coated	1.2 mm		
	Rear panel	Sheet steel UNI EN 10130	Powder coated	1.2 mm		
	Front door ⁽¹⁾	Sheet steel UNI EN 10130	Powder coated	1.2 mm		
		Smoked gray glass	Tempered UNI EN 12150-1	4 mm		
	Uprights ⁽²⁾	Sheet steel UNI EN 10346	Galvanized	1.5 mm		
	Bracket for wall mount	Sheet steel UNI EN 10346	Galvanized	1.2 mm		

Item	Description	Material	Finish	Thickness	IP degree	Static load capacity
19" floor rack cabinets	Structure	Sheet steel UNI EN 10130	Powder coated	1.5 mm	IP20	1000 Kg
	Roof plate and base	Sheet steel UNI EN 10130	Powder coated	1.5 mm		
	Side panels	Sheet steel UNI EN 10130	Powder coated	1 mm		
	Rear panel	Sheet steel UNI EN 10130	Powder coated	1 mm		
	Front door ⁽¹⁾	Sheet steel UNI EN 10130	Powder coated	1.2 mm		
		Smoked gray glass	Tempered UNI EN 1288-3	4 mm		
Uprights ⁽³⁾	Sheet steel UNI EN 10346	Galvanized	2 mm			
Plinths for floor rack cabinets	Plate	Sheet steel UNI EN 10130	Powder coated	1.2 mm	-	
	Corner	Sheet steel UNI EN 10130	Powder coated	1.5 mm		

(1) Movable and reversing 135° (for wall mount rack cabinets) or 180° (for floor rack cabinets) opening door

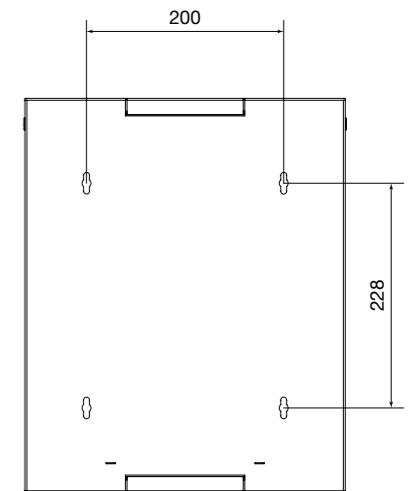
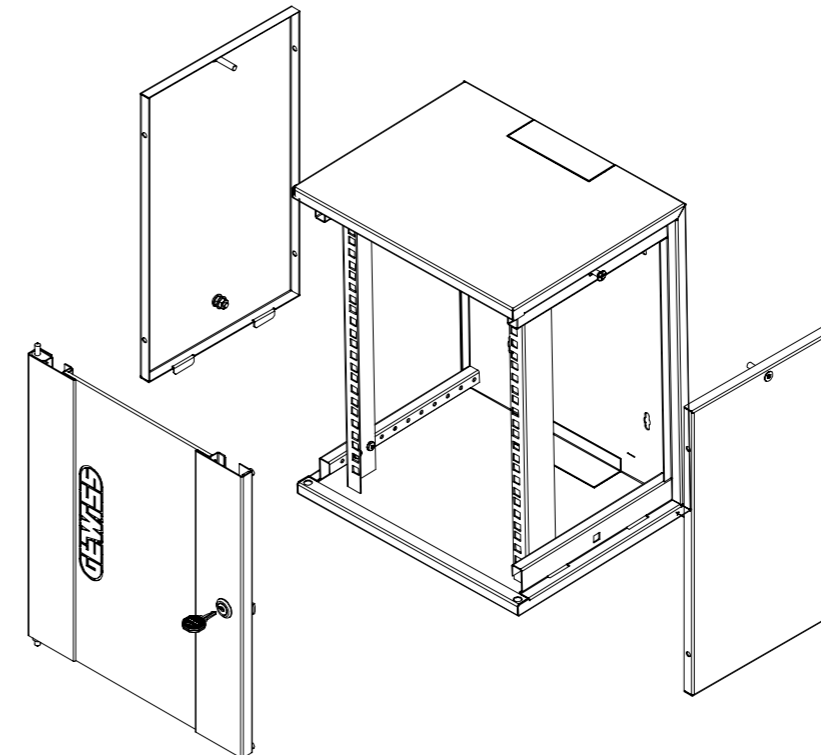
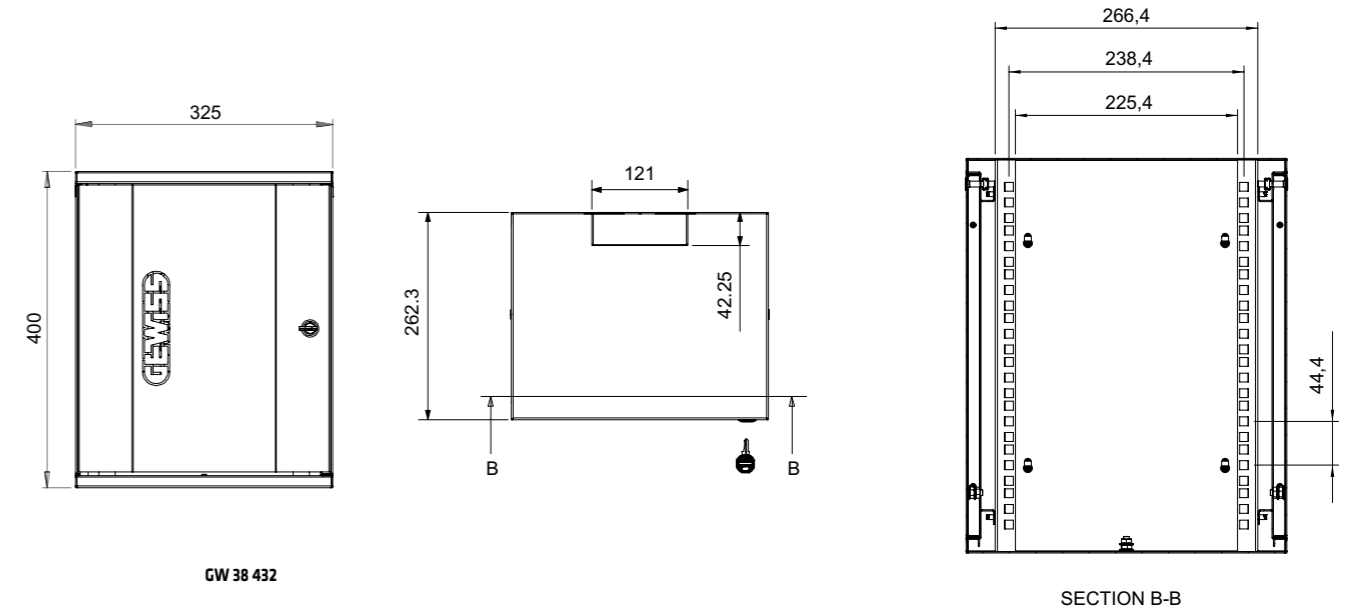
(2) A pair of uprights (front side)

(3) Two pairs of uprights (front and rear side) for 800x800mm and 800x1000mm floor rack cabinets - A pair of uprights (front side) for 600x600mm floor rack cabinets

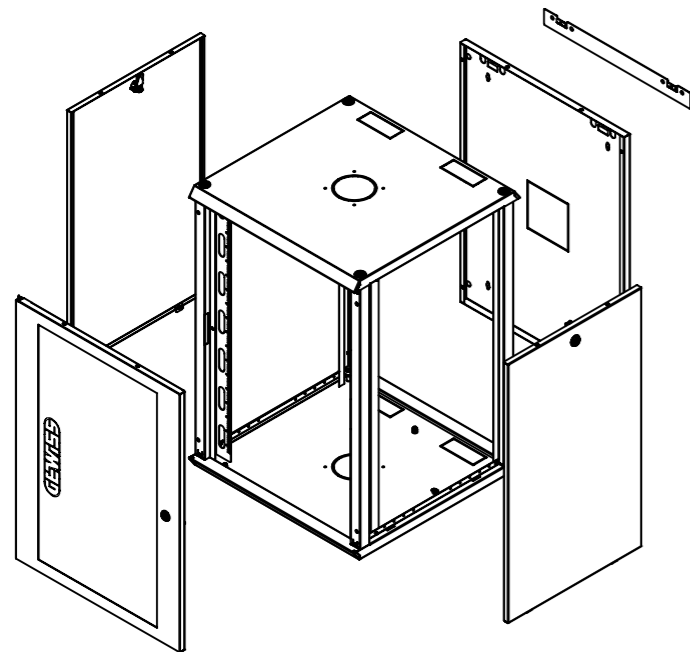
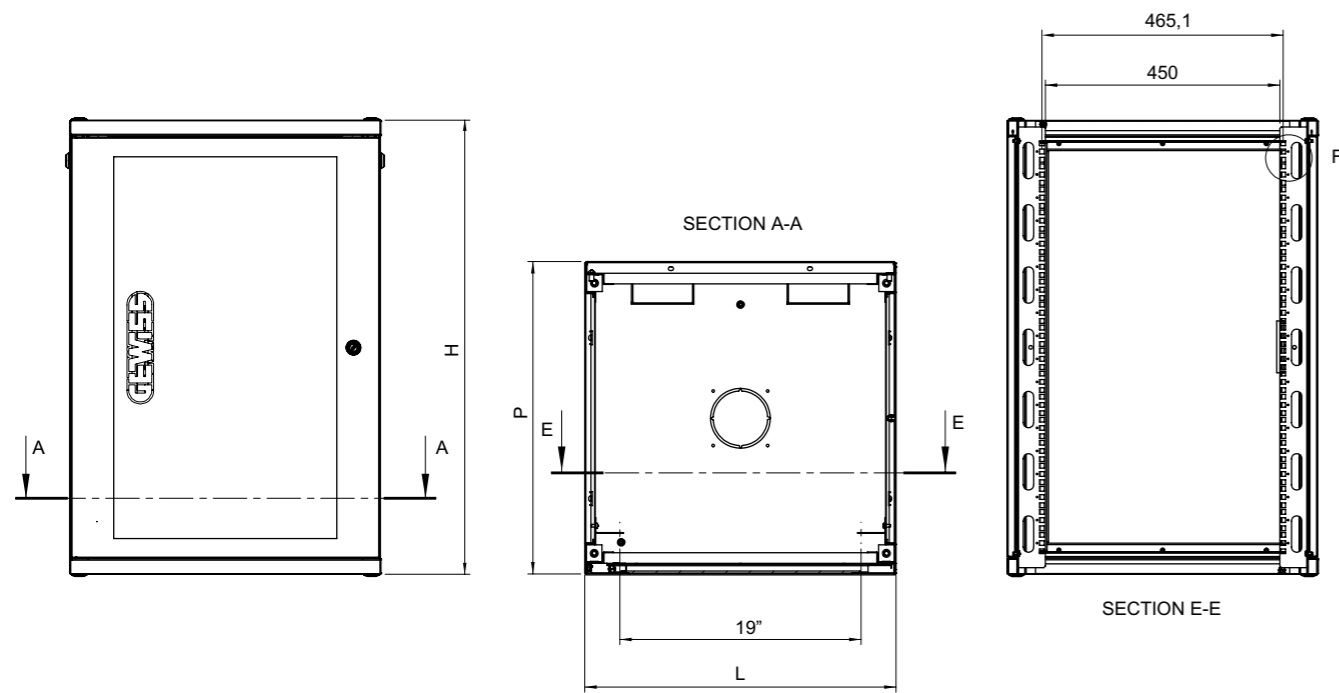
On the base, front door and panels are located coppery pins and faston terminals for earthing, according to EN 50310.

Dimension tables

10" WALL MOUNT RACK CABINET

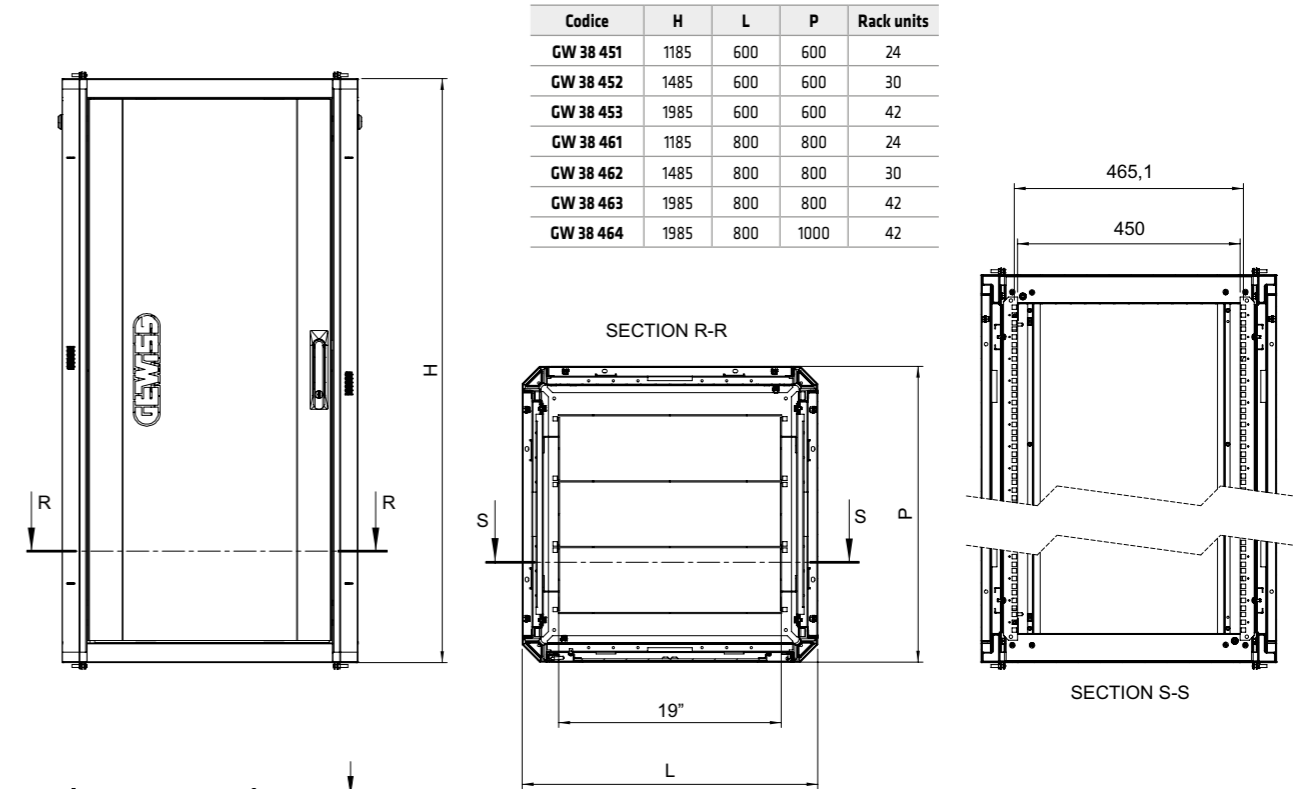


19" WALL MOUNT RACK CABINETS

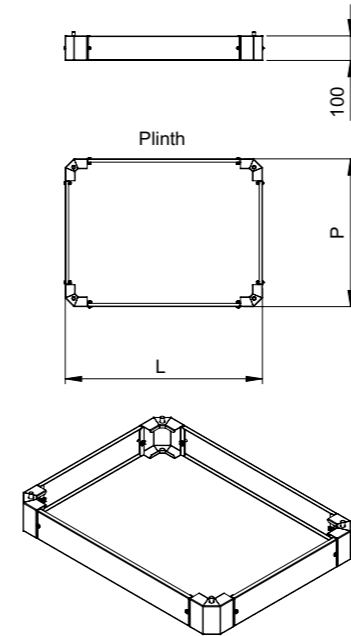


Code	H	L	P	Rack units
GW 38 406	335	600	400	6
GW 38 407	470	600	400	9
GW 38 408	605	600	400	12
GW 38 409	740	600	400	15
GW 38 418	605	600	600	12
GW 38 419	740	600	600	15

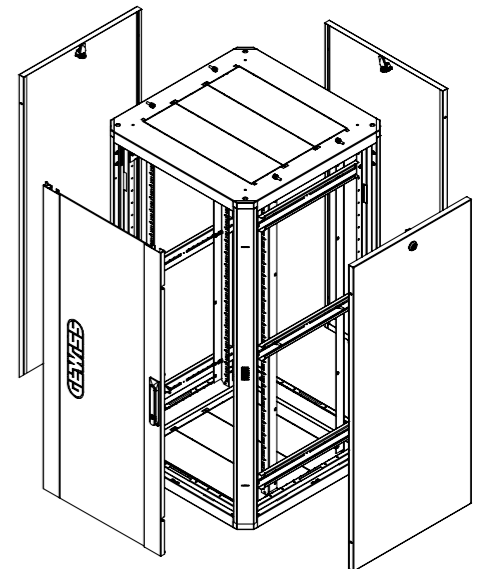
19" FLOOR RACK CABINETS

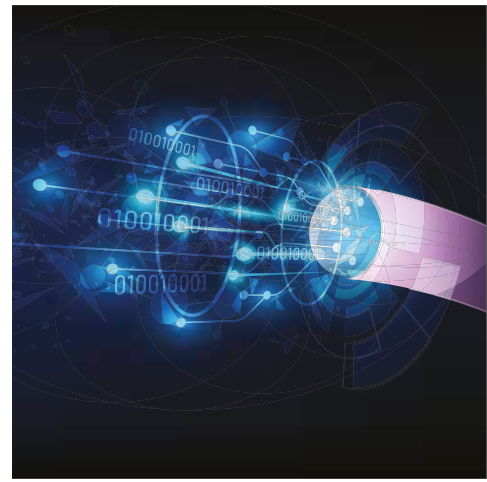


Codice	H	L	P	Rack units
GW 38 451	1185	600	600	24
GW 38 452	1485	600	600	30
GW 38 453	1985	600	600	42
GW 38 461	1185	800	800	24
GW 38 462	1485	800	800	30
GW 38 463	1985	800	800	42
GW 38 464	1985	800	1000	42



Code	L	P
GW 38 480	600	600
GW 38 481	800	800
GW 38 482	800	1000





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