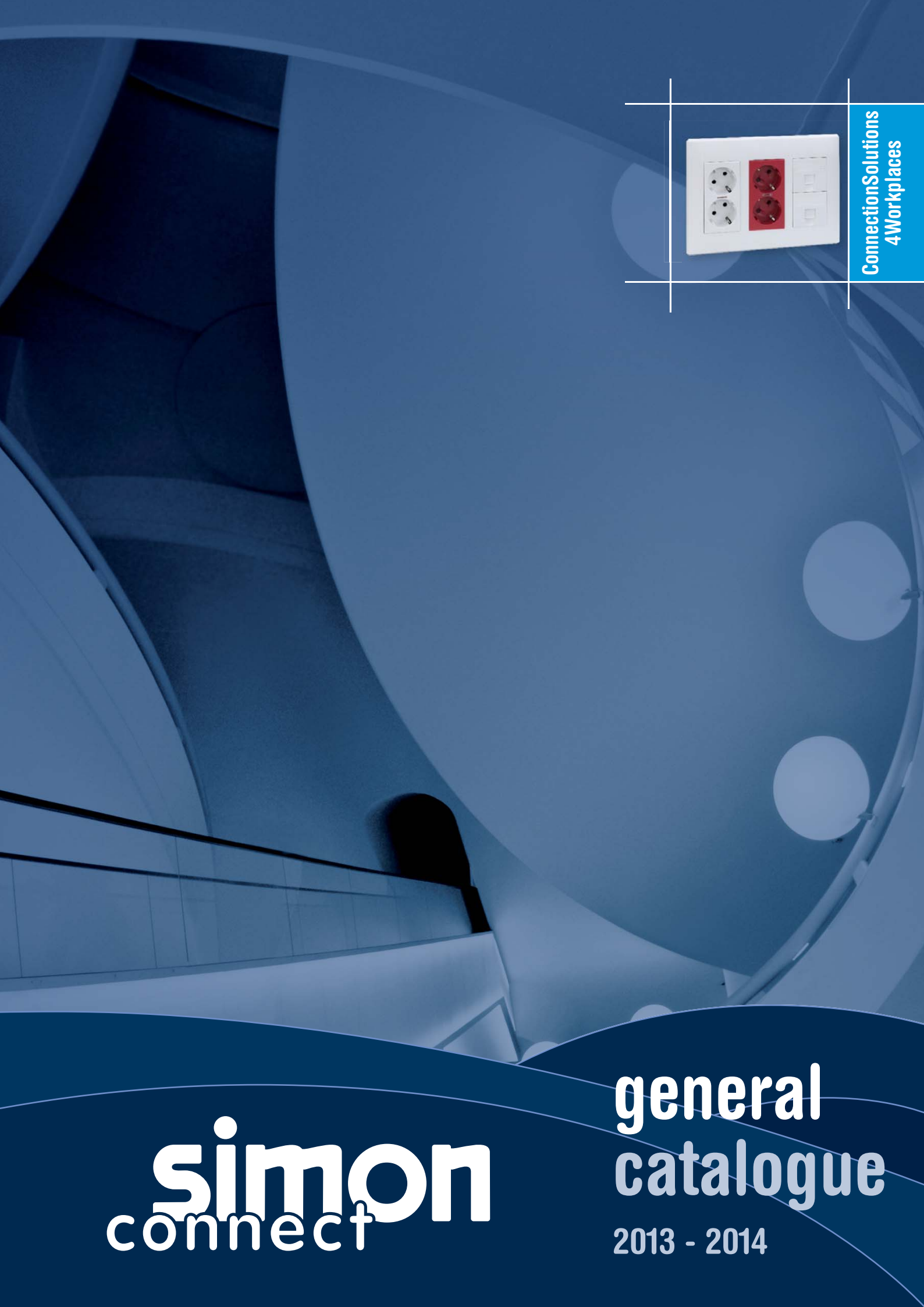


ConnectionSolutions
4Workplaces

simon connect

general catalogue

2013 - 2014

general catalogue

2013 - 2014

simon connect

Simon - International

ARGENTINA - Buenos Aires

BENELUX - Barchon

BRAZIL - São Paulo

CHINA - Shanghai

FRANCE - Paris

INDIA - New Delhi

ITALY - Turin

MEXICO - Mexico DF

MOROCCO - Casablanca

POLAND - Czechowice-Dziedzice

RUSSIA - Moscow

TURKEY - Istanbul

UKRAINE

Simon - Spain and Portugal

PORTUGAL

Investee company:

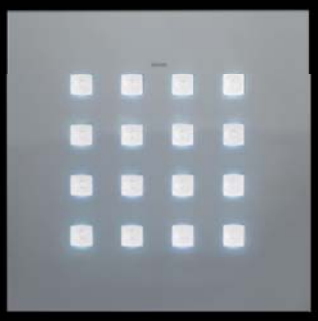
WELCOME TO THE ERA LED

SPOTLIGHT 630

SPOTLIGHT 601

LINEAR SPOTLIGHT 610

DOWNLIGHT 701



DOWNLIGHT 710

LUMINAIRE 720

HANGING SPOTLIGHT 801

LED LIGHTING SIMON COLLECTION

simon INDOOR LIGHTING

SPOTLIGHT 620
SURFACE - ELECTRIFIED RAIL

SPOTLIGHT 620
FLUSH-MOUNTED

LIGHTING CONTROL
SYSTEM - SCENA

LEDFLEX 810

LEDSTRIP 811

MORE INFORMATION, WWW.SIMONLED.COM

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> K45 Ofiblock PLUS
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> Quick connection
Page 140

> Electrobanda
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Our commitment to the planet

In this big project, a small gesture from you is essential

ENERGY SAVING

SIMONBLUEPLANET.COM

Energy efficiency and much more

Environmental concern is part of our company culture:

- We offer energy saving applications and solutions.
- We use innovative environmental processes and solutions that optimise energy use.
- We raise environmental awareness among our personnel and customers.

PEFC
PEFC/14-34-00008

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Shallow floor boxes

Adjustable floor boxes

Junction boxes

Surface wall boxes

Flush-mount wall boxes

Columns

Mini-columns

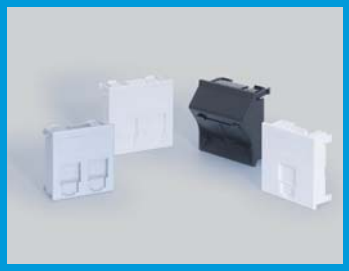
Mini-towers

Metal Enclosures. Surface boxes

Metal Enclosures. Flush-mount boxes

Metal Enclosures. Towers

Electrical sockets



Voice and Data Plates

Simon K45 and Simon 27 Solutions

Protection

Simon 500 CIMA

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	48 >	Protection

Self-extinguishing, halogen-free materials:
A guarantee of safety for persons, equipment and information.

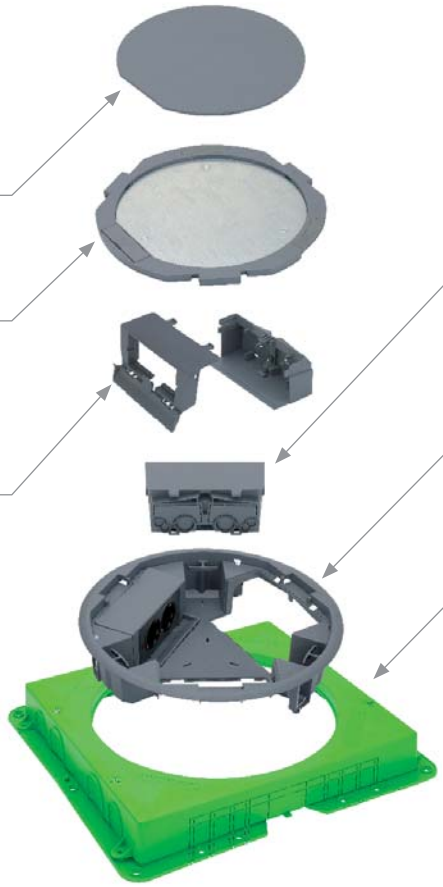
Compatibility with all the Voice, Data and Multimedia connectors on the market.

Maintenance.
The trim plates allow the connections to be maintained and inspected without having to remove the box.

Quick installation.
The mechanisms of the CIMA range are installed by direct snap-fitting without using any tools.

01 THE OPTIMUM SOLUTION FOR SHALLOW FLOORS

SHALLOW FLOOR BOXES



Trim:
For a perfect finish (optional).

Cover:
Customisable to match the floor covering (carpeting, parquet,…). With 3 positions for opening and 2 separate cable adapter rubbers.

Versatile pre-punchings:
The mechanism holders have pre-punched holes for 20mm and 25mm pipes and a space for passing Voice and Data patch cords.

Shallow:
Optimum solution for shallow floors.

Mechanism holder:
Plug&Play mechanism holder module that allows quick and easy installation.

Ground tray:
For installations in concrete floors (not need on false floor installation).

Blends in with in any space

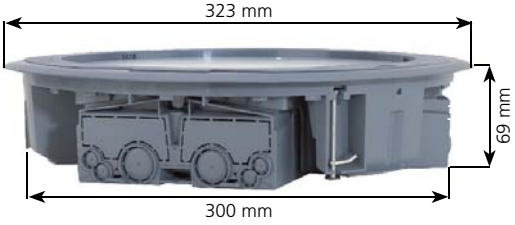
The angled mechanisms make it possible to close the cover with the box connected to conceal the connections.

Compatible with superior voice and data categories

Thanks to the vertical position of the mechanisms and to the pre-punched entry holes, bending of patch cords for Voice and Data and Multimedia is not required.

Shallow

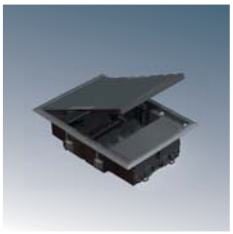
The ideal solution for shallow floors, either solid or raised.



Adaptable to changes in the office

Thanks to the 2 separate cable outlets and the possibilities for assembling the cover, it can be adapted to different furniture positions.
(Ref. 52050203-035)

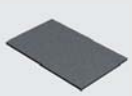
SHALLOW FLOOR BOXES



Square Floor Box

52050202 -035 2 modules

Cover 0 Optional



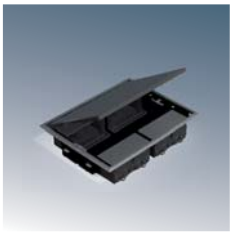
52053202 -035

Circular Floor Box

52050203 -035 3 modules

Cover 0 Optional

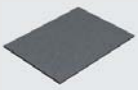
52053203 -035



Square Floor Box

52050204 -035 4 modules

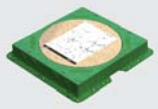
Cover 0 Optional



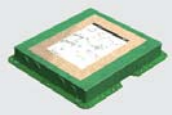
52053204 -035

Ground trays

G201
For reference
52050202-035



G301C
For reference
52050203-035



G401
For reference
52050204-035

Configuration example - Installation in concrete floors

	Qty.	Ref./Finish	Description
Enclosure	1	**52050203-035**	Shallow circular floor box for 3 modules, grey
	1	**52053203-035**	Cover for shallow circular floor box for 3 modules, grey
	1	**G301C**	Tray for shallow circular floor box for 3 modules, grey
Electrical sockets and plates	1	**50010432-038**	Double Schuko socket, 1 click connection system with LED, graphite
	1	**50010432-037**	Double Schuko socket, 1 click connection system with LED, red
	2	**50001089-038**	Flat V&D plate with dust protector with 2 cat. 6A RJ45, graphite

Technical details
See page 154

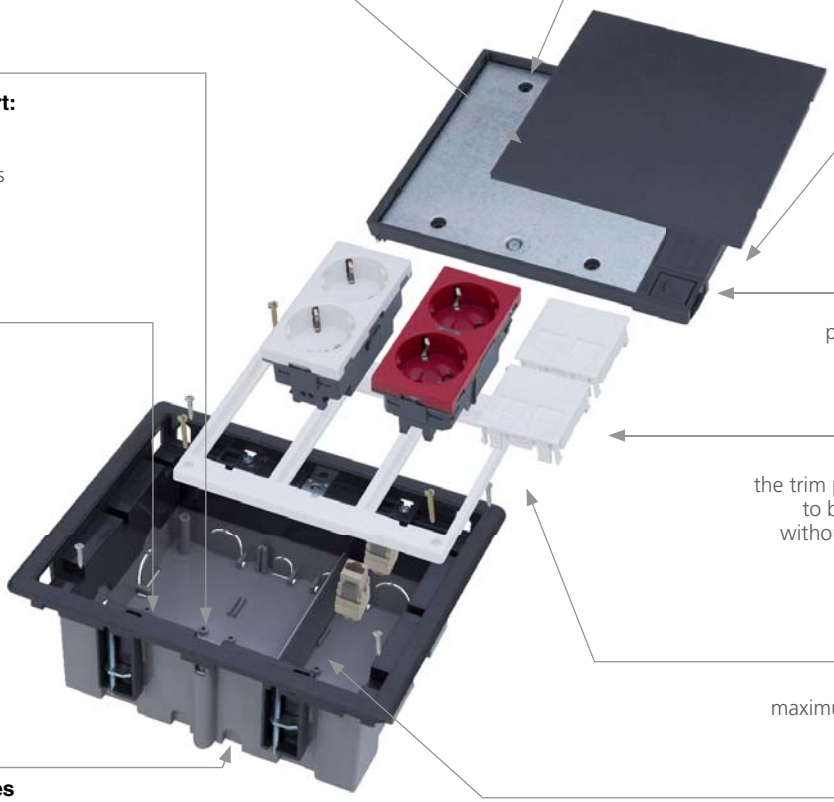
ADJUSTABLE FLOOR BOXES

Space for installing finish: the cover provides 6 mm for the cover, carpet, parquet or other finishes

Safety stop: to provide stronger cover rigidity

DIN guide support: prepared for the installation of protection elements

Cable inlet slot cover protects and allows the passage of connection cables



Protective foam: protects against the entrance of dust and small objects

Flange opening: allows fastening of tubes and cables using flanges

Maintenance: the trim plates allow the connections to be maintained and inspected without having to remove the box

Screw-fastenings: maximum strength of the assembly

Pre-punched holes for tube entry: present around the entire perimeter

Metal divider plate: guarantees the electromagnetic immunity of the Voice, Data and Multimedia (VDM) installation.

Pre-punched holes for tube access:

Two tube-inlet sizes
Ø 20 mm and
Ø 26 mm.

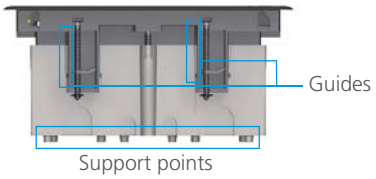
Adjustable mechanism-protection tray

Available in 2 different depths:

Concrete floors 70 mm adjustable to 100 mm

Raised flooring 90 mm adjustable to 120 mm

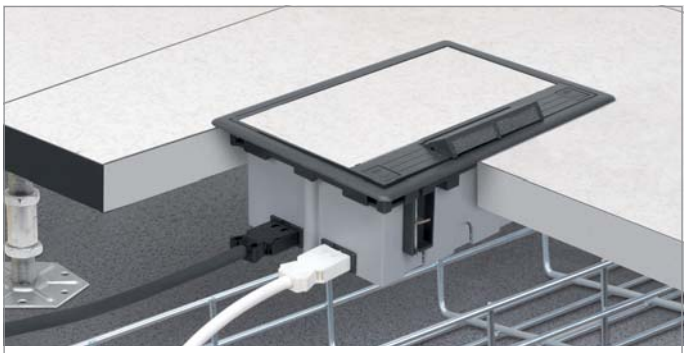
Greater stability



The tray guarantees the stability of the installation thanks to the support points and levelling guides.

Connection of angled and straight plugs, as well as chargers for cell phones, PDAs, etc.

Maximum connection space



Blends in fully with its surroundings.

Perfect finishes.

The CIMA Range is evolving to meet the future. Makes it possible to include two quick-connection connectors for installation in raised flooring. Refs. 52050104 and 52050106

Maximum safety

Protected opening system. The box can only be opened by pulling both opening clips at the same time.

Fastening clips:

No junction box is required for installing floor boxes in raised flooring. The floor box attaches to the tiling by means of self-positioning metal fastening clips.

ADJUSTABLE PLASTIC GROUND TRAY

For installing floor boxes or junction boxes in concrete floors.

Levelling screw allows levelling before installing

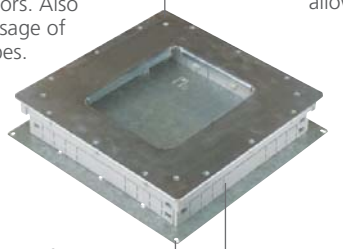
Fastening Housing for screws for fastening to the floor

Pre-punched holes for tube entry

ADJUSTABLE METAL GROUND TRAY

For installation of floor boxes or junction boxes in concrete floors. Also allows the passage of cables and tubes.

Levelling screw allows levelling before installation



Fastening Housing for screws for fastening to the floor

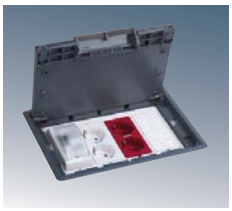
Pre-punched holes for tube entry

With all necessary materials

The complete floor box is supplied with a metal divider plate, mechanism-holder frame, connection cable to the earth connection and all necessary hardware.

INSTALLATION IN RAISED FLOORING - DEPTH ADJUSTABLE FROM 90 MM TO 120 MM

KITS

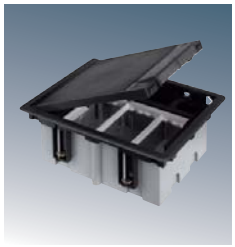


52006402 **-030**	UPS 4-Module Kit with 1 plate for automatic breaker or differential, 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 4 RJ45

Trim cover and plastic tray not included.

kits assembled and cabled

Floor boxes

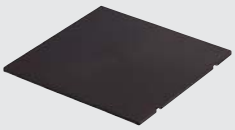


Floor box

52050101 **-035** **-038**	1 module
52050102 **-035** **-038**	2 modules
52050103 **-035** **-038**	3 modules
52050104 **-035** **-038**	4 modules
52050106 **-035** **-038**	6 modules

Trim cover for flush-mounting

0 Optional



52053101 **-035** **-038**	1 module
52053102 **-035** **-038**	2 modules
52053103 **-035** **-038**	3 modules
52053104 **-035** **-038**	4 modules
52053106 **-035** **-038**	6 modules

Accessories

Built-in mechanism-holder frame

Simon floor boxes include the mechanism-holder frame in **-030**

Frame also available in **-038**

0 Optional

Mechanism-holder frame

52051801 **-038**	1 module
52051802 **-038**	2 modules
52051803 **-038**	3 modules
52051804 **-038**	4 modules

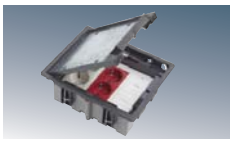
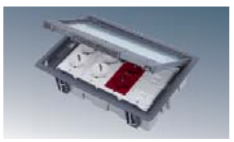
Replacement parts

Hinged cover

RSF001 **/1** **/14**	1 module
RSF002 **/1** **/14**	2 modules
RSF003 **/1** **/14**	3 modules
RSF004 **/1** **/14**	4 modules
RSF006 **/1** **/14**	6 modules

INSTALLATION IN CONCRETE FLOORS - DEPTH ADJUSTABLE FROM 70 MM TO 100 MM

KITS

52006301 -030 3-Module Kit with 2 cabled double Schuko sockets and 2 V&D plates for 2 RJ45

Can be installed in a Raised floor
Trim cover and plastic tray not indluded

52006302 -030 UPS 3-Module Kit with 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 2 RJ45

Can be installed in a Raised floor
Trim cover and plastic tray not indluded

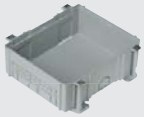
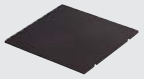
52006401 -030 Kit 4-Module Kit with 2 cabled double Schuko sockets, 1 red double Schuko socket and 2 V&D plates for 4 RJ45

Can be installed in a Raised floor
Trim cover and plastic tray not indluded

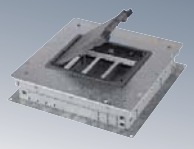
kits assembled and cabled

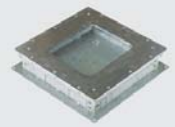
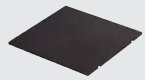
Floor boxes

With plastic tray (End connection)

Plastic tray	Floor box	Trim cover for flush-mounting (0 Optional)
		
52052101 -035 1 module	52050001 -035 -038 1 module	52053101 -035 -038 1 module
52052102 -035 2 modules	52050002 -035 -038 2 modules	52053102 -035 -038 2 modules
52052103 -035 3 modules	52050003 -035 -038 3 modules	52053103 -035 -038 3 modules
52052104 -035 4 modules	52050004 -035 -038 4 modules	52053104 -035 -038 4 modules
52052106 -035 6 modules	52050006 -035 -038 6 modules	52053106 -035 -038 6 modules

With metal tray (For making junctions)



Metal tray	Floor box	Trim cover for flush-mounting (0 Optional)
		
52052203 -033 3 modules	52050003 -035 -038 3 modules	52053103 -035 -038 3 modules
52052204 -033 4 modules	52050004 -035 -038 4 modules	52053104 -035 -038 4 modules
52052206 -033 6 modules	52050006 -035 -038 6 modules	52053106 -035 -038 6 modules

A plastic or metal tray must be used for installation in concrete floors

Use of the plastic tray: All the space in the tray is filled with the floor box. The cables enter through a corrugated tube.

Use of the metal tray: A space must be left between the floor box and the tray to allow the passage of cables or tubes.

Cable entry is through floor trunking.

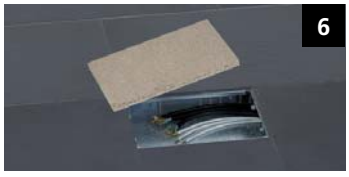
1 Cut the trunking entries

2 Insert the trunking and screw to floor

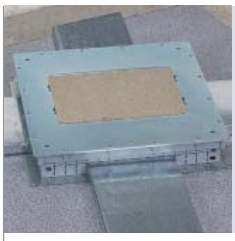
3 Level with the screws

4 Cement

5 Place the module


6 Remove the protective cover

Technical details
See page 155



JUNCTION BOXES

Accessible space

Junction boxes provide an accessible space through which the cables or connections of the installation can be accessed.

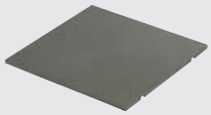
INSTALLATIONS IN RAISED FLOORING

Junction box cover

Space equivalent to

52054101 -035 -038	1 module
52054102 -035 -038	2 modules
52054103 -035 -038	3 modules
52054104 -035 -038	4 modules
52054106 -035 -038	6 modules

Trim cover for flush-mounting



Space equivalent to

52053101 -035 -038	1 module
52053102 -035 -038	2 modules
52053103 -035 -038	3 modules
52053104 -035 -038	4 modules
52053106 -035 -038	6 modules

Junction box cover in raised flooring

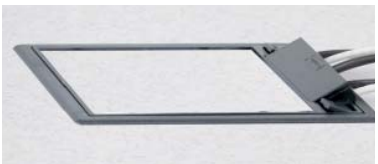
Installing the junction box covers in raised flooring creates an access point to the inside of the installation.

Cable outlet for raised flooring (Ø 102 mm)

52055000 -030 -033 -038

Allows cables to pass from the raised floor to the surface.
When closed, it prevents dust and other elements from entering.

Confirmation example - raised flooring

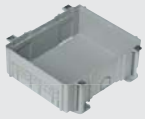


	Qty.	Ref./Finish	Description
Enclosure	1	52054103-038	Junction box cover equivalent to 3 modules, graphite.

INSTALLATIONS IN CONCRETE FLOORS

Plastic junction boxes - depth adjustable from 80 to 110 mm

Plastic tray



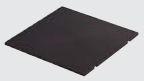
Space equivalent to	
52052101 -035	1 module
52052102 -035	2 modules
52052103 -035	3 modules
52052104 -035	4 modules
52052106 -035	6 modules

Junction box cover

Space equivalent to	
52054101 -035 -038	1 module
52054102 -035 -038	2 modules
52054103 -035 -038	3 modules
52054104 -035 -038	4 modules
52054106 -035 -038	6 modules

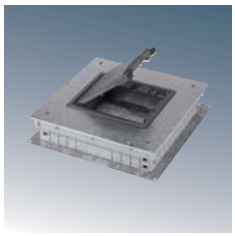
Trim cover for flush-mounting

0 Optional

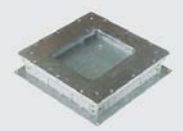


Space equivalent to	
52053101 -035 -038	1 module
52053102 -035 -038	2 modules
52053103 -035 -038	3 modules
52053104 -035 -038	4 modules
52053106 -035 -038	6 modules

METAL JUNCTION BOXES - DEPTH ADJUSTABLE FROM 75 TO 90 MM



Metal tray



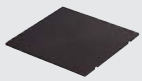
Space equivalent to	
52052203 -033	3 modules
52052204 -033	4 modules
52052206 -033	6 modules

Junction box cover

Space equivalent to	
52054103 -035 -038	3 modules
52054104 -035 -038	4 modules
52054106 -035 -038	6 modules

Trim cover for flush-mounting

0 Optional



Space equivalent to	
52053103 -035 -038	3 modules
52053104 -035 -038	4 modules
52053106 -035 -038	6 modules

Configuration example - Installation in concrete floors

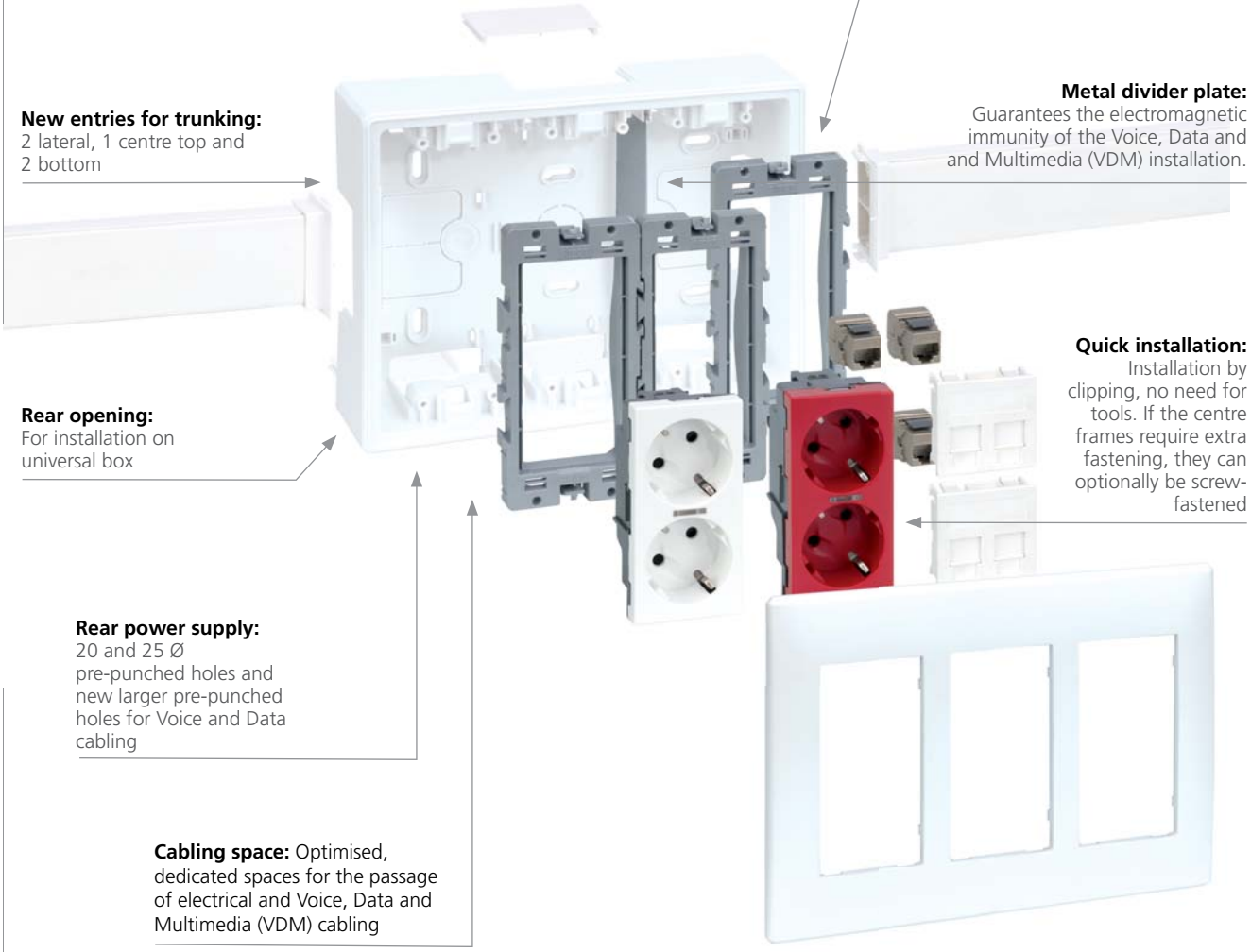
	Qty.	Ref./Finish	Description
Enclosure	1	52052203-033	Metal Tray 3 modules
	1	52054103-038	Junction box cover 3 modules, graphite
	1	52053103-038	Trim cover for flush-mounting for floor box 3 modules, graphite

Technical details
See page 158

SURFACE WALL BOXES

50% faster Installation

Surface Installation



System of interlinked centre frames: Allow independent installation of electrical and Voice and Data circuits

Metal divider plate: Guarantees the electromagnetic immunity of the Voice, Data and and Multimedia (VDM) installation.

New entries for trunking: 2 lateral, 1 centre top and 2 bottom

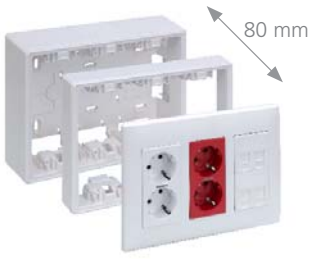
Quick installation: Installation by clipping, no need for tools. If the centre frames require extra fastening, they can optionally be screw-fastened

Rear opening: For installation on universal box

Rear power supply: 20 and 25 Ø pre-punched holes and new larger pre-punched holes for Voice and Data cabling

Cabling space: Optimised, dedicated spaces for the passage of electrical and Voice, Data and Multimedia (VDM) cabling

Depth Extender



New accessory for achieving the deepest box on the market: 80 mm to maintain an optimum curvature radius.

Protective cover with key

Frames complete with cover for concealing, protecting and restricting access to connections. Optional cylinder lock and key.

Expandable

The boxes can be interlinked to increase the number of modules.
Box linker ref. **51040905-030**.

Kits

kits assembled and cabled

2 modules

51000201 -030 -033 -038	Electrical Kit with 2 double Schuko sockets with electrical linker
51000202 -030 -033 -038	Retail Kit with 1 double Schuko socket and 2 V&D plates for 2 RJ45
51000203 -030 -033 -038	UPS Multifunction Kit with 1 red double Schuko socket and 2 V&D plates for 2 RJ45

3 modules

51000301 -030 -033 -038	Workstation Kit with 2 double Schuko sockets with electrical linker and 2 V&D plates for 2 RJ45
51000302 -030 -033 -038	UPS Workstation Kit with 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 2 RJ45
51000303 -030 -033 -038	Workstation Kit WITH COVER with 2 double Schuko sockets with electrical linker and 2 V&D plates for 2 RJ45
51000304 -030	UPS Workstation Kit WITH COVER with 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 2 RJ45

4 modules

51000401 -030	Complete UPS Workstation Kit with 2 double Schuko sockets with electrical linker, 1 red double Schuko socket and 2 V&D plates for 4 RJ45
51000403 -030	Complete UPS Workstation Kit with 1 double Schuko socket, 2 red double Schuko sockets with electrical linker and 2 V&D plates for 4 RJ45

Surface wall box socket

51050002 -030 -033 -038	2 modules
51050003 -030 -033 -038	3 modules
51050004 -030	4 modules

Surface wall boxes

51000001 -030 -033 -038	1 module
51000002 -030 -033 -038	2 modules
51000003 -030 -033 -038	3 modules
51000004 -030 -033 -038	4 modules
51000006 -030 -033 -038	6 modules

Surface wall boxes with cover

51040003 -030 -033 -038	3 modules
51040004 -030 -033 -038	4 modules

Accessories

Depth Extender

51030903 -030 -033 -038 3 modules
51030904 -030 -033 -038 4 modules

51040905 -030
Box linker

51040900 -033
Cylinder lock and key for surface and flush-mount box cover

Adapters for trunking and tube entry

51010900 -030
Adapter for 20x30mm Mini-trunking

51020900 -030
Adapter for 20x50 mini-trunking

51030900 -030
Cover for Ø 22 mm tube or cable seal

Replacement parts

Centre frame
50000801-039

Technical details
See page 151

FLUSH-MOUNT WALL BOXES

50% faster Installation

Flush-mount Installation

Optional fastening: Inlets for extra fastening using silicone

Translucent box: Makes it possible to view the passage of tubes and cables

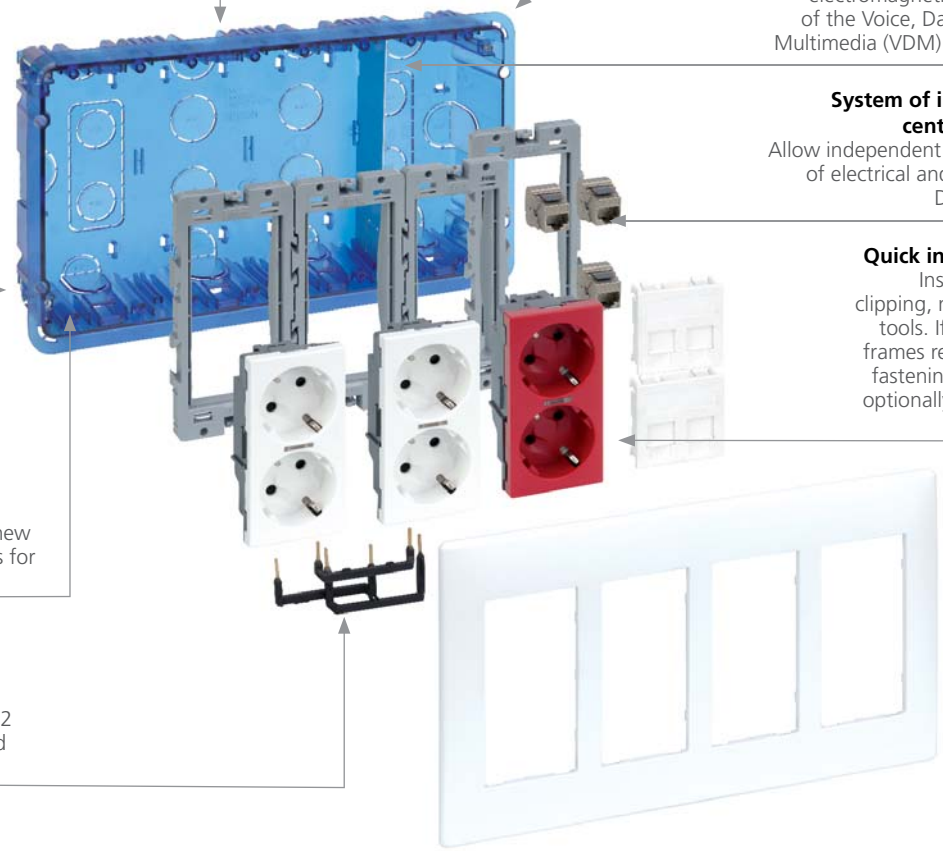
Metal divider plate: Guarantees the electromagnetic immunity of the Voice, Data and and Multimedia (VDM) installation

Metal fastening clips: For tighter fastening and greater strength

System of interlinked centre frames: Allow independent installation of electrical and Voice and Data circuits

For any type of wall: The same box in a wall or partition

Quick installation: Installation by clipping, no need for tools. If the centre frames require extra fastening, they can optionally be screw-fastened



Rear power supply: 20 and 25 Ø pre-punched holes and new larger pre-punched holes for Voice and Data cabling

Electrical linker: Makes it possible to link 2 sockets without the need for cabling

More possibilities

The flush-mount box can be used as a template during installation.

Depth Extender

New accessory for achieving the deepest box on the market: 80 mm. The box is semi-flush.

Protective cover with key

Frames with cover for concealing, protecting and restricting access to connections. Optional cylinder lock and key.

Accessories

Depth Extender

51030903 -030 -033 -038 3 modules

51030904 -030 -033 -038 4 modules

51040900 -033

Cylinder lock and key for surface and flush-mount box cover

Replacement parts

Centre frame

50000801-039

KITS

2 modules

51000201 -030 -033 -038	Electrical Kit with 2 double Schuko sockets with electrical linker
51000202 -030 -033 -038	Retail Kit with 1 double Schuko socket and 2 V&D plates for 2 RJ45
51000203 -030 -033 -038	UPS Multifunction Kit with 1 red double Schuko socket and 2 V&D plates for 2 RJ45

kits assembled and cabled

3 modules

51000301 -030 -033 -038	Workstation Kit with 2 double Schuko sockets with electrical linker and 2 V&D plates for 2 RJ45
51000302 -030 -033 -038	UPS Workstation Kit with 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 2 RJ45
51000303 -030 -033 -038	Workstation Kit WITH COVER with 2 double Schuko sockets with electrical linker and 2 V&D plates for 2 RJ45
51000304 -030	UPS Workstation Kit WITH COVER with 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 2 RJ45

Flush-mount box

51020102-039	2 modules
51020103-039	3 modules
51020104-039	4 modules

4 modules

51000401 -030	Complete UPS Workstation Kit with 2 double Schuko sockets with electrical linker, 1 red double Schuko socket and 2 V&D plates for 4 RJ45
51000403 -030	Complete UPS Workstation Kit with 1 double Schuko socket, 2 red double Schuko sockets with electrical linker and 2 V&D plates for 4 RJ45

FLUSH-MOUNT WALL BOXES

Flush-mount box

51020101-039	1 module
51020102-039	2 modules
51020103-039	3 modules
51020104-039	4 modules
51020106-039	6 modules

Frame and centre frames

51010101 -030 -033 -038	1 module
51010102 -030 -033 -038	2 modules
51010103 -030 -033 -038	3 modules
51010104 -030 -033 -038	4 modules
51010106 -030 -033 -038	6 modules

FLUSH-MOUNT WALL BOXES WITH COVER

Flush-mount box

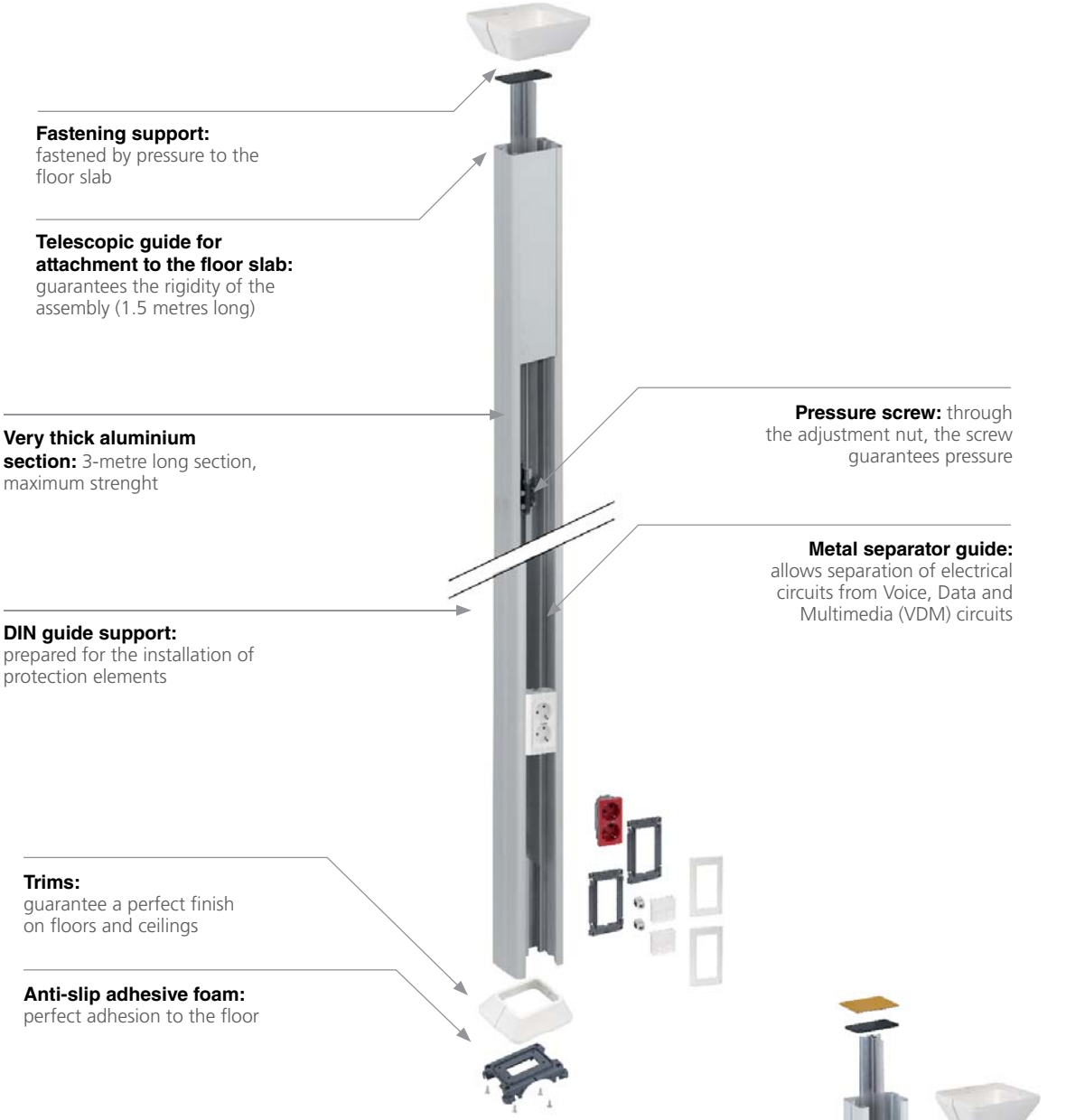
51020103-039	3 modules
51020104-039	4 modules

Frame with cover and centre frames

51040103 -030 -033 -038	3 modules
51040104 -030 -033 -038	4 modules

Technical details
See page 153

COLUMNS



Fastening

Easy fastening system by pressure.

With all necessary materials

The Column is supplied with a base, trim, telescoping guide, support for fastening to the ceiling, set screw, fixing plugs, connection cable to the earth connection, non-slip adhesive foam and all necessary hardware.

Columns (including base and trims for floors and ceilings)

1 Face

53550101 -030 -033	Column, 1 face, 3 m

Column extender, 1 face
(Includes connector pins)

53555101 -030 -033	0.5-m extender
53555102 -030 -033	1.0-m extender
53555103 -030 -033	1.5-m extender

2 Faces

53550201 -030 -033	Column, 2 faces, 3 m

Column extender, 2 faces
(Includes connector pins)

53555201 -030 -033	0.5-m extender
53555202 -030 -033	1.0-m extender
53555203 -030 -033	1.5-m extender

Replacement parts

Base
52551803 -038 1 face
52551804 -038 2 faces

Trim
52551801 -030 -038 1 face
52551802 -030 -038 2 faces

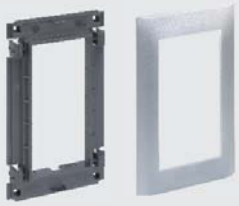
3-m Front Cover
52551807 -030 -033

Mechanism housing

In two-colour columns, we recommend installing frames and mechanisms in finish -038 or -033

In white columns, we recommend installing frames and mechanisms in finish -030

Mechanism adaptation



52550900 -030 -038 -033	Centre Frame and Frame, 1 Module

Simon Universal Mechanisms

Universal box
AL50

Configuration example

	Qty.	Ref./Finish	Description
Enclosure	1	53550101-033	Column, 1 face, aluminium-graphite
	3	52550900-038	Centre frame and frame, graphite
Electrical sockets and plates	1	50010432-037	Double Schuko socket, 1 click connection system with LED, red
	1	50010432-038	Double Schuko socket, 1 click connection system with LED, graphite
	2	50001086-038	Flat V&D plate with dust protector with 2 cat. 6A RJ45, white

Technical details
See page 160

MINI-COLUMNS

Top cover: optimises the finish

Very thick aluminium section: maximum strenght

Floor trim: covers the joints between the section and the base

Base: allows screw fastening to the floor

Anti-slip adhesive foam: perfect adhesion to the floor

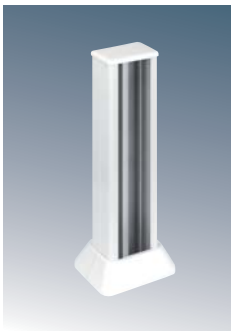
Plates are installed directly on the centre frame and trim frame

DIN Support Guide: prepared for installing protection elements

With all necessary materials

The Mini-column is supplied with a base, trim, end cover, fixing plugs, connection cable to the earth connection, non-slip adhesive foam and all necessary hardware.

Mini-columns (include trim, base and top cover)



1 Face

52550112	-030 -033	2 modules
52550113	-030 -033	3 modules
52550114	-030 -033	4 modules
52550115	-030 -033	5 modules

2 Faces

52550222	-030 -033	2 modules per face
52550223	-030 -033	3 modules per face
52550224	-030 -033	4 modules per face
52550225	-030 -033	5 modules per face

Replacement parts

52551803 -038 (1 face)
52551804 -038 (2 faces)
Input base for 85x18-mm floor trunking

52551801 -030 -038 (1 face)
52551802 -030 -038 (2 faces)
Trim for columns and mini-columns

52551805 -030 -038 (1 face)
52551806 -030 -038 (2 faces)
Mini-column top cover:

Mini-columns in **-033** are supplied with cover and trim in graphite.

Mechanism adaptation

52550900 -030 -033 -038 Centre Frame and Frame, 1 module

Mechanism housing

In white mini-columns, we recommend installing frames and mechanisms in finish **-030**

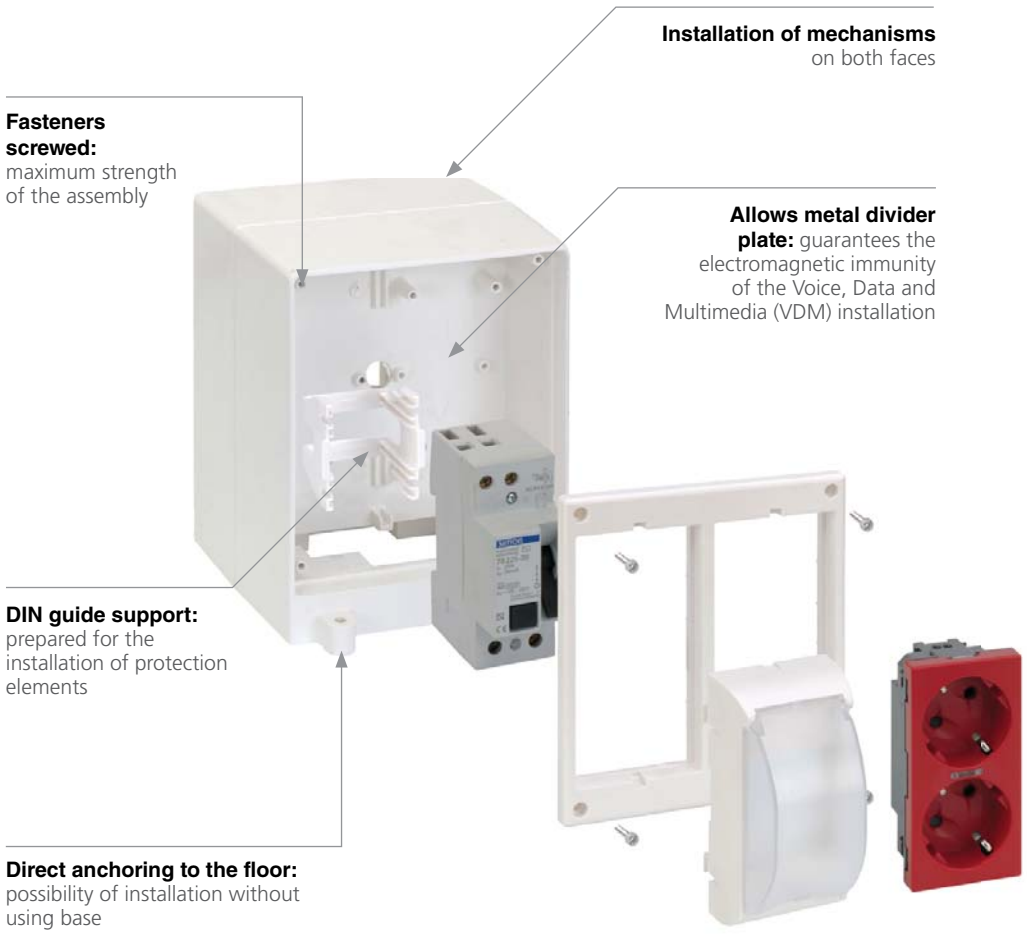
In two-colour mini-columns, we recommend installing frames and mechanisms in finish **-033** or **-038**

Configuration example

	Qty.	Ref.-Finish	Description
Enclosure	1	**52550113-033**	Mini-column, 1 face and 3 modules, aluminium-graphite
	3	**52550900-038**	Centre frame and frame, graphite
Electrical sockets and plates	1	**50010432-037**	Double Schuko socket, 1 click connection system with LED, red
	2	**50001089-038**	Flat V&D plate with dust protector with 2 cat. 6A RJ45, graphite
	1	**50002075-038**	Plate with 30mA differential, graphite

Technical details
See page 160

MINI-TOWERS



Compact

Compact, robust design for connectivity in minimum space.

With all necessary materials

The mini-tower is supplied with a metal divider plate, fixing plugs, connection cable to the earth connection, non-slip adhesive foam and all necessary hardware.

TOWERS

52550204 **-030** Mini-tower, 2 modules per face

52554204 **-030** Inlet bases for 85x18-mm floor trunking 1 face

UNDER-FLOOR POWER SUPPLY

CABLES FLUSH-MOUNTED OR UNDER RAISED FLOORING

In this type of installation, the mini-tower does not require a base.

Configuration example

Front face

Rear face

	Qty.	Ref./Finish	Description
Enclosure	1	**52550204-030**	Mini-tower, 2 modules per face
Electrical sockets and plates	3	**50010432-030**	Double Schuko socket, 1 click connection system with LED, white
	2	**50001089-030**	Flat V&D plate with dust protector with 2 cat. 6A RJ45, white

POWER SUPPLY THROUGH FLOOR TRUNKING

THE BASE MAKES IT POSSIBLE TO SUPPLY THE MINI-TOWER BY MEANS OF THE 85x18 DCS FLOOR TRUNKING

Configuration example

Front face

Rear face

See DCS trunking in page 114

	Qty.	Ref./Finish	Description
Enclosure	1	**52550204-030**	Mini-tower, 2 modules per face
	1	**52554204-030**	Input base for floor trunking, 1 85x18-mm face
Electrical sockets and plates	2	**50010432-037**	Double Schuko socket, 1 click connection system with LED, red
	4	**50001085-030**	Flat V&D plate with dust protector with 1 cat. 6A RJ45, white
Access trunking	2	**TF11172/8**	85x18 DCS floor trunking (length according to the installation), aluminium

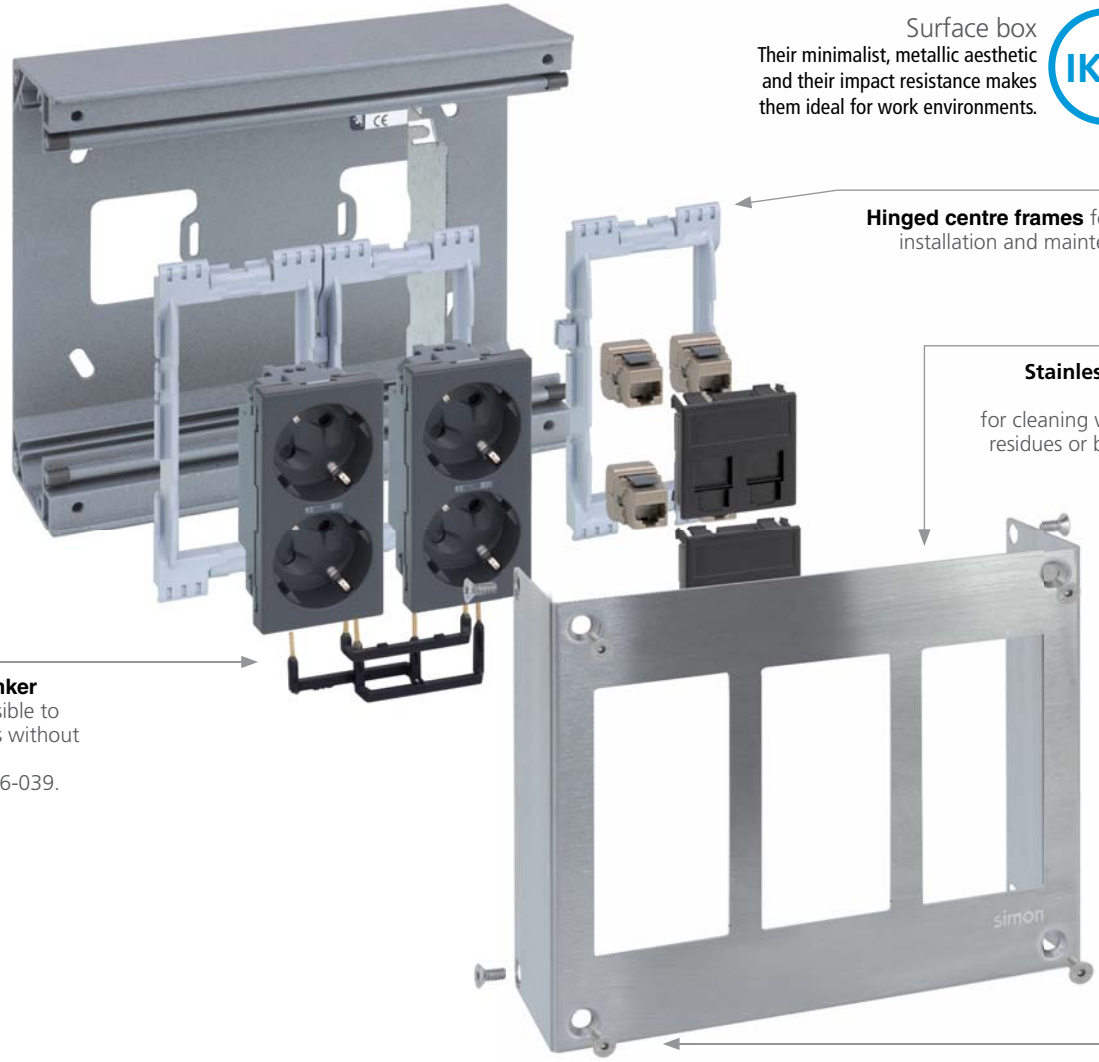
CIMA BOX SIMON TRUNKING

Technical details
See page 159

METAL ENCLOSURES. SURFACE BOXES

Surface box
Their minimalist, metallic aesthetic and their impact resistance makes them ideal for work environments.

IK10



Hinged centre frames for easy installation and maintenance

Aluminium box

Stainless steel frame
for cleaning without residues or bacteria

Electrical linker
makes it possible to link 2 sockets without cabling
ref. 50000996-039.
See page 39

Frame fastening
using 8 stainless steel Allen screws

Assembly

V&D.
Respects the curvature radius of V&D cables.
With a box depth of 57 mm.

Hinged centre frames.
Allow simpler installation and more comfortable maintenance.

Optional protective cover with key.

Its flat aesthetics make it possible to restrict access to connections.

KITS

kits assembled and cabled

51001301 -036	3-Module Kit with 2 double Schuko sockets with electrical linker and 2 V&D plates for 2 RJ45
51001302 -036	UPS 3-Module Kit with 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 2 RJ45
51001401 -036	UPS 4 Heights Kit 1 Face with 1 double Schuko socket, 2 red double Schuko sockets with electrical linker and 2 V&D plates for 4 RJ45

SURFACE BOXES

51000011 -036	1 modules
51000012 -036	2 modules
51000013 -036	3 modules
51000014 -036	4 modules
51000016 -036	6 modules

Accessories

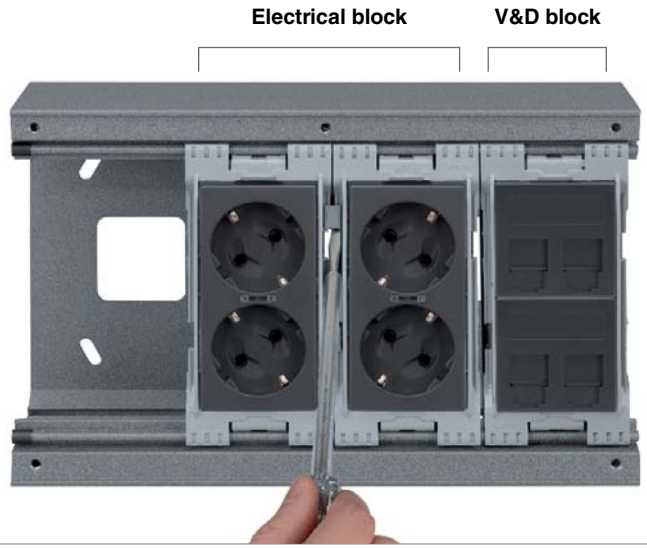
Protective covers

Protective cover with cylinder lock for surface boxes with 3 and 4 modules.

51040013 -036
51040014 -036

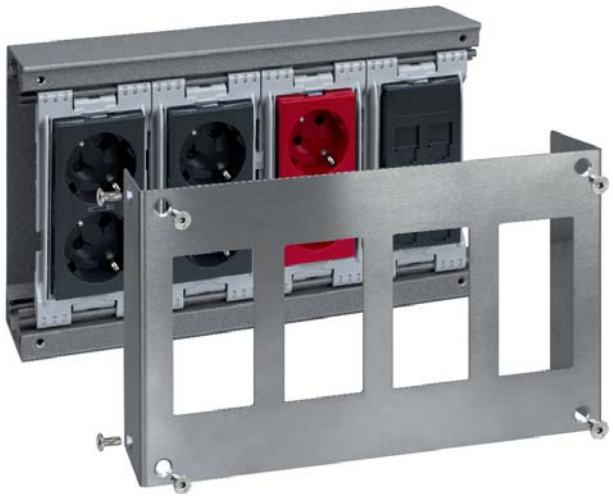
Independent electrical and V&D circuits.

The centre frames snap to the section and form blocks using interlinked parts, thereby separating the electrical part from the V&D part.



Fastening to the frame.

Using 8 stainless steel Allen screws that add safety.
An Allen wrench is necessary for disassembly.



Configuration example

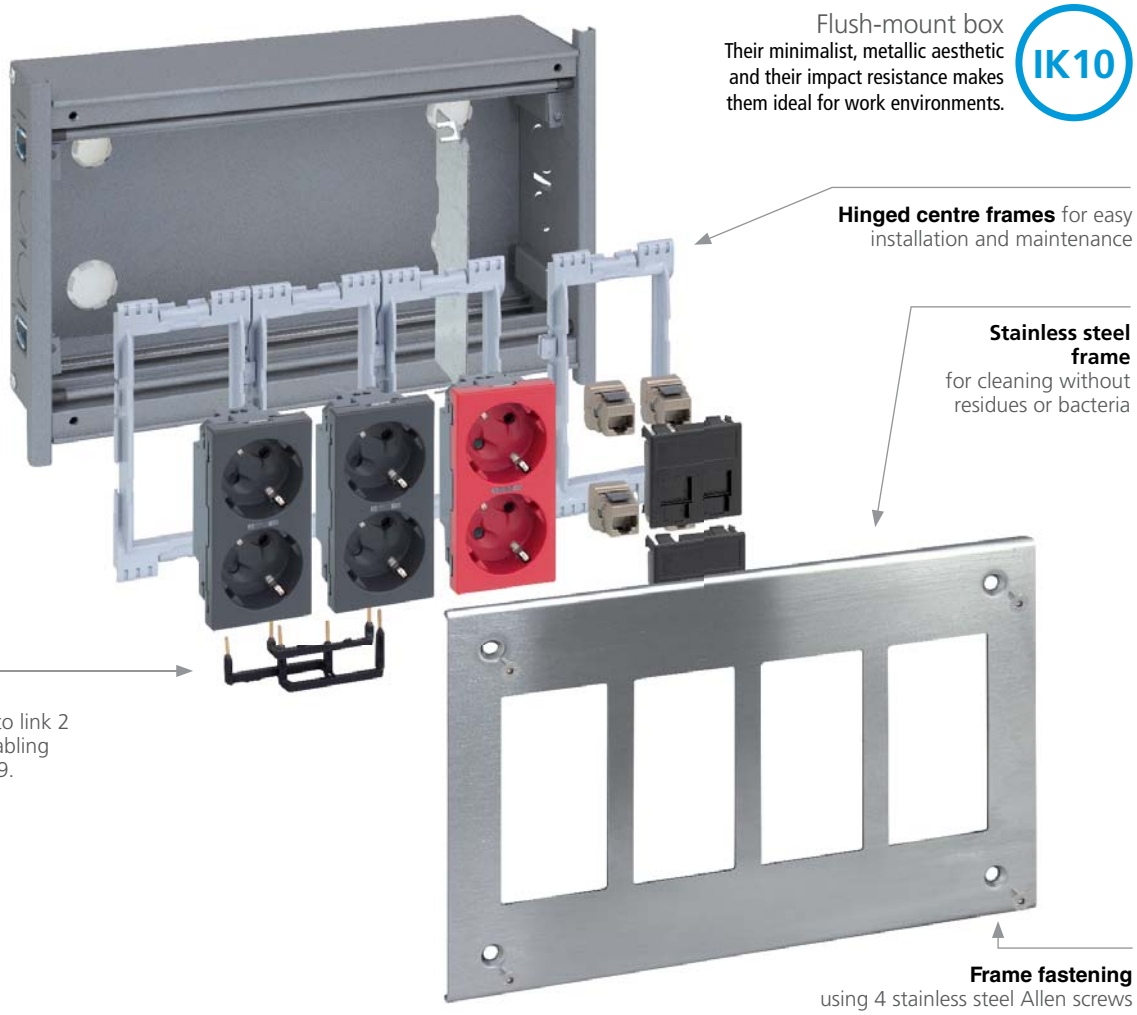
	Qty.	Ref./Finish	Description
Enclsoure	1	**51000013-036**	Metal surface wall box for 3 modules.
Electrical sockets and plates	1	**50010432-038**	Double Schuko socket, 1 click connection system with LED, graphite
	1	**50010432-037**	Double Schuko socket, 1 click connection system with LED, red
	2	**50001089-038**	Flat V&D plate with dust protector with 2 cat. 6A RJ45, graphite

Technical details
See page 162

METAL ENCLOSURES. FLUSH-MOUNT BOXES

Flush-mount box
Their minimalist, metallic aesthetic and their impact resistance makes them ideal for work environments.

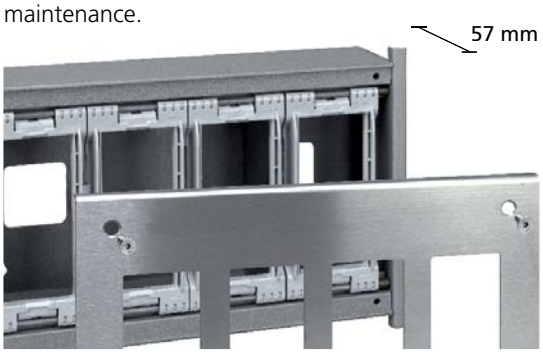
IK10



Assembly

V&D.
Respects the curvature radius of V&D cables.
With a box depth of 57 mm.

Hinged centre frames.
Allow simpler installation and more comfortable maintenance.



Optional protective cover with key.

Its flat aesthetics make it possible to restrict access to connections.

KITS

kits assembled and cabled

51002301 -036	3-Module Kit with 2 double Schuko sockets with electrical linker and 2 V&D plates for 2 RJ45
51002302 -036	UPS 3-Module Kit with 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 2 RJ45
51002401 -036	UPS 4 Heights Kit 1 Face with 1 double Schuko socket, 2 red double Schuko sockets with electrical linker and 2 V&D plates for 4 RJ45

FLUSH-MOUNT BOXES

51000111 -036	1 modules
51000112 -036	2 modules
51000113 -036	3 modules
51000114 -036	4 modules
51000116 -036	6 modules

Accessories

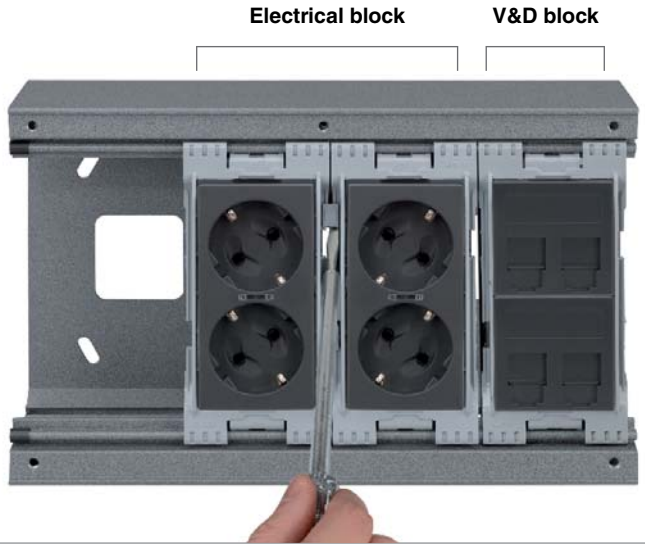
Protective covers

Protective cover with cylinder lock for surface boxes with 3 and 4 modules.

51040013 -036
51040014 -036

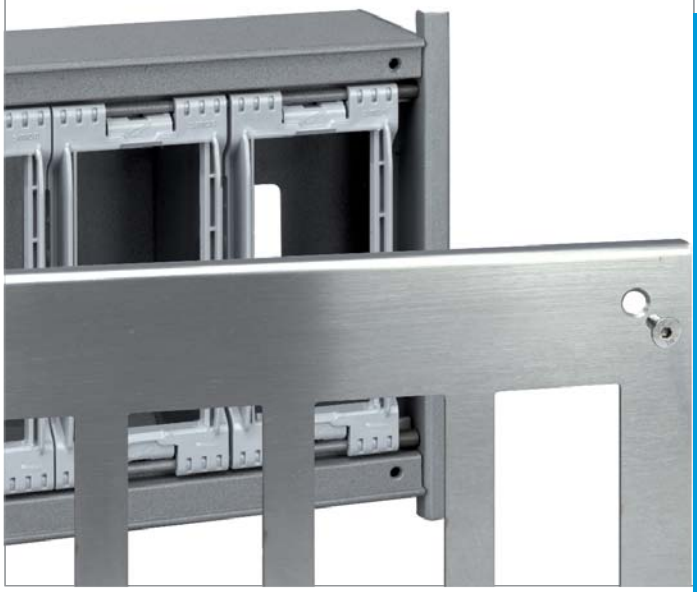
Independent electrical and V&D circuits.

The centre frames snap to the section and form blocks using interlinked parts, thereby separating the electrical part from the V&D part.



Metal box.

Metal flush-mount box to protect the signal from electromagnetic waves.



Configuration example

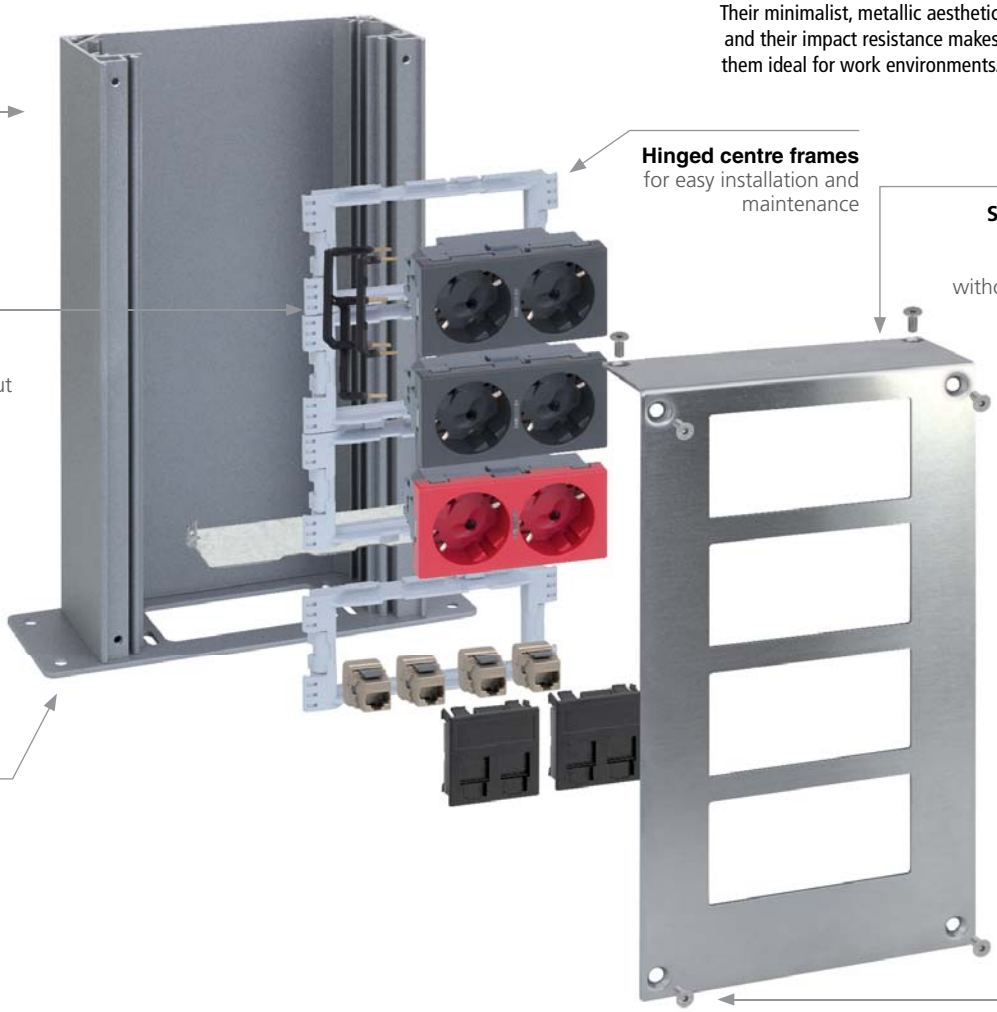
	Qty.	Ref./Finish	Description
Enclosure	1	**51000113-036**	Metal flush-mount wall box for 3 modules.
Electrical sockets and plates	1	**50010432-038**	Double Schuko socket, 1 click connection system with LED, graphite
	1	**50010432-037**	Double Schuko socket, 1 click connection system with LED, red
	2	**50001089-038**	Flat V&D plate with dust protector with 2 cat. 6A RJ45, graphite

Technical details
See page 163

METAL ENCLOSURES. TOWERS

Mini-tower
Their minimalist, metallic aesthetic and their impact resistance makes them ideal for work environments.

IK10



Aluminium mini-tower

Electrical linker
makes it possible to link 2 sockets without cabling
ref. 50000996-039.
See page 39

Hinged centre frames
for easy installation and maintenance

Stainless steel frame
for cleaning without residues or bacteria

Direct anchoring

Frame fastening
using 6 stainless steel Allen screws

Mini-tower
Ideal for installation in public areas and offices, they can include a metal protective cover with a cylinder lock to avoid tampering.

Tube or trunking entry.
Possibility of creating custom tube and trunking inlets according to the needs of the installation.

KITS

kits assembled and cabled

52516301 -036	3-Heights Kit 1 Face with 2 double Schuko sockets with electrical linker and 2 V&D plates for 2 RJ45
52516302 -036	UPS 3-Heights Kit 1 Face with 1 double Schuko socket, 1 red double Schuko socket and 2 V&D plates for 2 RJ45
52516401 -036	UPS 4 Heights Kit 1 Face with 1 double Schuko socket, 2 red double Schuko sockets with electrical linker and 2 V&D plates for 4 RJ45

TOWERS

1 Face

52510212 -036	2 modules
52510213 -036	3 modules
52510214 -036	4 modules
52510215 -036	5 modules

2 Faces

52510222 -036	2 modules per face
52510223 -036	3 modules per face
52510224 -036	4 modules per face

Accessories

Protective cover

Protective cover with cylinder lock for 4-module mini-tower.
52513214 -036

1 face.

Its design allows installation joined to furniture, occupying the minimum space.

Direct anchoring.

Allows direct anchoring to floor without the need for plinths.

Installation base included.

Configuration example

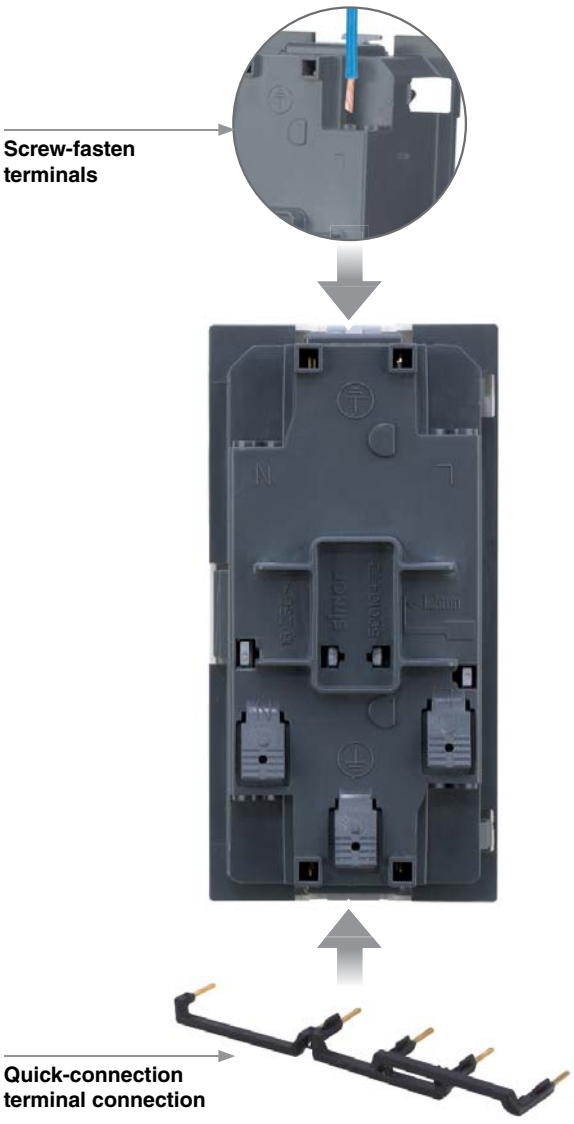
	Qty.	Ref./Finish	Description
Enclosure	1	**52510213-036**	Mini-tower, 3 modules, 1 face
Electrical sockets and plates	1	**50010432-038**	Double Schuko socket, 1 click connection system with LED, graphite
	2	**50010432-037**	Double Schuko socket, 1 click connection system with LED, red
	2	**50001089-038**	Flat V&D plate with dust protector with 2 cat. 6A RJ45, graphite

Technical details
See page 163

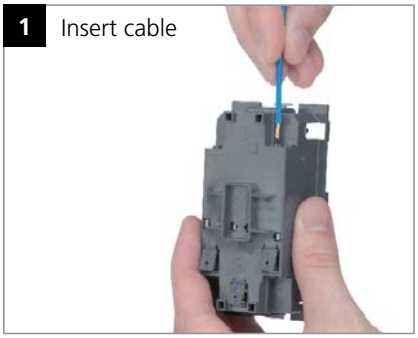
ELECTRICAL SOCKETS

1-click connection system for socket installation

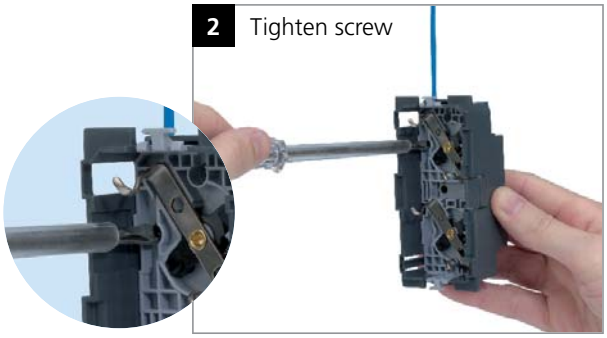
Screw-fasten terminals



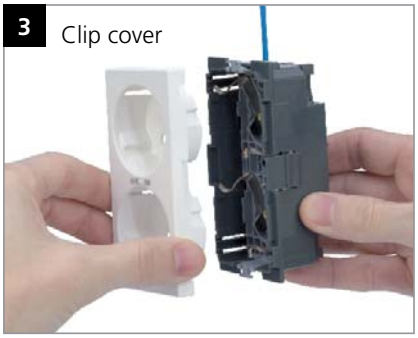
1 Insert cable



2 Tighten screw



3 Clip cover



Pilot lights with LED technology and screw socket with no visible screws

Clefts that make it possible to position the pin more easily

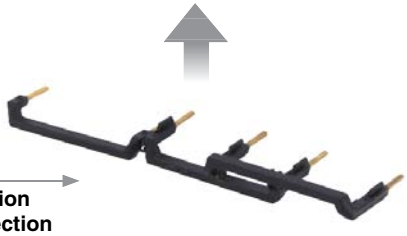
1 click connection system

No-peel terminal connection

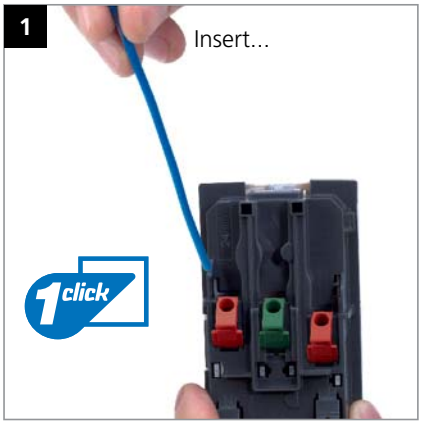
connection system

1 click no need to strip the wires

50% faster Installation



Quick-connection terminal connection



Safe

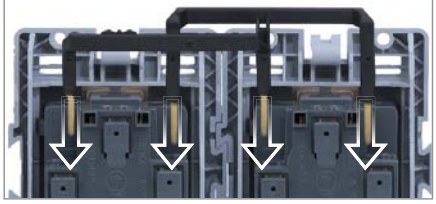
The new 1 click connection system makes the active part of the cable inaccessible

Installation sequence for electrical linker

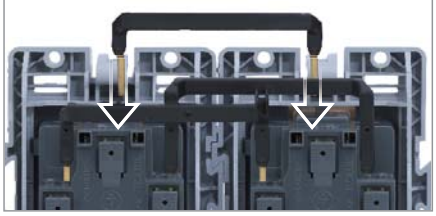
1 Separate the two parts of the electrical linker

Only for surface and flush-mount boxes and metal enclosures

1 Insert phase and neutral



1 Insert earth connection



Technical details
See page 148

SCHUKO SOCKET-OUTLETS

50010432 -030 -037 -038 Double Schuko socket, **1 click connection system with LED**

50010472 -030 -037 -038 Double Schuko socket, **screw-fasten terminals with LED**

Coverless mechanism

50002432 -039 Double Schuko socket mechanism, **1 click connection system**

50002472 -039 Double Schuko socket mechanism, **screw-fasten terminals**

Cover with LED

50011041 -033 -072 -065 Double Schuko cover with LED

50000432 -030 -037 Double Schuko socket, **1 click connection system without LED**

50000472 -030 -037 Double Schuko socket, **screw-fasten terminals without LED**

Coverless mechanism

50002432 -039 Double Schuko socket mechanism, **1 click connection system**

50002472 -039 Double Schuko socket mechanism, **screw-fasten terminals**

Cover with LED

50001041 -038 Double Schuko cover **without LED**

Replacement parts

50011841 -030 -037 -038
Double Schuko cover with viewer (without LED)

50001841 -030 -037
Double Schuko cover without viewer (without LED)

50000802-039
LED indicator for double Schuko socket

FRENCH SOCKET-OUTLETS

50000468 -030 -038	Double French socket, **1 click connection system without LED**
50000469 -037	Double French socket, **1 click connection system without LED**. Requires unblocking pin
50000458 -030 -038	Double French socket, **screw-fasten terminals without LED**
50000459 -037	Double French socket, **screw-fasten terminals without LED**. Requires unblocking pin
50000803 -039	Safety shutter release pin

Accessories

50000996-039	Electrical linker for 2 socket-outlets recommended only for 500 CIMA wall boxes and metal enclosures

connection system

1click no need to strip the wires

Safe

The new 1 click connection system makes the active part of the cable inaccessible

Technical details
See page 148

VOICE AND DATA PLATES

high speed
in voice and data

New 50x50 format

Easier cable conduction, making assembly more comfortable.

New plates with Category 6A connectors

Optimum curvature radius

Optimum curvature radius to guarantee high speeds on data transmission.

Flat plates

They provide integration of the assembly in a compact space.

Depth accessory

Possibility of installing the depth accessory to gain space.

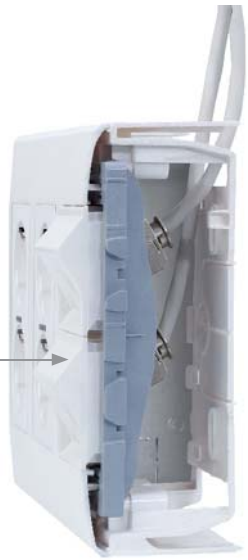
ref. 51030903-030

See page 24

80 mm

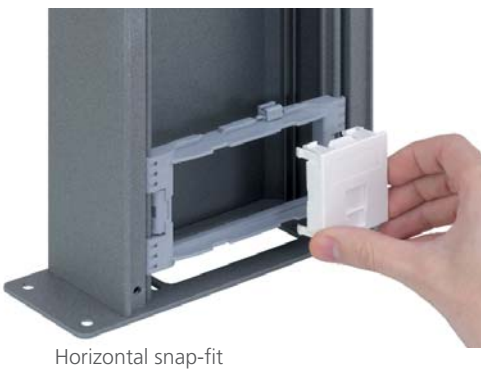
Shorter angled plates

Aesthetic and functional improvement. Allows adaptation of high categories in less space.



55 mm

Same plate for all types of enclosures



Horizontal snap-fit

Vertical snap-fit

New window format to indicate the correct connection position

VOICE AND DATA PLATES WITH SIMON RJ45 CONNECTORS

Angled plates with dust protector

Category 6A

50001081 -030 -033 -038 1 FTP connector

Category 6A

50001086 -030 -033 -038 2 FTP connectors

Category 6

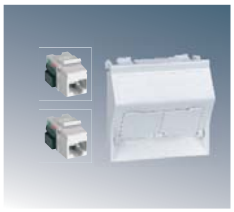
50003081 -030 -033 -038 1 FTP connector
50002081 -030 -033 -038 1 UTP connector

Category 6

50003086 -030 -033 -038 2 FTP connectors
50002086 -030 -033 -038 2 UTP connectors

Category 5e

50004081 -030 -033 -038 1 UTP connector



Category 5e

50004086 -030 -033 -038 2 UTP connectors

Flat plates with dust protectors

Category 6A

50001085 -030 -033 -038 1 FTP connector

Category 6A

50001089 -030 -033 -038 2 FTP connectors

Category 6

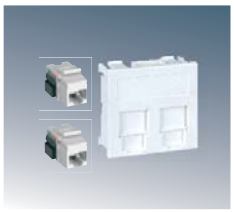
50003085 -030 -033 -038 1 FTP connector
50002085 -030 -033 -038 1 UTP connector

Category 6

50003089 -030 -033 -038 2 FTP connectors
50002089 -030 -033 -038 2 UTP connectors

Category 5e

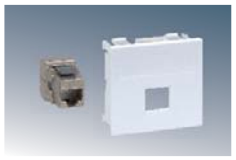
50004085 -030 -033 -038 1 UTP connector



Category 5e

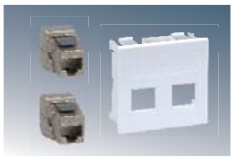
50004089 -030 -033 -038 2 UTP connectors

Flat plates without dust protectors



Category 6A

50001185 -030 1 FTP connector



Category 6A

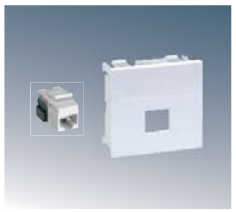
50001189 -030 2 FTP connectors

Category 6

50003185 -030 1 FTP connector
50002185 -030 1 UTP connector

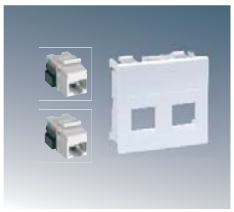
Category 6

50003189 -030 2 FTP connectors
50002189 -030 2 UTP connectors



Category 5e

50004185 -030 1 UTP connector



Category 5e

50004189 -030 2 UTP connectors

Technical details
See page 150

SIMON VOICE AND DATA COMPATIBILITY PLATES

Angled plates for other brands of connectors

	With dust protector		Without dust protector	
	1 connector	2 connectors	1 connector	2 connectors
MANUFACTURERS				
Available finishings	-030 -033 -038		-030 -033 -038	
SIMON	50000081.. + 1 MD67	50000086.. + 2 MD67	50000181.. + 1 MD67	50000186.. + 2 MD67
3M® (Volition OCK®: RJ25, K5e, K6)	50000081.. + 1 MD45	50000086.. + 2 MD45	50000181.. + 1 MD45	50000186.. + 2 MD45
AMP netconnect® (TYCO®)				
Standard 110 SL110 and toolless SL	50000081.. + 1 MD67	50000086.. + 2 MD67	50000181.. + 1 MD67	50000186.. + 2 MD67
216000 and 216005	50000081.. + 1 MD64	50000086.. + 2 MD64	50000181.. + 1 MD64	50000186.. + 2 MD64
BeldenCDT® (NORDX®)				
Giga Flex MDVO	50000081.. + 1 MD68	50000086.. + 2 MD68	50000181.. + 1 MD68	50000186.. + 2 MD68
Giga Flex Keystone	50000081.. + 1 MD64	50000086.. + 2 MD64	50000181.. + 1 MD64	50000186.. + 2 MD64
BRAND-REX® (BICC®)	50000081.. + 1 MD67	50000086.. + 2 MD67	50000181.. + 1 MD67	50000186.. + 2 MD67
CORNING® (SIEMENS®)	50000081.. + 1 MD79	50000086.. + 2 MD79	50000181.. + 1 MD79	50000186.. + 2 MD79
ERSYS®	50000081.. + 1 MD64	50000086.. + 2 MD64	50000181.. + 1 MD64	50000186.. + 2 MD64
ADC KRONE®				
Series KM8 keystone	50000081.. + 1 MD64	50000086.. + 2 MD64	50000181.. + 1 MD64	50000186.. + 2 MD64
Series HK keystone	50000081.. + 1 MD64	50000086.. + 2 MD64	50000181.. + 1 MD64	50000186.. + 2 MD64
MOLEX®	50000081.. + 1 MD64	50000086.. + 2 MD64	50000181.. + 1 MD64	50000186.. + 2 MD64
NEXANS® (LAN mark®-5 eVo, LAN mark®-6 eVo)	50000081.. + 1 MD85	50000086.. + 2 MD85	50000181.. + 1 MD85	50000186.. + 2 MD85
ORTRONICS®				
Clarity TechChoice Keystone	50000081.. + 1 MD64	50000086.. + 2 MD64	50000181.. + 1 MD64	50000186.. + 2 MD64
PANDUIT®	50000081.. + 1 MD69	50000086.. + 2 MD69	50000181.. + 1 MD69	50000186.. + 2 MD69
R&M® (REICHLE & DE MASSARI®)				
CLASSIC Cat5e (R302326, R302325)	50000081.. + 1 MD54	50000086.. + 2 MD54	50000181.. + 1 MD54	50000186.. + 2 MD54
STAR Cat6 (R302328)	50000081.. + 1 MD54	50000086.. + 2 MD54	50000181.. + 1 MD54	50000186.. + 2 MD54
REAL 10 (R302327, R313083)	50000081.. + 1 MD54	50000086.. + 2 MD54	50000181.. + 1 MD54	50000186.. + 2 MD54
RIT®	50000081.. + 1 MD67	50000086.. + 2 MD67	50000181.. + 1 MD67	50000186.. + 2 MD67
SIEMON®				
Series MAX Keystone	50000081.. + 1 MD64	50000086.. + 2 MD64	50000181.. + 1 MD64	50000186.. + 2 MD64
SYSTIMAX® (AVAYA®) (ATT®)	50000081.. + 1 MD63	50000086.. + 2 MD63	50000181.. + 1 MD63	50000186.. + 2 MD63

Simon declines all liability for any modifications or changes made by the manufacturers of the connectors.

SIMON VOICE AND DATA COMPATIBILITY PLATES

Flat plates for other brands of connectors

	With dust protector		Without dust protector	
	1 connector	2 connectors	1 connector	2 connectors
MANUFACTURERS				
Available finishings			-030 -038	
SIMON	50000085..*	50000089..*	50000185..*	50000189..*
3M® (Volition OCK®: RJ45, K5e, K6)	-	-	50011185..	50011189..
AMP netconnect® (TYCO®)				
Standard 110 SL110 and toolless SL	50000085..	50000089..	50000185..	50000189..
216000 and 216005		50000089..	50000185..	50000189..
BeldenCDT® (NORDX®)				
Giga Flex MDVO	50013085..*	50013089..*	-	-
Giga Flex Keystone	50000085..	50000089..	50000185..	50000189..
BRAND-REX® (BICC®)	50000085..	50000089..	50000185..	50000189..
ERSYS®	50000085..	50000089..	50000185..	50000189..
GENERAL CABLE®	50000085..	50000089..	50000185..	50000189..
INFRA +®	50015085..	50015089..	50015185..	50015189..
ITT CANNON®	50016085..	50016089..	-	-
ADC KRONE®				
Series KM8 keystone	50000085..	50000089..	50000185..	50000189..
Series HK keystone	50017085..*	50017089..*	-	-
MOLEX®	50000085..	50000089..	50000185..	50000189..
NEXANS® (LAN mark®-5 eVo, LAN mark®-6 eVo)	50018085..*	50018089..*	50018185..*	50018189..*
ORTRONICS®				
Clarity TechChoice Keystone	50000085..	50000089..	50000185..	50000189..
PANDUIT®	50019085..	50019089..	50019185..	50019189
R&M® (REICHLE & DE MASSARI®)				
CLASSIC Cat5e (R304326, R304325)	-	-	50020185..*	-
STAR Cat6 (R304328)	-	-	50020185..*	-
REAL 10 (R304327, R313083)	-	-	50020185..*	-
RIT®	50000085..	50000089..	50000185..	50000189..
SIEMON®				
Series MAX Keystone	-	-	50000185..	50000189..
Series CT	-	-	50021186-030	50021186-030
SYSTIMAX® (AVAYA®) (ATT®)	50000085..	50000089..	50000185..	50000189..

-... Finish * Also available in -033

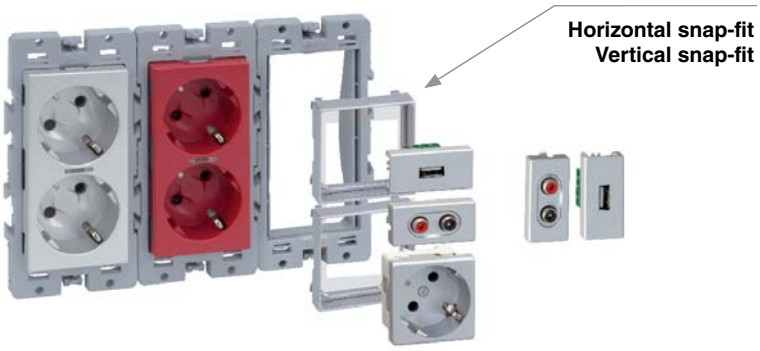
50000800 -030 -033 -038 Double Blind Plate

50010800 -030 -033 -038 Individual Blind Plate

SIMON K45 AND SIMON 27 SOLUTIONS

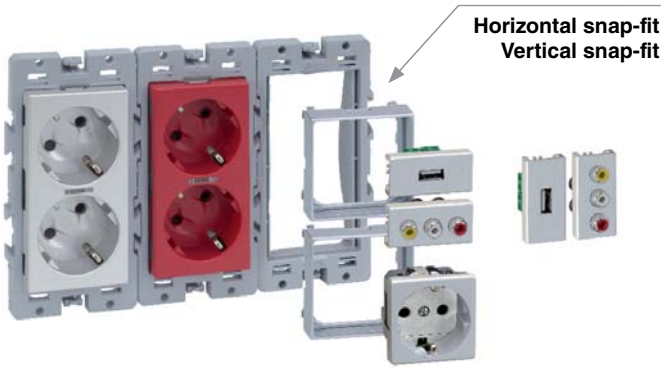
Adapter plates for Simon K45 mechanisms

Ref. 50012088...

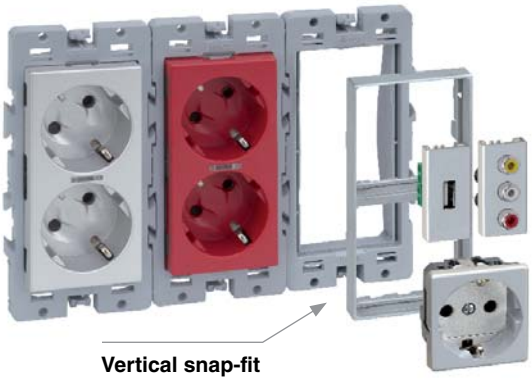


Adapter plates for Simon 27 mechanisms

Individual ref.: 50010088...



Double ref.: 50000088...

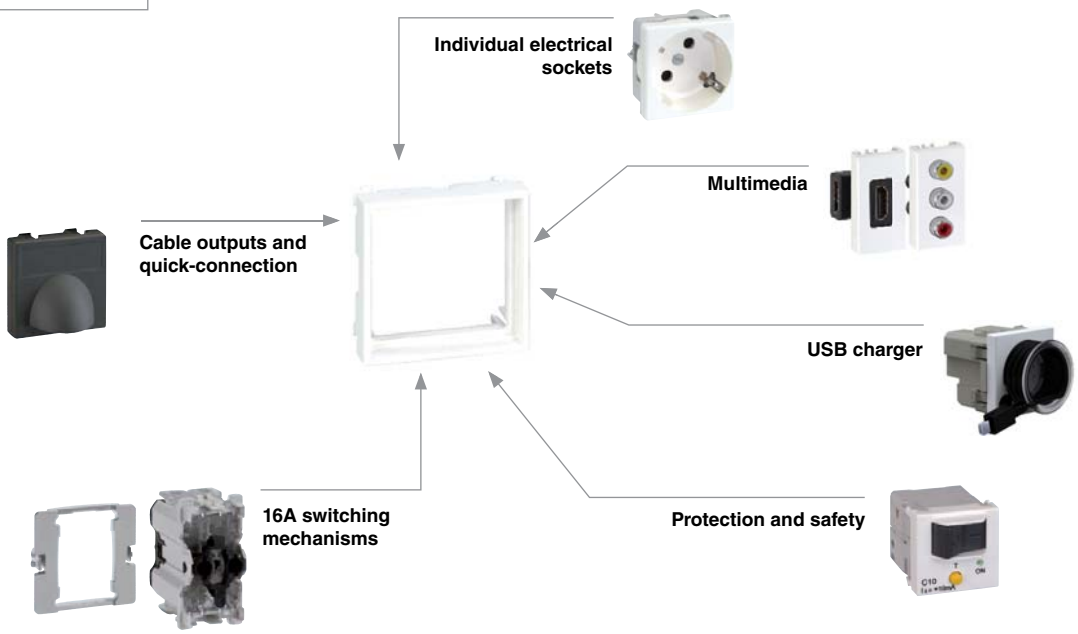


Adapter plates for Simon 27 electronic mechanisms

Ref. 50011088...

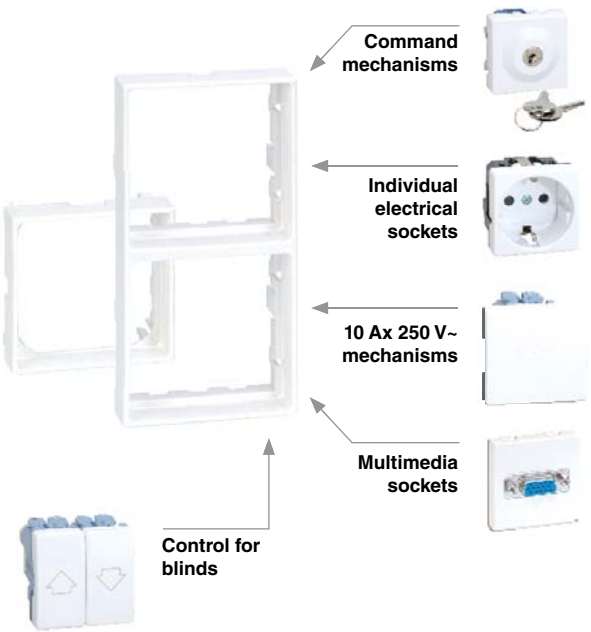
Adapter plates for Simon K45 mechanisms

Ref. 50012088...



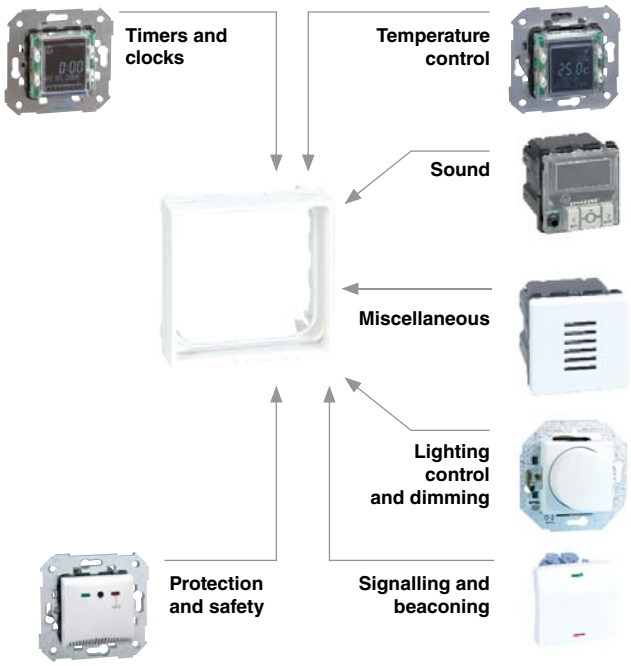
Adapter plates for Simon 27 mechanisms

Individual ref.: 50010088...
Double ref.: 50000088...



Adapter plates for Simon 27 electronic mechanisms

Ref. 50011088...



PROTECTION

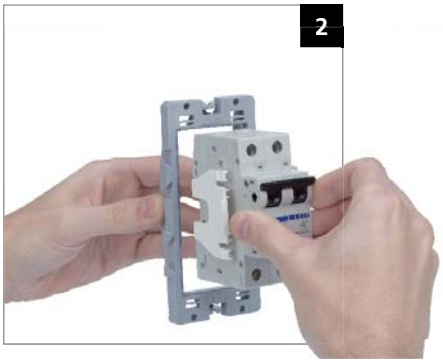
Self-extinguishing, halogen-free materials: a guaranty of safety for people,equipment and information

DIN guide adapter

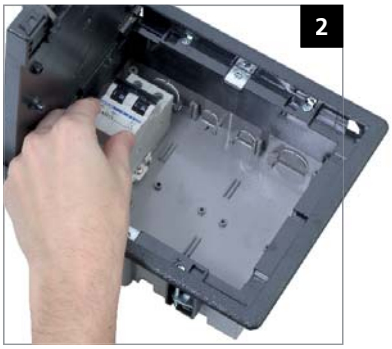
Design: design and integration of protection elements in all 500 CIMA solutions.

Maintenance: the trim plates allow the connections to be maintained and inspected without having to remove the box.

Installation of circuit breakers in Simon 500 CIMA



Installation of circuit breakers in floor boxes



PROTECTION ELEMENTS*

50000075 -030 -038 Plate with 16A bipolar circuit-breaker

50001075 -030 -038 Plate with 10A bipolar circuit-breaker

50002075 -030 -038 Plate with IΔN 30mA sensitivity differential breaker

50000074 -030 -038 Plate for circuit breaker or differential breaker

* For floor boxes, towers, mini-towers, columns and metal enclosures.

PROTECTION ELEMENTS FOR FLOOR BOXES

50010075 -030 -038 Plate with 16A bipolar circuit-breaker

50011075 -030 -038 Plate with 10A bipolar circuit-breaker

50012075 -030 -038 Plate with IΔN 30mA sensitivity differential breaker

50010074 -030 -038 Plate for circuit breaker or differential breaker

Replacement parts

50000076-039
DIN guide adapter

50010076-039
DIN Guide Adapter
for floor boxes

Technical details
See page 150

K45 TELEBLOCK

K45 OFIBLOCK PLUS

K45 OFIBLOCK COMPACT

K45 OFIBLOCK LINE

K45 surface and flush-mount boxes

K45 IP66 watertight floor boxes

K45 anti-vandalism mini-towers

K45 mini-columns

K45 columns

K45 switching mechanisms

K45 electrical sockets

K45 protection elements

K45 voice and data plates

K45 multimedia plates

K45 plates for fiber optic

K45 plates for quick-connection system

Simon K45

Enclosures	52 >	K45 TELEBLOCK
	54 >	K45 OFIBLOCK PLUS
	56 >	K45 OFIBLOCK COMPACT
	58 >	K45 OFIBLOCK LINE
	60 >	K45 surface and flush-mount boxes
	62 >	K45 IP66 watertight floor boxes
	66 >	K45 anti-vandalism mini-towers
	68 >	K45 mini-columns
	70 >	K45 columns
Mechanisms, sockets and plates	72 >	K45 switching mechanisms
	74 >	K45 electrical sockets
	76 >	K45 protection elements
	78 >	K45 voice and data plates
	82 >	K45 multimedia plates
	84 >	K45 plates for fiber optic
	86 >	K45 plates for quick-connection system

Self-extinguishing, halogen-free materials: A guarantee of safety for persons, equipment and information.

Compatibility with all the Voice, Data and Multimedia connectors on the market.

The most compact designs for improved mechanism installation..

Quick installation. The mechanisms of the K45 range are installed by direct snap-fitting without using any tools.

01 RAISE YOUR CONNECTIONS TO THE HIGHEST LEVEL

K45 TELEBLOCK

The Simon K45 TELEBLOCK provides a solution for any connection, adapting to any type of furnishing

WIFI area | Offices | Hotels | Auditoriums | Meeting rooms | DIRECT SNAP-FIT

With all necessary materials

The K45 Teleblock section is supplied with one blind cover, two half-mechanism blind plates, metal divider plate, insertion ring (with push-pull or gas cylinder), screw thread for fitting and all necessary hardware for installation.

(The cover and the trim frame are supplied separately.)

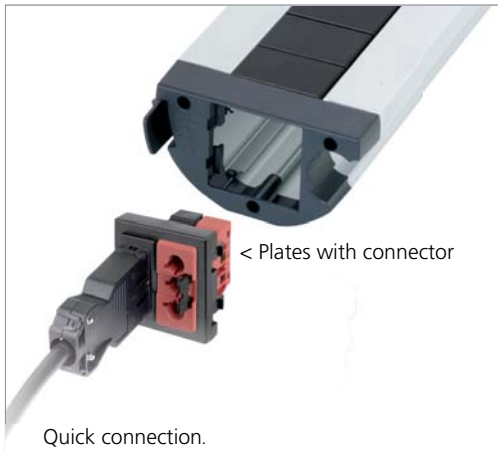
Mechanisms, electrical sockets and plates from page 72

Automatic elevation

Maximum integration

When connected and folded it integrates perfectly into the furniture, hiding the connections. It acts as trunking when closed.

Entry plates for lower access



< Plates with connector

Quick connection.

Connectors and Patch cords on page 140

K19/14
< Tube inlet

K19/14
< Gland

TC250/0
Cable > organiser

K121A/14
K121B/14
< Quick Connection

K18/14
< Quick Connection

K305A/14
< Quick Connection

K20/14
< Cable inlet

K45 TELEBLOCK FOR CONFIGURATION

KTL202	For 2 K45 usable mechanisms with manual elevation
KTL203	For 3 K45 usable mechanisms with manual elevation
KTL204	For 4 K45 usable mechanisms with manual elevation
KTLE205	For 5 K45 usable mechanisms with automatic elevation
KTL205	For 5 K45 usable mechanisms with manual elevation
KTL206	For 6 K45 usable mechanisms with manual elevation

KTLA1 /14 /31
Cover and trim frame

K45 TELEBLOCK WIRED AND ASSEMBLED

KTLE216U	Includes 2 graphite-grey Schukos, 2 red Schukos and 2 RJ45 Cat. 6 UTP. Automatic elevation.*
KTLE215U	Includes 2 graphite-grey Schukos, 2 red Schukos and 2 RJ45 Cat. 5e UTP. Automatic elevation.*
KTL215U	Includes 2 graphite-grey Schukos, 2 red Schukos and 2 RJ45 Cat. 5e UTP. Manual elevation. *
KTL216U	Includes 2 graphite-grey Schukos, 2 red Schukos and 2 RJ45 Cat. 6 UTP. Manual elevation.*
KTL212-PACK CUISINE	Includes 2 graphite-grey Schukos and 1 electric patch cord 3x2.5 mm with Schuko plug. Manual elevation.

* With 2 electrical patch cords of 3x2.5 mm², 2 m, Schuko plug and 2 voice and data 2 m.

KTLA1 /14 /31
Cover and trim frame

Installation accessories

Electric connection patch cords. See page 161
Patch cords V&D. See page 134

K66
90° positioner for K45 plates on columns or vertical sections.
See page 80

TS10 /8 /14
Cable outlet with Ø 102 mm for desk or raised floor

Installation tools

H114
Cutting crown with 114 mm diameter

H114U
Spindle for H114 hole saw

Spare parts for K45 TELEBLOCK Automatic elevation

KTLA2
Gas cylinder for automatic elevation

Spare parts for K45 TELEBLOCK

KTLA3
Push-Pull module for manual elevation

KTLA4
Table attachment mount for manual elevation

KTLA5
Upper lock

KTLA6
Lower lock

Configuration example

	Quantity	Ref./Finish	Description
Enclosure	1	**KTLE205**	K45 Teleblock for 5 usable K45 mechanisms, automatic elevation
	1	**KTLA1/14**	Cover and trim frame, graphite
Electrical sockets and plates	2	**K11/8**	K45 electrical socket, Schuko, quick terminal connection, aluminium
	1	**K100B/8**	K45 plate 1 mechanism with 1 VGA female connector, aluminium. Screw connection
	1	**K66**	90° positioner for K45 VDM plates
	1	**KB8096U/8**	Angled K45 plate with dust protector and 2 RJ45 Cat. 6 UTP, aluminium
	1	**K20/8**	K45 cable input plate with retainer included, aluminium
	1	**TC250/0**	Cable organiser Ø 25 mm and 2 m length

Technical details
See page 164

K45 OFIBLOCK PLUS

DIRECT SNAP-FIT

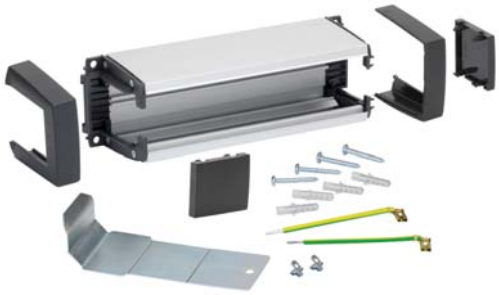
5 Installation options

- Desktop
- Under desk
- Raised floor
- Wall mounted
- Mounted on screens or furniture
- Metal surface with magnet

With all necessary materials

Each K45 OFIBLOCK PLUS is supplied with its section, inner frames, screws and nuts, cut-out metal divider, 2 earth connections and 2 blind plates.

Mechanisms, electrical sockets and plates from page 72



Side entries with K45 plates

DIRECT SNAP-FIT

< Plates with connector

Quick connection.
Connectors and Patch cords on page 140

K19/14
Tube inlet >

K19/14
Gland >

TC250/0
< Cable organiser

K121A/14
K121B/14
< Quick Connection

K21/14
< 20x30 mini-trunking input
Mini-trunking on page 92

K18/14
< Quick Connection

K305A/14
< Quick Connection

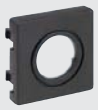
K20/14
< Cable inlet

K10/14
< Quick Connection

K45 OFIBLOCK PLUS (MODULAR ENTRY NOT INCLUDED)

KFP103 /14	3 usable K45 mechanisms
KFP104 /14	4 usable K45 mechanisms
KFP105 /14	5 usable K45 mechanisms
KFP106 /14	6 usable K45 mechanisms
KFP107 /14	7 usable K45 mechanisms
KFP108 /14	8 usable K45 mechanisms

Modular K45 entry plates



K19 /14
Tube or gland
Ø 22 mm
+ information page 87

K305A /14
Quick connection
CEI320 connector
+ information page 86

K20 /14
Cable input
2 cables of Ø 13 mm
and 4 of Ø 6 mm
+ information page 87

K21 /14
Mini-trunking
20x30 mm
+ information page 87

K10 /14
Cable input
Trunking
+ information page 87

K45 OFIBLOCK fastening mounts

KSF1
Individual or under table

KSF2
Tandem under raised floor

KSF3
Desktop

KSF5
Anchor on DIN guide

KSF6
Support with magnet
Requires 2 per OFIBLOCK
(Check availability)

Installation accessories

K105B/..
Multimedia Plates
3 RCA audio and video connectors
+ information page 83

KTL8 /14
Electrical patch cord
+ information page 142

S600/1
Access to raised floor
Accessible cover
+ information page 20

K106A/..
Protection
K45 circuit-breaker
+ information page 76

TC250 / 0
Organiser
+ information page 116

TS10 /14
Access to raised floor
Trunking
+ information page 20

Configuration example

	Quantity	Ref./Finish	Description
Enclosure	1	**KFP103/14**	K45 OFIBLOCK PLUS with 3 usable mechanisms, graphite
Electrical sockets and plates	1	**K20/14**	K45 cable input plate with retainer included, graphite
	1	**KB96U/14**	K45 flat V&D plate with 2 Cat. 6 UTP connectors, graphite
	2	**K11/14**	K45 electrical socket, Schuko, quick terminal connection, graphite
	1	**AC11**	Connection block for multi-sockets
	1	**KSF3**	OFIBLOCK mount for securing to desk
	1	**TC250/0**	Ø 25 mm, 2 m long cable organiser

Technical details
See page 165

K45 OFIBLOCK COMPACT

DIRECT SNAP-FIT

Multiple side entries

- Quick connection
- Direct cable

Shares accessories with K45 OFIBLOCK PLUS

- Desktop
- Under desk
- Raised floor
- Mounted on wall or screen
- Metal surface with magnet

With all necessary materials

Each K45 OFIBLOCK COMPACT is supplied with its section, blind side cover, direct cable input side cover, screws and nuts and blind front plate, providing space for cables.

Mechanisms, electrical sockets and plates from page 72

Can be installed in a raised floor

It installs sockets with pilot light under the floor to make locating the connection points easier.

Ideal for low-height raised floors

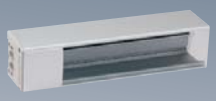
Allows quick connection

Optional side cover for quick-connection input.

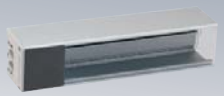
Easy installation by direct snap-fitting of the K45 mechanisms.

K45 OFIBLOCK COMPACT WITH DIRECT CABLE INPUT

White finish /9



Graphite grey finish /14



KFC102	/9 /14	2 usable K45 mechanisms
KFC103	/9 /14	3 usable K45 mechanisms
KFC104	/9 /14	4 usable K45 mechanisms
KFC105	/9 /14	5 usable K45 mechanisms
KFC106	/9 /14	6 usable K45 mechanisms
KFC107	/9 /14	7 usable K45 mechanisms
KFC108	/9 /14	8 usable K45 mechanisms
KFC109	/9 /14	9 usable K45 mechanisms
KFC110	/9 /14	10 usable K45 mechanisms

Modular side input covers

ACFC01 /24
Blind side cover

ACFC02 /24
Side input cover
direct cable

ACFC03 /24
Side entry cover
single quick connection
Connectors on page 138

ACFC04 /24
Side input cover
double quick connection
Connectors on page 140

K45 OFIBLOCK fastening mounts

KSF1
Individual or under table

KSF2
Tandem under raised floor

KSF3
Desktop

KSF4
Wall mounted Requires 2 per OFIBLOCK

KSF5
Anchor on DIN guide

KSF6
Support with magnet
Requires 2 per OFIBLOCK
(Check availability)

Installation accessories

K302 + K112/..
K45 switch
+ information page 72

K106A/..
Protection
K45 circuit-breaker
+ information page 76

S600/1
Access to raised floor
Accessible cover
+ information page 20

TC250/0
Organiser
+ information page 116

K129B/..
Multimedia Plates
1 HDMI connector
+ information page 83

TS10 /14
Access to raised floor
Trunking
+ information page 20

Configuration example

	Quantity	Ref./Finish	Description
Enclosure	1	**KFC103/9**	K45 OFIBLOCK COMPACT with 3 usable K45 mechanisms, white
Electrical sockets and plates	1	**KB96U/9**	K45 flat V&D plate with 2 Cat. 6 UTP connectors, white
	2	**K11/9**	K45 electrical socket, Schuko, quick terminal connection, white
	1	**AC11**	Connection block for multi-sockets
	1	**KSF3**	Desktop OFIBLOCK COMPACT mount
	1	**TC250/0**	Cable organiser Ø 25 mm and 2 m length

Technical details
See page 166

K45 OFIBLOCK LINE

Functional design

Offices · Hotels · Auditoriums · Meeting rooms · Education centres · Shopping centres

With the new K45 OFIBLOCK LINE, connections are perfectly integrated within the furnishings and are accessible for use.

Easy integration

Rear cable inputs to facilitate installation in any furnishing space from 10 mm thick.

Easy and safe installation

OFIBLOCK fits into the frame at the rear and is safely secured by 4 fastening clips.

Option of mechanisms in different finishes

/8 /9 /14

Integral design

The frame incorporates straight lines and minimalist aesthetics that blend in with all furnishing styles.

K45 OFIBLOCK LINE

KSF134 /8	4 usable K45 mechanisms
KSF136 /8	6 usable K45 mechanisms

Frame finishes

Polished chrome-plated steel (KSF13X /8)

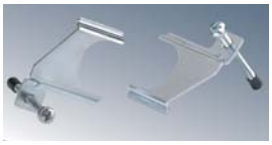
Shiny chrome-plated steel
On request

Matt steel
On request

Colour painted option ...
On request

K45 OFIBLOCK LINE FASTENING SUPPORT

0 Optional



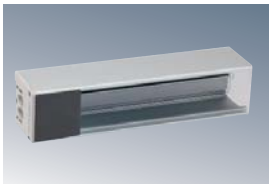
KSF7	Set of 2 clips to secure the Ofiblock Line K45 with ease. (For tables of 10 to 50 mm thick)

K45 OFIBLOCK REAR ENTRIES
(FOR FURNISHINGS FROM 10 mm THICK)

KFC134 /14	4 K45 usable mechanisms and 4 cable outlets
KFC136 /14	6 K45 usable mechanisms and 4 cable outlets

Supplied with the section, 2 side blind covers, front blind plate, 4 clamps and 3 blocks.

K45 OFIBLOCK COMPACT SIDE ENTRIES
(FOR FURNISHINGS FROM 10 mm TO 24 mm THICK)



KFC104 /14	4 usable K45 mechanisms
KFC106 /14	6 usable K45 mechanisms

It is supplied with the sections, side blind cover, side cable input cover and front blind plate

KITS

kits assembled and cabled

K45 Kit OFIBLOCK 4 mechanisms rear imputs
KFC1446U /14
With 3 K45 electrical sockets, 2 RJ45 connectors Cat. 6UTP, 2 electrical patch cords 3x2.5 mm², 2 m, Schuko socket and 2 UPD, 2 m.

Assembly sequence KSF7 fastening support

1 Insert

2 Turn and adjust

Configuration example

	Quantity	Ref./Finish	Description
Enclosure	1	KFC134/8	K45 Ofiblock Line, polished chrome-plated
	1	KFC134/14	K45 Ofiblock with 4 usable K45 mechanisms, rear inputs, graphite
Electrical sockets and plates	3	K11/14	K45 electrical socket, Schuko, quick terminal connection, graphite
	2	AC11	Connection block for multi-sockets
	1	KB96U/14	K45 V&D plate with 2 connectors Cat. 6 UTP, graphite

Technical details
See page 167

K45 SURFACE AND FLUSH-MOUNT BOXES

DIRECT SNAP-FIT

Double surface box

Single flush-mount box

With all necessary materials

The K45 Surface and Flush-mount Box is supplied with a **separating plate**, fastening plugs and all the necessary screws and nuts.

Mechanisms, electrical sockets and plates from page 72

Ideal for deep connectors

Especially designed to be able to install FTP and category 7 connectors, where the depth and the radius of curvature are very critical.

The necessary depth is reached by installing a flush-mount box and the surface box.

Combines with Simon Mini-trunking

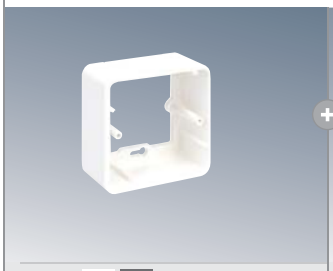
The SCM21F/9 and SCM31F/9 allows access by Mini-trunking.

CIMA BOX SIMON TRUNKING

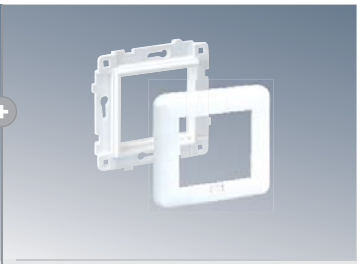
VDM VOICE, DATA AND MULTIMEDIA

SURFACE INSTALLATIONS

1 K45 mechanism

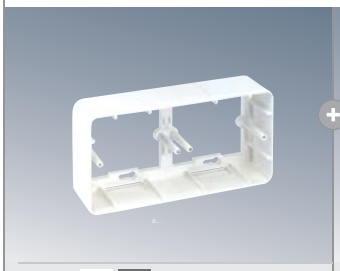


R250 /9 /14 Box

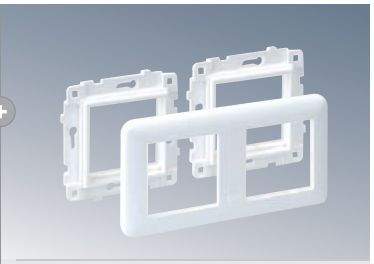


KR245 /9 /14 Frame+Inner Frame

2 K45 mechanisms



R450 /9 /14 Box



KR445 /9 /14 Frame+Inner Frame

Supplied from SIMON Mini-trunking (front)

Mini-trunking on page 92

SCM21F /9
Adapter for 20x30 mm Mini-trunking

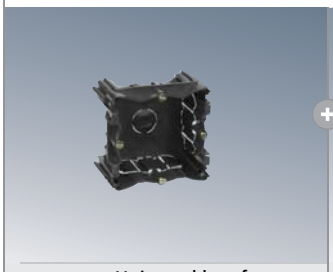
SCM31F /9
Adapter for 20x50 mm Mini-trunking

Surface configuration example

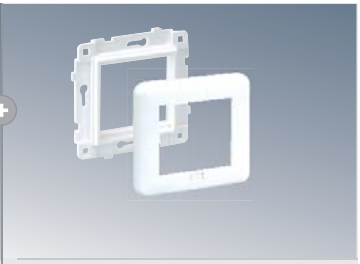
	Quantity	Ref./Finish	Description
Enclosure	1	**KR445/9**	K45 double frame and 2 K45 inner frames, white
	1	**R450/9**	K45 double surface box, white
Electrical sockets and plates	1	**K01/9**	K45 electrical socket, Schuko Screw terminal connection, white
	1	**K100B/9**	K45 plate 1 mechanism with 1 VGA female connector, white Screw connection
Mini-trunking access	1	**SCM31F/9**	Adapter for 20x50 mini-trunking, white
	1	**TM12032/9**	20x50 mini-trunking, 2 compartments, white

FLUSH-MOUNT INSTALLATIONS

1 K45 mechanism

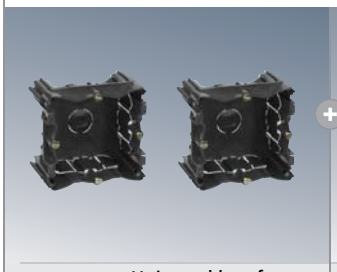


MR200 Universal box for masonry wall

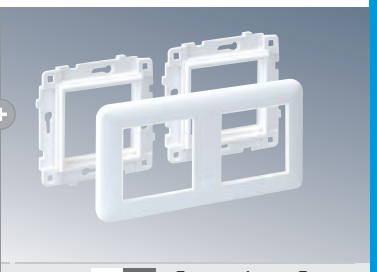


KR245 /9 /14 Frame+Inner Frame

2 K45 mechanisms



2 MR200 Universal box for masonry wall

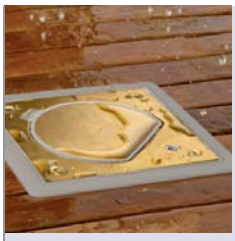


KR445 /9 /14 Frame+Inner Frame

Flush-mount configuration example

	Quantity	Ref./Finish	Description
Enclosure	1	**KR245/14**	K45 Single frame and K45 inner frame, graphite
	1	**MR200**	K45 universal flush-mount box for masonry wall
Electrical sockets and plates	1	**K01/14**	K45 electrical socket, Schuko Screw terminal connection, graphite

Technical details
See page 168



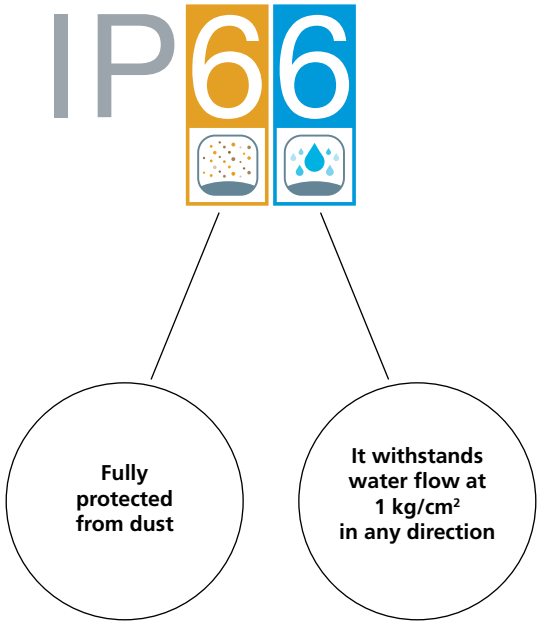
IP 66 WATERTIGHT FLOOR BOXES

Occasional connection is often required, **sometimes in open outdoor areas.** When closed, the IP66 protection level keeps water and moisture away from the electrical mechanisms.

Can be installed in:

Shopping centres · Conference halls · Hotels · Home · Gardens · Health centres · Sports centres · Museums · Terraces · Airports · **DIRECT** SNAP-FIT

IP66 protection level



Combine with Simon 44 AQUA

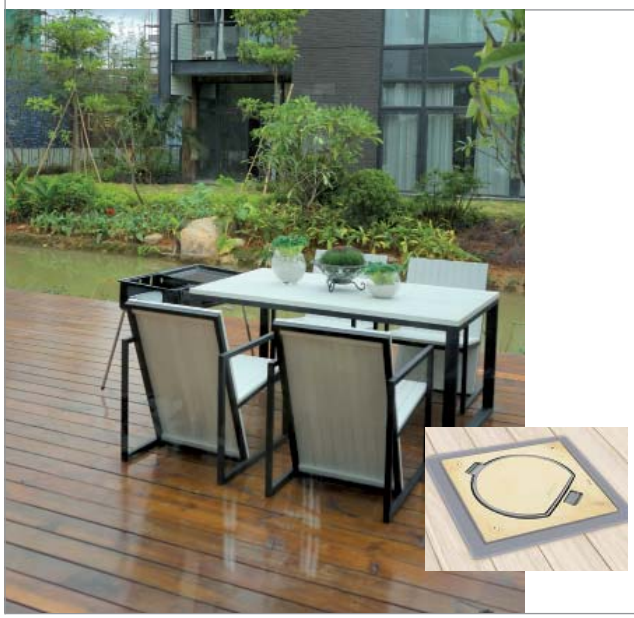
See page 205 from Simon General Catalogue 2010/2011

A tray for each kind of floor

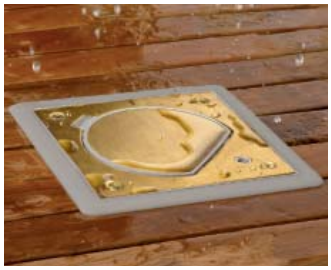
Raised floor

Paving

WATERTIGHT BOX FOR RAISED FLOOR



For ground installation in **gardens and terraces, wooden decking, parquet flooring or raised flooring**.



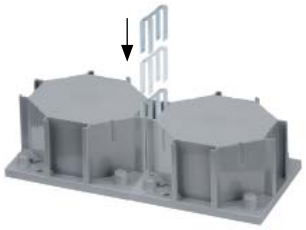
The **bevelled tray** secures the box and hides any installation defects.

Installation via **fastening clips** that anchor the box.

WATERTIGHT BOX FOR PAVING

Allows flush installation of the box in **all types of paving (porcelain tile, terrazzo, ceramic, etc.).**

Grouping of watertight boxes



The boxes can be grouped together to provide more connections.

A mechanism holder for each environment

Safety lock
Suitable for areas with **public access**

Manual lock
Suitable for less demanding environments

IP 66 WATERTIGHT FLOOR BOXES - CHARACTERISTICS

Strenghted cover

New cover design with greater reinforcement to withstand side impacts.

Brass

Stainless Steel

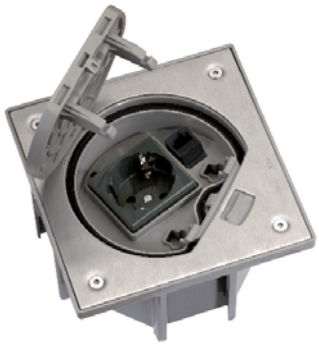
Maximum resistance

When connected, it can withstand the weight of pedestrians while protecting the cable from pressure and stress.

Safety cover

The **hinge, which opens to less than 90º**, prevents the cover from being left open accidentally causing people to trip over it.

Electricity, Voice and Data in a single box



The **KSE16U/23** mechanism holder incorporates a Schuko electrical connection and an RJ45, Cat. 6 UTP.

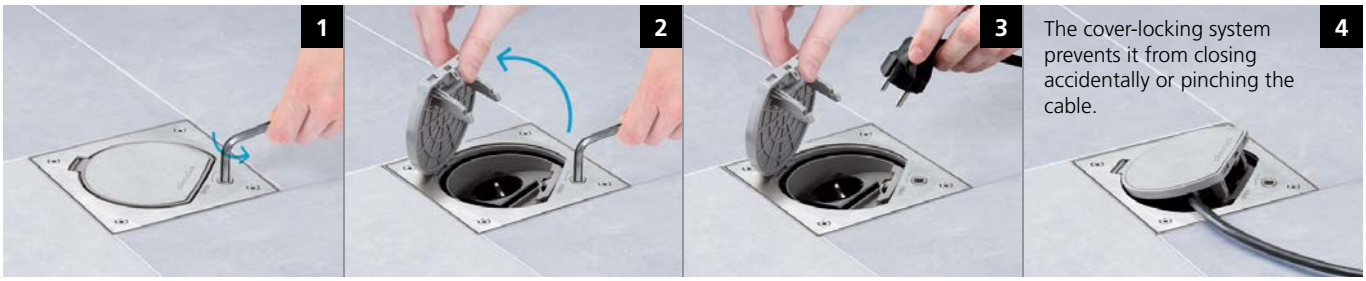
Installation system

An optional drainage pipe can be installed to drain away any possible condensation inside the box.
The tray includes a wooden cover that prevents any dirt from getting inside it during installation.

Protective film

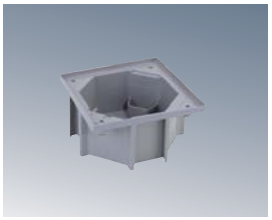
Includes **protective film** to avoid the box surface being soiled or damaged during installation.

Safety lock, opening and closing system



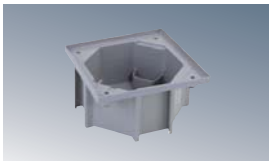
TRAYS

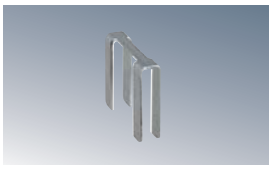
Installation in raised flooring



KGE170TF /23
Flush-mount tray for watertight floor box in **raised floor**, grey colour

Solid floor installation





KGE170 /23
Flush-mount tray for watertight floor box in **paved floor**, grey colour

+

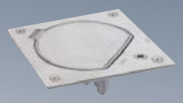
ACSE
Connector accessory for 2 watertight floor boxes for paved floor

+

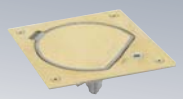
COMMON MECHANISM HOLDER FOR BOTH TRAYS

Mechanism holder with safety lock

Stainless steel /72



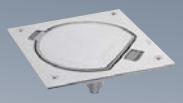
Brass /71



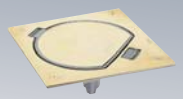
KSE1SEC/23 /72 /71	With a Schuko socket
KSE0SEC/23 /72 /71	For a K45 mechanism
KSE15USEC/23 /72 /71 N New product	With a Schuko socket and 1 RJ45 connector, Cat. 5e UTP

Mechanism holder with manual lock

Stainless steel /72



Brass /71



KSE15U/23 /72 /71	With a Schuko socket and 1 RJ45 connector, Cat. 5e UTP
KSE1/23 /72 /71	With a Schuko socket
KSE0/23 /72 /71	For a K45 mechanism
KSE16U/23 /72 /71 N New product	With a Schuko socket and 1 RJ45 connector, Cat. 6 UTP

Spare parts

RKS001 /72 /71
Watertight Box Cover

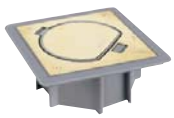
RKS003
Watertight seal Square

RKS004
Watertight seal Circular

Paved floor **configuration example**

Tray for paved floor		Mechanism holder with safety lock		Watertight floor box assembly
	+		=	
KGE170/23		**KSE1SEC/23 /72**		Watertight floor box with safety lock and Schuko socket Stainless-steel finish

Raised floor **configuration example**

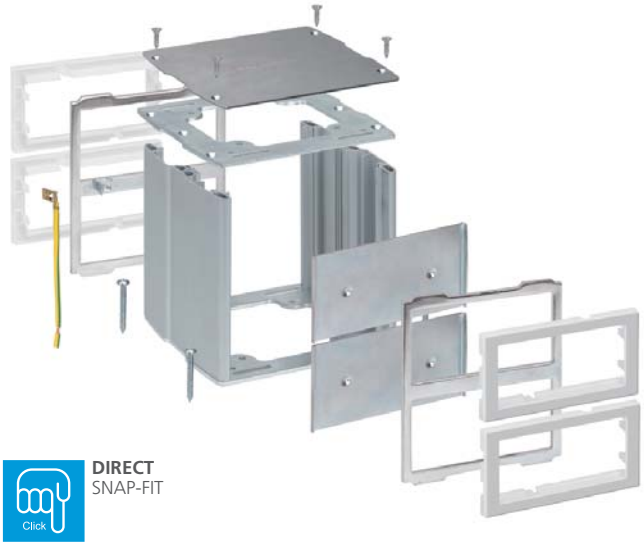
Tray for raised floor		Mechanism holder		Watertight floor box assembly
	+		=	
KGE170TF/23		**KSE15U/23 /71**		Watertight floor box for raised floor with 1 Schuko socket and 1 RJ45 connector Cat. 5e UTP. Brass finish

Technical details
See page 169

K45 ANTI-VANDALISM MINI-TOWERS

Maximum strength: The metal structure of stainless steel and anodised aluminium, together with the plastic trims, provide the balance between mechanical resistance and aesthetics.

Industrial Buildings | Warehouses | Mechanical workshops | Education centres | Sports centres | DIRECT SNAP-FIT



DIRECT SNAP-FIT

K45 direct snap-fitting mini-towers: Optional direct snap-fit installation of up to 12 K45 mechanisms without the need for accessories.

With all necessary materials

Supplied with inner frames, trim, metal divider plate, connection cable with earth connection and all necessary hardware for installation.

Mechanisms, electrical sockets and plates from page 72

With protective sheath

Protects the mechanisms from impact in adverse environments

Metal divider plate

Guarantees the electromagnetic immunity of the Voice, Data and Multimedia (VDM) installation.

Easy maintenance

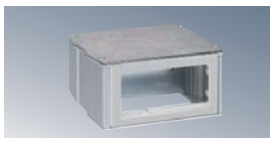
Fold-down inner frames that facilitate the installation and maintenance of connections.

Combine with Simon 27 SCUDO

See page 49 from Simon General Catalogue 2010/2011

See SIMON 500 CIMA towers on page 62

K45 DOUBLE SIDED MINI-TOWERS



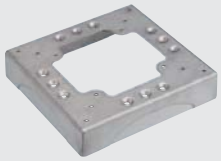
KT400 /8 2 K45 mechanisms per side

KT401 /8 2 K45 mechanisms per side with protective sheath

KT800 /8 4 K45 mechanisms per side

KT1200 /8 6 K45 mechanisms per side

0 Optional



KTA804 /8 Base

Accessories/Spare Parts

KTA401 /8

Protective sheath for **KT400/8** mini-tower

FLUSH-MOUNT POWER SUPPLY

The mini-tower can be installed directly or by incorporating the base to elevate the mechanisms and achieve greater isolation from the floor.

Configuration example

Front face

Rear face

	Quantity	Ref./Finish	Description
Enclosure	1	**KT800/8**	K45 mini-tower, 4 mechanisms per side
Electrical sockets and plates	4	**K11/14**	K45 electrical socket, Schuko. Quick terminal connection, graphite
	4	**KB96U/14**	K45 flat V&D plate with 2 RJ45 connectors Cat. 6 UTP, graphite
	1	**KTA804/8**	Elevation base (optional)

POWER SUPPLY THROUGH FLOOR TRUNKING

Choose the corresponding base for the trunking section and distribution of the installation. *Floor trunking and bases on page 114*

Configuration example

Front face

Rear face

	Quantity	Ref./Finish	Description
Enclosure	1	**KT1200/8**	K45 Anti-vandalism mini-tower, 6 mechanisms per side
Electrical sockets and plates	3	**K11/9**	K45 electrical socket, Schuko Quick terminal connection, white
	3	**K11/6**	K45 electrical socket, Schuko Quick terminal connection, red
	2	**AC11**	Connection block for multi-sockets
	1	**K106A/9**	K45 plate with 10A automatic circuit-breaker, Curve C, white
	1	**KB96U/9**	K45 flat V&D plate with 2 RJ45 connectors, Cat. 6 UTP, white
	1	**KA96U/9**	Half-mech. plate K45 flat V&D plate with 1 RJ45 connector, Cat. 6 UTP, white
	1	**K122/9**	K45 Multimedia plate for 1 XLR connector, white
	1	**K120A/9**	K45 end CEI TV socket, screw-connection, white
	1	**K100B/9**	K45 multimedia plate with one (1) HD15 VGA female connector, white Screw connection
	1	**K123B/9**	K45 multimedia plate with one (1) 3.5 mm stereo mini-jack connector. Screw connection
	1	**KTA804/8**	Elevation base for 85x18 mm floor trunking, aluminium
	1	**TF11172/8**	85x18 mm DCS floor trunking

Technical details
See page 170

K45 MINI-COLUMNS

Offices | Laboratories | DIRECT SNAP-FIT

4 K45 MINI-COLUMN MODELS

Simplicity
- 1 face

Compact
- 1 face for VDM
- 1 side for Schukos (ref. K01/..)

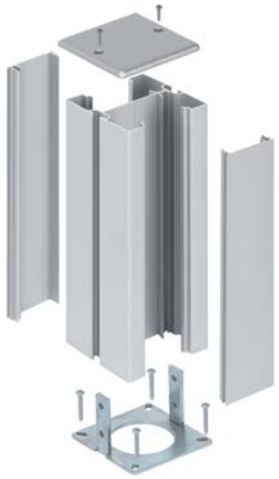
For 4 workplaces
Maximum capacity
- 4 faces

For 2 workplaces
Aesthetics
- 2 faces
- Oval shaped

Supplied with all necessary materials for installation

With **only one reference**, the K45 mini-columns are supplied complete and installation-ready: foot for floor attachment, top and side covers and fastenings.

Mechanisms, electrical sockets and plates from page 72



Flush-mount power supply

(Cables embedded in paving or under raised floor)

K45 mini-columns are installed directly using floor attachment foot.

DIRECT SNAP-FIT

Power supply through floor trunking

(Floor trunking 85x18 and 130x18) The adaptor ALKA02/8 provides for K45 mini-columns installation at the bases of the floor trunking and power is supplied through the mini-column.

Floor trunking and bases on page 114

Configuration example of cable access through embedded tubes

	Quantity	Ref./Finish	Description
Enclosure	1	**ALK115/8**	K45 Mini-column No. 1, 70x60, one side for 5 mechanisms
Electrical sockets and plates	2	**K11/9**	K45 electrical socket, Schuko. Quick terminal connection, white
	2	**K11/6**	K45 electrical socket, Schuko. Quick terminal connection, red
	2	**AC11**	Connection block for multi-sockets
	1	**KB96U/9**	K45 flat V&D plate with 2 RJ45 connectors, Cat. 6 UTP, white
	1	**K66**	90° positioner for K45 VDM plates

K45 MINI-COLUMNS

1 Side 70x60 mm

ALK115	/8	5 K45 mechanisms per side
ALK116	/8	6 K45 mechanisms per side
ALK117	/8	7 K45 mechanisms per side

No limitations in housing mechanisms

2 Side oval 110x80 mm

ALK724	/8	4 K45 mechanisms per side
ALK725	/8	5 K45 mechanisms per side
ALK726	/8	6 K45 mechanisms per side

No limitations in housing mechanisms

2 Side square 80x80 mm

ALK224	/8	4 K45 mechanisms per side
ALK225	/8	5 K45 mechanisms per side
ALK227	/8	7 K45 mechanisms per side

Designed for electrical bases with screw terminal connections on 1 side and VDM on the opposite side.

4 Sides 125x125 mm

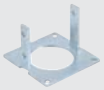
ALK544	/8	4 K45 mechanisms per side
ALK545	/8	5 K45 mechanisms per side
ALK546	/8	6 K45 mechanisms per side

Does not allow electrical sockets with quick terminal connection on 2 of the 4 faces. No restrictions for other mechanisms.

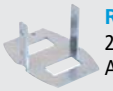
Spare parts

Mini-column invisible fixed foot

RALK005 /8
1 Side ALK11x/8



RALK007 /8
2 Sides square ALK22x/8



RALK006 /8
2 Sides oval ALK72x/8

RALK008 /8
4 Sides ALK54x/8

End cover

RALK009 /8
1 Side ALK11x/8

RALK011 /8
2 Sides square ALK22x/8

RALK010 /8
2 Sides oval ALK72x/8

RALK012 /8
4 Sides ALK54x/8

K45 Installation accessories

K66
Mechanism Adaptation
K45 90° positioner for VDM plates
+ information page 80

K106A/..
Protection
K45 circuit-breaker
+ information page 76

K100B/..
Multimedia Plates
1 VGA connector plate
+ information page 82

K11/..
Electrical sockets
Quick-connection terminals
+ information page 74

KB95U/..
VD plates
VD plate with connector
+ information page 78

Configuration example of cable access through floor trunking

Front face

Rear face

	Quantity	Ref./Finish	Description
Enclosure	1	**ALK227/8**	K45 Mini-column No. 2, 80x80, 7 mechanisms on each side
Electrical sockets and plates	4	**K01/9**	K45 electrical socket, Schuko, white
	1	**KF04A/9**	K45 plate with 10A bipolar automatic circuit-breaker, curve C, white
	1	**KB8096U/9**	K45 angled V&D plate with 2 RJ45 connectors, Cat. 6 UTP, white
	1	**K66**	90° positioner for K45 VDM plates
	1	**K101B/9**	K45 multimedia plate with 2 RCA audio connectors, white Screw connection
	1	**K128B/9**	K45 multimedia plate with 1 USB connector type A, female. Screw connection
	2	**K122/9**	K45 Multimedia plate for 1 XLR male or female connector, white
	1	**KTA804/8**	Base for concrete floor trunking
	1	**ALKA02/8**	Adapter for base
	1	**TF21172/8**	Aluminium trunking for paved floor

Technical details
See page 172

K45 COLUMNS

DIRECT SNAP-FIT

Easy to install

The column is secured to the ceiling by pressure, without the need for screwing into the ground or the ceiling.

Wide range

There are 4 different section models depending on the number of connection sides, from 1 to 4, in which an unlimited number of mechanisms can be installed.

Installation mobility

The columns are **secured by pressure** on the floor slab. They do not have to be bolted to the floor, and it is therefore very easy to reconfigure the distribution of workplaces.

SIMON 500 CIMA columns with finishes in white and graphite on page 26

Supplied with all necessary materials for installation

With only one reference, the K45 columns are supplied complete and installation-ready: floor attachment foot, ceiling trim, telescopic assembly for securing to the floor slab, aluminium covers and fastenings.

Mechanisms, electrical sockets and plates from page 72

Configuration example of a column for a supermarket checkout

Enclosure	Quantity	Ref./Finish	Description
	1	**ALK1100/8**	Column, 70x60, one side, length 3 m.
Electrical sockets and plates	1	**K11/9**	K45 electrical socket, Schuko. Quick terminal connection, white
	2	**K11/6**	K45 electrical socket, Schuko. Quick terminal connection, red
	1	**AC11**	Connection block for multi-sockets
	1	**KB8096U/9**	K45 angled V&D plate with 2 RJ45 connectors, Cat. 6 UTP, white
	1	**K66**	K45 90° positioner for VDM plates

K45 COLUMNS

1 Side 70x60 mm

ALK1100 /8	1 side. 3 m.

No limitations in housing mechanisms

2 Sides square 80x80 mm

ALK2200 /8	2 Sides, square 3 m.

Designed for electrical bases with screw terminal connections on 1 side and VDM on the opposite side.

Column Extension 2 sides, square

Includes connector pins

0 Optional

ALK22P05 /8	0.5 m extension
ALK22P10 /8	1 m extension
ALK22P15 /8	1.5 m extension

Section length of the column: 3 m. Fastening support length: 0.5 m

2 Sides oval 110x80 mm

ALK7200 /8	2 Sides, oval 3 m.

No limitations in housing mechanisms

Column Extension 2 sides, oval

Includes connector pins

0 Optional

ALK72P05 /8	0.5 m extension
ALK72P10 /8	1 m extension
ALK72P15 /8	1.5 m extension

Section length of the column: 3 m. Fastening support length: 0.5 m

4 Sides 125x125 mm

ALK5400 /8	4 Sides. 3 m.

Does not allow electrical sockets with quick terminal connection on 2 of the 4 faces. No restrictions for other mechanisms.

Fastening support length: 0.5 m

Column extension 4 sides

Includes connector pins

0 Optional

ALK54P05 /8	0.5 m extension
ALK54P10 /8	1 m extension
ALK54P15 /8	1.5 m extension

Spare parts

Ring trim

RALK001 /8
for False Ceiling Column 1 Side ALK1100/8

RALK002 /8
for False Ceiling Column 2 Sides ALK2200/8

RALK003 /8
for False Ceiling Column 2 Sides oval ALK7200/8

RALK004 /8
for False Ceiling Column 4 Sides ALK5400/8

Front cover

RALK013 /8
3 m for K45 columns ALK11X/8, ALK22X/8 and ALK54X/8

RALK014 /8
3 m for K45 Columns ALK72X/8

K45 Installation accessories

K66
Mechanism Adaptation
K45 90° positioner for VDM plates
+ information page 80

K106A/..
Protection
K45 circuit-breaker
+ information page 76

K100B/..
Multimedia Plates
1 VGA connector plate
+ information page 82

K11/..
Electrical sockets
Quick-connection terminals
+ information page 74

KB95U/..
VD plates
VD plate with connector
+ information page 78

Technical details
See page 172

K45 SWITCHING MECHANISMS

16 A

Designed for offices

Especially designed for spaces with a high density of fluorescent lights, as they support a nominal current of 16 A. Recommended for offices, hospitals, conference halls, etc. as they support power surges that may occur.

Offices | Health centres | Conference halls | Shopping centres | DIRECT SNAP-FIT

Status pilot or pilot light

Push-button with pilot light: for illuminating the mechanism and detecting where it is in the dark.

Switch with status pilot: indicates whether the charge on which it operates is powered or not.

16A Bipolar switches

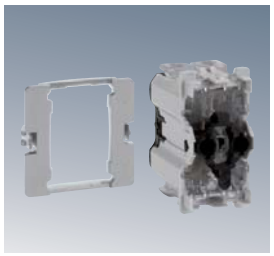
90° positioner

Installs the switching mechanisms on all enclosures and trunkings. Also on K45 Columns or K45 TELEBLOCK using the positioner.

Supplied with the mechanism

SINGLE-POLE 16 A SWITCHING MECHANISMS

Switches

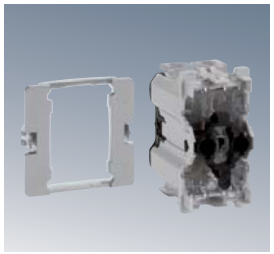


K301 Single-pole 16 A K45 switch without status pilot

Buttons

K110 /8 /9 /14

K109 /8 /9 /14



K302 Single-pole 16 A K45 switch with status pilot

K112 /8 /9 /14

K115 /8 /9 /14

The 90° positioner is supplied with the mechanism

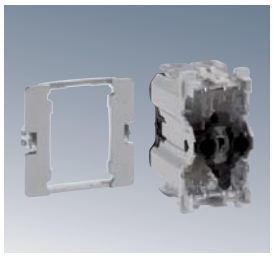
Push-buttons

K303 Single-pole 16 A K45 push-button without status pilot

Buttons

K110 /8 /9 /14

K109 /8 /9 /14



K304 Single-pole 16 A K45 push-button with pilot light

K114 /8 /9 /14

K113 /8 /9 /14

The 90° positioner is supplied with the mechanism

16A BIPOLAR SWITCHES

K125A /9 /14 K45 plate with 16 A bipolar switch

KL04 /9 /14 K45 plate with 16 A bipolar illuminated switch

Spare parts

Switching mechanisms
16 A single-pole

K366
90° positioner

Technical details
See page 173

K45 ELECTRICAL SOCKETS

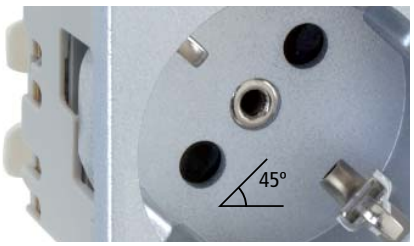
DIRECT SNAP-FIT

Multi-sockets

Multi-sockets can be created using the AC11 connection accessory.

High connection density

45° sockets allowing high connection density.



Shutter:

Protection

All our sockets include a protective shutter that prevents direct contact with live parts

Selective safety

They protect the UPS line, **allowing only the connection of selected equipment**.

Quick screw-on terminal connection

Quick

Screw

Supports rigid and flexible 2.5 mm² cables

A finish for every application

Red finish

to connect personal computers with uninterrupted-power-supply equipment.

Orange finish

for specific power supply such as servers or in laboratories.

Green finish

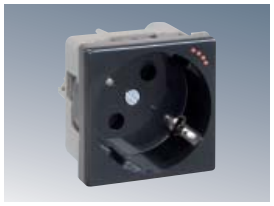
for the health sector.

SCREW TERMINAL CONNECTION

Electrical sockets

K01 /6 /7 /8 /9 /14	Schuko socket with protective shutter
K02 /6 /8 /9 /14	French socket with protective shutter

KLS01 /6 /7 /9 /14	Schuko socket with safety shutter and pilot light (including pin)
KLS02 /6 /9 /14	French socket with safety shutter and pilot light (including pin)



KL01 /6 /7 /9 /14	Schuko socket with protective shutter and pilot light
KL02 /6 /9 /14	French socket with protective shutter and pilot light

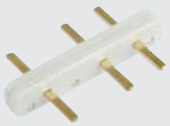
QUICK TERMINAL CONNECTION

Electrical sockets

K11 /6 /7 /8 /9 /14 /27	Schuko socket with protective shutter
K22 /6 /7 /8 /9 /14 /27	French socket with protective shutter

KS11 /6 /9 /14	Socket with safety shutter (pin included)
KS22 /6 /9 /14	Socket with safety shutter (pin included)

Connection block



AC11	Connection block for multi-sockets

Sea application at bottom of page.

Spare parts

AC33 /6
Pin for release the safety shutter on KLS0../.. and KS../.. sockets

Assembly of multi-sockets using the connection block

1 Insert the connection block in the contacts of the socket.

2 Press until the connection block is completely inserted in the contacts.

3 Repeat the process with the next socket and then with the others.

Technical details
See page 174

K45 PROTECTION ELEMENTS

The K45 plates with protection elements provide **protection** to persons from electrical hazards and to installations from voltage surges and overloads.

DIRECT SNAP-FIT

K45 format

The K45 format differential circuit-breakers can be installed in the K45 surface and flush boxes, and thanks to their **high 10 mA sensitivity**, they are suitable for training centres, schools and nurseries.

Education centres

K45 DIN format

OFIBLOCK K45, perimeter assembly in trunking, mini-columns and direct snap-fit K45 columns.

Aesthetic integration

Assembly sequence of the plate for DIN format elements

Clip the DIN guide to the circuit-breaker or differential switch.

Clip the assembly to the section or to the perimeter trunking.

Fit on the top cover.

K45 PLATES WITH PROTECTION ELEMENTS

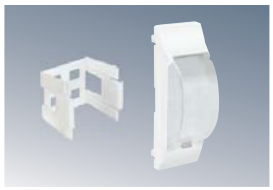
KF04A	/8	/9	/14	K45 plate 3 mechanisms with 16 A bipolar circuit-breaker, Curve C
KF04B	/8	/9	/14	K45 plate 3 mechanisms with 10 A bipolar circuit-breaker, Curve C

KF04C	/8	/9	/14	K45 plate 3 mechanisms with 25 A differential, with IΔN sensitivity of 30 mA

K106A	/8	/9	/14	K45 plate with 10 A circuit-breaker, Curve C

K107A	/8	/9	/14	K45 plate with 10 A circuit-breaker differential, with IΔN sensitivity of 10 mA

K45 PLATES FOR DIN FORMAT PROTECTION ELEMENTS



KF03	/8	/9	/14	K45 plates 3 mechanisms for circuit-breaker or differential, DIN format

OFIBLOCK PLUS K45 configuration example

	Quantity	Ref./Finish	Description
Enclosure	1	**KFP105/14**	OFIBLOCK PLUS K45 with 5 usable K45 mechanisms, graphite
Electrical sockets and plates	1	**KF04B/14**	K45 plate with 10A bipolar circuit-breaker, curve C, graphite
	3	**K11/14**	Quick terminal connection Schuko-format K45 electrical socket, graphite
	2	**AC11**	Connection block for multi-sockets
	1	**K20/14**	K45 cable input plate with retainer included, graphite

Technical details
See page 174

K45 VOICE AND DATA PLATES

DIRECT SNAP-FIT

Angled plates

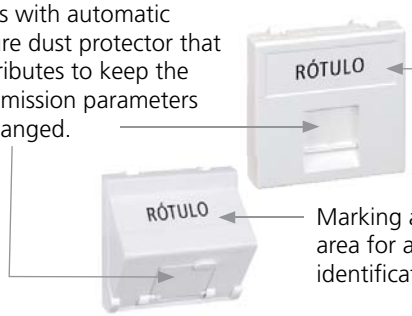
The angled plates are perfect for large connectors and respect **radius curvature** in category 6 and FTP cables.

Flat plates

Flat plates provide full integration in boxes and trunkings.

We take care of the connectors

Plates with automatic closure dust protector that contributes to keep the transmission parameters unchanged.



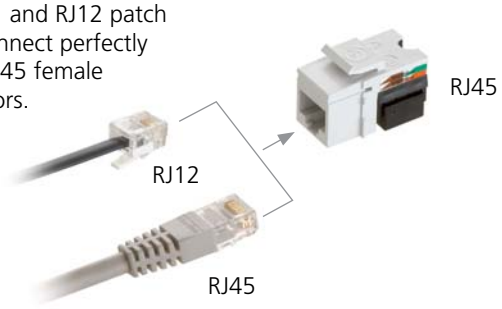
Marking area or area for attaching identification label.

Full compatibility

The SIMON philosophy has always been to make it possible to add any connector on the market to our enclosures.

1 connector for several types of patch cords

The RJ11 and RJ12 patch cords connect perfectly to the RJ45 female connectors.



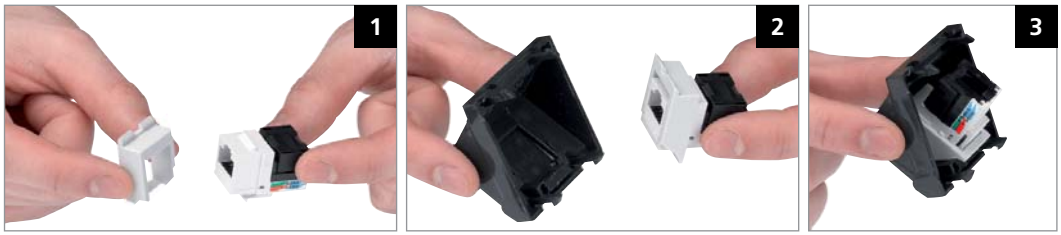
More Solutions for Structured Cabling

Rack Cabinet page 122

Cable page 132

MD modules for angled plates

Clipping sequence of the MD modules on angled plates.



K45 VOICE AND DATA PLATES WITH SIMON RJ45 CONNECTORS

Angled plates with dust protector

1 UTP connector

K8096U	/8	/9	/14	Category 6
K8095U	/8	/9	/14	Category 5e

1 FTP connectors

K8096F	/8	/9	/14	Category 6
K8095F	/8	/9	/14	Category 5e

2 UTP connectors

KB8096U	/8	/9	/14	Category 6
KB8095U	/8	/9	/14	Category 5e

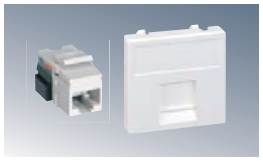
Flat plates with dust protector

1 UTP connector (half-mecanism)

KA96U	/8	/9	/14	Category 6
KA95U	/8	/9	/14	Category 5e

1 FTP connector (half-mecanism)

KA96F	/8	/9	/14	Category 6
KA95F	/8	/9	/14	Category 5e

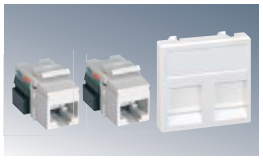


1 UTP connector

K96U	/8	/9	/14	Category 6
K95U	/8	/9	/14	Category 5e

1 FTP connectors

K96F	/8	/9	/14	Category 6
K95F	/8	/9	/14	Category 5e



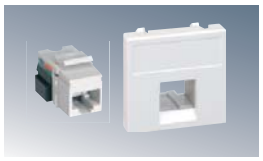
2 UTP connectors

KB96U	/8	/9	/14	Category 6
KB95U	/8	/9	/14	Category 5e

2 FTP connectors

KB96F	/8	/9	/14	Category 6
KB95F	/8	/9	/14	Category 5e

Flat plates without dust protector

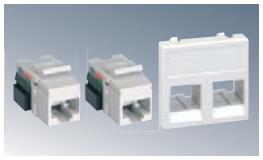


1 UTP connector

K096U	/9		Category 6
K095U	/9		Category 5e

1 FTP connectors

K096F	/9		Category 6
K095F	/9		Category 5e



2 UTP connectors

KB096U	/9		Category 6
KB095U	/9		Category 5e

2 FTP connectors

KB096F	/9		Category 6
KB095F	/9		Category 5e

Cable connection tool

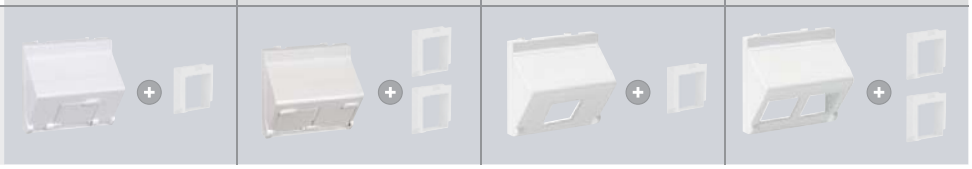
Insertion and cutting sheet included

Other Structured Cabling tools on page 135

CH100
IDC110 cable connection tool for voice and data connectors and panels

Technical details
See page 175

COMPATIBILITY CIMA VOICE AND DATA PLATES BY SIMON

Angled K45 plates for other brands of connectors	With dust protector		Without dust protector	
	1 connector	2 connectors	1 connector	2 connectors
MANUFACTURERS				
Finish options	/9 /14 /8		/9 /14	
SIMON	K80/.. + MD67	KB80/.. + 2 MD67	K080/.. + MD67	KB080/.. + 2 MD67
3M® (Volition OCK®: RJ45, K5e, K6)	-	-	K080/.. + MD45	KB080/.. + 2 MD45
AMP netconnect® (TYCO ELECTRONICS®)				
Standard 110	K80/.. + MD67	-	K080/.. + MD67	-
SL110 and SL toolless	K80/.. + MD67	KB80/.. + 2 MD67	K080/.. + MD67	KB080/.. + 2 MD67
216000 and 216005	K80/.. + MD64	-	K080/.. + MD67	-
BeldenCDT® (NORDX®)				
Giga Flex MDVO	K80/.. + MD68	KB80/.. + 2 MD68	K080/.. + MD68	KB080/.. + 2 MD68
Giga Flex Keystone	K80/.. + MD64	KB80/.. + 2 MD64	K080/.. + MD64	KB080/.. + 2 MD64
BRAND-REX® (BICC®)	K80/.. + MD67	-	K080/.. + MD67	-
CORNING® (SIEMENS®)	K80/.. + MD79	KB80/.. + 2 MD79	K080/.. + MD79	KB080/.. + 2 MD79
ERSYS®	K80/.. + MD64	KB80/.. + 2 MD64	K080/.. + MD64	KB080/.. + 2 MD64
ADC KRONE®				
KM8 keystone series	K80/.. + MD64	KB80/.. + 2 MD64	K080/.. + MD64	KB080/.. + 2 MD64
HK keystone series	K80/.. + MD64	-	K080/.. + MD64	-
MOLEX®	K80/.. + MD64	KB80/.. + 2 MD64	K080/.. + MD64	KB080/.. + 2 MD64
NEXANS® (LAN mark®-5 EVO, LAN mark®-6 EVO)	K80/.. + MD85	KB80/.. + 2 MD85	K080/.. + MD85	KB080/.. + 2 MD85
ORTRONICS®				
Clarity TechChoice Keystone	K80/.. + MD64	KB80/.. + 2 MD64	K080/.. + MD64	KB080/.. + 2 MD64
PANDUIT®	K80/.. + MD69	KB80/.. + 2 MD69	K080/.. + MD69	KB080/.. + 2 MD69
R&M® (REICHLE DE MASSARI®)				
CLASSIC Cat5e (R304326, R304325)	K80/.. + MD54	KB80/.. + 2 MD54	K080/.. + MD54	KB080/.. + 2 MD54
STAR Cat6 (R304328)	K80/.. + MD54	KB80/.. + 2 MD54	K080/.. + MD54	KB080/.. + 2 MD54
REAL 10 (R304327, R313083)	K80/.. + MD54	KB80/.. + 2 MD54	K080/.. + MD54	KB080/.. + 2 MD54
RIT®	K80/.. + MD67	KB80/.. + 2 MD67	K080/.. + MD67	KB080/.. + 2 MD67
SIEMON®				
MAX Keystone Series	K80/.. + MD64	KB80/.. + 2 MD64	K080/.. + MD64	KB080/.. + 2 MD64
SYSTIMAX® (AVAYA®) (ATT®)	K80/.. + MD63	KB80/.. + 2 MD63	K080/.. + MD63	KB080/.. + 2 MD63

Certain FTP connectors may be incompatible if installed in double plates. Check compatibility.
Simon bears no responsibility for any change or modification made by the connector manufacturer.

Accessory

K66

K45 90° positioner to place the K45 Voice and Data plates in a vertical position for TELEBLOCK K45, K45 Columns and Mini-columns.

COMPATIBILITY CIMA VOICE AND DATA PLATES BY SIMON

Flat K45 Plates for other brands of connectors	With dust protector			Without dust protector		
	1 connector (half mechanism)	1 connector	2 connectors	1 connector (half mechanism)	1 connector	2 connectors
MANUFACTURERS						
Finish options			/9 /14			
SIMON	N▶ KA76/..*	N▶ K76/..*	N▶ KB76/..*	-	N▶ K076/..	N▶ KB076/..
3M® (Volition OCK®: RJ45, K5e, K6)				KA045/..	K045/..	KB045/..
AMP netconnect® (TYCO ELECTRONICS®)						
Standard 110	N▶ KA76/..	N▶ K76/..	-	-	N▶ K076/..	-
SL110 and SL toolless	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..
216000 and 216005	N▶ KA76/..	N▶ K76/..	-	-	N▶ K076/..	-
BeldenCDT ® (NORDX) ®						
Giga Flex MDVO	KA68/..	K68/..	KB68/..	-		
Giga Flex Keystone	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..
BRAND-REX® (BICC®)	N▶ KA76/..	N▶ K76/..	-	-	N▶ K076/..	-
ERSYS®	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..
GENERAL CABLE®	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..
IBM®	-	K87/..	KB87/..	-	K087/..	-
INFRA +®	KA75/..	K75/..	KB75/..	-	K075/..	KB075/..
ITT CANNON®	KA65/..	K65/..	KB65/..	-		
KRONE®						
KM8 keystone series	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..
HK keystone series	-	K82/..	-	-		-
MOLEX®	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..
NEXANS® (LAN mark®-5EVO, LAN mark®-6EVO)	KA85/..	K85/..	KB85/..	-	K085/..	KB085/..
ORTRONICS®						
Clarity TracJack	-	-	-	-	-	-
Clarity TechChoice Keystone	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	K281/..	N▶ K076/..	N▶ KB076/..
PANDUIT®	KA69/..	K69/..	KB69/..	-	K069/..	KB069/..
R&M® (REICHLE DE MASSARI®)						
CLASSIC Cat5e (R304326, R304325)	-	-	-	-	K054/..	-
STAR Cat6 (R304328)	-	-	-	-	K054/..	-
REAL 10 (R304327, R313083)	-	-	-	-	K054/..	-
RIT®	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..
SIEMON®						
MAX Series	-	-	-	-	-	KB72 /9
MAX Keystone Series	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..
SYSTIMAX® (AVAYA®) (ATT®)	N▶ KA76/..	N▶ K76/..	N▶ KB76/..	-	N▶ K076/..	N▶ KB076/..

90° positioner for Voice and Data plates installed in vertical sections such as K45 TELEBLOCK

/.. Finish * Also available in /8 N▶ New product

K45 MULTIMEDIA PLATES

VDM VOICE, DATA AND MULTIMEDIA

DIRECT SNAP-FIT

Audiovisual plates for multimedia connections with projectors, audio systems, mobile devices, video-conferencing and IT equipment.

Especially suitable for installation in meeting rooms, auditoriums, mixing rooms, etc.

Compatible with K45 and 500 CIMA enclosures (using adaptor plates *See page 76*)

Centralisation of audiovisual equipment

New easier terminal connection system. No welding

Screw-fasten terminals

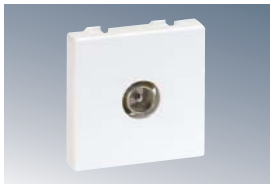
Female-female

Meeting room configuration example

Enclosures	Quantity	Ref./Finish	Description
	1	**KFC104/14**	Ofiblock K45 with 4 usable K45 mechanisms, graphite
	1	**KSF134/8**	Frame for Ofliblock Line K45, polished chrome-plated
Electrical sockets and plates	1	**K11/14**	Quick terminal connection Schuko-format K45 electrical socket, graphite
	1	**KB96U/14**	K45 V&D flat plate with 2 connectors Cat. 6 UTP, graphite
	1	**K100B/14**	K45 plate with 1 VGA female connector, graphite Screw connection
	1	**K128B/14**	K45 plate with 1 USB connector type A, female, graphite. Screw connection
	1	**K129B/14**	K45 plate with 1 HDMI connector, graphite Female-female connection

K45 TV-SAT SOCKETS

K130A /8 /9 /14 — K45 plate with male TV socket + IEC universal female SAT. Connection by screw



K120A /8 /9 /14 — K45 plate with IEC simple male TV socket. Connection by screw

K102B /8 /9 /14 — K45 ½-mechanism plate with one IEC simple female TV socket. Connection by soldering

K102C /8 /9 /14 — K45 ½ mechanism plate with 1 single female satellite socket. Female. Connection by soldering

MULTIMEDIA CONNECTIONS

K126A /8 /9 /14 — 5V/DC USB charger and micro-USB patch cord. For charging PDAs, mobile phones, etc.

N New product

K105B /8 /9 /14 — K45 ½ mechanism plate with 3 RCA audio and video connectors. Connection by screw

N New product

K128B /8 /9 /14 — K45 ½ mechanism plate with 1 USB connector type A, female. Connection by screw

N New product

K123B /8 /9 /14 — K45 ½ mechanism plate with 1 mini-jack connector. Connection by screw

N New product

K100B /8 /9 /14 — K45 plate 1 mechanism with 1 VGA female connector. Connection by screw

N New product

K103B /8 /9 /14 — K45 ½ mechanism plate with 1 S-Video female connector. Connection by screw

N New product

K129B /8 /9 /14 — K45 ½ mechanism with 1 HDMI connector. Female-female connection

N New product

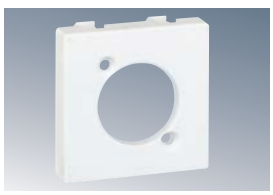
K102D /8 /9 /14 — K45 ½ mechanism plate with 1 BNC 75 Ω connector. Connection by soldering

K101B /8 /9 /14 — K45 ½ mechanism plate with 2 RCA audio connectors. Connection by screw

N New product

K104A /8 /9 /14 — K45 plate 2 mechanisms with 1 SUBD 25 female connector. Parallel port. Connection by soldering

PLATES FOR XLR CONNECTORS



K122 /8 /9 /14 — K45 1 mechanism plate for 1 XLR male or female connector

Technical details
See page 176

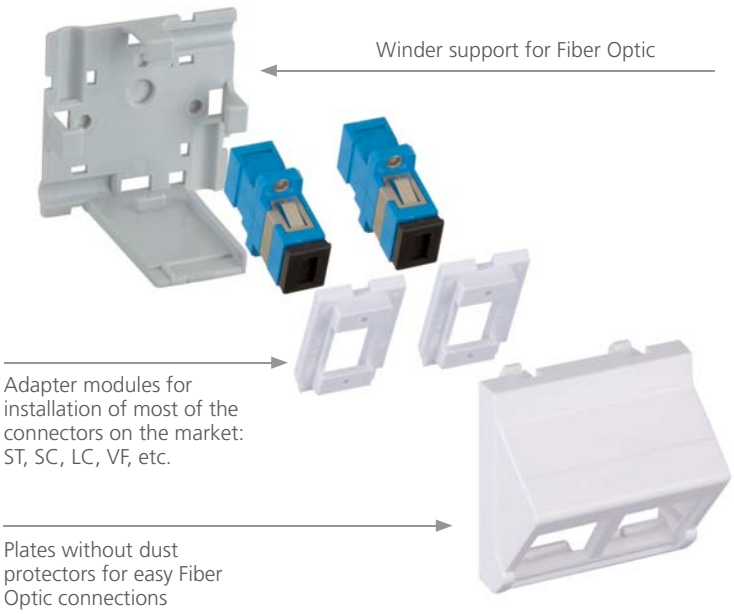
K45 PLATES FOR FIBER OPTIC

Fibre to the workstation

At SIMON we are one step ahead of the future and have believed in Fiber Optic access at workstation terminals for some time now. We therefore have a broad range of plates for most Fiber Optic connectors on the market.

Angled plate with the **AC80 accessory**, Fiber Optic winder mount

DIRECT SNAP-FIT



CONFIGURATIONS

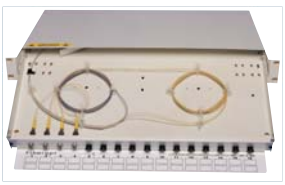
Plate mounted with ST connectors and Fiber Optic winder support.

Plate mounted with SC duplex connectors and Fiber Optic winder support.

More Fiber Optic elements at:

Rack cabinet

+ information page 122



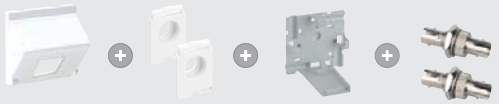
Distribution trays

+ information page 137

Adapters and connectors

+ information page 137

K45 PLATES WITH 2 ST ADAPTERS



KB080 /9 + 2 MD59 + AC80 + 2 CF10100

Angled K45 plate for 2 ST adaptors with Fiber Optic winder support
(Optional)

K45 PLATES WITH 1 DUPLEX SC ADAPTER

K74 /9 + AC80 + CF10200

Angled K45 plate for 1 SC duplex adaptor with Fiber Optic winder support
(Optional)

K45 PLATES FOR 2 INDIVIDUAL SCs (WITHOUT CONNECTORS)

KB080 /9 + 2 MD74 + 2 AC80

Angled K45 plate for 2 SC simplex connectors with Fiber Optic winder support
(Optional)

KB74 /9

Angled K45 plate for 2 SC simplex connectors
(AC80 not compatible)

K45 PLATES FOR LC (WITHOUT CONNECTORS)

K080 /9 + 1 MD62 + AC80

Angled K45 plate for 1 LC connector with Fiber Optic winder support
(Optional)

K45 PLATES FOR 3M® VF-45 (WITHOUT CONNECTORS)

K080 /9 + 1 MD45

Angled K45 plate for 1 3M® VF-45 connector

Accessories

AC80
Fiber Optic winder support for K080/.., KB080/.. and K74/.. plates

K66
K45 90º positioner for placing the Voice and Data plates in vertical position in K45 Columns and TELEBLOCK K45.

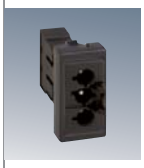
See installation sequence on page 81

Technical details
See page 181

K45 PLATES FOR QUICK-CONNECTION SYSTEM

DIRECT SNAP-FIT

K45 PLATES WITH QUICK-CONNECTION CONNECTORS



K121A /9 /14 K45 plate with one (1) K45 3 pole male quick-connector

K121B /9 /14 K45 plate with one (1) 3 pole female quick-connector

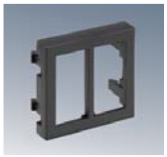
K45 PLATES WITH IEC320 QUICK-CONNECTION CONNECTORS

K305A /9 /14 K45 plate with one (1) IEC320 male quick-connector

K306A /9 /14 K45 plate with one (1) IEC320 female quick-connector

K45 PLATES FOR QUICK-CONNECTION CONNECTORS

K121 /9 /14 K45 plate for one 3 pole male or female quick-connection connector



KB18 /9 /14 K45 plate for two 3 pole male or female quick-connection connectors

K18 /9 /14 K45 plate for one 3 pole male or female quick-connection connector

K18W5 /9 /14 K45 plate for one 5 pole male or female quick-connection connector

Other quick-connection elements

See quick connection on page 140

3 pole connectors

Patch cords

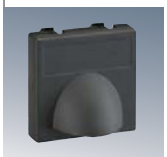
5 pole connectors

Technical details
See page 181

K45 PLATES - VARIOUS

DIRECT SNAP-FIT

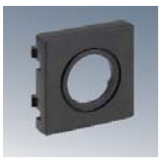
K45 PLATES FOR CABLE OUTLET



K10 /8 /9 /14 K45 cable outlet plate. Includes rings for holding cables using flanges.

K20 /9 /14 K45 cable outlet plate with retainer included (2 Ø 13 mm and 4 Ø 6 mm)

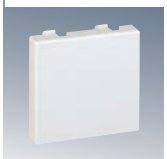
K21 /9 /14 K45 20x30 trunking access plate for OFIBLOCK PLUS



K19 /9 /14 K45 plate for Ø 22 mm pipe or gland seal and Ø 29 mm pre-punched hole

K45 BLIND PLATES

K105 /8 /9 /14 Half K45 mechanism blind plate



K17 /8 /9 /14 K45 blind plate

K45 SIGNALLING AND BEACONING PLATES

KL05 /9 /14 K45 plate with power indicator pilot light

Technical details
See page 181

PVC and Aluminium mini-trunking

PVC and Aluminium cable adapter trunking

PVC and Aluminium K45 CABLOMAX trunking

PVC and Aluminium K45 trunking

DCS system

Cable organiser

Simon trunking

Mini-trunking	92 >	PVC mini-trunking
	96 >	Aluminium mini-trunking
Cable adapter trunking	98 >	PVC Cable adapter trunking
	100 >	Aluminium cable adapter trunking
K45 trunking with direct snap-fitting	104 >	K45 CABLOMAX trunking
	108 >	K45 PVC and aluminium trunking
Floor trunking	114 >	DCS system
Multifunction	116 >	Cable organiser

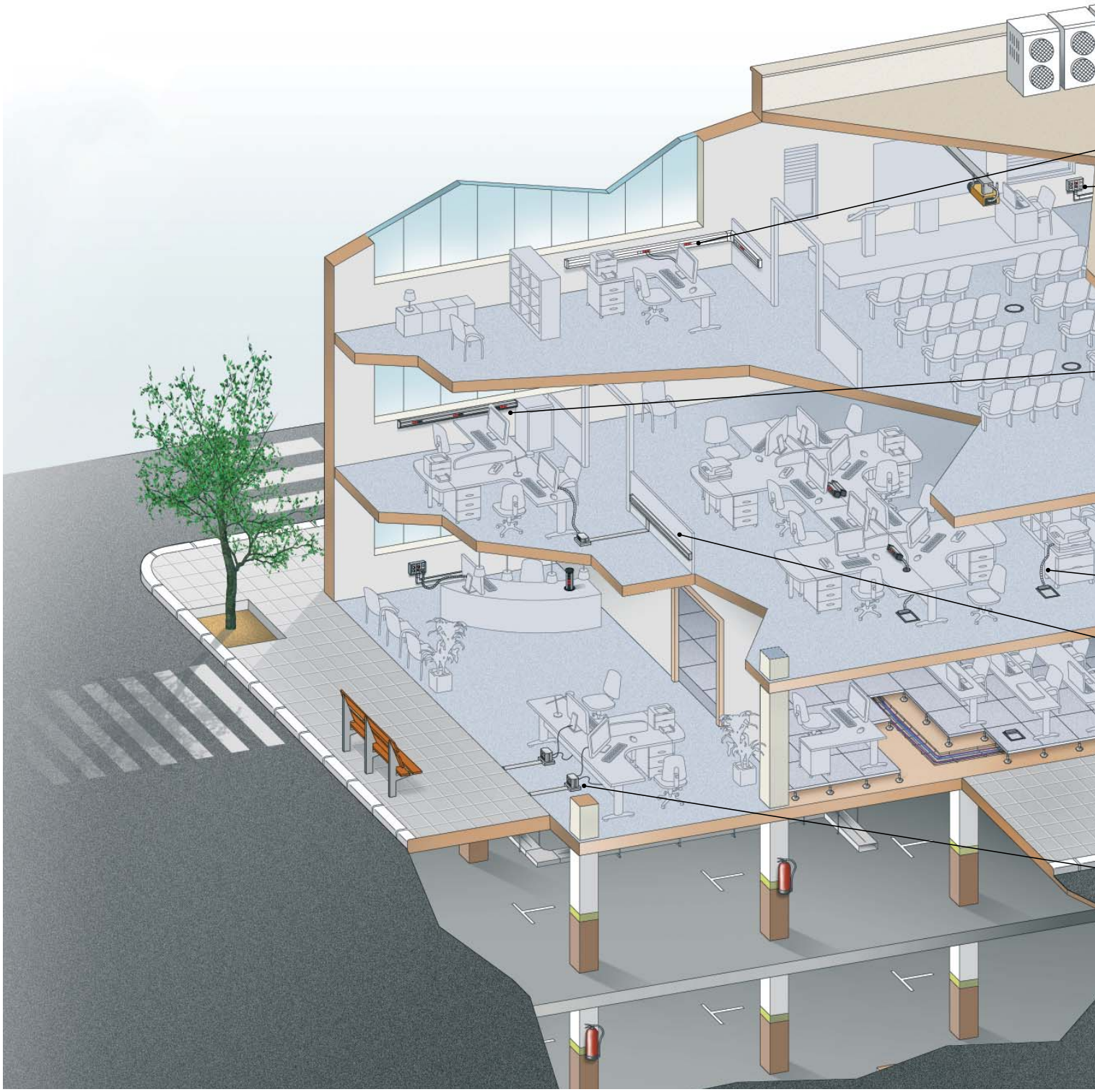
Self-extinguishing, halogen-free materials: A guarantee of safety for persons, equipment and information.

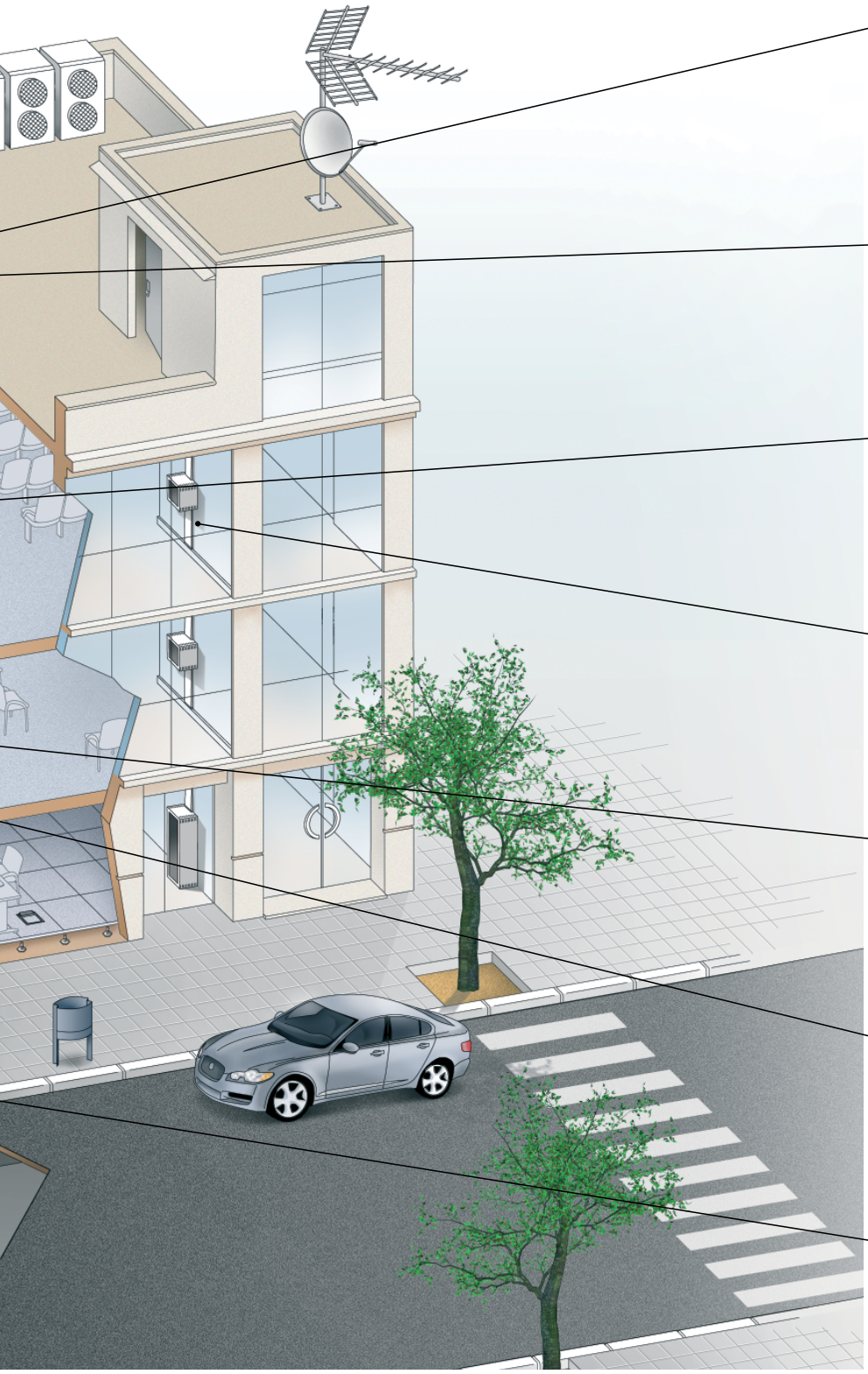
Compatibility with all the Voice, Data and Multimedia connectors on the market.

RoHS directive. SIMON CONNECT trunkings comply with the European RoHS Directive on thermoplastic and metal materials.

Circuit separation. Optimum separation of electricity and telecommunication cables.

PRODUCT APPLICATION





K45
PVC Trunking
108

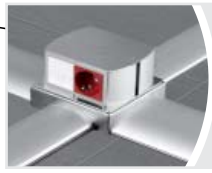
MINI-TRUNKING
92

CABLOMAX K45
Trunking
104

Trunking
Cable grommet
98

Cabling
Organiser
116

K45
ALUMINIUM
Trunking
112



DCS Trunking
114

PVC MINI-TRUNKING

Specifications:

- Material: PVC mini-trunking.
- White thermoplastic accessories.
- Trunking length: 2 metres sections.
- Protective film.
- IP protection level: 4x.
- Impact resistance: IK07, medium.
- Does not propagate flames.
- Hinged cover.

Complies with:

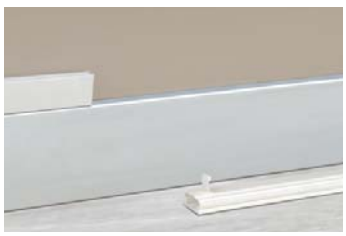
- Directive 2006/95/EC.
- Low voltage electrotechnical regulations, Royal Decree 842/2002
- Harmonised standard UNE-EN-50.085.
- Regulations for Common Telecommunication Infrastructures (RICT) RD 401/2003.
- ROHS directive.
- EC-marked product.

Mini-trunking with fold-down cover

The cover design makes it possible to retain the cables while performing the installation.

Easy to install

All the models are equipped with two runners every 25 cm, which allows quick and easy fastening of the trunking to the wall.



The 10x22 mm model with standard adhesive makes it possible to quickly and easily attach the mini-trunking to the wall.

Cable retainer

The 40x60 mm mini-trunking model is supplied with 1 cable retainer every 0.5 m.

Separation of electrical and VDM circuits

VDM VOICE, DATA & MULTIMEDIA

Optimum separation of the low-tension current circuits and improved organisation of electrical and telecommunications cables.

Option to choose measurement for Mini-trunking with dual compartment **(Models 20x30 mm, 20x50 mm and 40x60 mm)**

JUNCTION AND INTEGRATION WITH K45 TRUNKING AND PVC CABLE ADAPTER TRUNKING.

Junction of any size from the K45 Trunking and PVC Cable adapter trunking series to the Mini-trunking with 1 single accessory (ref. TKA107/9).

INTEGRATION OF 500 CIMA SURFACE BOXES

Adapter references 51010900-030 and 51020900-030 allow front adaptation of 500 CIMA boxes to 20x30 mm and 20x50 mm Mini-trunking. *See page 23*

INTEGRATION OF INDIVIDUAL K45 BOXES AND OFIBLOCK PLUS K45

Adapter references SCM21F/9 and SCM31F/9 allow front adaptation of K45 boxes and Ofiblock Plus K45 to 20x30 mm and 20x50 mm Mini-trunking. *See page 60 and 54*

INTEGRATION WITH SIMON 73 LOFT

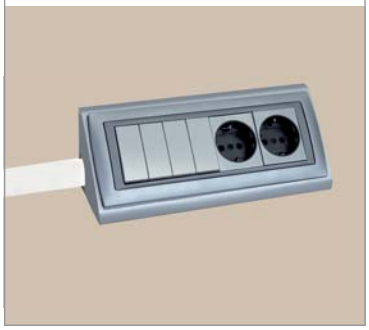
See Simon 73 Loft.

See page 193 from Simon General Catalogue 2010/2011

INTEGRATION WITH SIMON 82 CENTRALISATIONS

See Simon 82 Centralisations.

See page 143 from Simon General Catalogue 2010/2011

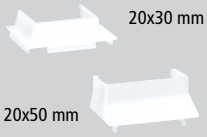


PVC MINI-TRUNKING

Mini-trunking | Accessories

• PVC • Length: 2 m	Flat angle piece	External angle piece	Internal angle piece	End cover
10x22 mm. 1 compartment				
 TM1022 /9	TMA101201 /9	TMA102201 /9	TMA103201 /9	TMA104201 /9
10x22 mm with adhesive 1 compartment				
 TM1022A /9	TMA101201 /9	TMA102201 /9	TMA103201 /9	TMA104201 /9
20x30 mm. 1 compartment				
 TM12021 /9	TMA101202 /9	TMA102202 /9	TMA103202 /9	TMA104202 /9
20x30 mm. 2 compartments				
 TM12022 /9	TMA101202 /9	TMA102202 /9	TMA103202 /9	TMA104202 /9
20x50 mm. 1 compartment				
 TM12031 /9	TMA101203 /9	TMA102203 /9	TMA103203 /9	TMA104203 /9
20x50 mm. 2 compartments				
 TM12032 /9	TMA101203 /9	TMA102203 /9	TMA103203 /9	TMA104203 /9
40x60 mm. 1 compartment				
 TM12051 /9	TMA101205 /9	TMA102205 /9	TMA103205 /9	TMA104205 /9
40x60 mm. 2 compartments				
 TM12052 /9	TMA101205 /9	TMA102205 /9	TMA103205 /9	TMA104205 /9

The 40x60 mm Mini-trunking is supplied with 1 retainer every 0.5 m

				
Sealing ring	T junction	Cable retainer	Junction to Mini-trunking	500 CIMA and K45 boxes adaptor
TMA105201 /9	TMA106201 /9	–	TKA107 /9	–
TMA105201 /9	TMA106201 /9	–	TKA107 /9	–
TMA105202 /9	TMA106202 /9	–	TKA107 /9	K45 SCM21F /9 500 CIMA 51010900-030
TMA105202 /9	TMA106202 /9	–	TKA107 /9	K45 SCM21F /9 500 CIMA 51010900-030
TMA105203 /9	TMA106203 /9	–	TKA107 /9	K45 SCM31F /9 500 CIMA 51020900-030
TMA105203 /9	TMA106203 /9	–	TKA107 /9	K45 SCM31F /9 500 CIMA 51020900-030
TMA105205 /9	TMA106205 /9	in trunking 40x60 TMA107205 /9	TKA107 /9	–
TMA105205 /9	TMA106205 /9	in trunking 40x60 TMA107205 /9	TKA107 /9	–

Technical details
See page 190

Trunking section
See page 195

ALUMINIUM MINI-TRUNKING

Specifications:

- Material: anodised-aluminium Mini-trunking.
- Anodised-aluminium / steel accessories.
- Trunking length: 2 metres sections.
- Protective film.
- IP protection level: 4x.
- Impact resistance: IK07, medium.
- Does not propagate flames.

Complies with:

- Directive 2006/95/EC.
- Low voltage electrotechnical regulations, Royal Decree 842/2002
- Harmonised standard UNE-EN-50.085.
- Regulations for Common Telecommunication Infrastructures (RICT) RD 401/2003.
- ROHS directive.
- EC-marked product.

Optimum installation

Especially designed for cabling distribution and junctions or internal installation of the pre-cabled ELECTROBANDA trunking (65x40 mm model).

DCS System integration: floor trunking

The junction accessory of the DCS trunking to the perimeter trunking allows the distribution of cables from the floor trunking (85x18 mm and 130x18 mm models) to the wall-mounted trunking (65x20 mm model).

See page 114

Separation of electrical and VDM circuits

The trunking's **dual compartment** (65x20 mm model) allows electrical and telecommunications cables to be separated and better organised.

Aluminium mini-trunking 65x20 mm 2 compartments

Adaptation of pre-cabled Electrobanda trunking

It allows quick and easy installation of the pre-cabled ELECTROBANDA trunking, which clips directly onto the 65x40 mm model.

See page 144

Aluminium mini-trunking 65x40 mm and ELECTROBANDA

ALUMINIUM MINI-TRUNKING

Trunking	Accessories			
• Aluminium with 65 mm cover • Length: 2 m	Flat 90° angle piece	External 90° angle piece	Internal 90° angle piece	End cover
65x20 mm 2 compartments				
 TM21042 /8	–	TMA202104 /8 *	TMA203104 /8 *	TMA204404 /8
65x40 mm 1 compartment				
 TM21061 /8	TMA201106 /8 *	TMA202406 /24	TMA203406 /24	TMA204106 /8

* 2 trunking sections cut at an angle

Functional accessories

TKA903
Section connecting pin

TKA904
Cable with faston connector for 120 mm earth connection

Adaptation of pre-cabled ELECTROBANDA trunking mechanisms

TMA08 /8
65x120 mm aluminium plate for ELECTROBANDA Schuko socket

TMA07 /8
65x120 mm aluminium plate for ELECTROBANDA French socket

Spare Parts Aluminium mini-trunking with 65 mm cover

RTT003 /8
Front cover for aluminium mini-trunking 65x40 mm anodised aluminium

RTP001 /8
Mini-trunking section 65x40 mm anodised aluminium

Technical details *See page 192*

Trunking section *See page 195*

PVC CABLE ADAPTER TRUNKING

Specifications:

- Material: PVC trunking.
- White thermoplastic accessories.
- Allows for the adaptation of SIMON universal mechanisms and 500 CIMA surface boxes.
- Trunking length: 2 metres sections.
- Protective film.
- IP protection level: 4x.
- Impact resistance: IK07, medium.
- Does not propagate flames.

Complies with:

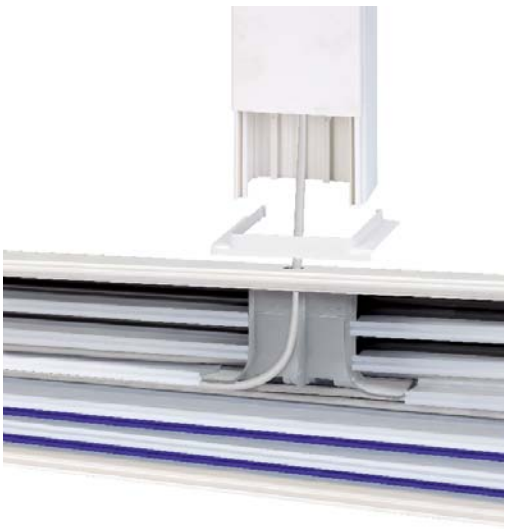
- Directive 2006/95/EC.
- Low voltage electrotechnical regulations, Royal Decree 842/2002
- Harmonised standard UNE-EN-50.085.
- Regulations for Common Telecommunication Infrastructures (RICT) RD 401/2003.
- ROHS directive.
- EC-marked product.

Integration of 500 CIMA surface boxes

Perfect adaptation of the **500 CIMA** surface boxes with any Cable Adapter Trunking.

Curvature angles

It keeps the perfect curvature of the structured cabling using the cable junction (TSA003). A single reference valid for all trunking sizes.



Sturdier

Sturdier and improved cable fastening by positioning the retainer at any point of the trunking.

All models include 1 cable retainer for every 0.5 metres.

Separation of electrical and VDM circuits

Optimum separation of the low-voltage current circuits and improved organisation of electrical and telecommunications cables. Cable Adapter Trunking offers the possibility of configuring up to 6 compartments.

VDM
VOICE, DATA & MULTIMEDIA

Installation ease

All models are equipped with two mounting holes every 25 cm, which allows quick and easy fastening to the wall.

NEW CABLE FASTENING SYSTEM

The flange holder holes every 25 cm on the anchor guide facilitate fastening of the cabling without the need for any additional accessories.

PERFECT ALIGNMENT

Perfect and quick alignment is achieved using the connection sections, with no tools required.

WITH PROTECTIVE FILM

T JUNCTION

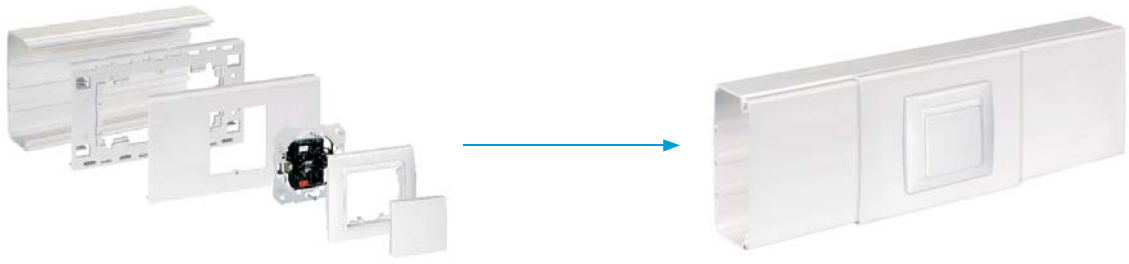
It allows making branches to main or secondary trunkings with an excellent finish.

INTEGRATION WITH THE MINI-TRUNKING

A single accessory (TKA107/9) allows branching from any CABLE ADAPTER trunking model to a PVC Mini-trunking.

ADAPTATION OF SIMON UNIVERSAL MECHANISMS

Adaptation of the trunking with SIMON universal mechanisms.



Adaptation of SIMON Universals mechanisms

PVC CABLE ADAPTER TRUNKING

VDM VOICE, DATA & MULTIMEDIA

Trunking	Accessories						
• PVC/Pure white • Length: 2m The PVC Cable Adapter Trunking is supplied with 1 retainer every 0.5 metres	Cable retainer (supplied in trunking)	Flat angle piece	External angle piece variable	Variable internal angle piece	End cover	Sealing ring	T junction
90x55 mm. 3 compartments							
 TS9055 /9	TSA905501	TKA101208 /9	TKA102208 /9	TKA103208 /9	TSA905502 /9	TKA105208 /9	to 90x55 TKA106208 /9
130x55 mm 4 compartments							
 TS13055 /9	TSA1305501	TKA1305505 /9	TKA1305506 /9	TKA1305507 /9	TSA1305502 /9	TKA1305508 /9	to 90x55 TKA106208 /9 to 130x55 TKA106210 /9
160x55 mm 4 compartments							
 TS16055 /9	TSA1605501	TKA101212 /9	TKA1605506 /9	TKA1605507 /9	TSA1605502 /9	TKA105212 /9	to 90x55 TKA106208 /9 to 130x55 TKA106210 /9 to 160x55 TKA106212 /9
185x55 mm 6 compartments							
 TS18555 /9	TSA1855501	TKA101214 /9	TKA1855506 /9	TKA1855507 /9	TSA1855502 /9	TKA105214 /9	to 90x55 TKA106208 /9 to 130x55 TKA106210 /9 to 160x55 TKA106212 /9

Functional accessories

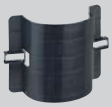
TSA001
Interior divider, 55 mm
1 m section.

TSA002
Connector pin

TSA003
Cable junction

MECHANISM ADAPTATION

Universal mechanisms Simon

		
Junction to Mini-trunking 10x22, 20x30, 20x50 and 40x60	Flat curvature radius	Outer curvature radius
TKA107 /9	TKA108	TKA109
TKA107 /9	TKA108	TKA109
TKA107 /9	TKA108	TKA109
TKA107 /9	TKA108	TKA109

Universal frame and inner frame

TSA905504 /9	90x55 mm trunking
TSA1305504 /9	130x55 mm trunking
TSA1605504 /9	160x55 mm trunking

Adaptation of SIMON UNIVERSAL mechanisms

Technical details *See page 188*

Trunking section *See page 195*

ALUMINIUM CABLE ADAPTER TRUNKING

Specifications:

- Material: Anodised-aluminium trunking.
- Thermoplastic accessories painted in aluminium colour.
- Allows for the adaptation of 500 CIMA surface boxes and SIMON universal mechanisms.
- Trunking length: 2 metres sections.
- Protective film.
- IP protection level: 4x.
- Impact resistance: IK07, medium.
- Does not propagate flames.

Complies with:

- Directive 2006/95/EC.
- Low voltage electrotechnical regulations, Royal Decree 842/2002
- Harmonised standard UNE-EN-50.085.
- Regulations for Common Telecommunication Infrastructures (RICT) RD 401/2003.
- ROHS directive.
- EC-marked product.

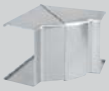
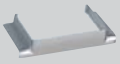
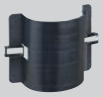
Adaptation of universal mechanisms

Universal mechanisms are mounted using the linkable universal mechanism adapter (Ref. TSA007).

Integration of 500 CIMA surface boxes

Perfect adaptation of the **500 CIMA** surface boxes with any Cable Adapter Trunking.

ALUMINIUM TRUNKING FOR UNIVERSAL MECHANISMS

Trunking	Accessories							
								
• Anodised aluminium with 1 compartment • Length: 2m	Flat angle piece (Painted aluminium)	Variable external angle piece (Painted aluminium)	Variable internal angle piece (Painted aluminium)	End cover (Painted aluminium)	Splice plate (Painted aluminium)	T junction (Painted aluminium)	Flat radius of curvature	Outer radius of curvature
90x55 mm								
 TS9055 /8	TKA101208 /8	TKA102208 /8	TKA103208 /8	TKA905502 /8	TKA105208 /8	to 90x55 TKA106208 /8	TKA108	TKA109
130x55 mm.								
 TS13055 /8	TKA1305505 /8	TKA1305506 /8	TKA1305507 /8	TKA1305502 /8	TKA1305508 /8	to 90x55 TKA106208 /8 to 130x55 TKA106210 /8	TKA108	TKA109

Functional accessories

TSA001
Interior divider (55 mm)
1 m section
Supplied in 1 metre sections

TSA002
Connector pin

TKA904
Cable with faston connector for 120 mm earth connection

Mechanism adaptation accessories

TSA007
Linkable adapter for universal mechanisms

Technical details *See page 190*

Trunking section *See page 195*

K45 CABLOMAX TRUNKING

Specifications:

- Material: Trunking with thermoplastic base.
- Covers available in PVC or anodised aluminium.
- White and painted-aluminium thermoplastic accessories
- Direct integration of Simon K45 mechanisms.
- Trunking length: 2 metres sections.
- Protective film.
- Does not propagate flames.

Complies with:

- Directive 2006/95/EC.
- Low voltage electrotechnical regulations, Royal Decree 842/2002
- Harmonised standard UNE-EN-50.085.
- Regulations for Common Telecommunication Infrastructures (RICT) RD 401/2003.
- ROHS directive.
- EC-marked product.

Elegant and functional design

This trunking was especially designed with the highest performance levels for integration in any space such as **executive offices, meeting rooms and conference halls** or **offices, commercial premises, waiting rooms, libraries, testing laboratories**, etc.

The **K45 CABLOMAX trunking is available with PVC or aluminium covers**, so you can choose the best finish according to the interior decoration needs of the room.

Executive offices

Offices

Installation safety

VDM VOICE, DATA & MULTIMEDIA

Separation of electrical and VDM circuits

- The cables circulate through the upper and lower compartments and the central compartment is reserved for housing the mechanisms. This ensures **correct separation of electrical and telecommunications circuits**.
- The aluminium covers have an earth connection guide.

Optimum installation

FASTER AND EASIER

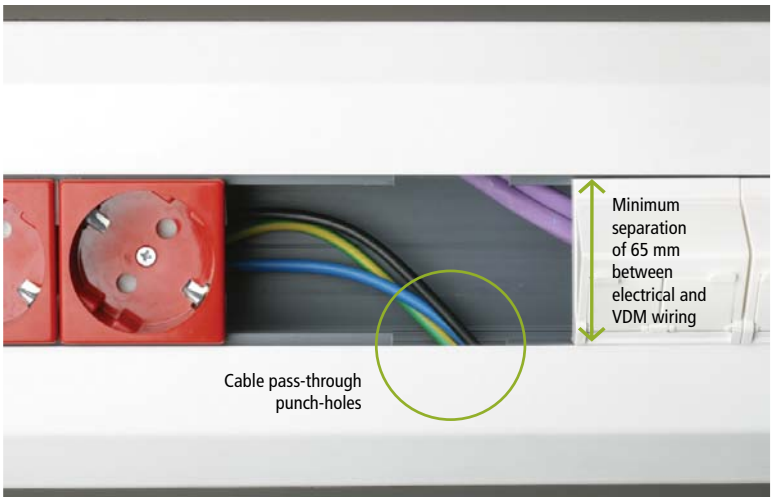
CABLOMAX trunking for direct snap-fit K45 mechanisms

Enables the assembly of all the mechanisms in the K45 range, without needing any accessories, which affords **great savings in assembly time** and therefore **reduces installation costs**.

DESIGNED FOR MAXIMUM FUNCTIONALITY

The cable trays included in the base of the trunking act like a wall separating the circuits and retaining the cables.

The pre-punched holes every 75 cm in the fixed inner compartments allow the mechanisms to be supplied with power without having to mechanise the trunking.



INCREASED FLEXIBILITY

Variable ABS white or anodised aluminium corner pieces from 65° to 95°.

Allow better adaptation of the trunking to the unevenness of a wall.

PVC CABLOMAX FOR K45 MECHANISMS

DIRECT
SNAP-FIT

Trunking	Accessories						
• 3 compartments • PVC base and covers • Length: 2 m	Flat angle piece upward 90º	Flat angle piece downward 90º	External angle piece variable	Variable internal angle piece	End cover	Sealing ring	T junction
130x55 mm.							
 TK02103 /9	TKA011210 /9	TKA021210 /9	TKA002210 /9	TKA003210 /9	TKA004210 /9	TKA005210 /9	TKA0062 /9
170x55 mm							
 TK02133 /9	TKA011213 /9	TKA021213 /9	TKA002213 /9	TKA003213 /9	TKA004213 /9	TKA005213 /9	TKA0062 /9
210x55 mm							
 TK02163 /9	TKA011216 /9	TKA021216 /9	TKA002216 /9	TKA003216 /9	TKA004216 /9	TKA005216 /9	–

K45 Installation accessories

K11/..
Electrical sockets
Quick terminal connection
+ information page 74

K106A/..
Protection
K45 circuit-breaker
+ information page 76

KF04B/..
Protection
DIN circuit-breaker
+ information page 76

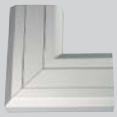
K302 **K112/..**
Switches
K45 switch
+ information page 73

KB95U/..
VD plates
VD plate with connectors
+ information page 78

K100B/..
Multimedia Plates
1 VGA connector plate
+ information page 82

K305A/..
Quick connection plates
3 pole 1 connector plate
+ information page 86

ALUMINIUM CABLOMAX FOR K45 MECHANISMS

Trunking	Accessories						
							
• 3 compartments • PVC socket and anodised aluminium covers • Length: 2 m	Flat angle piece upward 90º	Flat angle piece downward 90º	External angle piece variable (Painted aluminium)	Variable internal angle piece (Painted aluminium)	End cover (Painted aluminium)	Sealing ring (Painted aluminium)	T junction
 TK01103 /8	TKA011110 /8	TKA021110 /8	TKA002210 /8	TKA003210 /8	TKA004210 /8	TKA005210 /8	TKA0061 /8
 TK01133 /8	TKA011113 /8	TKA021113 /8	TKA002213 /8	TKA003213 /8	TKA004213 /8	TKA005213 /8	TKA0061 /8
 TK01163 /8	TKA011216 /8	TKA021216 /8	TKA002216 /8	TKA003216 /8	TKA004216 /8	TKA005216 /8	–

Spare Parts Aluminium K45 CABLOMAX trunking

RTT002 /8
Front cover for aluminium Cablomax trunking. 2 m.
Anodised aluminium

Technical details *See page 194*

Trunking section *See page 195*

K45 PVC AND ALUMINIUM TRUNKING

Specifications:

- Material: PVC and anodised-aluminium trunking.
- White and painted-aluminium thermoplastic accessories (except 70x50).
- Direct integration of Simon K45 mechanisms.
- Trunking length: 2 metres sections.
- Protective film.
- IP protection level: 4x.
- Impact resistance: IK07, medium.
- Does not propagate flames.

Complies with:

- Directive 2006/95/EC.
- Low voltage electrotechnical regulations, Royal Decree 842/2002
- Harmonised standard UNE-EN-50.085.
- Regulations for Common Telecommunication Infrastructures (RICT) RD 401/2003.
- RoHS directive.
- EC-marked product.

Quick and easy installation

K45 direct snap-fit mechanisms

Enables the assembly of all the mechanisms in the K45 range **without needing any accessories**, which affords great savings in assembly time and therefore reduces installation costs.

Installation safety

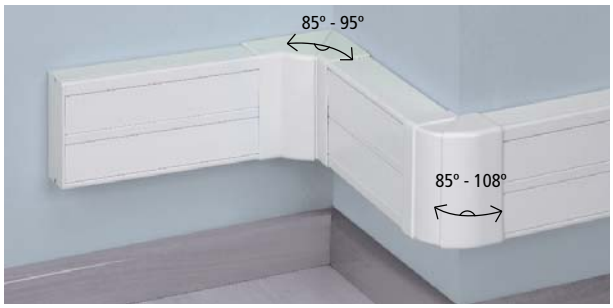
VDM
VOICE, DATA & MULTIMEDIA

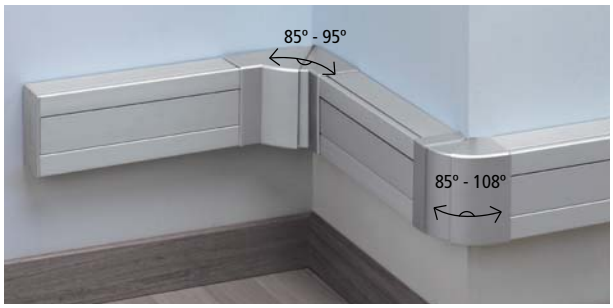
Separation of electrical and VDM circuits

The **interior separations**, which are pressure-fitted without using tools, and the **double or triple fixed compartmentalisation** of the trunkings enables insulation and improved organisation of the electrical and telecommunications cables.

Increased flexibility

Variable angle pieces in pure white or aluminium. Allow better adaptation of the trunking to the unevenness of a wall.





T-PIECE EARTH JUNCTIONS

Maintain the IP4X level in the installation and hide the trunking cuts in the T-piece earth connections from any size of trunking to trunking with a width of 90, 130 or 160 mm.

SPLICE JOINT TRIM

By placing the splice joint trim on either side of the assembly of electrical sockets or any plate in K45 format, **increased rigidity can be achieved for the fastening of mechanisms and plates** to the trunking.

This accessory also acts as a trim for the cover connections.

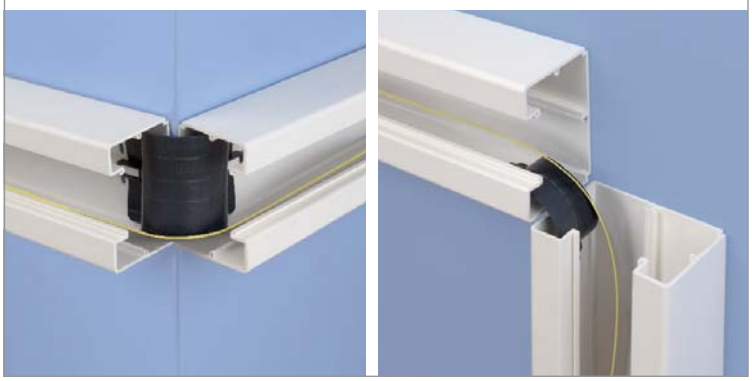
JUNCTION TO MINI-TRUNKING AND PVC CABLE ADAPTER TRUNKING

Simply by cutting the piece along the perforated line, it adapts to the desired mini-trunking size.

OUTER RADIUS OF CURVATURE

FLAT RADIUS OF CURVATURE

They protect the telecommunications cables and afford them an optimum curvature radius for each type of corner piece.



PVC TRUNKING FOR K45 MECHANISMS

DIRECT
SNAP-FIT

Trunking	Accessories			
• PVC/Pure white • Length: 2 m	Flat angle piece	Variable external angle piece	Variable internal angle piece	End cover
90x55 mm 1 compartment				
 The 90x55 trunking is supplied with 1 stiffener every 0.5 m **TK12081 /9**	**TKA101208 /9**	**TKA102208 /9**	**TKA103208 /9**	**TKA905502 /9**
130x55 mm 2 compartments				
 TK12102 /9	**TKA1305505 /9**	**TKA1305506 /9**	**TKA1305507 /9**	**TKA1305502 /9**
160x55 mm 2 compartments				
 TK12122 /9	**TKA101212 /9**	**TKA1605506 /9**	**TKA1605507 /9**	**TKA1605502 /9**
185x55 mm 3 compartments				
 TK12143 /9	**TKA101214 /9**	**TKA1855506 /9**	**TKA1855507 /9**	**TKA1855502 /9**

Functional accessories

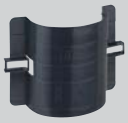
TKA901 /9
K45 Trunking splice joint trim
Provides rigidity to the mechanism fastening. Cover splice joint trim.
Supplied in 90x55-mm trunking

TKA902
PVC divider (1000x45 mm)
Supplied in 1 metre sections.

TKA903
Section connecting pin
Connects parts of sections and helps to level and provide a better finish.

Spare Parts PVC K45 trunking

RTT001 /9
Front cover for K45 PVC trunking. 2 m.

				
Sealing ring	T junction	Junction to mini-trunking 10x22, 20x30, 20x50 and 40x60	Flat radius of curvature	Outer radius of curvature
TKA105208 /9	to 90x55 **TKA106208 /9**	**TKA107 /9**	**TKA108**	**TKA109**
TKA1305508 /9	to 90x55 **TKA106208 /9** to 130x55 **TKA106210 /9**	**TKA107 /9**	**TKA108**	**TKA109**
TKA105212 /9	to 90x55 **TKA106208 /9** to 130x55 **TKA106210 /9** to 160x55 **TKA106212 /9**	**TKA107 /9**	**TKA108**	**TKA109**
TKA105214 /9	to 90x55 **TKA106208 /9** to 130x55 **TKA106210 /9** to 160x55 **TKA106212 /9**	**TKA107 /9**	**TKA108**	**TKA109**

K45 Installation accessories

KS11/..
Electrical sockets
Quick terminal connection
+ information page 74

K106A/..
Protection
K45 circuit-breaker
+ information page 76

KB95U/..
VD plates
K45 VD plate with connectors
+ information page 78

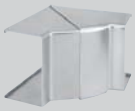
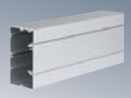
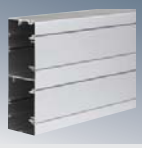
K100B/..
Multimedia Plates
K45 Plate 1 VGA connector
+ information page 82

Technical details
See page 185

Trunking section
See page 195

ALUMINIUM TRUNKING FOR K45 MECHANISMS

DIRECT SNAP-FIT

Trunking	Accessories			
				
• Anodised aluminium • Length: 2 m	Flat angle piece (Painted aluminium)	Variable outer angle piece (Painted aluminium)	Variable inner angle piece (Painted aluminium)	End cover (Painted aluminium)
90x55 mm 1 compartment				
 TK11081 /8	TKA101208 /8	TKA102208 /8	TKA103208 /8	TKA905502 /8
130x55 mm 2 compartments				
 TK11102 /8	TKA10305505 /8	TKA1305506 /8	TKA1305507 /8	TKA1305502 /8
160x55 mm 2 compartments				
 TK11122 /8	TKA101212 /8	TKA1605506 /8	TKA1605507 /8	TKA1605502 /8
185x55 mm 3 compartments				
 TK11143 /8	TKA101214 /8	TKA1855506 /8	TKA1855507 /8	TKA1855502 /8
70x50 mm 1 compartment	Accessories for 70x50 mm stainless-steel trunking			
 TK11071 /8 *	 Universal Accessory (flat corner piece and junction) TKA101307 /8	 Fixed external angle piece TKA102307 /8	 Fixed internal angle piece TKA103307 /8	 End cover (Stainless steel) TKA104307 /8

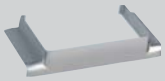
*The 70x50 mm trunking model does not allow the assembly of multi-sockets ref. K11/.., K22/.., KS11/.. and KS22/..

Functional accessories

TKA902
PVC divider (1000x45 mm)
Supplied in 1 metre sections.

TKA903
1 U section joint pin
Connects parts of sections and helps to level and provide a better finish.

TKA904
Cable with faston connector for 120 mm earth connection
For earthing sections

			
Splice plate (Painted aluminium)	T junction (Painted aluminium)	Flat radius of curvature	Outer radius of curvature
TKA105208 /8	to 90x55 **TKA106208 /8**	**TKA108**	**TKA109**
TKA1305508 /8	to 90x55 **TKA106208 /8** to 130x55 **TKA106210 /8**	**TKA108**	**TKA109**
TKA105212 /8	to 90x55 **TKA106208 /8** to 130x55 **TKA106210 /8** to 160x55 **TKA106212 /8**	**TKA108**	**TKA109**
TKA105214 /8	to 90x55 **TKA106208 /8** to 130x55 **TKA106210 /8** to 160x55 **TKA106212 /8**	**TKA108**	**TKA109**

End cover (ABS grey finish)	Splice plate
TKA104207 /24	**TKA105307 /8**

Spare Parts Aluminium K45 Trunking

RTT001 /8
Aluminium K45 trunking cover 2 m. Anodised aluminium

RTP002 /8
Aluminium K45 trunking section 70x50 mm Anodised aluminium

K45 Installation accessories

K11/..
Electrical sockets
Quick terminal connection
+ information page 74

K106A/..
Protection
K45 circuit-breaker
+ information page 76

KB95U/..
VD plates
K45 VD plate with connectors
+ information page 78

K100B/..
Multimedia Plates
K45 Plate 1 VGA connector
+ information page 82

Technical details *See page 186*

Trunking section *See page 195*

DCS SYSTEM

Specifications:

- Material: Anodised-aluminium trunking.
- Stainless-steel plinth accessories and aluminium end covers.
- Trunking length: 2 metres sections (Monoblock 2.75 m).
- IP protection level: 4x.
- Impact resistance: IK08 – IK10, high – very high (according to ref.)
- Flame retardant.
- With electrical continuity.

Complies with:

- Directive 2006/95/EC.
- Low voltage electrotechnical regulations, Royal Decree 842/2002
- Harmonised standard UNE-EN-50.085.
- ROHS directive.
- EC-marked product.

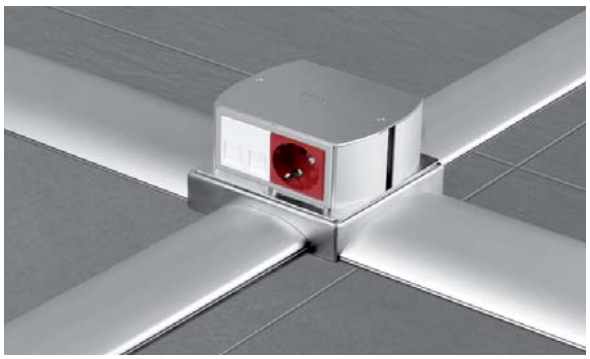
The floor trunking solution

Based on a peripheral (perimeter trunking) or central installation (Mini-towers or Mini-columns), the **DCS (Surface Distribution of Cables)** system makes it possible to supply power, voice and data from any point in the room to the workstations.

Available in 5 models and 2 versions: section and cover (accessible) and monoblock (inaccessible).

Offices | Business premises | Car parks

Industrial Buildings | Warehouses | Mechanical workshops



Strength and safety

High resistance

Manufactured from aluminium, it offers maximum durability against impacts, blows, foot traffic and other abuse. Capable of withstanding the weight of passing vehicles (according to tonnage/model).

Safety

Once installed, the trunking is fully closed and inaccessible, thereby providing maximum security for the installation.

Integration in the system

Adaptation to Mini-trunking 65x20 mm and Aluminium Trunking K45 70x50 mm

The junction accessory allows the distribution of the cabling in the floor trunking (85x18 mm and 130x18 mm models) to the trunking installed on the wall.

+ information for aluminium K45 trunking on page 112
+ information for aluminium Mini-trunking on page 96

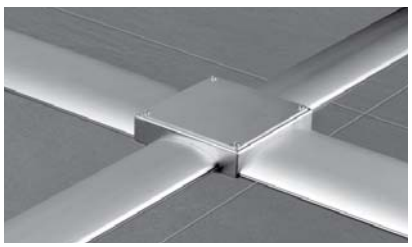
Adaptation of the DCS System to K45 Mini-towers and Mini-columns

The distribution base allow adaptation of K45 Mini-tower and Mini-columns for final connections.

+ information on page 66 and 68

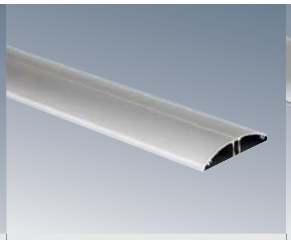
Distribution base

With various pre-punched holes for insertion of floor trunking 85x18 mm and 130x18 mm.



ALUMINIUM TRUNKING FOR FLOOR INSTALLATION

Trunking

				
85x18 mm trunking + cover	85x18 mm monoblock closed trunking	130x18 mm trunking + cover	130x18 mm monoblock closed trunking	240x34 mm trunking + cover
2 m length	2.75 m length	2 m length	2.75 m length	2 m length
TF11172 /8	TF21172 /8	TF11183 /8	TF21183 /8	TF11193 /8

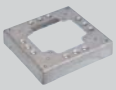
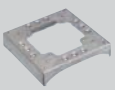
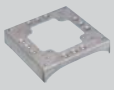
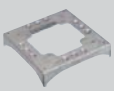
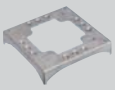
Accessories - Anodised aluminium end cover

TFA904417 /8	TFA904418 /8	TFA904419 /8

Accessories - Junction from the DCS trunking to perimeter trunking

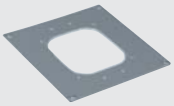
	From 85x18 mm DCS trunking	From 130x18 mm DCS trunking
To 65x20 mm aluminium Mini-trunking	TFA965417 /8	TFA965418 /8
To aluminium K45 trunking 70x50 mm	–	TFA970418 /8

Bases for connection to the 85x18 mm and 130x18 mm DCS floor trunking

	 KTA804 /8	 KTA813 /8	 KTA822 /8	 KTA8229 /8	 KTA831 /8
No. of pre-punched holes per trunking of 130x18 mm	0	1	2 (for trunking of 130x18 mm at 180°)	2 (for a 130x18 mm trunking at 90°)	3
No. of pre-punched holes per trunking of 85x18 mm	4	3	2	2	1

Accessory for base

KTA904 /8
Top cover for distribution base



ALKA02 /8
Auxiliary base cover for adapting K45 Mini-columns

Technical details
See page 193

Trunking section
See page 195

CABLE ORGANISER

Specifications:

- Material: Polyethylene.
- Length: 2 metres sections and 20 m reels.
- Cable applicator.

Complies with:

- Directive 2006/95/EC.
- Low voltage electrotechnical regulations, Royal Decree 842/2002
- ROHS directive.

Cable management

The cable organiser allows you to easily and quickly transform a **bundle of cables into a single cable**. Specially designed to blend in with the interior decoration in offices or business premises, it makes the installation **look clean and organised**, and also increases **workplace safety and hygiene**.

Without cable organiser

With cable organiser

Flexible, rugged materials

It consists of an open, **translucent** tube with a **diameter of 25 mm** made from **polyethylene**, a material that is very flexible yet also sturdy, which can easily return to its initial position and protect the cables from possible knocks or rubbing in electrical and telecom installations.

Easy-to-use applicator

Organisation at your workplace

In three easy steps

1

2

3

Ø 25 mm Cable organiser

TC250 /0 Ø 25 mm, 2 m long cable organiser + cable applicator

TC251 /0 Transparent cable organiser Ø 25 mm Reels of 20 m

TCA2501 Cable applicator for 25 mm

19” Wall rack cabinets

Electroblock

Panels

Voice and Data connectors

Voice and Data connectors

Voice and Data cable

Voice and Data patch cords

Fiber Optic

Simon structured cabling

Distribution	122 >	19" Wall rack cabinets
Power supply	124 >	Electroblock
VDM	126 >	Panels
	128 >	Voice and Data connectors
	132 >	Voice and Data cable
	134 >	Voice and Data patch cords
	135 >	Voice and Data tools
	136 >	Fiber Optic

Quality guarantee
The SIMON CONNECT cabling system is certified by independent external laboratories.

SIMON CONNECT complies with the European RoHS Directive on thermoplastic, electronic and metal materials.

Self-extinguishing, halogen-free materials:
A guarantee of safety for persons, equipment and information.

Solutions for Audio, Video and Multimedia connection for projectors, audiovisual screens, etc.

STRUCTURED CABLING SYSTEM

The Structured Cabling System is a **telecommunications infrastructure** that provides a building with **flexible configuration** whilst also allowing **integration of new technologies** and guaranteeing **support for future transmission speeds**.

Fully integrated services **allow any type of equipment to be connected** (telephone, fax, computer, printer or scanner) in any part of the building and its location to be changed with a simple configuration change **without the need for reinstallation**.

Simon Structured Cabling System is sufficiently **flexible** to cover all types of installations, from SMEs (2 or 3 workstations) to large corporate buildings (1000 workstations).

Structure of a cabling installation

Voice, Data and Multimedia

Simon offers comprehensive Voice, Data and Multimedia solutions with a wide range of connectors and panels (RJ45, SubD15, RCA, S-Video, USB, Mini-Jack, etc.).

VDM
VOICE, DATA AND MULTIMEDIA

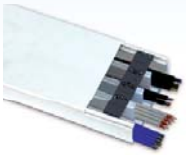
Quality guaranty

The Simon Cabling System is certified by independent external laboratories.

Horizontal cabling

The cable infrastructure that distributes the telecommunications signals throughout the floor, comprising the **distribution** point, **transmission** and the **workstation**.

Distribution
The distribution cabinet concentrates the Voice and Data signals and distributes them throughout the floor. It contains patch panels, switching patch cords, electronic equipment such as Hubs or Switches and ELECTROBLOCK terminal arrays for powering them.



Transmission
Using 4 pair twisted cables, the signal is led around the perimeter from the distribution cabinet to the work station in trunking under a raised floor or in the ceiling.

Workstation
The final covering integrates the electric power supply and Voice and Data signals to provide service to the workstation. The Terminal Equipment (computer, telephone or fax) is connected using a Voice and Data patch cord.

Vertical cabling

It is the cable infrastructure that connects the floors of a building. It allows the services of the telecommunications operator to be supplied from the access point to each floor.

Transmission category

The category of a structured cabling network defines the transmission speeds and the protocols that they support.

CATEGORY 6TO
Provides a 500 MHz bandwidth suitable for 10GBASE-T networks

CATEGORY 6
Provides a 250 MHz bandwidth.

CATEGORY 5e
With a 100 MHz bandwidth, this is the recommended category for **expansion and renovation** of buildings.

Shielding

UTP: Unshielded Twisted Pair

Formed of the cable, panel and connectors without electromagnetic protection.
The **commonest** installation for **offices**.

FTP: Foiled twisted pair

The cable, panel and connectors have a metallic shield that protects the transmissions from electromagnetic interference. This installation is recommended for **critical environments** such as **hospitals, laboratories, police stations** or any other environment where safety is particularly important.

19" WALL RACK CABINETS

The new 19" rack cabinets allow the distribution of all necessary telecommunications services (Voice, Data and Multimedia) for the tertiary sector. They are designed to house patch panels, server equipment and network transmission equipment.

Removable side panels

Removable side panels allowing maximum access to the connections during the installation and maintenance process. Easy removal, even with reduced lateral space.

1

2

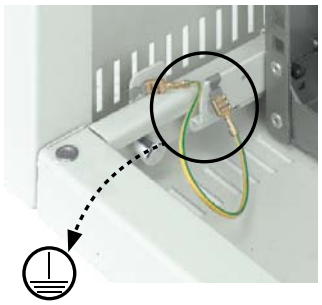
Quick-fixing lock anchor points

Easy to install

Portable 19" rack according to IEC-60,297-2

Earth connection

The cabinet includes all connection markings and accessories required to earth the cabinet according to standard UNE-EN-62.208 and to perform a safe installation.

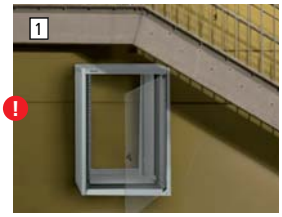


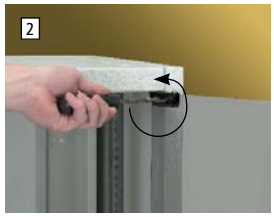
Entrance for trunking or grille

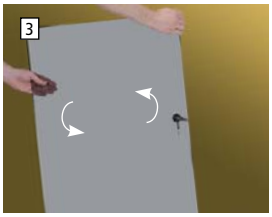
Both the top and bottom covers of the cabinet have two pre-punched holes providing access to the cables through the metal grille or trunking.

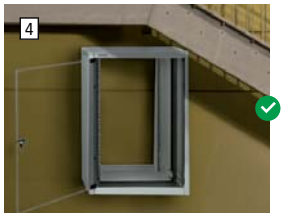
Interchangeable door

If the installation location does not allow the door to open completely, the opening direction can be changed quickly and easily.









19" RACK CABINETS

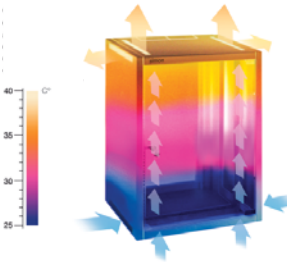
RKA1906A4F	Installations* of up to 12 posts, Height: 6 U, 375 mm
RKA1909A4F	Installations* of 12 - 24 posts, Height: 9 U, 525 mm
RKA1912A4F	Installations* of 24 - 36 posts, Height: 12 U, 670 mm
RKA1915A4F	Installations* of 36 - 50 posts, Height: 15 U, 820 mm

*Number of posts recommended according to applications and equipment

Wall fixing with level adjustment

Fixing holes forming mounting holes that allow the cabinet to be levelled when installing it on the wall.

Ventilation



Ventilation holes designed with **the most advanced simulation technologies** for optimum discharge of the excess convection temperature.

Fewer items in stock

The four models are available with a single depth of 45 cm, which reduces the number of items and the stock.

QUALITY DETAILS

The frame structure is made from sheet metal with a thickness of 2 mm, ensuring a highly sturdy assembly.

Maximum weight: 50 kg

High-quality painting with RAL 7035 finish with a thickness of 80 to 120 microns, guaranteeing a long service life.

Front door of **tempered glass** providing maximum safety and avoiding accidental cuts in the event of breakage.

Key **locking** prevents unauthorised access and contributes to compliance with standard UNE-EN-62.208.

Protective packaging with corner reinforcements to **protect the cabinet** during transport and handling at the warehouse and on-site.

Configuration example

Quantity	Ref./Finish	Description
1	**RKA1906A4F**	19" rack cabinet with a height of 6 U and a depth of 45 cm. Up to 12 stations
2	**CP624U**	19" panel with a height of 1 U, 24 RJ45 Cat 6. UTP ports
24	**CL60U**	0.5 m Cat. 6 UTP patch cords
1	**F1118/14**	19" Electroblock with 8 Schuko sockets with cable and switch, graphite

Technical details
See page 200

ELECTROBLOCK

QUALITY MATERIALS
ELECTROBLOCK is manufactured with a high-quality aluminium section prepared to support the high temperatures of server rack cabinets.

A finish for every application

Red version available to differentiate power lines.

With all necessary materials

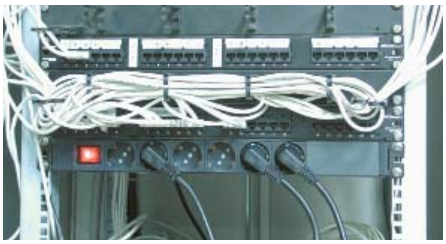
ELECTROBLOCK is supplied with cables, an instruction manual and mounts for securing to the inner frame.

Safety at the workstation

With models that incorporate circuit-breakers and differential switches to protect the installation, data and people.

Connection for network equipment

ELECTROBLOCK supplies power to hubs, switches, repeaters and routers inside the rack cabinet.

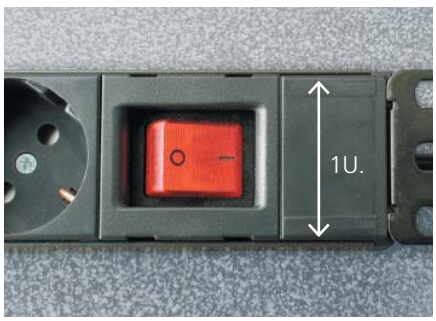


Optional rotation and vertical fastening

The fastening flaps enable various installation positions to optimise the space inside the cabinet.

1 U. high

To make use of the space inside the cabinet and comply with the IEC 60297 standard, the ELECTROBLOCK is 1 unit high (44.45 mm).



ELECTROBLOCK WITH CABLE (2m.)

Without switch

F1105 /14	5 Schuko sockets	F2105 /6 /14	5 French sockets
F1106 /6 /14	6 Schuko sockets	F2106 /14	6 French sockets
F1108 /14	8 Schuko sockets	F2108 /14	8 French sockets
F1109 /14	9 Schuko sockets	F2109 /6 /14	9 French sockets

With 16 A Bipolar switch

F1115 /14	5 Schuko sockets	F2115 /14	5 French sockets
F1116 /14	6 Schuko sockets	F2116 /14	6 French sockets
F1118 /14	8 Schuko sockets	F2118 /6 /14	8 French sockets

With 10 A Bipolar circuit-breaker, Curve C

F1126 /14	6 Schuko sockets	F2106 /14	6 French sockets

With 30 mA differential

F1136 /14	6 Schuko sockets	F2136 /14	6 French sockets

ELECTROBLOCK WITHOUT CABLE

Without switch

F1005 /14	5 Schuko sockets	F2005 /14	5 French sockets
F1006 /14	6 Schuko sockets	F2006 /6 /14	6 French sockets
F1008 /14	8 Schuko sockets	F2008 /6 /14	8 French sockets
F1009 /14	9 Schuko sockets	F2009 /14	9 French sockets

With 16 A Bipolar switch

F1015 /14	5 Schuko sockets	F2015 /14	5 French sockets
F1016 /14	6 Schuko sockets	F2016 /14	6 French sockets
F1018 /14	8 Schuko sockets	F2018 /14	8 French sockets

With 10 A Bipolar circuit-breaker, Curve C

F1026 /14	6 Schuko sockets	F2026 /14	6 French sockets

With 30 mA differential

F1036 /14	6 Schuko sockets	F2036 /14	6 French sockets

For other configurations and finishes, please check with our commercial network or your usual distributor

Technical details
See page 200

PANELS

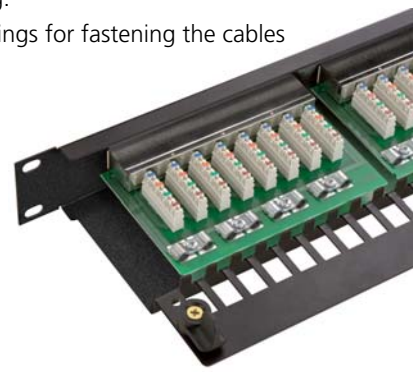
Certified by: THIRD PARTY TESTING 3P

RoHS

Quality integrated panels

Integrated panels offer easy installation for cable crimping.

They include rings for fastening the cables with flanges.



With all necessary materials

The panel includes: manual, flanges and fastening screws.

The FTP version includes the protection, earth connection cable and point.

Modular panels UTP/FTP

Offer flexibility for current and future connection requirements
Ease of installation and configuration.

Cable organiser

Facilitates cable installation. Provides excellent assembly finish. Adjusts to 19" rack cabinets.

Sequence for connecting voice and data panel to the cable

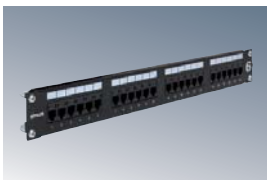
1	2	3	4
Prepare the cable by untwisting the pairs as far as possible Follow the colour code shown in the panel	Insert using tool **CH100**	During the operation, the tool cuts the cable	Fasten the cable to the panel or to the frame of the cabinet

Further information about Voice and Data Tools can be found on page 135

INTEGRATED PATCH PANELS

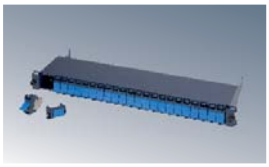
Panel with 24 ports and 1 U. high for assembly with 19" rack cabinets.
IDC 110 contacts for insertion with tool (ref. CH100)

CP624F	Cat. 6 FTP
CP524F	Cat. 5e FTP



CP624U	Cat. 6 UTP
CP524U	Cat. 5e UTP

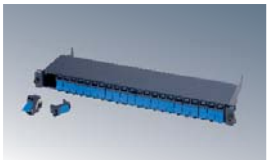
MODULAR PATCH PANELS



Panel with 24 ports and 1 U. high for assembly with 19" rack cabinets.
IDC 110 contacts for insertion with tool (ref. CH100)

CP56A24F*	Modular panel FTP 24 ports (Cat. 6A)
CP5624F*	Modular panel FTP 24 ports (Cat. 5e / Cat. 6)

N New product



CP5624U*	Modular panel UTP 24 ports (Cat. 5e / Cat. 6)

N New product

CABLE ORGANISER

CP0001*	Cable organiser for 29" rack cabinets.

N New product

* Next launch. Check availability.

Insertion tool

CH100
IDC110 cable connection tool for voice and data connectors and panels
Insertion and cutting sheet included.

Choice of normal or shielded, modular panel or integrated panel

UTP Panel
Installable in environments with low electromagnetic interference (offices).

Shielded FTP Panel
Recommended for environments where security is important or where there is an increased level of electromagnetic interference (hospitals, laboratories, police stations, etc.).

Offices
Health centres
Laboratories
Police stations

Technical details
See page 200

VOICE AND DATA CONNECTORS

Certified by: THIRD PARTY TESTING 3P

RoHS

Cat. 6A FTP connector

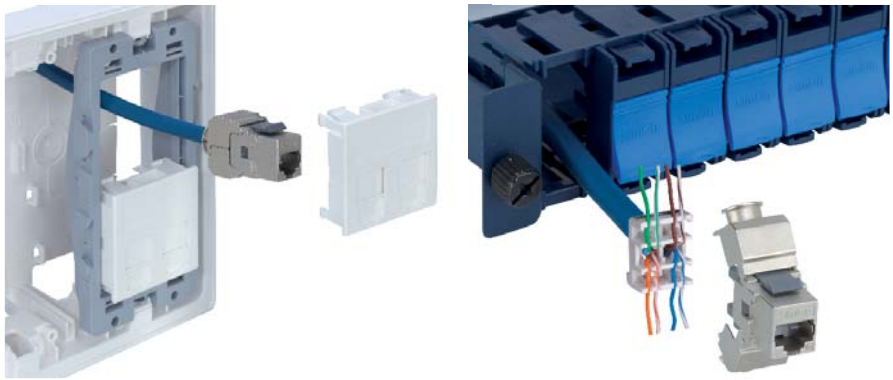
The new category 6A connector is a component of the VDM system designed for 10-Gigabit Ethernet applications on twisted pairs.

Specifications:

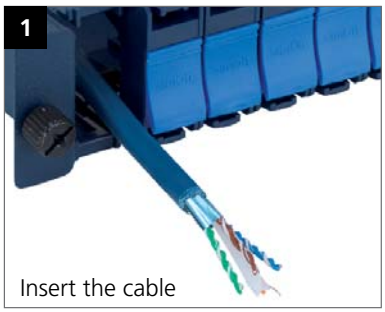
- Keystone-type RJ45 toolless connection socket.
- 568 A/B colour code localisation for better assignment of conductors.
- Contacts that accept cables from 24 to 22AWG.
- Manufactured in just two pieces, has an integrated shielding sheath, considerably reducing installation time.
- Suitable for connecting a shielded cable, easy to install in construction.

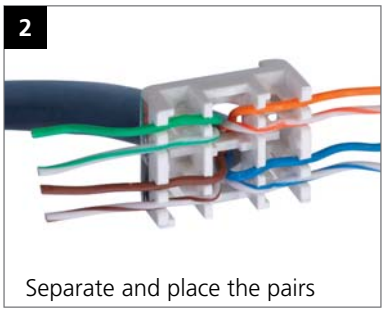
One connector for the entire system

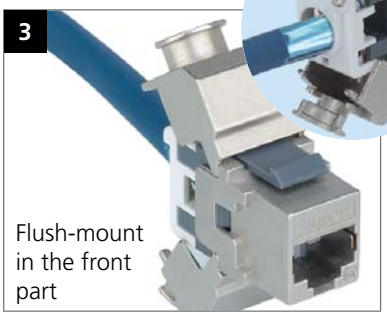
Adaptable to different supports: Distribution panels, plates and enclosures in the 500 CIMA line.

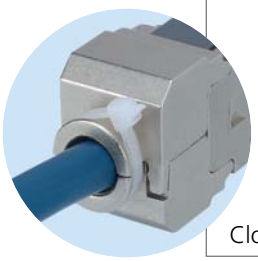
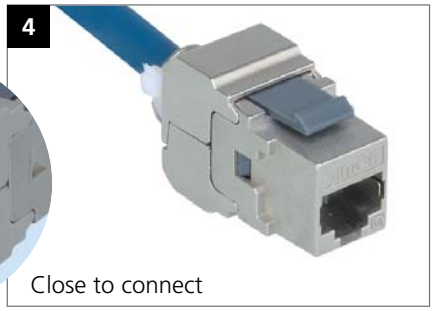


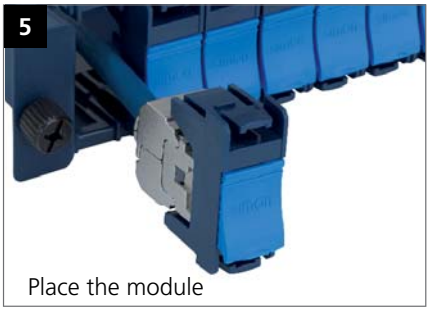
New Cat. 6A VDM system


1 Insert the cable


2 Separate and place the pairs

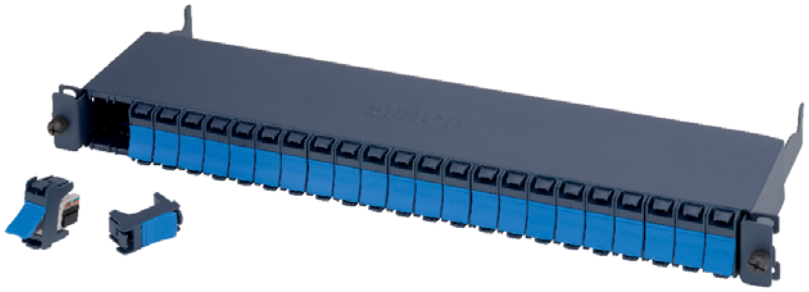

3 Flush-mount in the front part



4 Close to connect


5 Place the module

Modular distribution panels for categories 5e, 6 and 6A FTP

They allow optimised assembly and better maintenance
The panels in the VCM range adapt easily to 19" environments with high density in RJ-45 (24 ports in 1U).



Has a port location zone and a panel identification zone.

Specifications:
- Blue metal panel.
- Modular patch panel in 24-port FTP version.
- Integrated cable guide.
- Independent removal/insertion of modules for connector installation.
- Dust protector window included for maximum connector protection.
- Easy and quick fixation during first installation and maintenance.
- Supplied without connectors.

Category 6A FTP cable

Voice, data and multimedia transmission cable for applications that require high bandwidth (up to 10-Gigabit Ethernet). This cable is manufactured following international standards: ISO IEC 11801, ANSI/TIA-568 C.2
They offer exceptional results and great ease for connection.

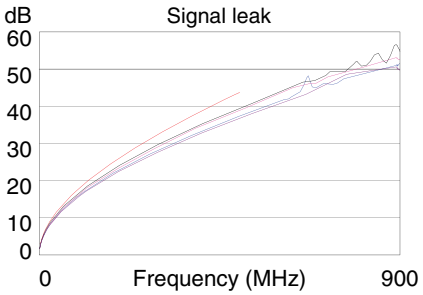
Specifications:
- Category 6A F/UTP cable
- Available in roll format (500m)
- Covered in LSZH (halogen-free)

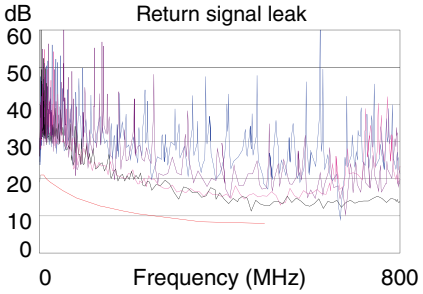
Standards

The characteristics of the cat. 6A connector guarantee compliance with specifications for category 6A/Class Ea systems extended to 500Mhz.

Fire standards:
- Does not spread flames.
- Halogen-free
- Low smoke emission and density

ISO / IEC 11801	IEC 60332-1
IEC 61156	IEC 60754-2
ANSI/TIA-568 C.2	IEC 61034
EN 50173	





Slim-Line Connectors

The Slim-Line design of the SIMON connectors allows maximum connection density.

Shielded around 360º

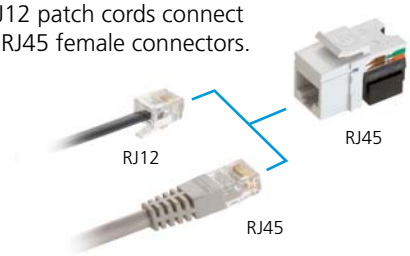
SIMON FTP connectors offer complete shielding thanks to the metallic shield that protects communications from external interference.

Individual packaging

Each connector comes in an individual package with **easy-opening**.

1 connector for several types of patch cords

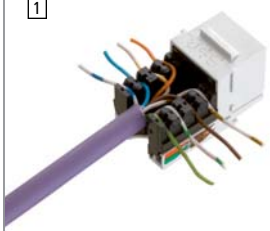
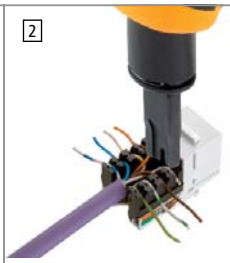
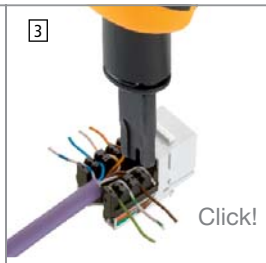
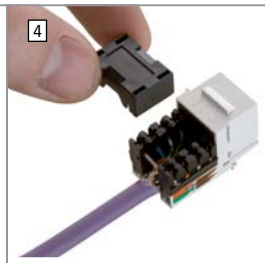
The RJ11 and RJ12 patch cords connect perfectly to the RJ45 female connectors.



Allow telephone and computer connection (Voice and Data)

To connect the telephone, simply wire the Blue and White-Blue pair.

Sequence to connect the RJ45 female connector to the cable

1	2	3	4
			
Prepare the cable by untwisting the pairs as far as possible	Insert using tool **CH100**	During the operation, the tool cuts the cable	Put on the protective cover

See connection diagram on page 126
Further information about Voice and Data tools can be found on page 135

RJ45 CONNECTORS

RJ45 UTP and FTP female connector with IDC 110 contacts for insertion with tool (ref. CH100).
Assembly on SIMON Voice and Data Plates (Plates number 67)

CJ6A45F*	Cat. 6A FTP
CJ645F	Cat. 6 FTP
CJ545F	Cat. 5e FTP

CJ645U	Cat. 6 UTP
CJ545U	Cat. 5e UTP

Insertion tool

Further information about Voice and Data Tools can be found on page 135

CH100
IDC110 cable connection tool for **Voice and Data Connectors** and **Panels**.
Insertion and cutting sheet included.

Voice and Data plates with SIMON connectors included

500 CIMA Voice and Data plates on page 42

K45 Voice and Data plates on page 78

Install them on the SIMON series

The connectors are fully compatible with the SIMON miscellaneous hardware series.

** See references of items on pages 17 - 193 - 69 - 99 from Simon General Catalogue 2010/2011*

	For 1 connector		For 2 connectors	
	Angled	Flat	Angled	Flat
Simon 27*	27081-35 + 1 75001-39	27087-35	27086-35 + 2 75001-39	27486-35
Simon 73 Loft*	73085-60	-	73086-60 + 2 75001-39	-
Simon 75*	75578-30 + 1 75001-39	75585-60	75579-30 + 2 75001-39	75589-60
Simon 82*	82578-30 + 1 75001-39	82005-30	82579-30 + 2 75001-39	82006-30

The double angled plates do not fit FTP connectors.

* Next launch. Check availability.

Technical details
See page 200

VOICE AND DATA CABLE

Cable outlet with retainer

Prevents the cable from falling inwards.

Easy identification

The marking of the pairs prevents identification errors.

Sheath colour quickly identifies the type of cable:

CB630U (RAL5015)
CB631U (RAL7001)
CB531U (RAL4005)
CB530U (RAL6027)

Cable marked by metre to measure length easily.

High-quality, sturdy packaging

305 m coils in **high quality** and durability **stapled boxes** for support during storage, transport and handling on-site.

Recyclable. Made from chlorine-free cardboard.

Ergonomic handle to facilitate cable transport.

Label identifying the cable type.

Flexible

Sheath material is flexible and **slides easily**.

Regulations

Product designed according to legislation:

EN 50.173-1 Cabling Standard Information Tecnology / TIA/EIA 568 A/B Comercial Building Telecommunications Cabling Standard / ISO/IEC 11.801 Cabling Standard, Generis Cabling for Customer Premises.

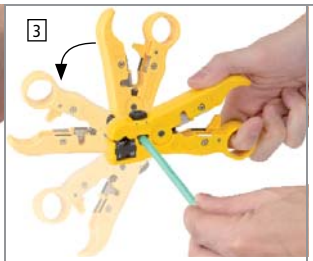
Complies with the RoHS directive and respects the environment

Category 6A complies with standard: TIA/EIA-568-B.2-10 Augmented Category 6 and ISO 11801 Edition 2.1. Class EA specifications. Defined up to 500Mhz.

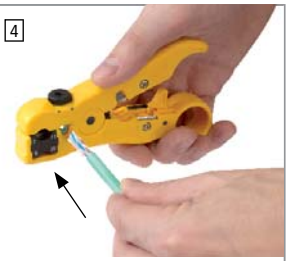
Cable stripping process

1 Adjust according to cable type (UTP, FTP, coaxial category, etc.)

2 Place the cable in the tool



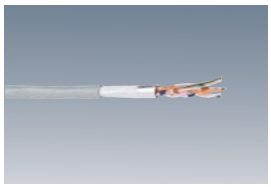
3 Turn. During the operation, the blade only cuts the cable



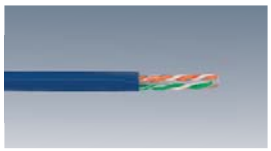
4 Pull to remove the sheath

Further information about Voice and Data Tools can be found on page 135

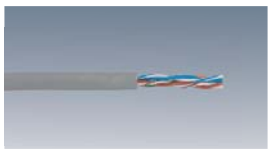
VOICE AND DATA CABLES WITH PVC COVER



CB651FD	Voice and Data cable cat 6 FTP (shielded) PVC on reel 500 m
CB531F	Voice and Data cable cat 5e FTP (shielded) PVC on reel 305 m



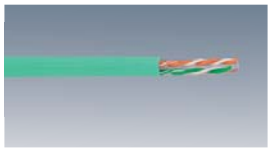
CB631U	Voice and Data cable cat 6 UTP PVC in box 305 m



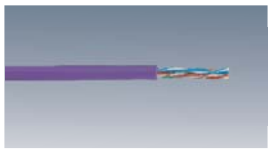
CB531U	Voice and Data cable cat 5e UTP PVC in box 305 m

VOICE AND DATA CABLES WITH LSZH COVER (halogen-free)

CBA50FD*	Voice and Data cable cat. 6**A** FTP LSZH (halogen-free) on reel 500 m
CB630F	Voice and Data cable cat. 6 FTP LSZH (halogen-free) in box 305 m
CB650FD	Voice and Data cable cat. 6 FTP LSZH (halogen-free) on reel 500 m
CB530F	Voice and Data cable cat. 5e FTP LSZH (halogen-free) in box 305 m
CB550FD	Voice and Data cable cat. 5e FTP LSZH (halogen-free) on reel 500 m



CB630U	Voice and Data cable cat. 6 UTP LSZH (halogen-free) in box 305 m



CB530U	Voice and Data cable cat. 5e UTP LSZH (halogen-free) in box 305 m

Example for determining the length of cable required in an installation

In accordance with standards, a workstation consisting of two RJ45 sockets must be installed for every 10 m^2. On average, a cable length of 50 metres is estimated for each RJ45 socket; this distance will be adjusted in a single installation according to building layout and exact location of the distribution cabinet: below are some guideline values:

For **12 workstations**:	1200 metres or 3 boxes of cable with 305 metres each
For **24 workstations**:	2400 metres or 6 boxes of cable with 305 metres each
For **36 workstations**:	3600 metres or 9 boxes of cable with 305 metres each
For **48 workstations**:	4800 metres or 12 boxes of cable with 305 metres each

* Next launch. Check availability.

Technical details
See page 200

VD PATCH CORDS

High connection density

The small size of the RJ45s enables high connection density in cabinets.

- Straps manufactured using flexible cable and certified one by one.
- Allow patch connections in the rack cabinet and between the connection boxes and user equipment.

Individual packaging

VOICE AND DATA CABLE PATCH CORDS

CL6A0F*	**Cat. 6A FTP** 0.5 m RJ45-RJ45 FTP patch cord
CL6A1F*	**Cat. 6A FTP** 1 m RJ45-RJ45 FTP patch cord
CL6A2F*	**Cat. 6A FTP** 2 m RJ45-RJ45 FTP patch cord
CL6A3F*	**Cat. 6A FTP** 3 m RJ45-RJ45 FTP patch cord
CL6A5F*	**Cat. 6A FTP** 5 m RJ45-RJ45 FTP patch cord
CL60F	**Cat. 6 FTP** 0.5 m RJ45-RJ45 FTP patch cord
CL61F	**Cat. 6 FTP** 1 m RJ45-RJ45 FTP patch cord
CL62F	**Cat. 6 FTP** 2 m RJ45-RJ45 FTP patch cord
CL63F	**Cat. 6 FTP** 3 m RJ45-RJ45 FTP patch cord
CL65F	**Cat. 6 FTP** 5 m RJ45-RJ45 FTP patch cord
CL50F	**Cat. 5e FTP** 0.5 m RJ45-RJ45 FTP patch cord
CL51F	**Cat. 5e FTP** 1 m RJ45-RJ45 FTP patch cord
CL52F	**Cat. 5e FTP** 2 m RJ45-RJ45 FTP patch cord
CL53F	**Cat. 5e FTP** 3 m RJ45-RJ45 FTP patch cord
CL55F	**Cat. 5e FTP** 5 m RJ45-RJ45 FTP patch cord

* Next launch. Check availability.

CL60U	**Cat. 6 UTP** 0.5 m RJ45-RJ45 UTP patch cord
CL61U	**Cat. 6 UTP** 1 m RJ45-RJ45 UTP patch cord
CL62U	**Cat. 6 UTP** 2 m RJ45-RJ45 UTP patch cord
CL63U	**Cat. 6 UTP** 3 m RJ45-RJ45 UTP patch cord
CL65U	**Cat. 6 UTP** 5 m RJ45-RJ45 UTP patch cord
CL50U	**Cat. 5e UTP** 0.5 m RJ45-RJ45 UTP patch cord
CL51U	**Cat. 5e UTP** 1 m RJ45-RJ45 UTP patch cord
CL52U	**Cat. 5e UTP** 2 m RJ45-RJ45 UTP patch cord
CL53U	**Cat. 5e UTP** 3 m RJ45-RJ45 UTP patch cord
CL55U	**Cat. 5e UTP** 5 m RJ45-RJ45 UTP patch cord

Technical details
See page 200

VOICE AND DATA TOOLS

Professional tools

SIMON presents the NEW high-quality professional tools for installing Structured Cabling.
The range consists of insertion tools with spare parts, pliers, cable stripper and crimping tool.
The cable stripper and the precision-cutting pliers can also be used for TV sockets and multimedia connectors.
The crimping tool is for RJ11, RJ12 and RJ45 connectors.

SCE TOOLS

CH100
IDC professional tool for inserting and cutting
RJ45 connectors and panels.
See usage sequence on page 126 and 128

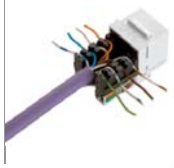
CH106
Cable stripper tool for UTP/ STP **twisted pair** and **coaxial antenna** cable.
See usage sequence on page 132

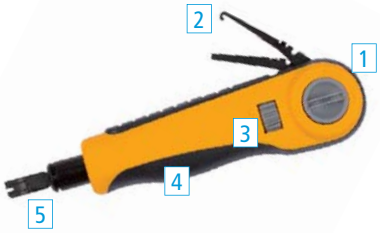
CH101
Spare IDC110 insertion and cutting blade for CH100 tool.

CH108
Precision pliers for cable cutting.

CH104
Professional tool for crimping ale RJ connectors
4 pins, 6 pins or 8 pins (RJ45).

Insertion and cutting tool





1- Compatible with spare blade CH101
2- Hook for lifting and removing cables
3- Allows impact force adjustment
4- Ergonomic (adapts to the shape of the hand)
5- Inserts and cuts the cable in one step

Sequence for crimping male RJ connectors (computer and telephone)

1

Prepare connector
See connection diagram on page 201

2

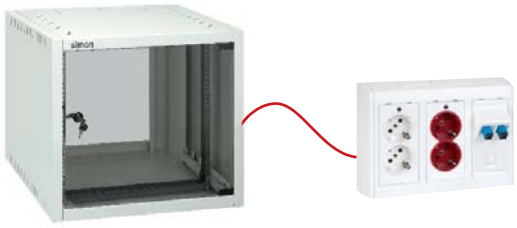
Fit connector in tool

3

Crimp to complete the connection

FIBER OPTIC

Fiber Optic all the way to the workstation



Floor rack cabinet

Workstation

Fiber Optic plates

SIMON has a wide range of solutions for Fiber Optic connectors (ST, SC, LC, VF, etc.)

Check the supplied information depending on the format:

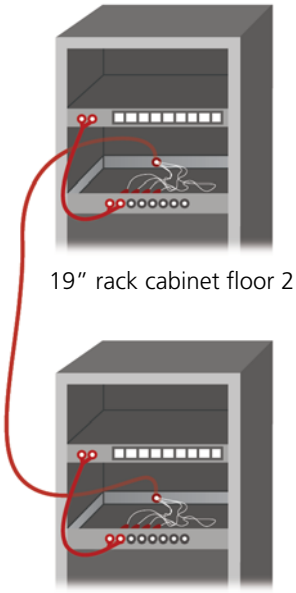
Applications

Trunk connection for connection between floors or between buildings.

Installations with long cabling distances.

Cabling for computer and telephone networks in large corporations.

Vertical Fiber Optic installation



19" rack cabinet floor 2

19" rack cabinet floor 1

Where copper cannot reach

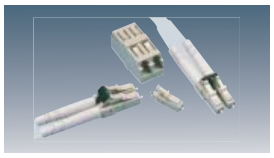
Installation of the Fiber optic System is recommended in environments where the security of the transmitted data is essential, where the transmission distance exceeds the norm for copper systems or where very high transmission speeds are required.

PATCH PANELS

CF401012	1U extendable panel for 19" rack of 12 STs
CF404024	1U extendable panel for 19" rack of 24 STs
CF404012	1U extendable panel for 19" rack of 12 duplex SCs

Extendible splicing and patch boxes used for termination by means of welding pig-tails or direct connector fitting for fiber optic cables

CONNECTORS AND ADAPTERS



Connectors

CF71100	Multimode Epoxy ST fibre connector of 250/900 um
CF71200	Multimode Epoxy SC fibre connector of 250/900 um

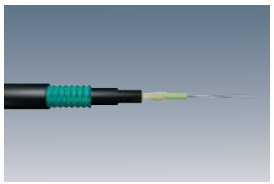
For assembly using Epoxy glue with an excellent finish.

Double female adapters

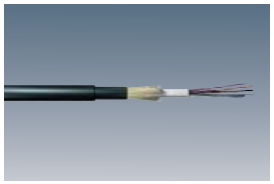
CF10100	ST-ST multi-mode adapter
CF10200	SC-SC duplex multimode adapter

Enable the connection of two male connectors.

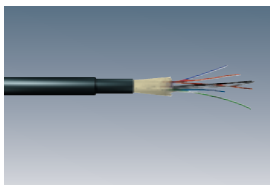
FIBER OPTIC CABLES



CF510EC4	External 62.5/125 4 fibre cable with corrugated steel shield
CF510EC6	External 62.5/125 6 fibre cable with corrugated steel shield
CF510EC8	External 62.5/125 8 fibre cable with corrugated steel shield
CF510EC12	External 62.5/125 12 fibre cable with corrugated steel shield



CF510ED4	Int/ext 62.5/125 LSZH 4 fibre cable with dielectric shield
CF510ED6	Int/ext 62.5/125 LSZH 6 fibre cable with dielectric shield
CF510ED8	Int/ext 62.5/125 LSZH 8 fibre cable with dielectric shield
CF510ED12	Int/ext 62.5/125 LSZH 12 fibre cable with dielectric shield



CF510N2	Internal 62.5/125 LSZH 2 fibre cable
CF510N4	Internal 62.5/125 LSZH 4 fibre cable
CF510N6	Internal 62.5/125 LSZH 6 fibre cable
CF510N8	Internal 62.5/125 LSZH 8 fibre cable

Series of cables to cover all the needs of the installation, with different numbers of fibres and sheathed with different protective materials.

PATCH CORDS AND PIGTAILS

Patch cords

CF311N2	Jumper 2xST - 2xST 62.5/125, 2 m
CF312N2	Jumper 2xSC - 2xSC 62.5/125, 2 m
CF313N2	Jumper 2xST - 2xSC 62.5/125, 2 m

Section of fibre fitted with connectors at both ends.

Pig-tail

CF211N1	Pigtail 1 m ST multimode 62.5/125 fibre 900 um
CF212N1	Pigtail 1 m ST multimode 62.5/125 fibre 900 um

Section of fibre with connector fitted at one end.
Allows the cable to be terminated by fibre fusion.

Technical details
See page 200

Quick-connection

Electrobanda

Simon electric cabling

140 > Quick-connection
144 > Electrobanda

01 SAVES TIME AND INCREASES SAFETY

QUICK-CONNECTION

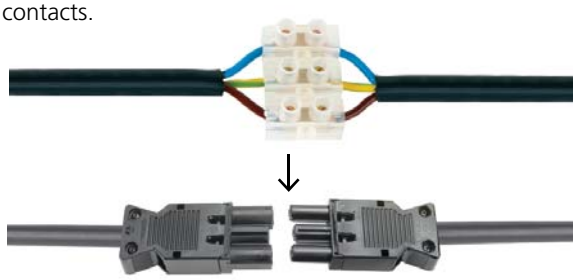
The quick-connection system is made up of a series of connectors and electric cables that make it possible to **interconnect** parts of the installation **quickly and safely**.

Quickly, because they allow all the elements to be shipped assembled and cabled at the workshop, reducing the time at the site. The installation of the products requires only **"arriving and connecting"**.

Safely because they include an anchoring system that protects against accidental disconnection and the contacts are permanently **protected** against access (both male and female).

The evolution of connections!

The quick-connection replaces the traditional connector array with maximum guaranties of protection against contacts.



Protection against direct contact

Both the male and female connectors and the overhead and embedded connectors provide protection against direct access.

Male connector

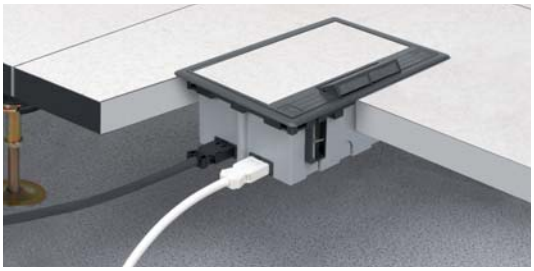
Female connector

Assembly in CIMA floor boxes

The references S410/.. and S610/.. include pre-punched holes for two, 3 pole quick connectors.

Also for TELEBLOCK K45 and OFIBLOCK K45 using K45 plates for quick connection.

(See page 86)



Safety clip

The safety clip prevents accidental disconnection of patch cords.

Also for UPS line

NEW CONNECTORS Special (red colour) to differentiate the stabilised UPS current with own geometry and avoid connection errors.

Under raised-floor installation system

Raised-floor installations using OFIBLOCK COMPACT K45 as junctions or Junction box.

With OFIBLOCK COMPACT K45

Connector compatibility

White. White connectors for Standard circuits

Black. Black connectors to differentiate Standard circuits

Red. Red connectors exclusively for UPS lines. Own geometry

The red connectors are not compatible with the black and white ones to avoid confusion during installation.

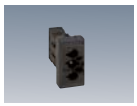
QUICK CONNECTION IEC320

K305A /9 /14 — K45 plate with one (1) IEC320 male quick connector

K306A /9 /14 — K45 plate with one (1) IEC320 female quick connector

KTL8 /14 — Schuko-IEC320 2 m female electrical patch cord

PLATES WITH 3-POLE FLUSH-MOUNT QUICK CONNECTORS

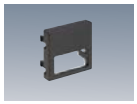


K121A /9 /14 — K45 plate ½ mechanism for one (1) 3 pole male quick connector

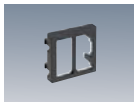
K121B /9 /14 — K45 plate ½ mechanism for one (1) 3 pole female quick connector

PLATES FOR 3-POLE FLUSH-MOUNT QUICK CONNECTORS

K121 /9 /14 — K45 plate ½ mechanism for one (1) 3 pole male or female quick connector



K18 /9 /14 — K45 plate for one (1) 3 pole male or female flush-mount quick connector



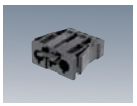
KB18 /9 /14 — K45 plate for two (2) 3 pole male or female flush-mount quick connector

PLATES FOR 5-POLE FLUSH-MOUNT QUICK CONNECTORS

K18W5 /9 /14 — K45 plate two (2) mechanisms for one (1) 5 pole male or female flush-mount quick connector

CONNECTORS

CR0001 /9 /14 /6 — 3 pole female flush-mount quick connector, connection by clamp



CR0002 /9 /14 /6 — 3 pole male flush-mount quick connector, connection by clamp

CR0003 /9 /14 /6 — 3 pole female overhead quick connector, connection by screw

CR0004 /9 /14 /6 — 3 pole male overhead quick connector, connection by screw

CR5001 /14 — 5 pole female flush-mount quick connector, connection by clamp

CR5002 /14 — 5 pole male flush-mount quick connector, connection by clamp

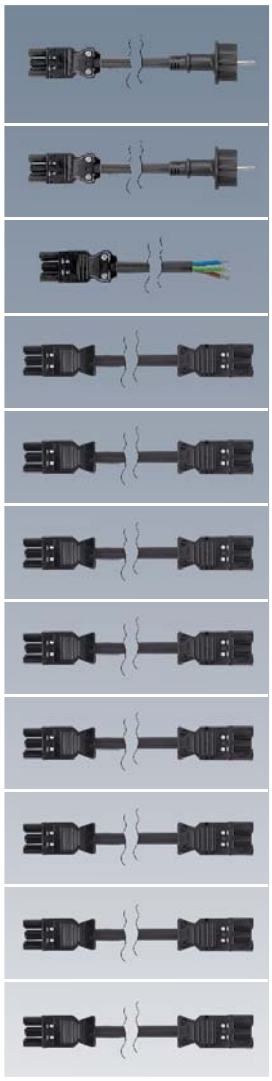
CR5003 /14 — 5 pole female overhead quick connector, connection by screw

CR5004 /14 — 5 pole male overhead quick connector, connection by screw

Connectors in /6 are not compatible with /9 /14 to avoid confusion during installation.

Technical details
See page 202

3-POLE QUICK-CONNECTION PATCH CORDS



CR1020 /9 /14	3 pole Schuko female quick-connection patch cord. 2 m. PVC Section 3x1.5 mm²
CR6020 /9 /14 /6	3 pole Schuko female quick-connection patch cord. 2 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²
CR4020 /9 /14 /6	3 pole free-end female quick-connection patch cord. 2 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²
CR2010 /9 /14 /6	3 pole male-female quick-connection patch cord. 1 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²
CR2020 /9 /14 /6	3 pole male-female quick-connection patch cord. 2 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²
CR2030 /9 /14 /6	3 pole male-female quick-connection patch cord. 3 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²
CR2040 /9 /14 /6	3 pole male-female quick-connection patch cord. 4 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²
CR2050 /9 /14 /6	3-pole male-female quick-connection patch cord. 5 m. RZ cable – 0.6/1kv. Halogen-free. Section 3 x 2.5 mm²
CR2060 /9 /14 /6	3 pole male-female quick-connection patch cord. 6 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²
CR2070 /9 /14 /6	3 pole male-female quick-connection patch cord. 7 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²
CR2080 /9 /14 /6	3 pole male-female quick-connection patch cord. 8 m. RZ cable – 0.6/1 kv. Halogen-free. Section 3x2.5 mm²

Connectors in /6 are not compatible with /9 /14 to avoid confusion during installation.

JUNCTIONS

CR7312 /14	3 pole T-junction part with 1 input and 2 outputs

The SIMON quick-connection plates are also compatible with WAGO® connectors

Configuration example

OFIBLOCK COMPACT K45: Consolidation point for raised floor or false ceiling

	Quantity	Ref./Finish	Description
Enclosure	1	**KFC106/14**	OFIBLOCK COMPACT K45 6 usable mechanisms
Electrical sockets and plates	1	**ACFC03/24**	Side cover for single quick-connection input
	1	**CR0002/14**	3 pole male flush-mount quick-connector, graphite
	6	**KB18/14**	K45 plate for two (2) 3 pole male or female flush-mount quick-connectors, graphite
	12	**CR0001/14**	3 pole female flush-mount quick-connector, graphite

N.B. This configuration does not include the patch cord in the reference listing

Technical details
See page 202

ELECTROBANDA

Great adaptability

The ELECTROBANDA pre-wired trunking is especially designed for **commercial and industrial** premises, such as **hypermarkets and warehouses**.

It is pre-fabricated with 3 conductors for 20 A to 240 V.

Complete installation flexibility

Allows assembly of mechanically interlocking **mobile socket bases** that can be changed position without needing to be wired.

Installation options

Wall installation

ELECTROBANDA has an aluminium section with a matching cover that allows it to be installed on wall surfaces, providing a good finish.

Installation in aluminium perimeter trunking

ELECTROBANDA can be attached to the following **aluminium trunkings**:

With 65 mm cover:

ELECTROBANDA clips directly on the 65x40 mm model.

See aluminium Mini-trunking on page 96

Tools required for Electrobanda installation

PEA131
Angle piece bender

PEA132
Cable strippers

ELECTROBANDA TRUNKING

PE101 /9 ELECTROBANDA in 25 m reel

Accessories

Electrical sockets for ELECTROBANDA

PEA124 /9
Mobile Schuko socket

PEA125 /9
Mobile French socket

Wall-mount accessories

PEA100 /8
2.5 m aluminium section

PEA110 /9
Section cover in 25 m reel

PEA120 /9
Connection box (electric power supply)

PEA101 /9
Flat 90º angle piece

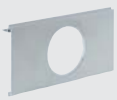
PEA104 /9
End cover

PEA106 /9
T-junction

Accessories for installation in aluminium perimeter trunking

Aluminium trunking with 65mm cover: 65 x 40 mm model

TMA08 /8
65x120 mm aluminium plate for Schuko socket

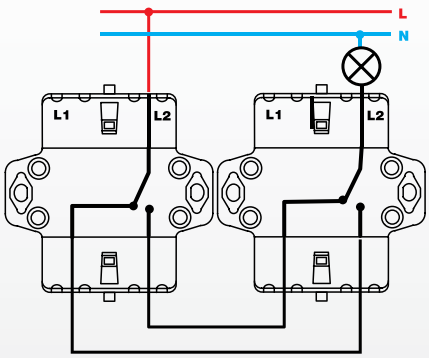


TMA07 /8
65x120 mm aluminium plate for French socket

Technical details
See page 203

Simon Technical Information

Simon Technical Information



simon

Technical information

Plastic parts manufactured using thermoplastic, self-extinguishable, halogen-free materials, which prevent flames from spreading during a fire and guarantee low toxicity in the event that smoke is emitted.

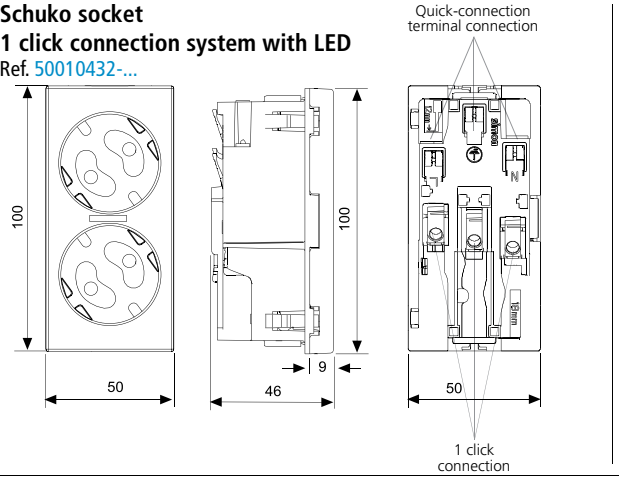
MATERIALS SELF-EXTINGUISHABLE AND HALOGEN-FREE

ELECTRICAL SOCKETS

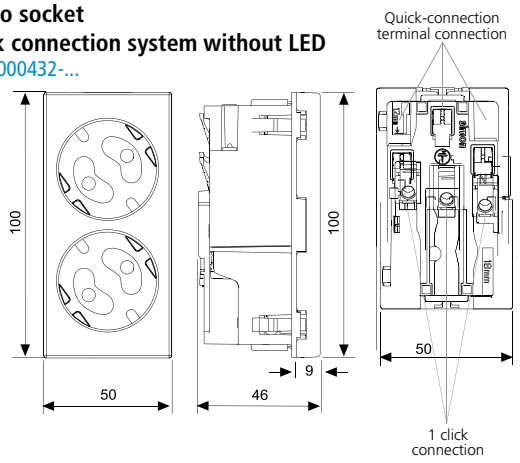
- The screw-fasten Schuko socket complies with standard UNE 20.315
- The Schuko socket with 1 click connection system complies with standard EN60998-2-3
- The French socket complies with standard NF-C-61.314
- Cabling from 1.5 mm to 2.5 mm cross-section for different types of terminal connection
- Product designed according to standard UNE-20315 (Schuko sockets) or NF C 61.314 (French sockets)
- Electrical specification: 16A/250V
- IP protection level: 20
- LED Indicator: consumption: 0.55 mA

SCHUKO SOCKET OUTLETS

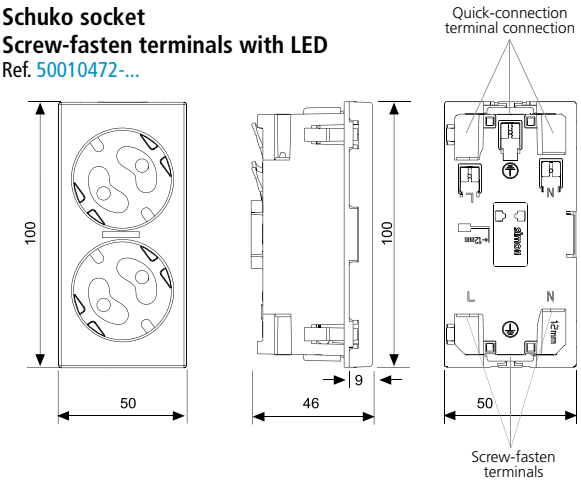
Schuko socket
1 click connection system with LED
Ref. 50010432-...



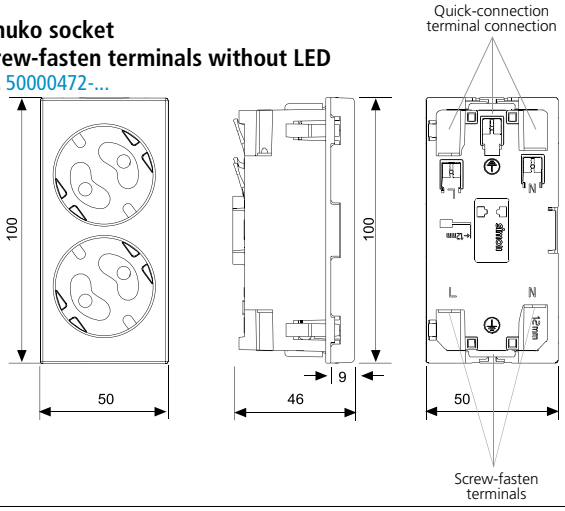
Schuko socket
1 click connection system without LED
Ref. 50000432-...



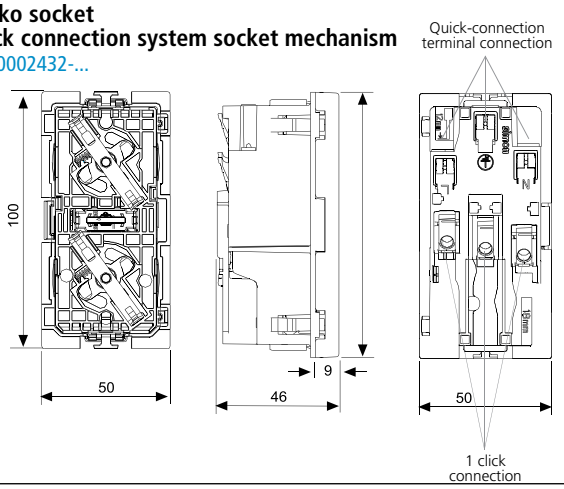
Schuko socket
Screw-fasten terminals with LED
Ref. 50010472-...



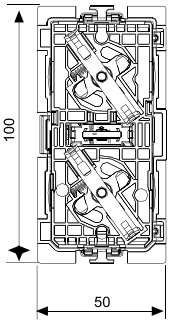
Schuko socket
Screw-fasten terminals without LED
Ref. 50000472-...



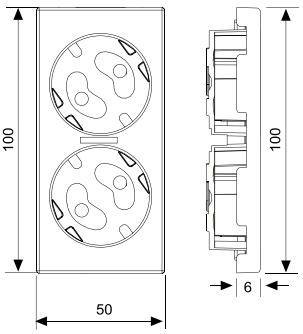
Schuko socket
1 click connection system socket mechanism
Ref. 50002432-...



Schuko socket
Screw-fasten terminals socket mechanism
Ref. 50002472-...



Covers with viewer
Ref. 50011041-... / 50011841-...

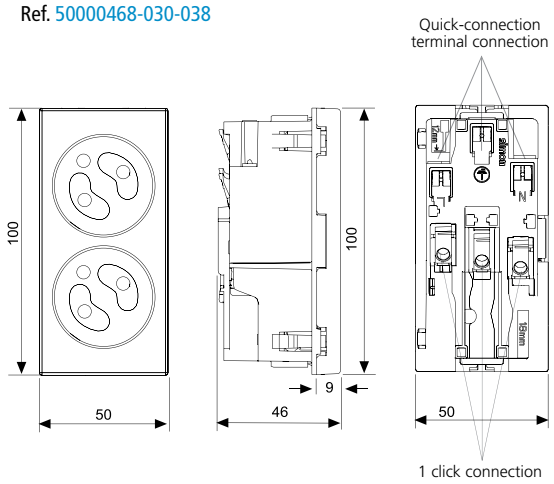


Dimensions in mm

FRENCH SOCKET OUTLETS

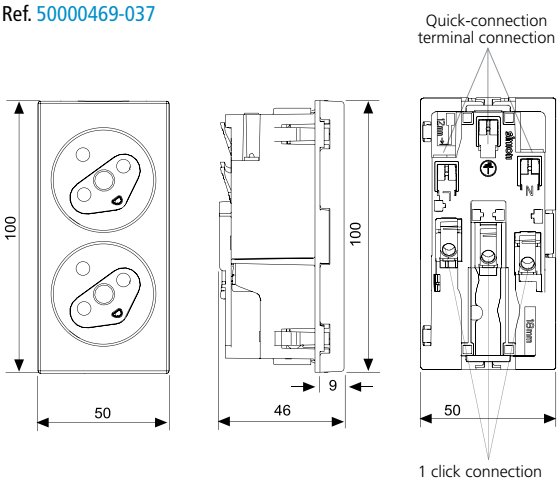
French socket
1 click connection system without LED

Ref. 50000468-030-038



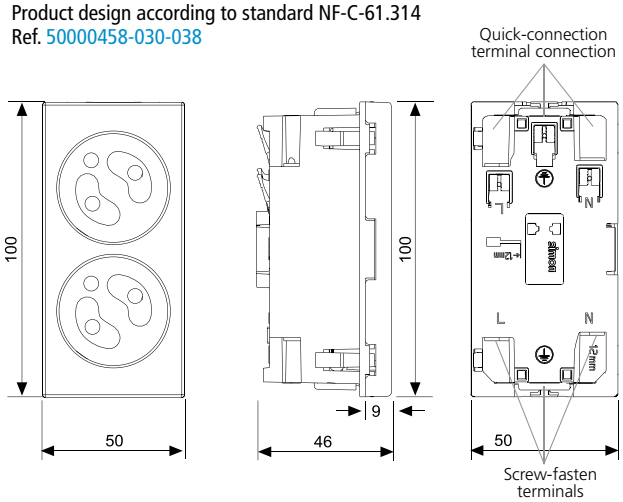
French socket
1 click connection system without LED for release PIN

Ref. 50000469-037



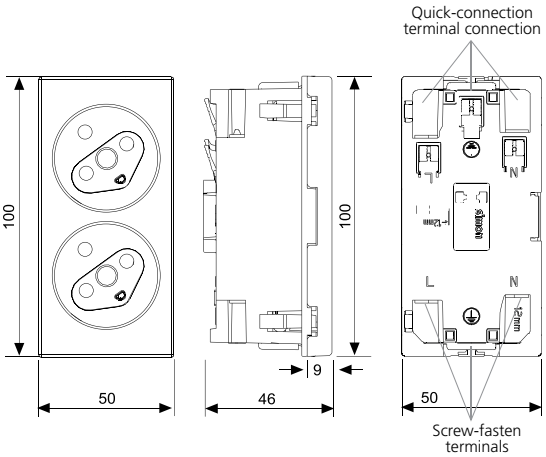
French socket
Screw-fasten terminals without LED

Product design according to standard NF-C-61.314
Ref. 50000458-030-038



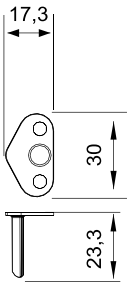
French socket
Screw-fasten terminals without LED for release PIN

Ref. 50000459-037



Safety shutter release PIN

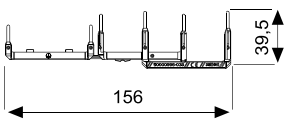
Ref. 50000803-...



ACCESSORIES

Electrical linker

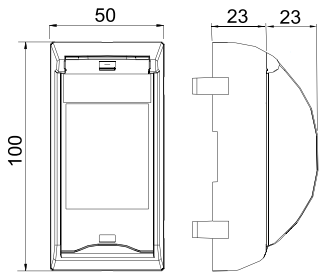
Ref. 50000996-039



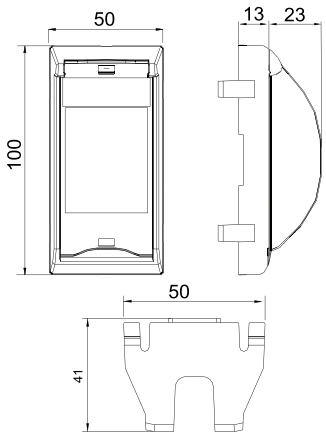
Dimensions in mm

PROTECTION

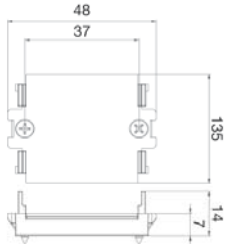
Ref. 50010074-...



Ref. 50000074-...

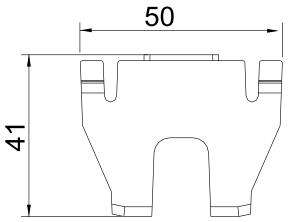


Ref. 50010076-...

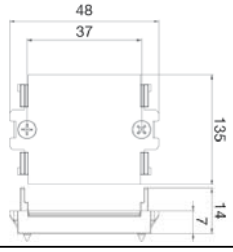


Replacement parts

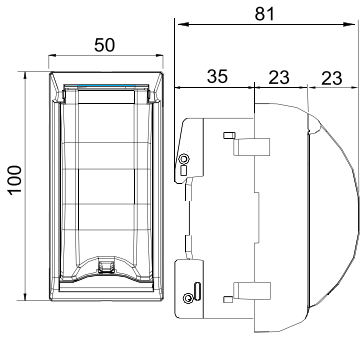
Ref. 50000076-...



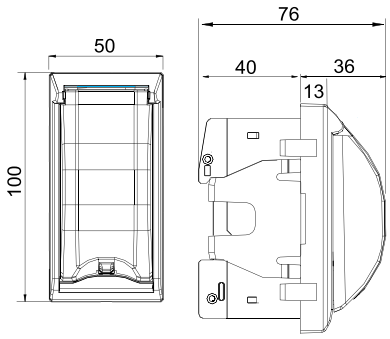
Ref. 50010076-...



Ref. 50010075-... / 50012075-... / 50011075-...

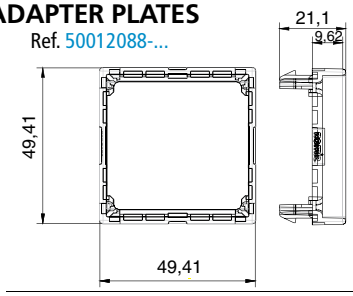


Ref. 50000075-... / 50002075-... / 50001075-...



ADAPTER PLATES

Ref. 50012088-...



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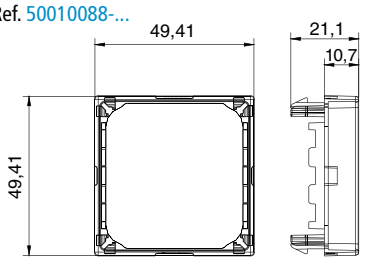
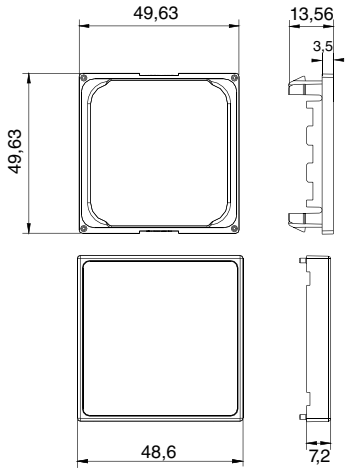


Ref. 50011088-...



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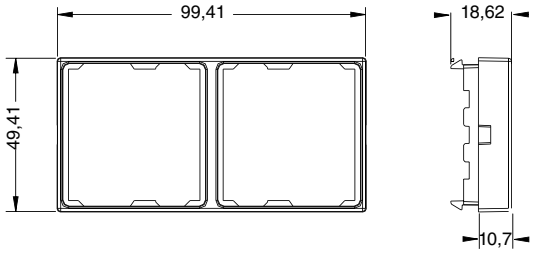
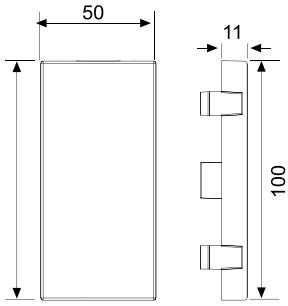
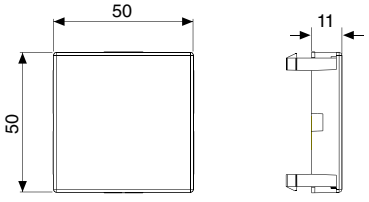


BLIND PLATE

Ref. 50000800-...



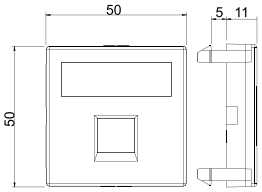
Ref. 50010800-...



Dimensions in mm

VOICE AND DATA PLATES

Ref. 50000185-... / 50001185-... / 50002185-... / 50003185-... / 50004185-... / 50011185-... / 50015185-... / 50018185-... / 50019185-...



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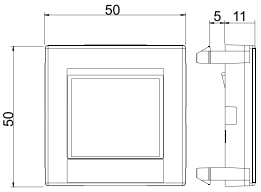
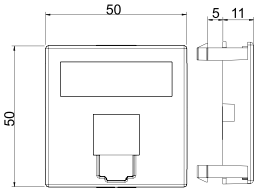


Ref. 50000085-... / 50001085-... / 50002085-... / 50003085-... / 50004085-... / 50013085-... / 50015085-... / 50016085-... / 50017085-... / 50018085-... / 50019085-...



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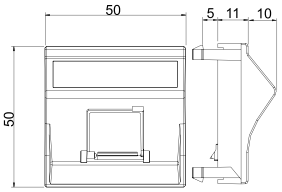
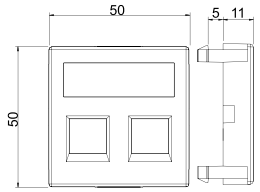
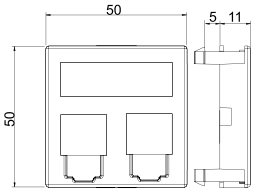


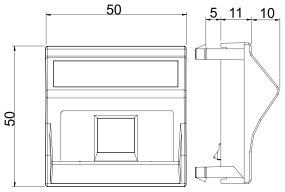
Ref. 50000189-... / 50001189-... / 50002189-... / 50003189-... / 50004189-... / 50011189-... / 50015189-... / 50018189-... / 50019189-...



Ref. 50000089-... / 50001089-... / 50002089-... / 50003089-... / 50004089-... / 50013089-... / 50015089-... / 50016089-... / 50017089-... / 50018089-... / 50019089-...



Ref. 50000181-...



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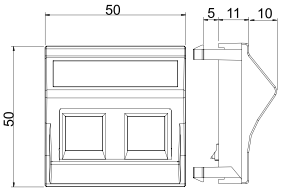

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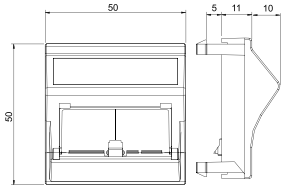
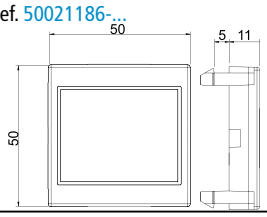


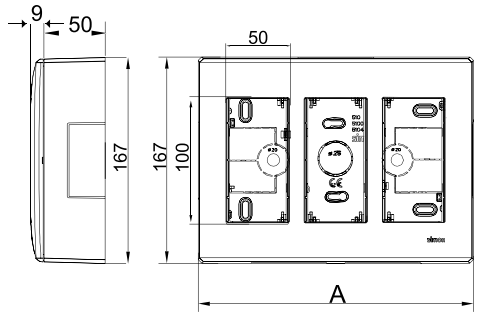
Ref. 50021186-...

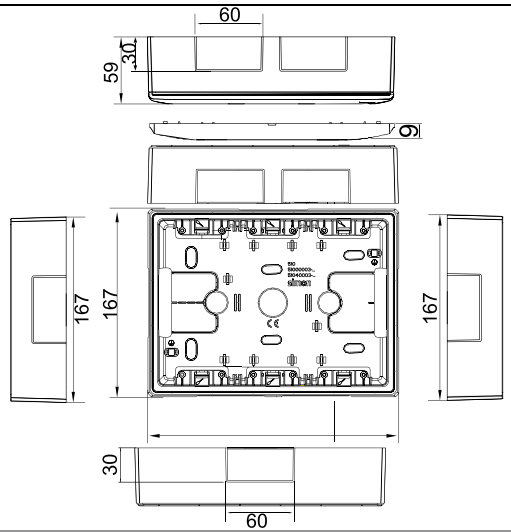


SURFACE BOXES

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with standard UNE-EN-60.670-1
- Directive ROHS 2011/65/EU
- EC-marked product CE
- Impact resistance: Ik07
- Temperature range during installation: - 5º to + 60º
- IP protection level: 4X
- Maximum temperature during construction: +60º
- Heat resistance (according to standard IEC 60695-10-2):+125º
- Self-extinguishable (GWFI, according to standard IEC 60695-2-11): +850ºC/ 30s
- Insulation resistance >5MΩ at 500V
- Electrical rigidity: No drilling or contouring with 2000V. 50Hz for 1 minute.

Ref. 5100000x-...



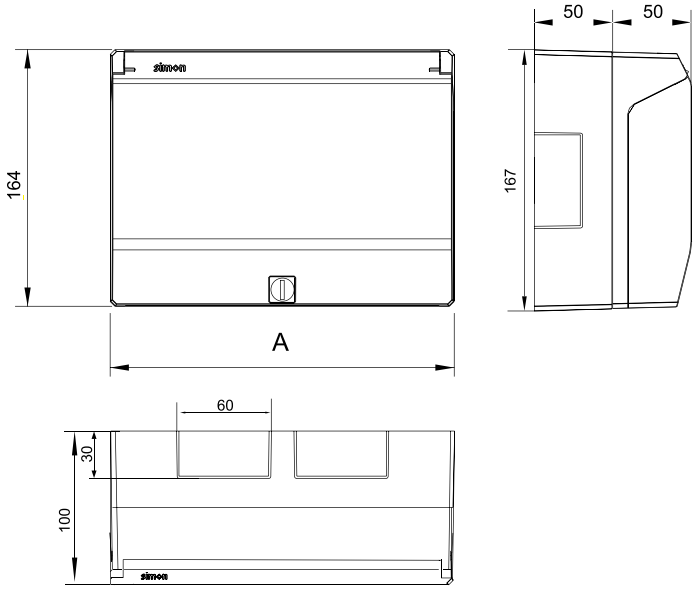


References	No. of modules	Dimensions A	58x31 Lateral inlets	Pre-punched hole 20 Ø	Pre-punched hole 25 Ø	Pre-punched holes 30x50	Pre-punched holes 40x80
51000001-...	1	97	4	-	1	-	-
51000002-...	2	160	5	1	1	-	1
51000003-...	3	223	5	-	1	2	-
51000004-...	4	286	5	2	2	2	-
51000006-...	6	412	5	4	2	2	-

Dimensions in mm

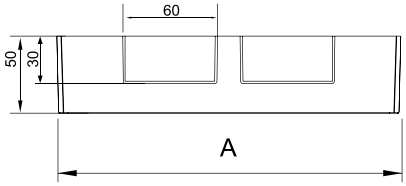
SURFACE BOXES

Complete boxes with frame



References	No. of modules	Dimensions **A**
51040003-…	3	220
51000004-…	4	284

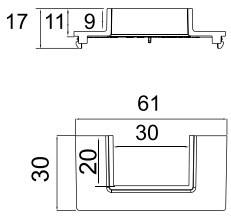
Box sockets for kits



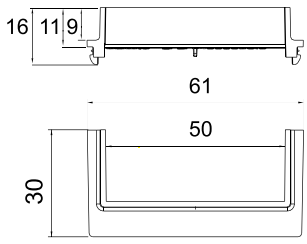
References	No. of modules	Dimensions **A**
51050002-…	2	160
51050003-…	3	223
51050004-…	4	286

Adapters for mini-trunking and tube entry

Ref. 51010900-030

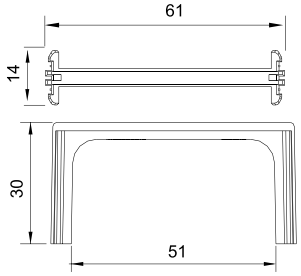


Ref. 51020900-030



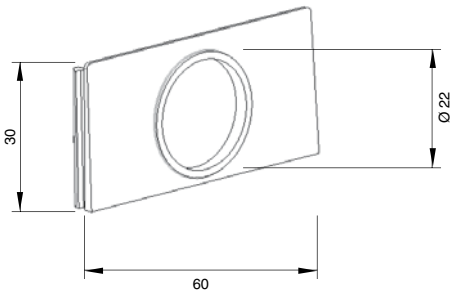
Box linker

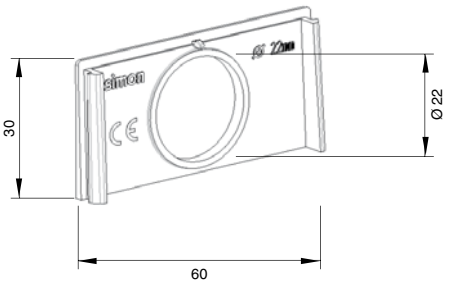
Ref. 51040905-030



Cover for Ø 22 mm tube or cable seal

Ref. 51030900-030



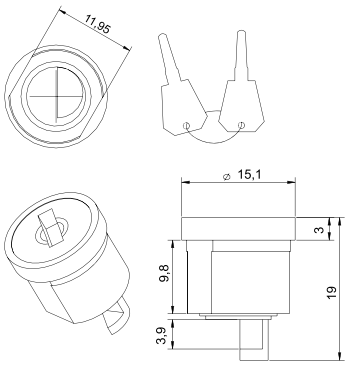


Dimensions in mm

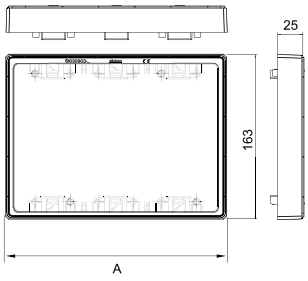
SURFACE BOXES

Cylinder lock with key

Ref. 51040900-033

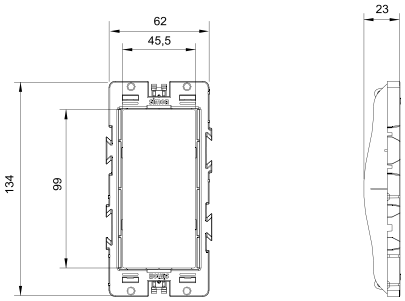


Depth expander accessory



References	No. of modules	Dimensions **A**
51030903-…	3	219
51030904-…	4	283

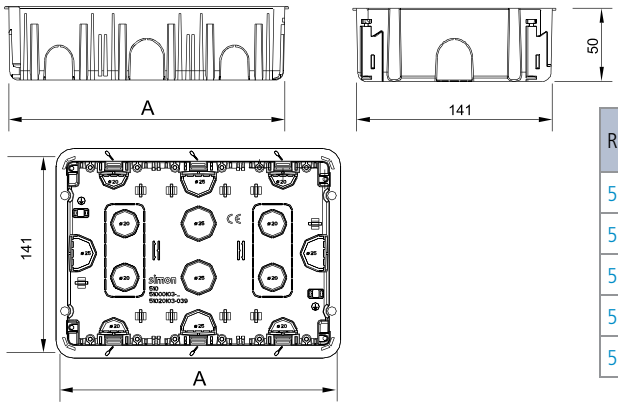
Centre frame replacement part



FLUSH-MOUNT BOXES

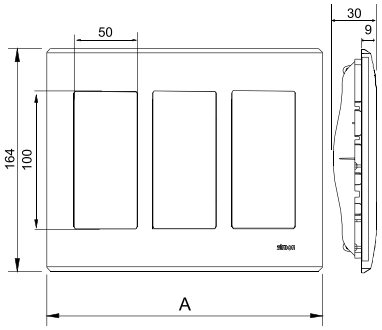
- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with standard UNE-EN-60.670-1
- Directive ROHS 2011/65/EU
- EC-marked product CE
- Impact resistance: Ik07
- Protection level: IP:4X
- Temperature range during installation: - 5º to + 60º
- Maximum temperature during construction: + 90º
- Heat resistance (according to standard IEC 60695-10-2):+125º
- Self-extinguishable (GWFI, according to standard IEC 60695-2-11): +850ºC/ 30s
- Insulation resistance >5MΩ at 500V
- Electrical rigidity: No drilling or contouring with 2000V. 50Hz for 1 minute.

Flush-mount box



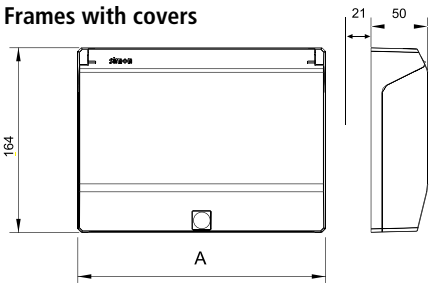
References	No. of modules	Dimensions **A**	Pre-punched hole Ø 20	Pre-punched hole Ø 25	Pre-punched hole 30x70
510201101-…	1	73	4	2	-
510201102-…	2	157	6	4	1
510201103-…	3	199	8	6	2
510201104-…	4	262	8	10	2
510201106-…	6	388	10	16	2

Frames



References	No. of modules	Dimensions **A**
51010101-...	1	94
51010102-...	2	135
51010103-...	3	220
51010104-...	4	284
51010106-...	6	409

Frames with covers

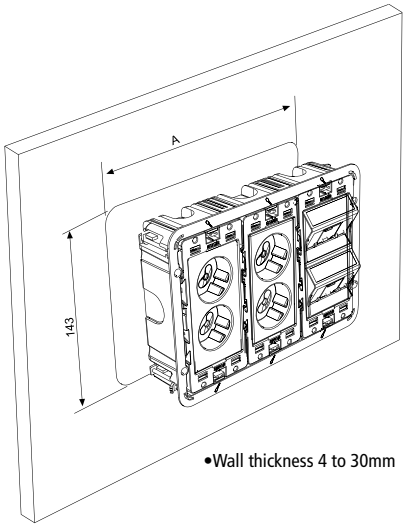


References	No. of modules	Dimensions **A**
51040103-...	3	220
51040104-...	4	284

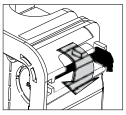
Dimensions in mm

FLUSH-MOUNT BOXES

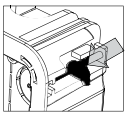
Installation in masonry wall and hollow partition



References	No. of modules	Dim. **Width**
51020101-...	1	75
51020102-...	2	138
51020103-...	3	201
51020104-...	4	264
51020106-...	6	390



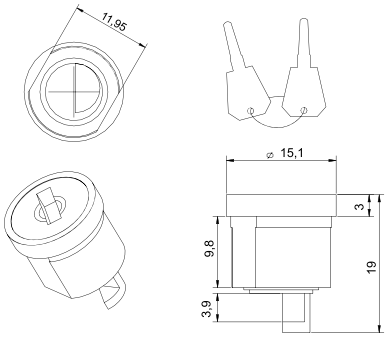
Masonry wall



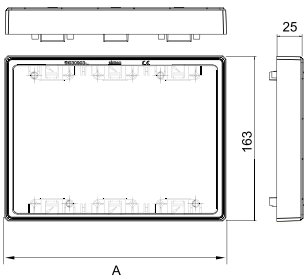
Hollow partition

Cylinder lock with key

Ref. 51040900-033



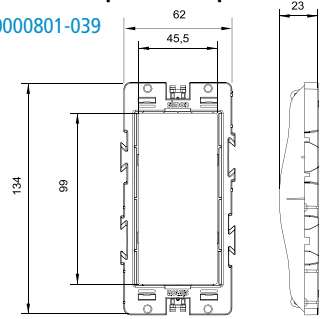
Depth accessory



References	No. of modules	Dimensions **A**
51030903-...	3	219
51030904-...	4	283

Centre frame replacement part

Ref. 50000801-039

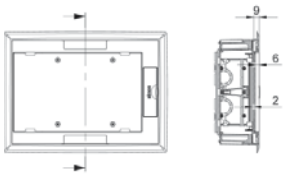


SHALLOW FLOOR BOXES

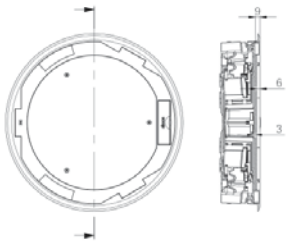
- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with standard UNE-EN-60.670-23
- EC-marked product CE.
- IP protection level: 4x
- Impact resistance IK:08
- The recommended temperature range during installation is: -5ºC to + 60ºC
- The maximum temperature during construction work is + 90ºC (installed with junction box)

Boxes

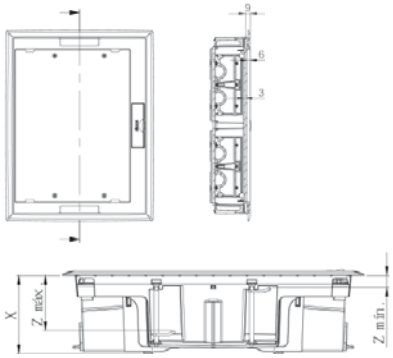
2 Modules



3 Modules



4 Modules



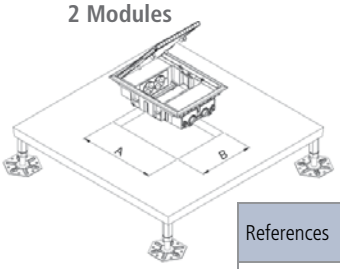
References	No. of modules	Dimensions **X**	No. of pre-punched holes x module	Dimensions **Z**
52050202-035	2	69	two Ø10 two Ø20 two 55x20	11 to 48
52050203-035	3			
52050204-035	4			

Dimensions in mm

SHALLOW FLOOR BOXES

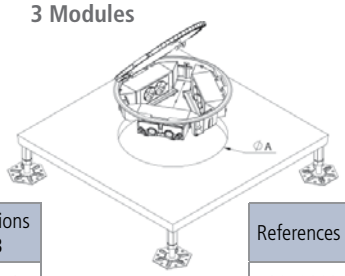
Raised-floor installation

2 Modules



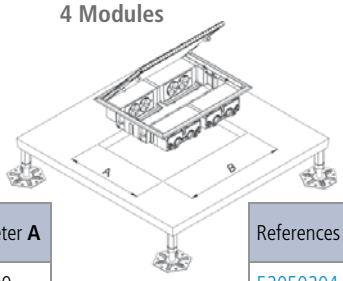
References	Dimensions **AxB**
52050202-035	250x178

3 Modules



References	Diameter **A**
52050203-035	300

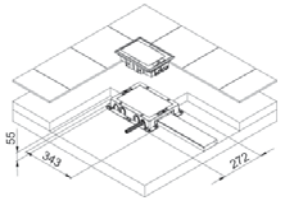
4 Modules



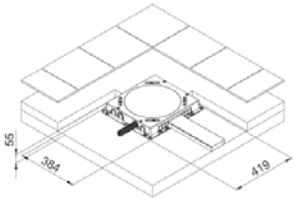
References	Dimensions **AxB**
52050204-035	250x327

Installation in concrete Floors

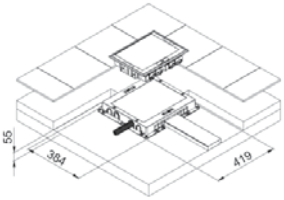
2 Modules



3 Modules

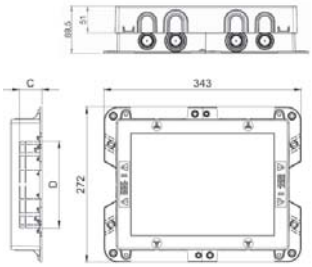


4 Modules

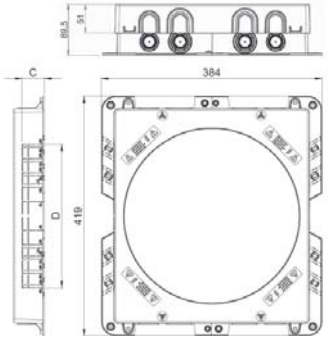


Ground tray

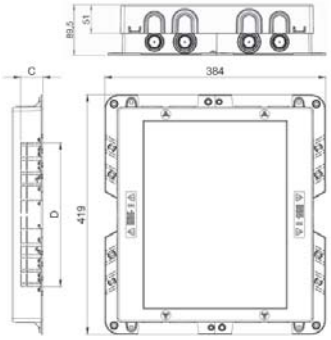
2 Modules



3 Modules



4 Modules



References	No. of modules	Measurements of the junction box opening	Depth **X**	Pre-punched Tube entry hole no.	Trunking entry CxD	
G201	2	272x343	54.5 to 90**	eight Ø20 eight Ø25 eight Ø32 four Ø40	50 100 110 140 150 *190 *200 *240 *250	x28 x38
G301C	3	419x384				
G401	4					

* Only for G301C and G401

** Not including floor finishing

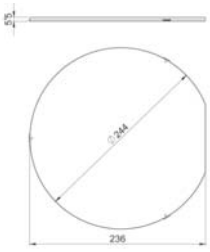
Trim covers for flush-mounting

2 Modules

Ref. 52053202-035

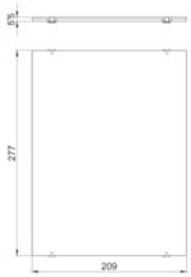
3 Modules

Ref. 52053203-035



4 Modules

Ref. 52053204-035

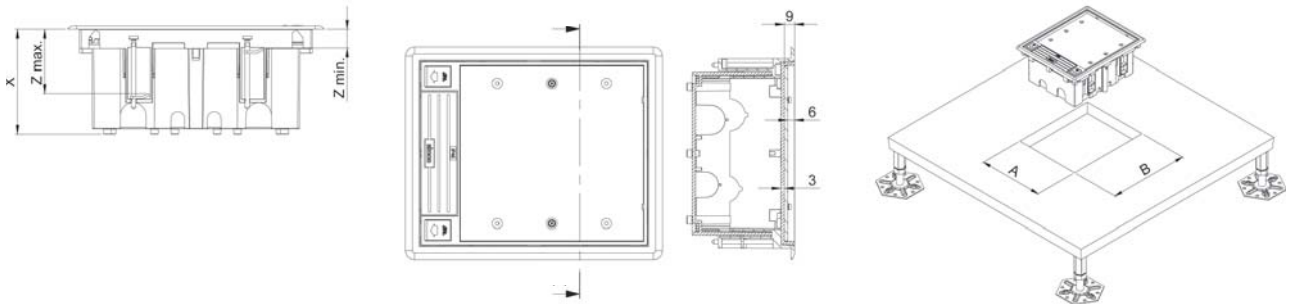


Dimensions in mm

FLOOR BOXES

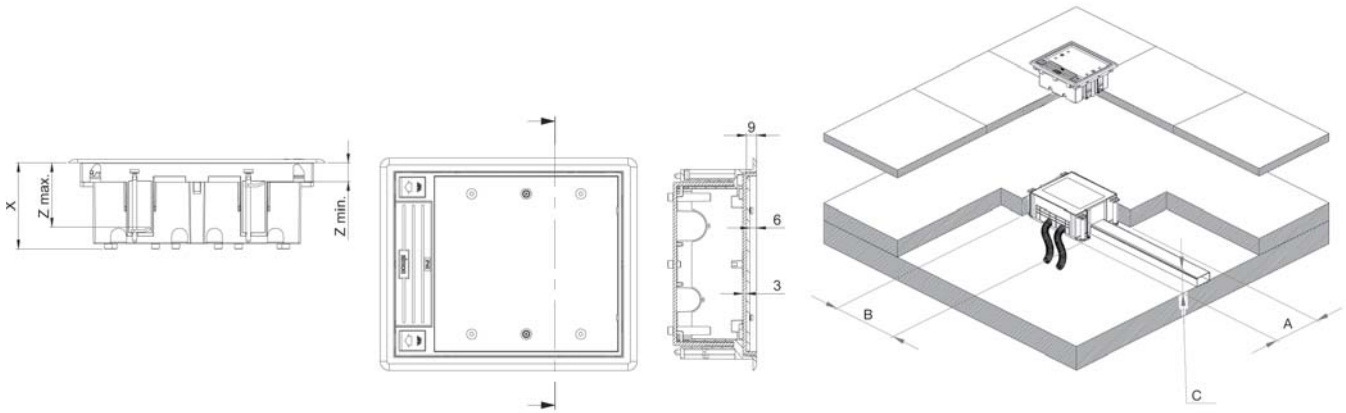
- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with standard UNE-EN-60.670-23
- EC-marked product CE.
- IP protection level: 4x
- Impact resistance IK:08
- The recommended temperature range during installation is: -5ºC to + 60ºC
- The maximum temperature during construction work is + 90ºC

Raised-floor installation



References	No. of modules	Dimensions of opening **AxB**	Depth **X**	No. pre-punched holes	Load maximum	Adjustment **Z Min.**	Adjustment **Z Max.**
52050101-…	1	170x115	Adjustable from 92 to 120	2 Ø26 + 4 Ø20 + 2 Ø12.5	400	14	54
52050102-…	2	170x155		4 Ø26 + 4 Ø20	600	14	54
52050103-…	3	170x210		2 Ø26 + 6 Ø20 + 4 Ø12.5	800	14	54
52050104-…	4	170x265		5 Ø26 + 5 Ø20	900	14	54
52050106-…	6	210x300		5 Ø26 + 5 Ø20 + 4 Ø12.5	1000	14	54

Installation in concrete Floors



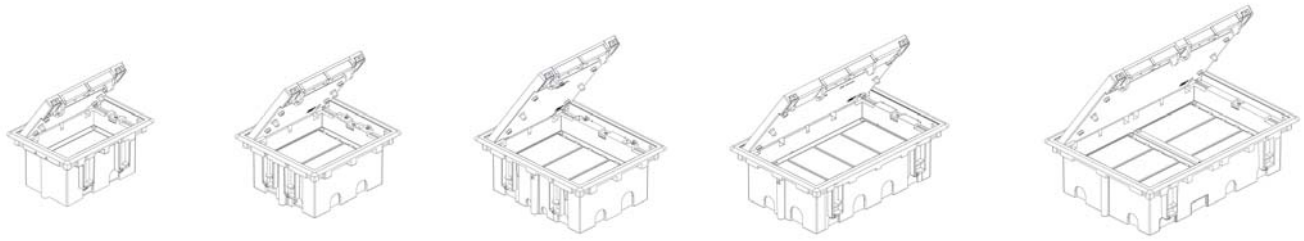
References	No. of modules	Tray plastic **AxB**	Depth **X**	No. pre-punched holes	Load maximum	Adjustment **Z Min.**	Adjustment **Z Max.**
52050001-…	1	220x172.2	Adjustable from 76 to 100	2 Ø26 + 2 Ø20 + 2 Ø12.5	400	14	54
52050002-…	2	220x172.2		4 Ø26 + 4 Ø20	600	14	54
52050003-…	3	220x227		2 Ø26 + 2 Ø20 8 + 8 Ø12,5	800	14	54
52050004-…	4	220x286.5		4 Ø26 + 4 Ø20 + 4 Ø12.5	900	14	54
52050006-…	6	239x312		4 Ø26 + 4 Ø20 + 8 Ø12.5	1000	14	54

Dimensions in mm

FLOOR BOXES

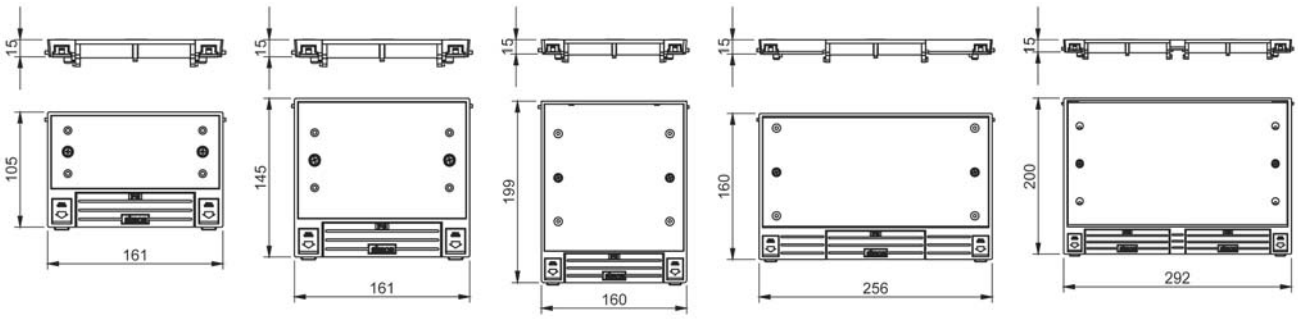
Box opening

1 Module | 2 Modules | 3 Modules | 4 Modules | 6 Modules



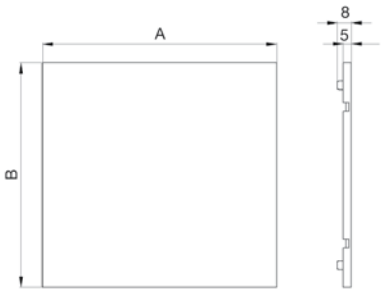
Replacement parts

1 Module	2 Modules	3 Modules	4 Modules	6 Modules
Ref. RSF001/..	Ref. RSF002/..	Ref. RSF003/..	Ref. RSF004/..	Ref. RSF006/..



Flush-mount cover

Dimensions for covers for carpeting or parquet



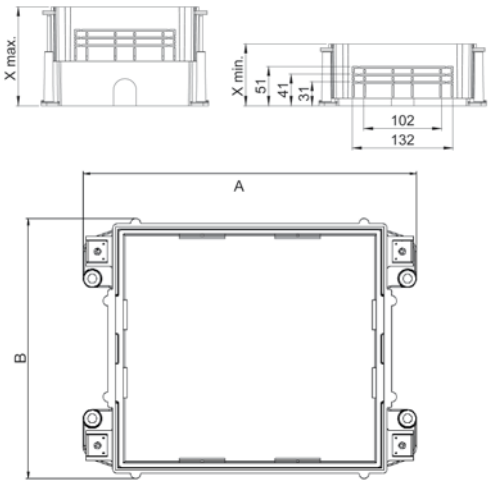
References	No. of modules	Dimension **A**	Dimension **B**
52053101	1	154	66
52053102	2	154	107
52053103	3	154	160
52053104	4	118	247
52053106	6	282	156

Dimensions in mm

JUNCTION BOXES

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with standard UNE-EN-60.670-23
- EC-marked product CE.
- IP protection level: 4x
- The recommended temperature range during installation is: -5ºC to + 60ºC
- The maximum temperature during construction work is + 90ºC

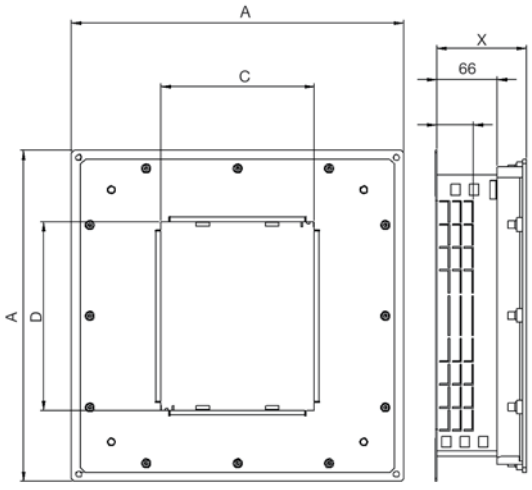
Plastic tray for concrete floors



References	No. of modules	Dimensions of the junction box opening **AxB**	Depth **X**	No. pre-punched holes Tube entry	Trunking entry
52052101-035	1	220x172.2	Adjustable from 80 to 110*	4 Ø30	From 100x20 to 130x40
52052102-035	2	220x172.2		4 Ø30	
52052103-035	3	220x227	Adjustable from 80 to 130*	4 Ø30	
52052104-035	4	220x286.5		8 Ø30	
52052106-035	6	259x312	Adj. from 80 to 110*	8 Ø30	

* Includes floor finish

Metal tray for concrete floors

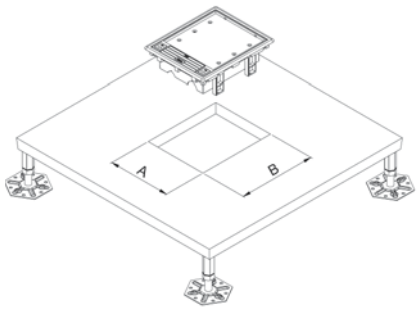


References	No. of modules	Dimensions of opening for junction box **AxA**	Dimensions of the opening for the trim **CxD**	Depth **X**	Trunking entry
52052203-033	3	363x363	168x206	Adjustable from 75 to 90	From 100x30 to 270x40
52052204-033	4	363x363	168x264		From 100x30 to 270x40
52052206-033	6	463x463	207x300		From 100x30 to 350x40

Dimensions in mm

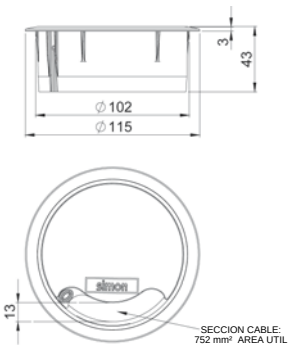
JUNCTION BOXES

Junction box cover



References	Dimensions of opening **AxB**
52054101	170x115
52054102	170x155
52054103	170x210
52054104	170x265
52054106	210x300

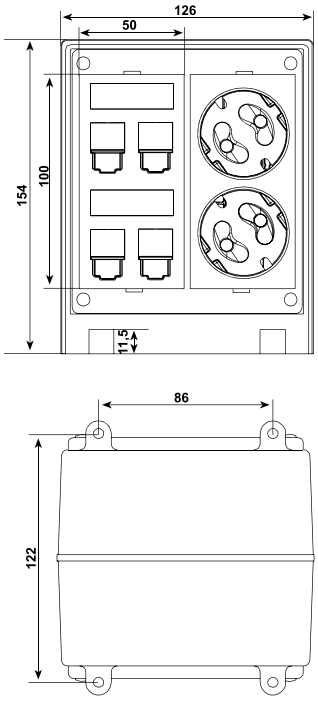
Ref. 52055000-...



MINI-TOWERS

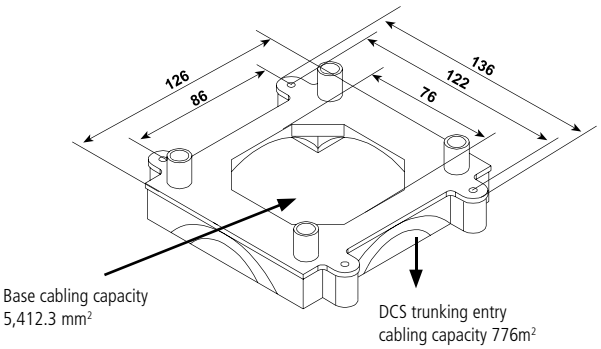
- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with standard UNE-EN-50.085-2-4
- EC-marked product CE.
- IP protection level: 4x
- Impact resistance level: IK08
- The recommended temperature range during installation is: - 5º C to +60º C
- The maximum temperature during construction work is + 60°C.

Ref. 52550204-030



Base

Ref. 52554204-030



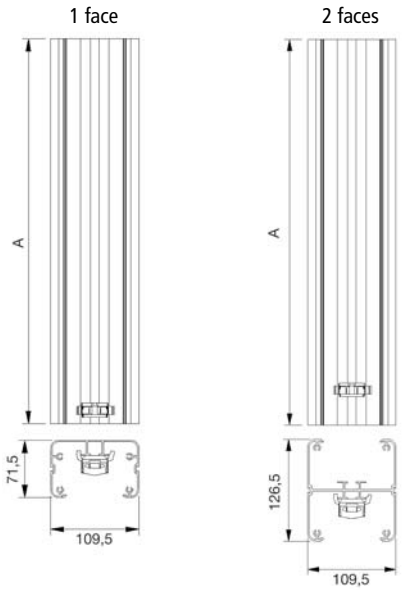
Base with pre-punched hole for DCS 85x18mm floor trunking

Dimensions in mm

MINI-COLUMNS AND COLUMNS

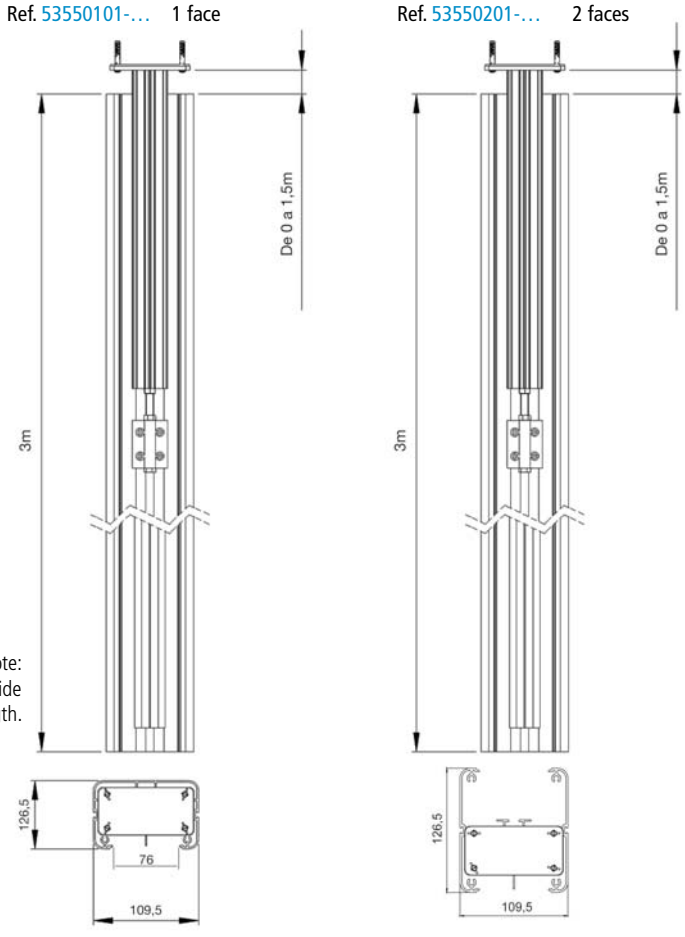
- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with standard UNE-EN-50.085-2-4.
- The recommended temperature range during installation is: - 25° C to +120° C
- The maximum temperature during construction work is + 120°C.
- Manufactured in Anodised Aluminium/Painted
- IP protection level: 4x

Mini-columns



	References	No. of modules	Dimensions **A**
1 face	52550112-…	2	316
	52550113-…	3	451
	52550114-…	4	581
	52550115-…	5	721
2 faces	52550222-…	4	316
	52550223-…	6	451
	52550224-…	8	581
	52550225-…	10	721

Columns



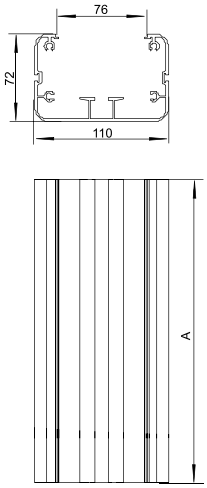
Note:
Telescoping guide 1500mm in length.

Dimensions in mm

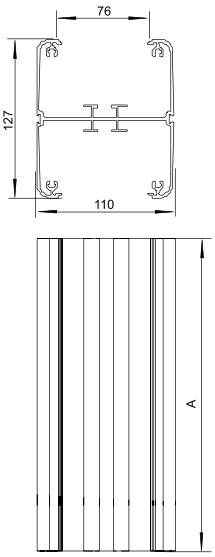
MINI-COLUMNS AND COLUMNS

Column extensions

Ref. 5355510x-…



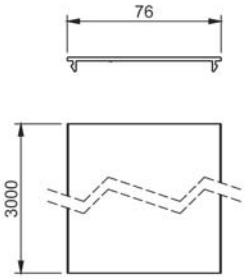
Ref. 5355520x-…



	Dimensions **A**
2 mod	316
3 mod	451
4 mod	581
5 mod	721

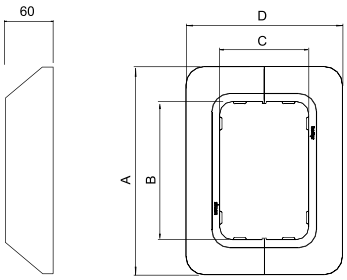
Replacement parts for columns - front cover

Ref. 52551807-...



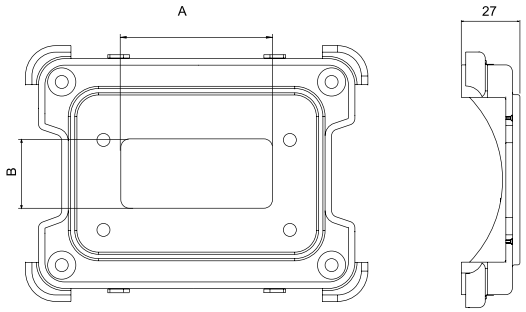
MINI-COLUMNS AND COLUMNS - REPLACEMENT PARTS

Trim



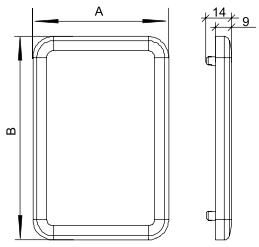
	References	Dimension **A**	Dimension **B**	Dimension **C**	Dimension **D**
1 face	52551801-…	165	110	71	125
2 faces	52551802-…	181	127	109	165

Bases



	References	Dimension **A**	Dimension **B**
1 face	52551803-038	70	32
2 faces	52551804-038	70	79

Top Cover (mini-columns only)



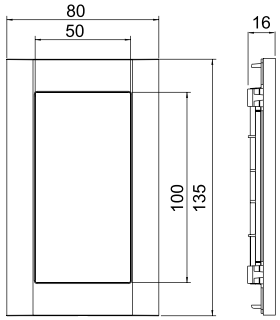
	References	Dimension **A**	Dimension **A**
1 face	52551805-…	70	32
2 faces	52551806-…	70	79

Dimensions in mm

INSTALLATION OF MECHANISMS IN MINI-COLUMNS AND COLUMNS

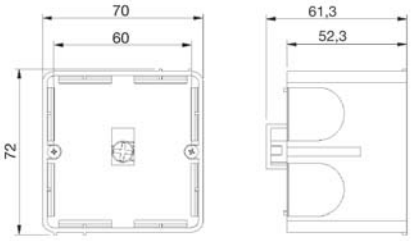
Centre frame and trim frame

Ref. 52550900-…



Universal Box

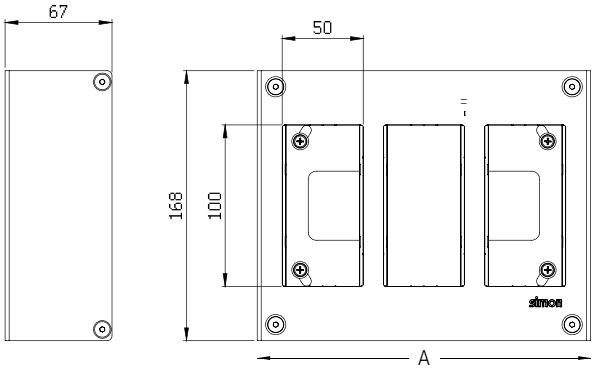
Ref. AL50



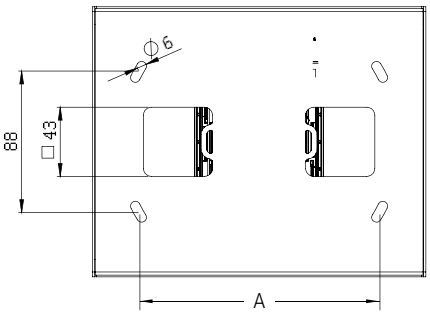
METAL ENCLOSURES

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with standard UNE-EN 50.085-1:2006 (for tower) y UNE-EN 60.670-1:2006 (for boxes)
- Frame manufactured in AISI 430 ferritic STAINLESS STEEL
- Aluminium Structure
- Impact resistance: IK10
- Protection level: IP40

Surface box



References	No. of modules	Dimensions **A**
51000011-036	1	81,5
51000012-036	2	144,5
51000013-036	3	207,5
51000014-036	4	270,5
51000016-036	6	396,5

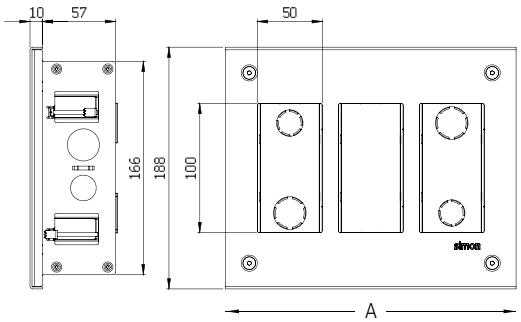


References	No. of modules	Dimensions **A**
51000011-036	1	43
51000012-036	2	106
51000013-036	3	149
51000014-036	4	212
51000016-036	6	332

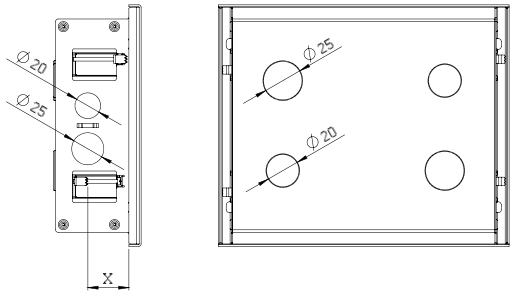
Dimensions in mm

METAL ENCLOSURES

Flush-mount box

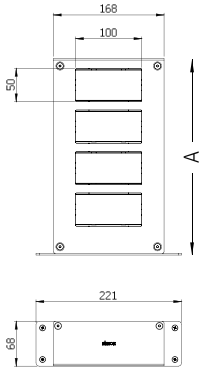


References	No. of modules	Dimensions **A**
51000111-036	1	100
51000112-036	2	163
51000113-036	3	226
51000114-036	4	289
51000116-036	6	415



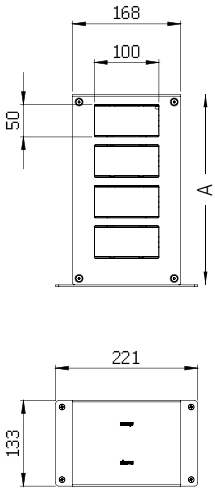
References	No. of modules	X min	X max
51000111-036	1	2	30
51000112-036	2		
51000113-036	3		
51000114-036	4		
51000116-036	6		

Tower 1 face



References	No. of heights	No. of modules	Dimensions **A**
52510212-036	2	2	172,5
52510213-036	3	3	235,5
52510214-036	4	4	298,5
52510215-036	5	5	361,5

Tower 2 faces



References	No. of heights	No. of modules	Dimensions **A**
52510222-036	2	4	172,5
52510223-036	3	6	235,5
52510224-036	4	8	298,5

Dimensions in mm

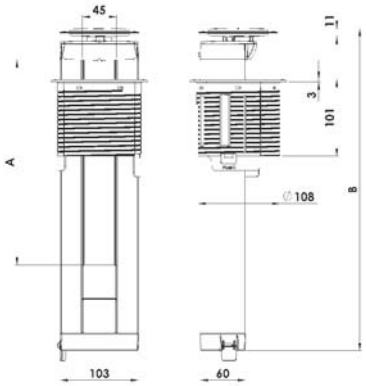
Plastic parts manufactured using thermoplastic, self-extinguishing, halogen-free materials, which prevent flames from spreading during a fire and guarantee low toxicity in the event that any smoke is released.

SELF-EXTINGUISHING
HALOGEN-FREE
MATERIALS

K45 TELEBLOCK

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-60.670.
- CE marked product.
- IP protection level: 4x.
- The recommended temperature range during installation is: -5ºC to + 60ºC.
- The maximum temperature during construction work is + 60ºC.
- Manufactured in Anodised Aluminium.

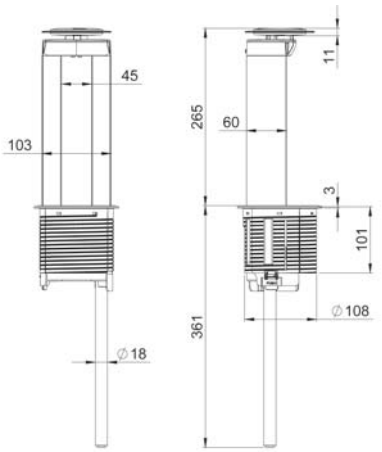
K45 TELEBLOCK manual elevation



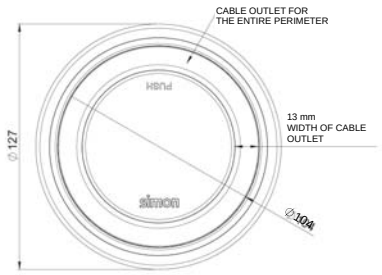
References	No. of modules K45	Dimensions A	Dimensions B	Space measurement
KTL202	2	89	242	Ø 114
KTL203	3	135	287	Ø 114
KTL204	4	180	332	Ø 114
KTL205	5	225	377	Ø 114
KTL206	6	269	422	Ø 114

K45 TELEBLOCK automatic elevation

Ref. KTLE205

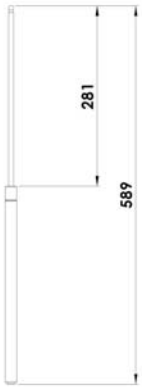


Ref. KTLA1/..



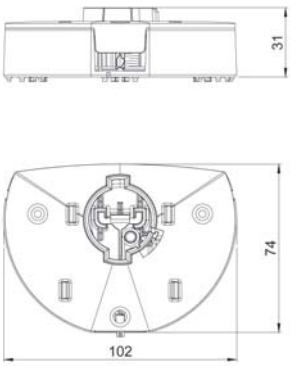
Spare parts

Ref. KTLA2
Gas cylinder for automatic TELEBLOCK elevation

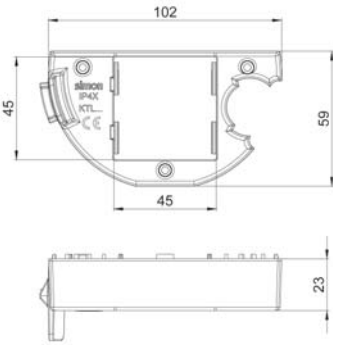


Technical data of gas cylinder:
Ø 18 – 8 mm
Piston stroke: 271 mm
Locking force: 50 N
Temperature range: -30º C – 80º C

Ref. KTLA5



Ref. KTLA6

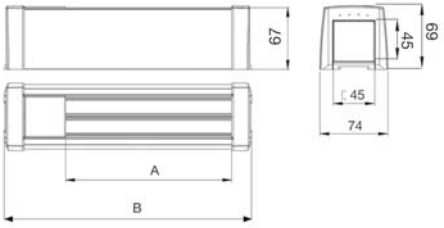


Measurements in mm

K45 OFIBLOCK PLUS

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-60.670.
- CE marked product.
- IP protection level: 4x.
- The recommended temperature range during installation is: - 5ºC to + 60ºC.
- The maximum temperature during construction work is + 60ºC.
- Manufactured in Anodised Aluminium.

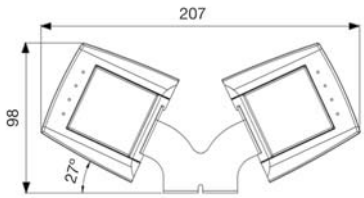
OFIBLOCK PLUS



References	No. of K45 modules	Dimensions A	Dimensions B
KFP103/..	3	135	220
KFP104/..	4	180	265
KFP105/..	5	225	310
KFP106/..	6	270	355
KFP107/..	7	315	400
KFP108/..	8	360	446

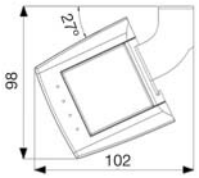
Support on raised floor (tandem configuration)

Ref. KSF2



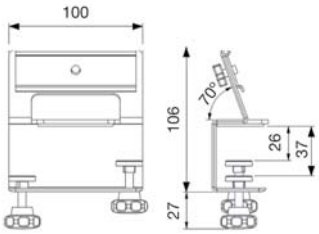
Single support under desk

Ref. KSF1



Desktop support

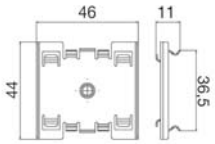
Ref. KSF3



Quick connection and cable outlet plate information on page xxx

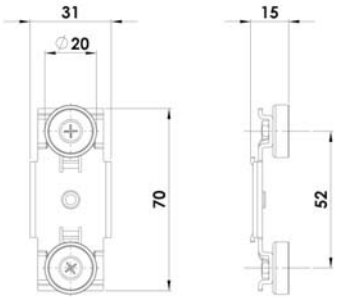
Fastening on DIN guide

Ref. KSF5



Support with magnet

Ref. KSF6



Ø	Height	Weight	Force
20 mm	6 mm	12.5 gr	9 kg

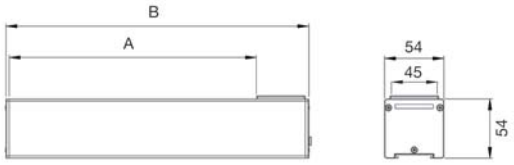
Type of magnet: Neodymium

Measurements in mm

K45 OFIBLOCK COMPACT

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-60.670.
- CE marked product.
- IP protection level: 4x.
- The recommended temperature range during installation is: - 5ºC to + 60ºC.
- The maximum temperature during construction work is + 60ºC.
- Manufactured in Anodised Aluminium.

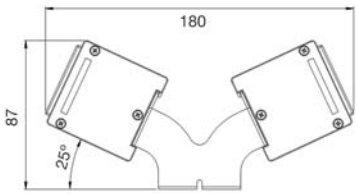
OFIBLOCK COMPACT



References	No. of K45 modules	Dimensions A	Dimensions B
KFC102/..	2	90	135
KFC103/..	3	135	180
KFC104/..	4	180	225
KFC105/..	5	225	270
KFC106/..	6	270	315
KFC107/..	7	315	360
KFC108/..	8	360	405
KFC109/..	9	405	450
KFC110/..	10	450	495

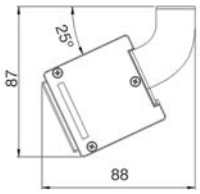
Support on raised floor (tandem configuration)

Ref. KSF2



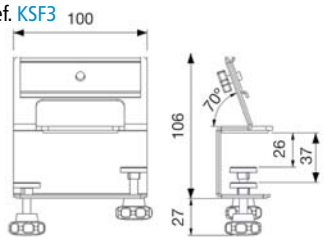
Single support under desk

Ref. KSF1



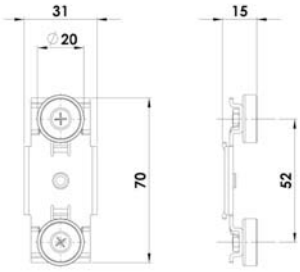
Desktop support

Ref. KSF3



Support with magnet

Ref. KSF6

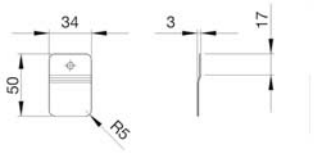


Ø	Height	Weight	Force
20 mm	6 mm	12.5 gr	9 kg

Type of magnet: Neodymium

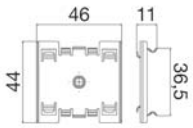
Wall mounting support

Ref. KSF4



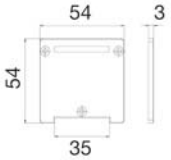
Fastening on DIN guide

Ref. KSF5

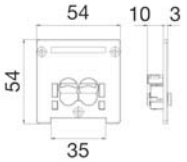


Modular side input covers

Ref. ACFC01/24

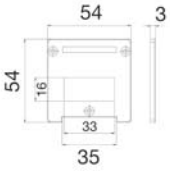


Ref. ACFC02/24

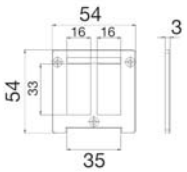


Cable cross-section.
Maximum of Ø 8 mm/
Minimum of Ø 3.5 mm

Ref. ACFC03/24



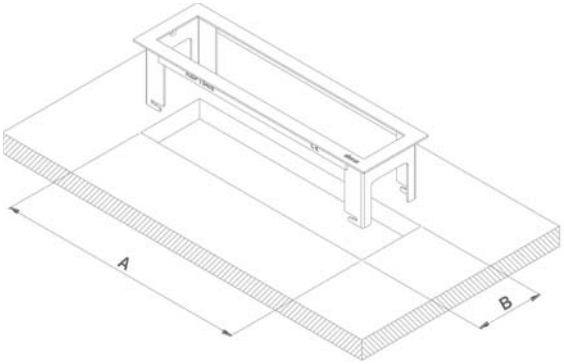
Ref. ACFC04/24



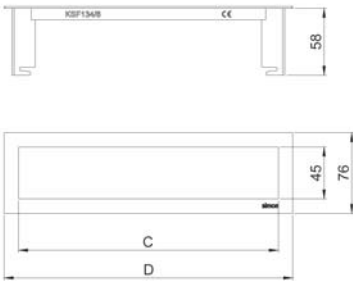
Measurements in mm

K45 OFIBLOCK LINE

K45 Ofiblock LINE Space

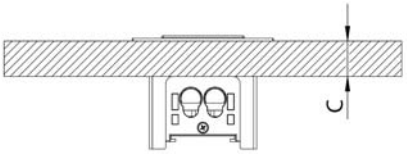


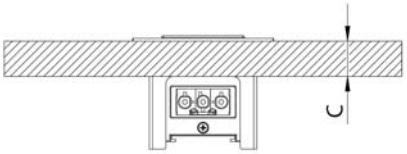
Ofiblock Line K45



References	No. of K45 modules	Dimensions A	B	Dimensions C	D
KSF134/8	4	240	64	225	256
KSF136/8	6	330	64	315	346

Furniture installation

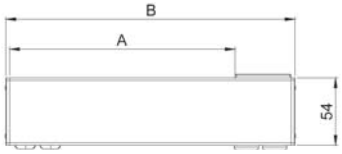




	Max. thickness of furniture **C**	Min. thickness of furniture **C**
Assembled with cable retainer side plate	24	10
Assembled with 1 quick connector	20	

For furniture of more than 24 mm only fit with OFIBLOCK LINE K45, rear cable inlets.

K45 Ofiblock (rear inlet)



References	No. of K45 modules	Dimensions A	B
KFC134/14	4	180	225
KFC136/14	6	270	315

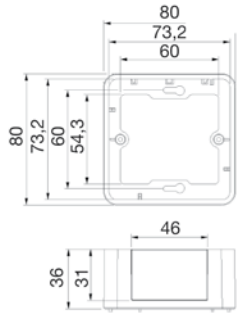
Measurements in mm

K45 SURFACE AND FLUSH-MOUNT BOXES

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-60670.
- CE marked product.
- IP protection level: 4x.
- The recommended temperature range during installation is: - 5ºC to + 60ºC.
- The maximum temperature during construction work is + 60º C (surface)/+ 90º C (flush-mount).

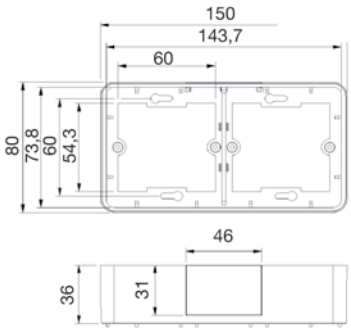
Indiv. Box Surface

Ref. R250/..



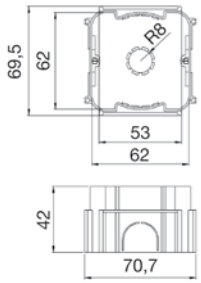
Double surface box

Ref. R450/..



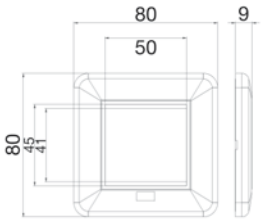
Universal flush-mount box

Ref. MR200



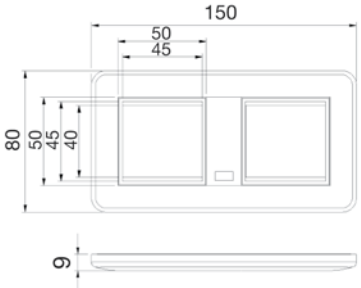
Individual frame and centre frame

Ref. KR245/..



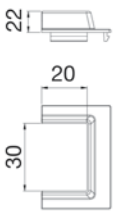
Double frame and centre frame

Ref. KR445/..

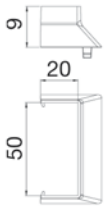


Access to Mini-trunking

Ref. SCM21F/9



Ref. SCM31F/9



Measurements in mm

K45 IP 66 WATERTIGHT FLOOR BOXES

- Product designed according the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with harmonised standard UNE-EN-60.670.
- CE marked product.
- The recommended temperature range during installation is: -25ºC to + 60ºC.
- The maximum temperature during construction work is + 90ºC.

CLOSED BOX

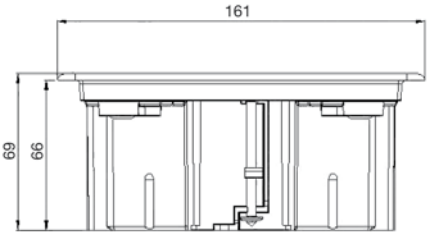
- IP66 protection level.
- Impact protection level IK07 (with IP66).
- Maximum load per unit of area: 12 kg/cm^2.
- Total maximum load: 1000 Kg.

OPEN BOX

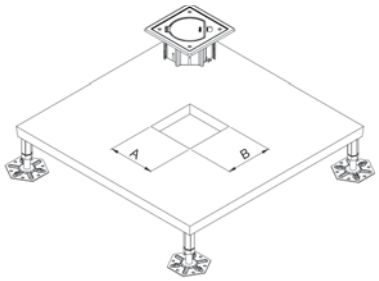
- IP20 protection level .
- Impact protection level IK0.
- Maximum load per unit of area: 4 kg/cm^2.
- Total maximum load: 100 Kg.

Raised floor tray

Ref. KGE170TF/23



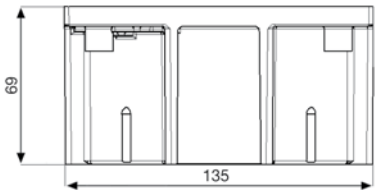
Raised floor installation



Dimensions AxB
145X145

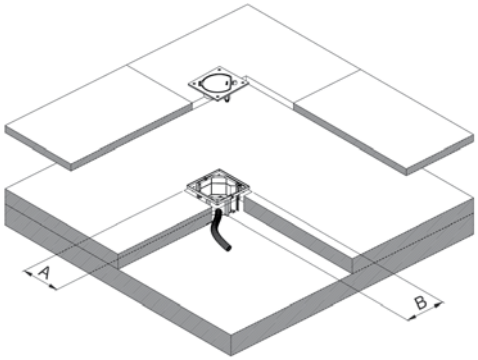
Paved Floor Tray

Ref. KGE170/23



Safety lock: Allen key 6mm.

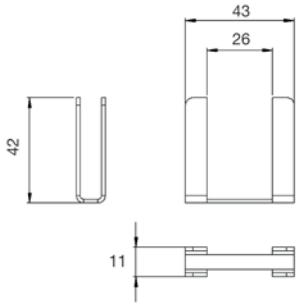
Paved floor installation



Dimensions AxB
135X135

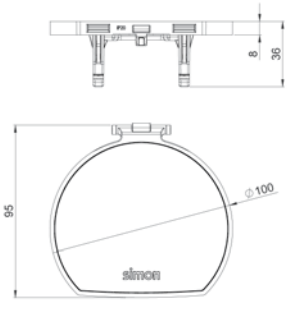
Connecting accessory

Ref. ACSE

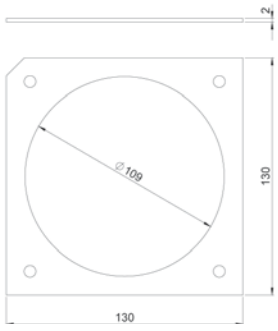


Spare parts

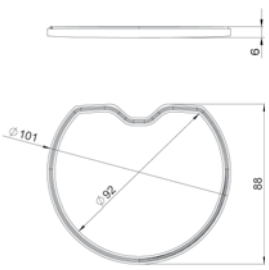
Ref. RKS001/..



Ref. RKS003



Ref. RKS004



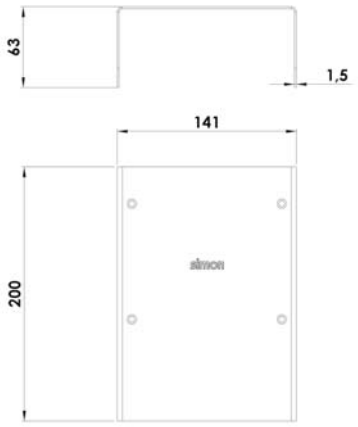
Measurements in mm

K45 ANTI-VANDALISM MINI-TOWERS

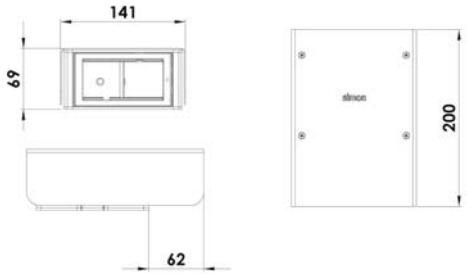
- Product designed according the Safety Requirements of Directive 2006/95/EC (Low Voltage) through compliance with harmonised standard UNE-EN-50.085.
- CE marked product.
- Manufactured in anodised aluminium and stainless steel.
- IP protection level: 4x.
- The recommended temperature range during installation is: - 25ºC to + 120ºC.
- The maximum temperature during construction work is + 120ºC.

Mini-tower with protective sheath

Ref. KTA401/8

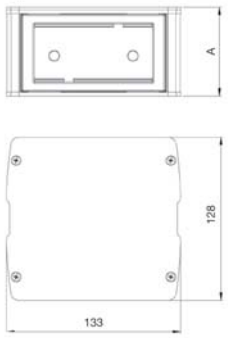


Ref. KT401/8



Mini-towers

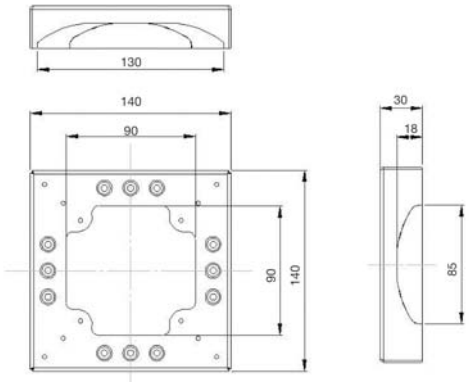
Ref. KTXXX/8



References	K45 mechanisms	Height **A**	Impact resistance
KT400/8	2	70	IK10
KT800/8	4	130	IK10
KT1200/8	6	190	IK08

Base

Ref. KTA804/8



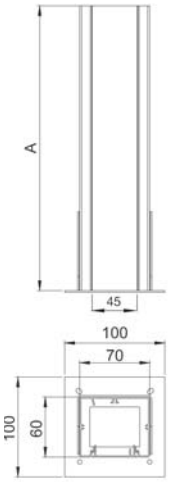
Measurements in mm

K45 MINI-COLUMNS AND COLUMNS

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- CE marked product.
- IP protection level: 4x.
- The recommended temperature range during installation is: - 25ºC to + 120ºC.
- The maximum temperature during construction work is + 120ºC.
- Manufactured in Anodised Aluminium/Painted.

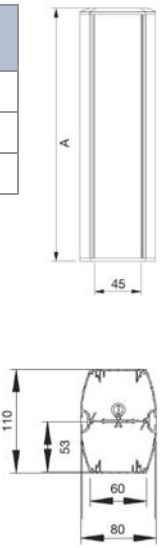
Mini-columns

Ref. ALK1XX/8
1 Side



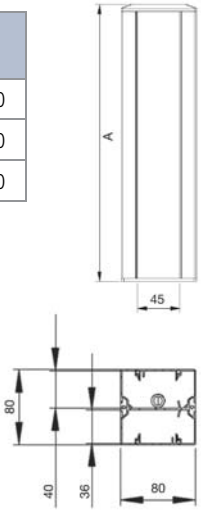
No. Mech.	A
5	270
6	315
7	360

Ref. ALK7XX/8
2 Sides oval



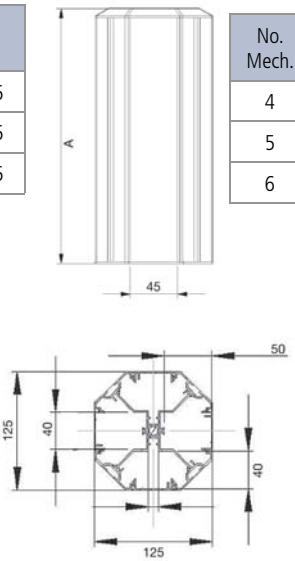
No. Mech.	A
4	210
5	260
6	310

Ref. ALK2XX/8
2 Sides square



No. Mech.	A
4	225
5	285
7	345

Ref. ALK5XX/8
4 Sides

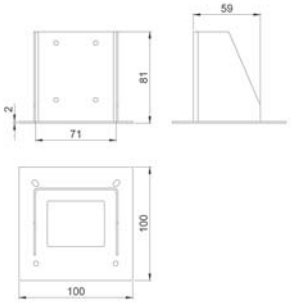


No. Mech.	A
4	210
5	260
6	310

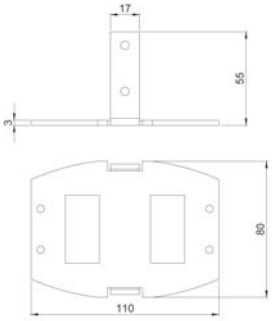
Spare Parts Mini-columns

Invisible fixed foot

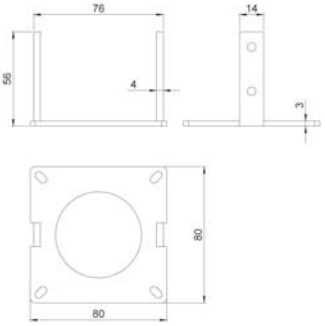
Ref. RALK005/8



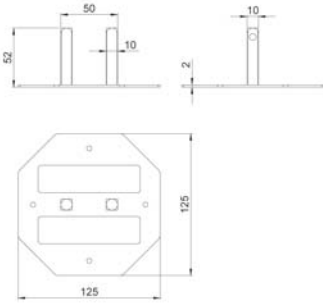
Ref. RALK006/8



Ref. RALK007/8

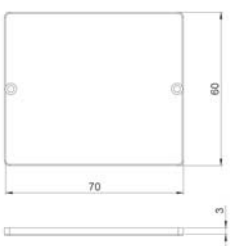


Ref. RALK008/8

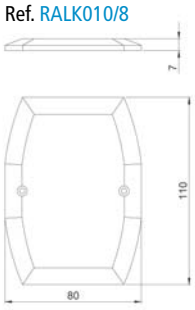


End cover

Ref. RALK009/8



Ref. RALK010/8



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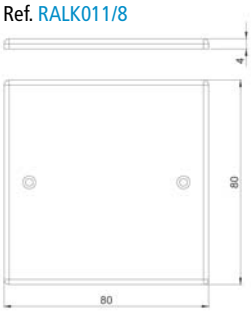
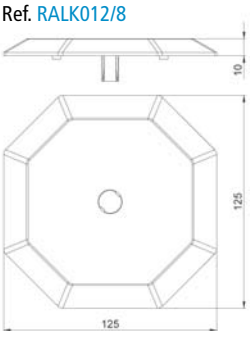


Ref. RALK012/8

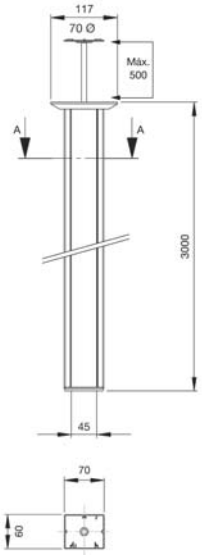


Measurements in mm

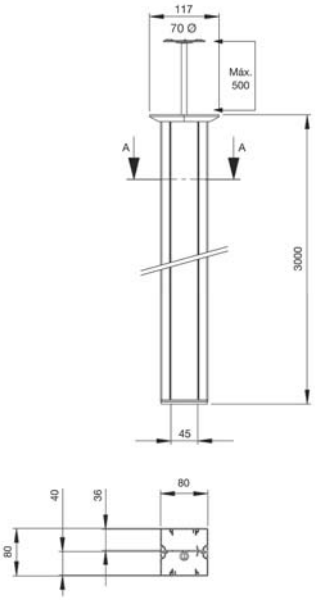
K45 MINI-COLUMNS AND COLUMNS

Columns

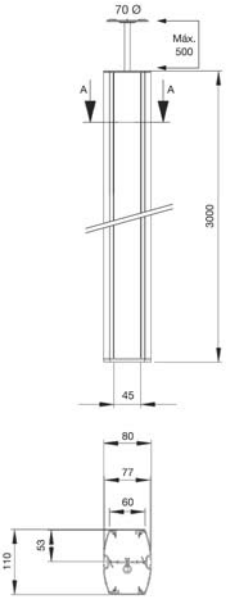
Ref. ALK1100/8
1 Side



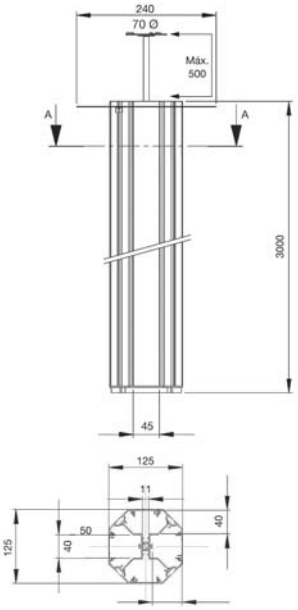
Ref. AL2200/8
2 Sides square



Ref. ALK7200/8
2 Sides oval



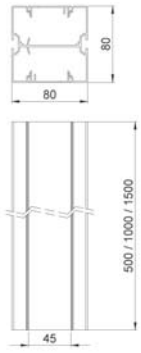
Ref. ALK5400/8
4 Sides



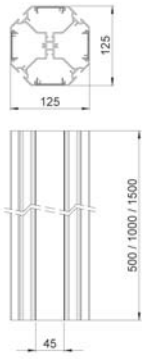
N.B.
500 mm telescopic guide, maximum length

Column Extensions

Ref. ALK22PXX/8



Ref. ALK54PXX/8

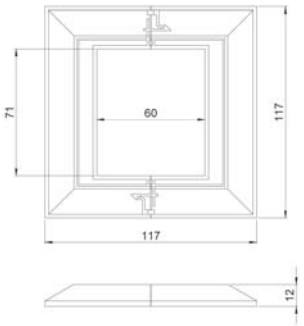


Ref. ALK72PXX/8

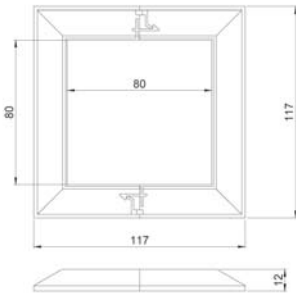
Column spare parts

Ring trim

Ref. RALK001/8

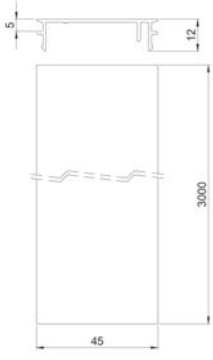


Ref. RALK002/8

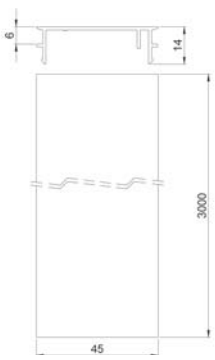


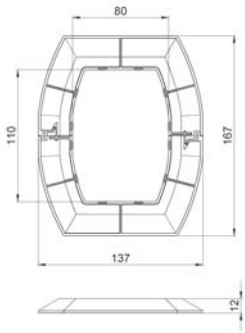
Front cover

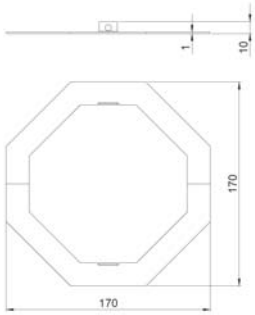
Ref. RALK013/8



Ref. RALK014/8







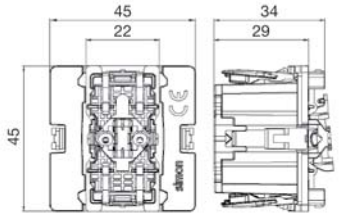
Measurements in mm

SINGLE POLE, 16A SWITCHING MECHANISMS

- Product designed according to the Safety Requirements of Directive 2006/5/EC (Low Voltage) through standard UNE-EN-60669.
- CE marked product.
- Electrical specifications: 16AX / 250V~.

Mechanisms

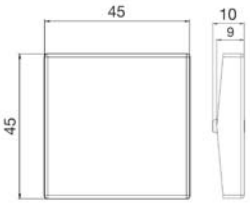
Ref. K301 Ref. K302 Ref. K303 Ref. K304



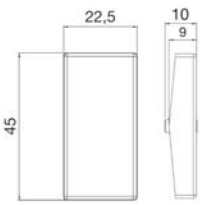
Connection schematics			
Ref. K301	Ref. K302	Ref. K303	Ref. K304

Buttons

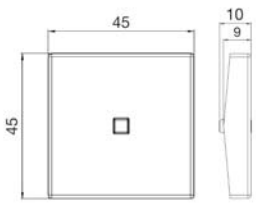
Ref. K110/..



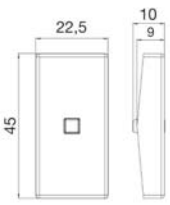
Ref. K109/..



Ref. K112/.. Ref. K114/..



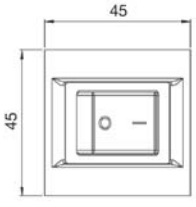
Ref. K113/.. Ref. K115/..

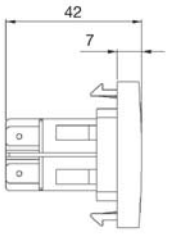


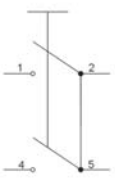
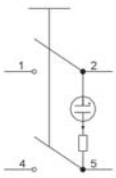
16A BIPOLAR SWITCHES

- Product designed according to the Safety Requirements of Directive 2006/5/EC (Low Voltage) through standard UNE-EN-60669.
- CE marked product.
- Electrical specifications: 16AX / 250V~.

Ref. K125A/.. Ref. KL04/..





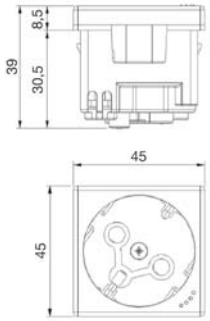
Connection schematics	
Ref. K125A	Ref. KL04
	

Measurements in mm

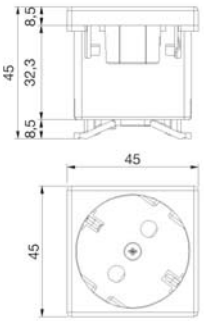
K45 ELECTRICAL SOCKETS

- Product designed according to Spanish standard UNE-20.315 (Schuko sockets) or NF C 61-303 (French sockets).
- Electrical specification: 16A / 250V~.
- IP protection level: 20.

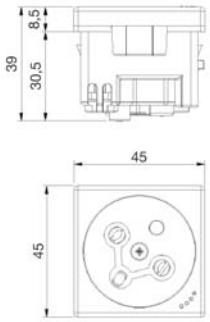
Ref. K02/.. - K01/.. - KL02/.. - KL01/..



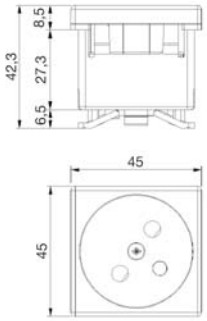
Ref. K11/.. - KS11/..



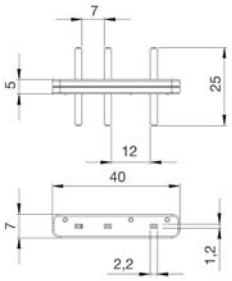
Ref. KLS02/.. - KLS01/..



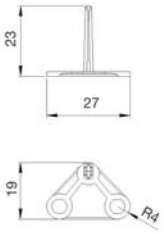
Ref. K22/.. - KS22/..



Ref. AC11

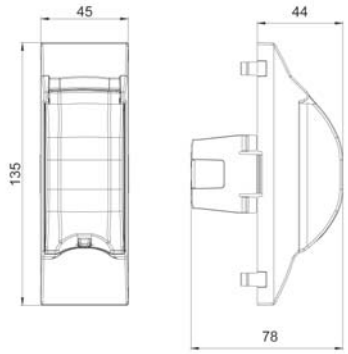


Ref. AC33

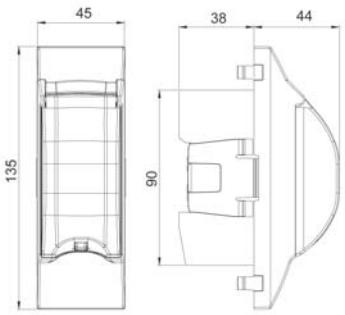


K45 PROTECTION ELEMENTS

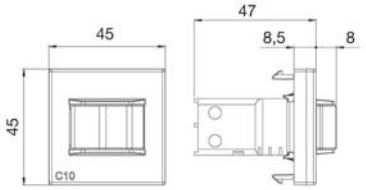
Ref. KF03/..



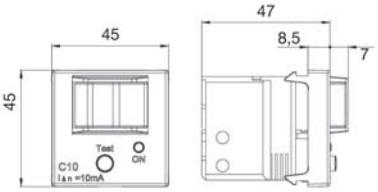
Ref. KF04x/..



Ref. K106A/..



Ref. K107A/..

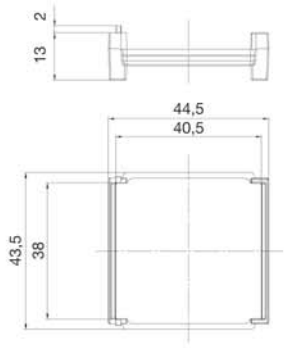


Measurements in mm

K45 VOICE AND DATA PLATES

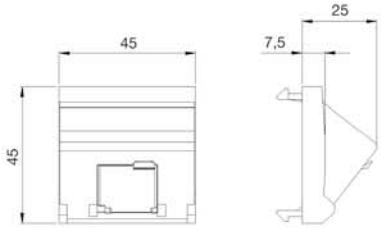
Positioner 90º

Ref. K66

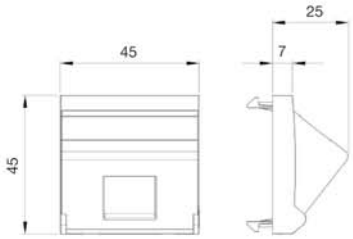


Angled plates

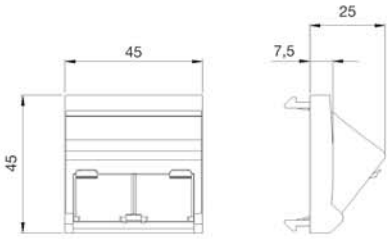
Ref. K80XX/..



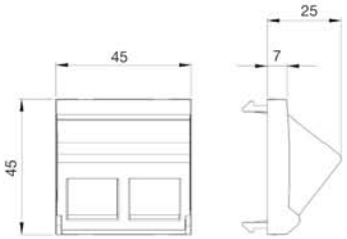
Ref. K080XX/..



Ref. KB80XX/..

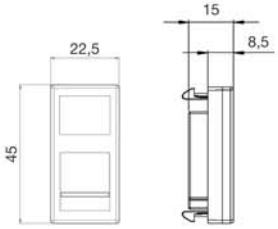


Ref. KB080XX/..

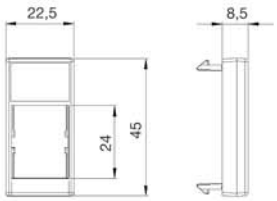


Flat plates

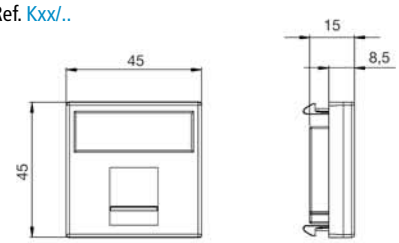
Ref. KAxx/..



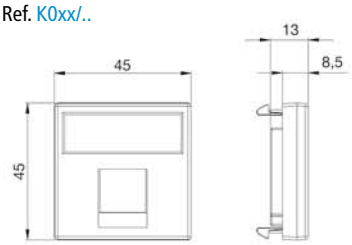
Ref. K281/..



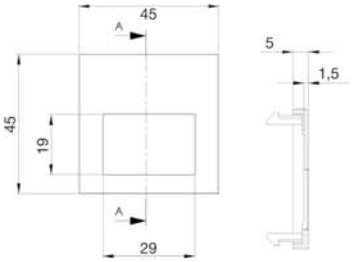
Ref. Kxx/..



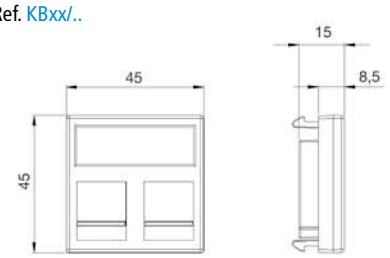
Ref. K0xx/..



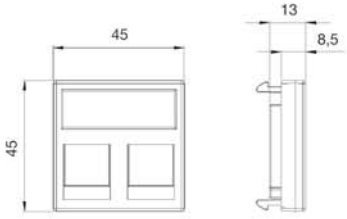
Ref. KB72/..



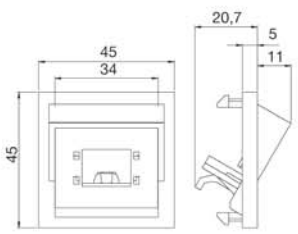
Ref. KBxx/..



Ref. KB0xx/..



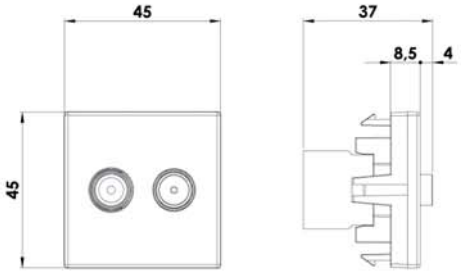
Ref. K054/..



Measurements in mm

K45 TV AND SAT PLATES

Ref. K130A/..



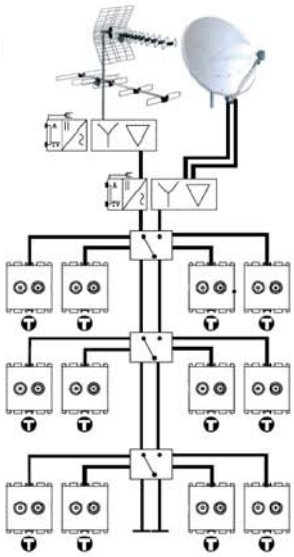
Single 5-2400 MHz direct TV-SAT socket, made up of:
- One IEC male TV connector, Ø 9.5 mm
- One type-F female SAT connector

Technical specifications:
- Tapping attenuation = 2 dB
- Maximum through current = 24 V, 500 mA (*)
- Accepted cable diameter = 4 ÷ 7 mm
- Operating temperature range = 10 ÷ 55 °C
- According to general standard EN 50083-4
- Male connector according to IEC 61169-2
- Female connector according to IEC 61169-24

(*) Direct current and control signals (max. 24 V 500 mA) are only allowed through the F female connec7

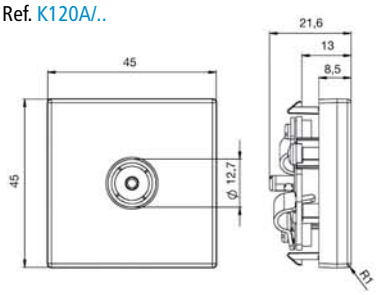
Example of TV-SAT installation on one branch

Single socket

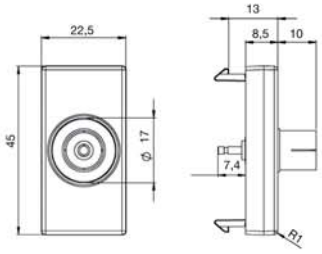


Insertion loss		Tapping loss	
TV	SAT	TV	SAT
47÷862 MHz	950÷2400 MHz	47÷862 MHz	950÷2400 MHz
-	-	= 2	= 2

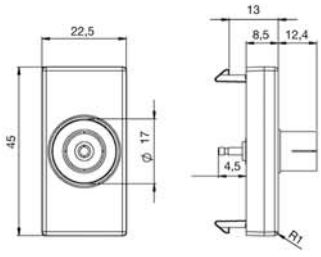
Ref. K120A/..



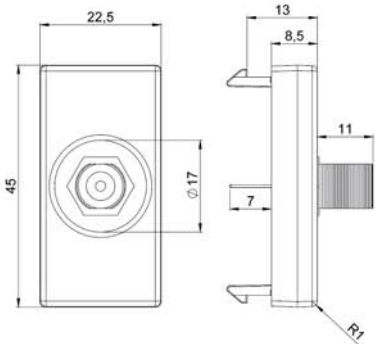
Ref. K120B/..



Ref. K120C/..



Ref. K102C/..

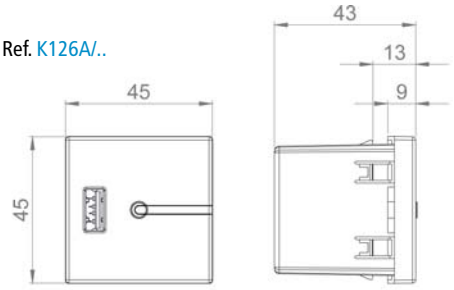


Measurements in mm

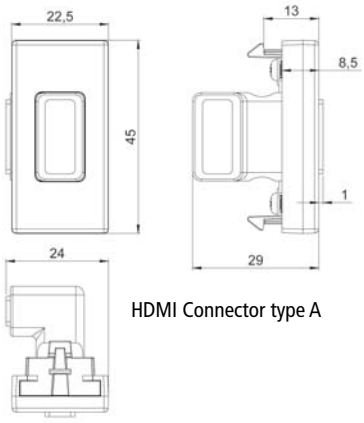
K45 MULTIMEDIA PLATES

Multimedia. Screw connection

Ref. K126A/..

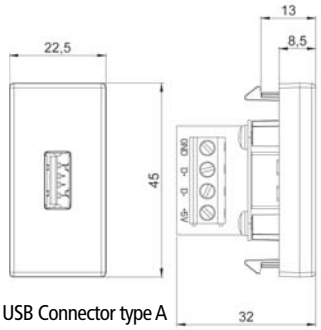


Input: V = 230 VAC ± 20% 47 ÷ 63 Hz
Output: V = 5 VDC ± 10% I = 2 A
External DC connection: 1 USB-A female port

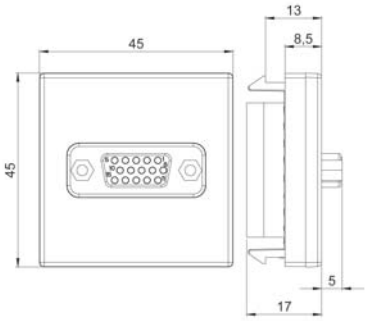


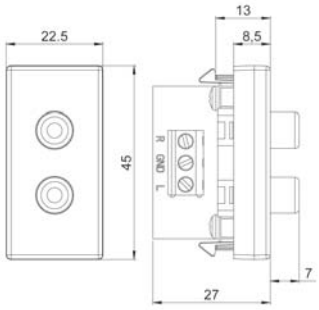
HDMI Connector type A

Ref. K100B/..

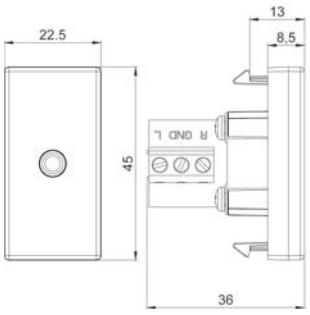


USB Connector type A

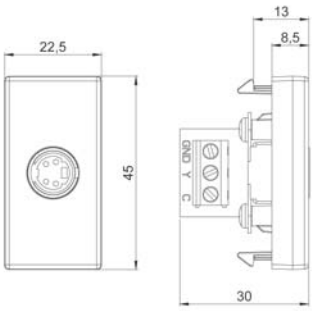


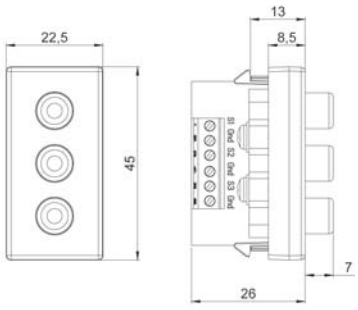


Ref. K103B/..



Ref. K105B/..



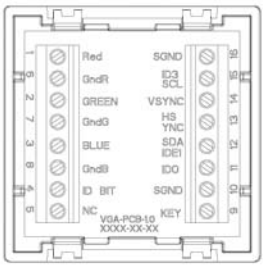


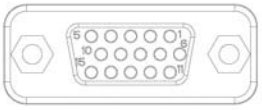
Measurements in mm

K45 MULTIMEDIA PLATES

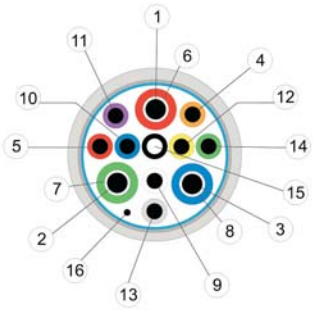
Multimedia connectors supplementary information. Screw connection

VGA Ref. K100B/..



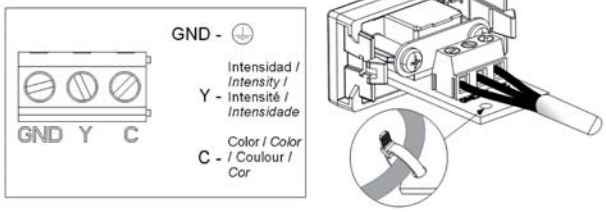


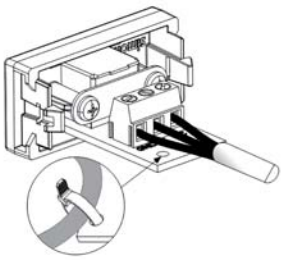
Pin N	Plate engraving	Description
1	Red	Red Coax
2	Green	Green Coax
3	Blue	Blue Coax
4	IDB2	ID Bit 2
5	Gnd	Gnd (HSYNC)
6	GndR	Gnd Red
7	GndG	Gnd Green
8	GndB	Gnd Blue
9	Key	Key (N/C)
10	SGnd	Gnd (VSYNC)
11	IDB0	ID Bit 0 (Gnd)
12	IDB1	ID Bit 1 (SDA)
13	HSYNC	HSYNC
14	VSYNC	VSYNC
15	IDB3	ID Bit 3 (SCL)
16	SGnd	⏚



Supplementary information

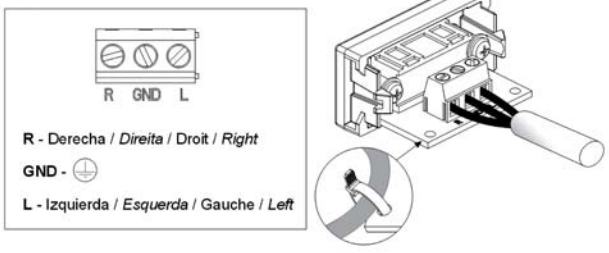
SVIDEO Ref. K103B/..

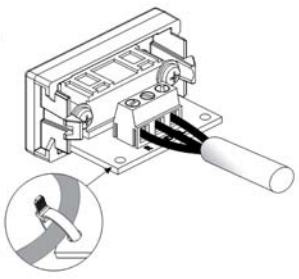




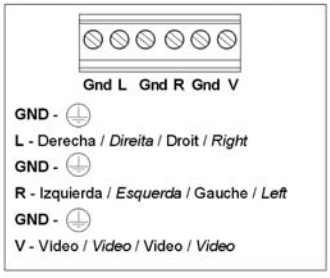
RCA

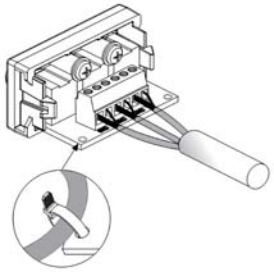
2 RCA Ref. K101B/..



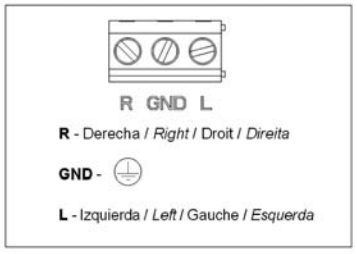


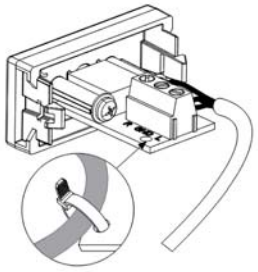
3 RCA Ref. K105B/..



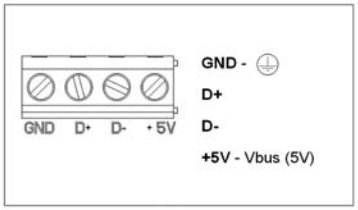


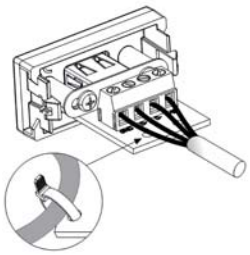
MINI JACK Ref. K123B/..



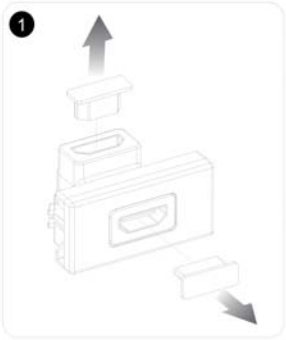


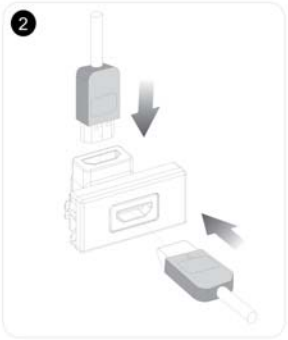
USB Ref. K128B/..





HDMI Ref. K129B/..



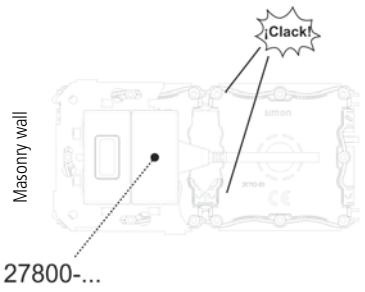


Measurements in mm

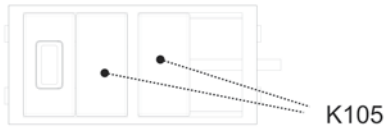
K45 MULTIMEDIA PLATES

Installation examples HDMI Ref. K129B/..

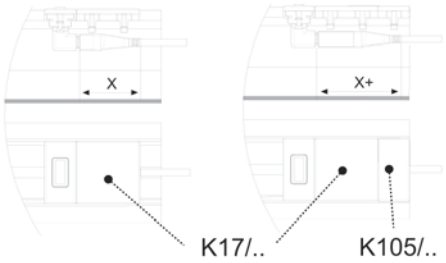
Simon 27



CIMA

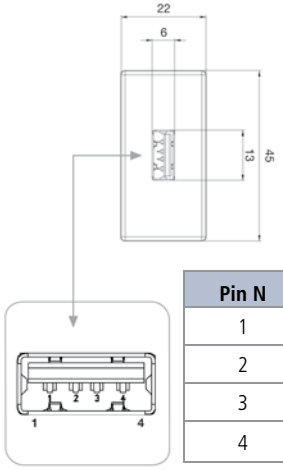


K45



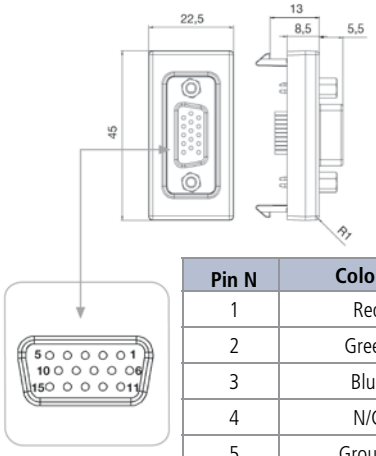
Multimedia. Soldered connection

Ref. K128A/..



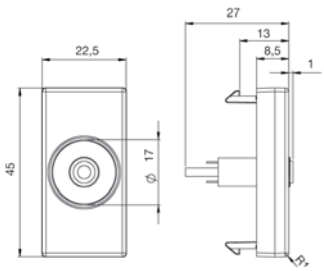
Pin N	Name	Colour	Description
1	Vcc	Red	+5v
2	D-	White	Data
3	D+	Green	Data+
4	GND	Black	⏚

Ref. K100A/..



Pin N	Colour	Description
1	Red	Red video
2	Green	Green video
3	Blue	Blue video
4	N/C	Not connected
5	Ground	Ground
6	RTN/Red	Red return
7	Green return	Green return
8	Blue return	Blue return
9	+5 V	+5 V (DDC)
10	Ground	Ground (VSync, DDC)
11	N/C	Not connected
12	SDA	I2C data
13	HSync	Horizontal sync
14	VSync	Vertical sync
15	SCL	I2C clock

Ref. K123A/..

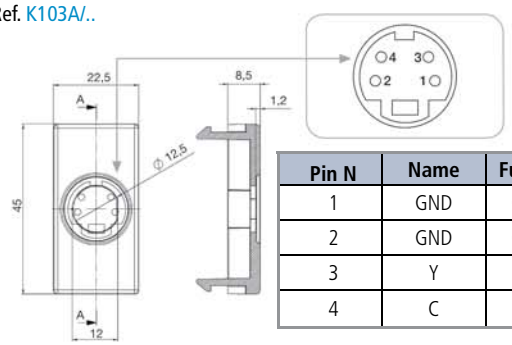


On stereo jacks	
TIP	Left channel (L)
RING	Right channel (R)
SOCKET	Ground (GND)

Measurements in mm

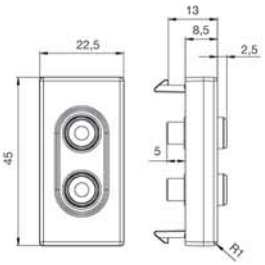
K45 MULTIMEDIA PLATES

Ref. K103A/..

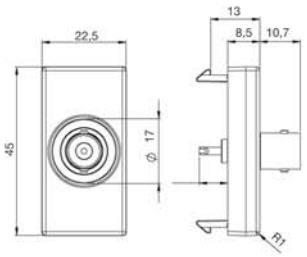


Pin N	Name	Function
1	GND	Ground
2	GND	Ground
3	Y	Current
4	C	Colour

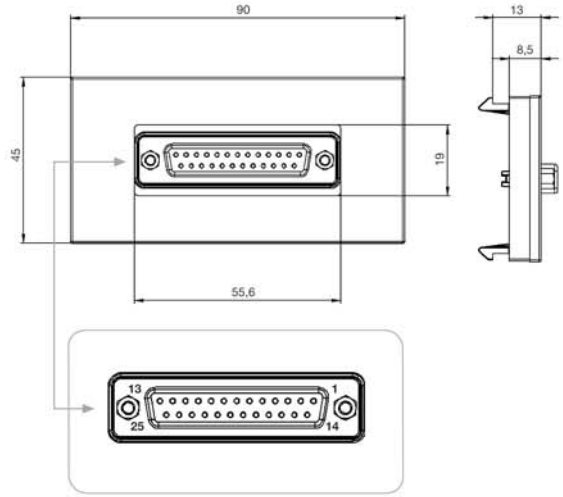
Ref. K101A/..



Ref. K102D/..



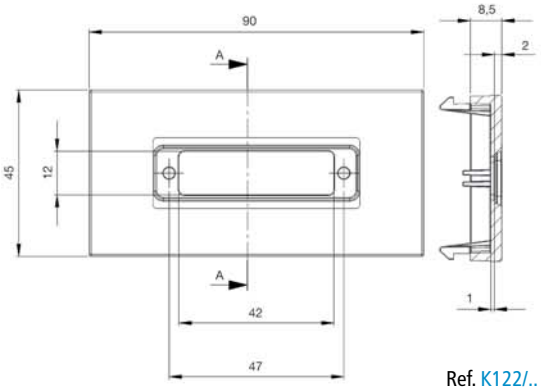
Ref. K104A/..



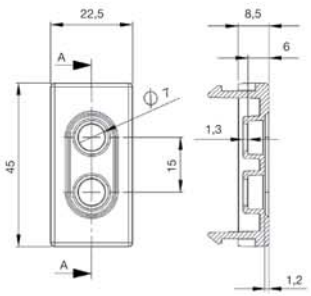
K45 MULTIMEDIA PLATES

Multimedia. No connectors

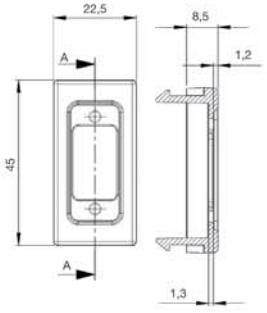
Ref. K104/..



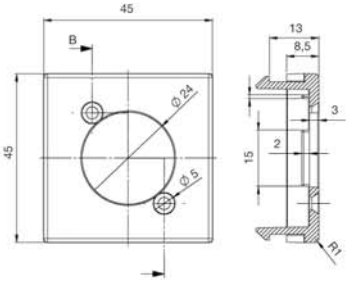
Ref. K101/..



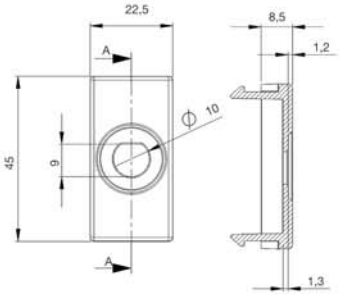
Ref. K100/..



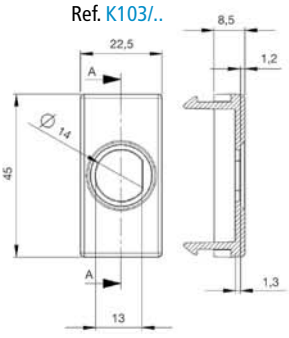
Ref. K122/..



Ref. K102/..



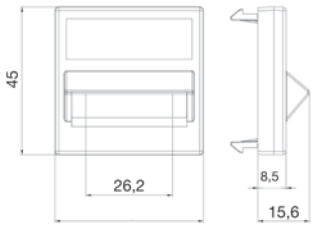
Ref. K103/..



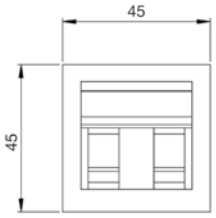
Measurements in mm

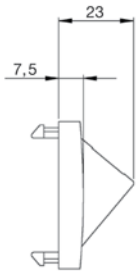
K45 PLATES FOR FIBER OPTIC

Ref. K74/..

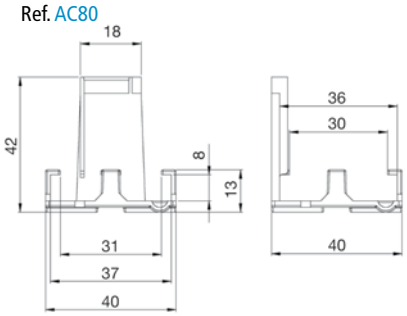


Ref. KB74/..

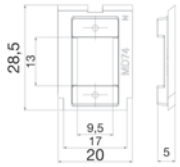




Ref. AC80

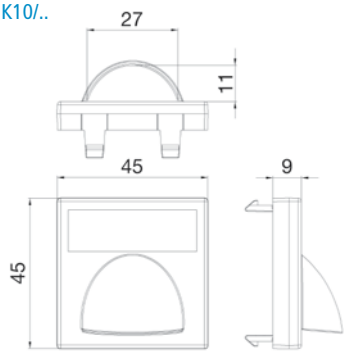


Ref. MD74



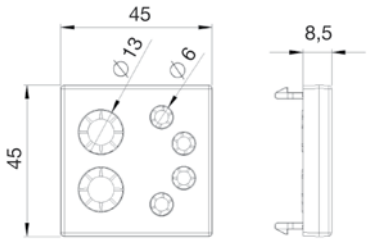
K45 CABLE OUTPUT PLATES

Ref. K10/..

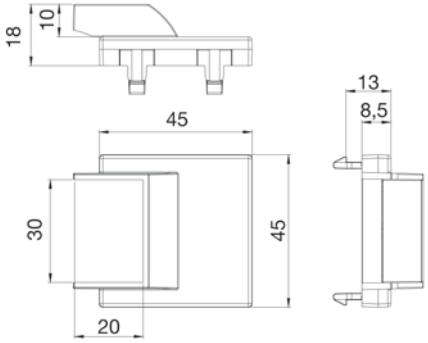


Cable cross-section: 2005 mm²

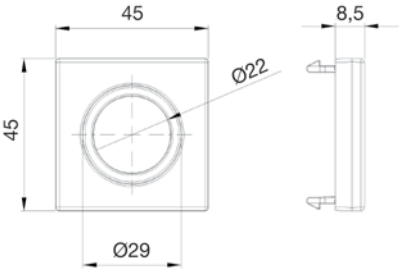
Ref. K20/..



Ref. K21/..



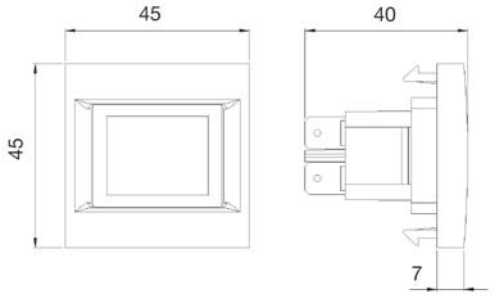
Ref. K19/..



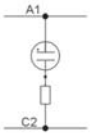
Measurements in mm

K45 SIGNALLING AND BEACONING PLATES

Ref. KL05/..

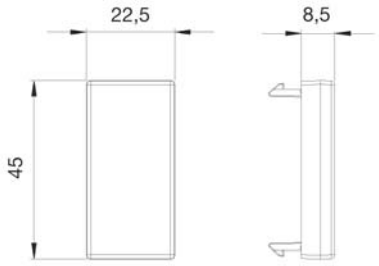


Connection schematics
Ref. KL05/..

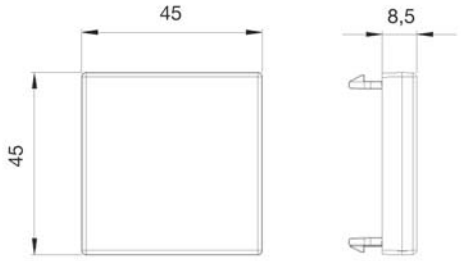


K45 BLIND PLATES

Ref. K105/..



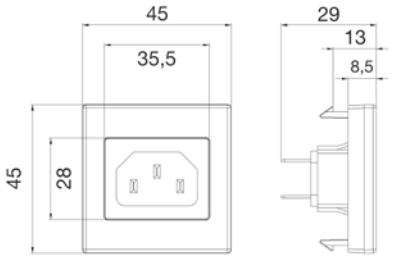
Ref. K17/..



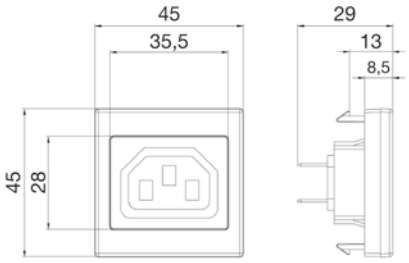
Measurements in mm

K45 QUICK CONNECTION PLATES

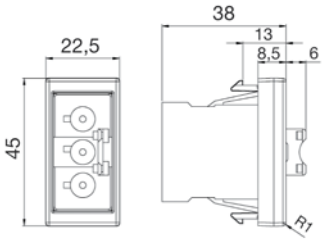
Ref. K305A/..



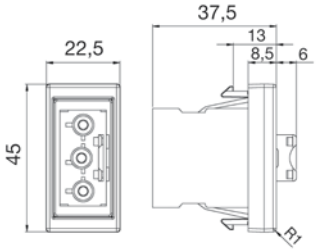
Ref. K306A/..



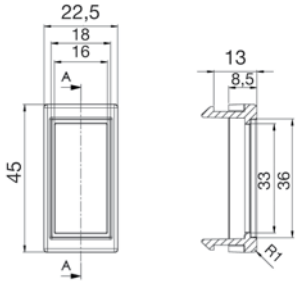
Ref. K101A/..



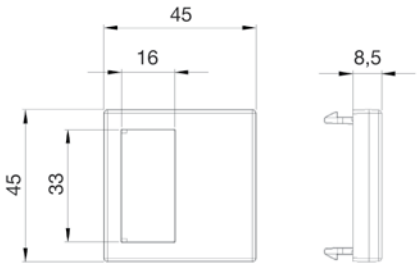
Ref. K121B/..



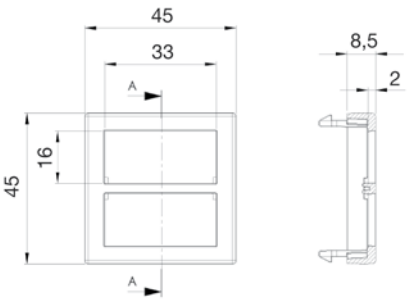
Ref. K121/..



Ref. K18/..

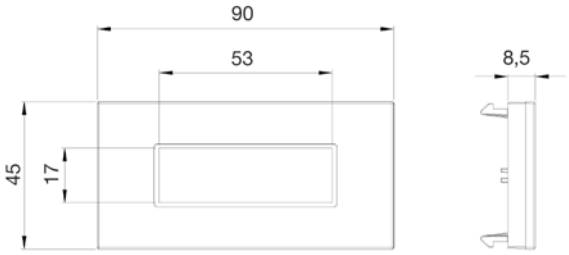


Ref. KB18/..



- For connectors with clips that are 1.5 to 2 mm thick.

Ref. K18W5/..

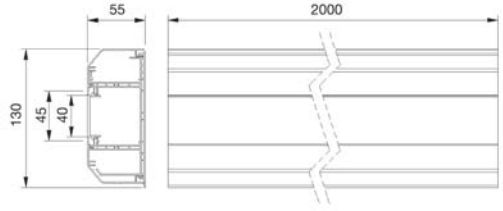


Measurements in mm

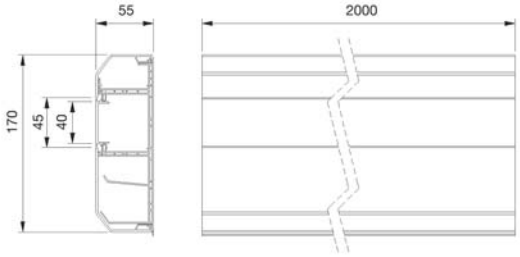
PVC AND ALUMINIUM K45 TRUNKING

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- CE marked product.
- IP protection level: 4x.
- Manufactured using thermoplastic and/or anodised aluminium material, which guarantees the non-propagation of flames in the event of a fire.

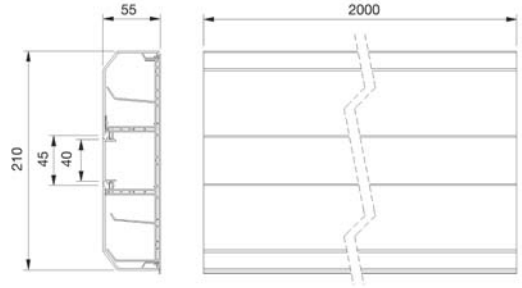
Ref. TK01103/8 - TK02103/9 **130x55**



Ref. TK01133/8 - TK02133/9 **170x55**

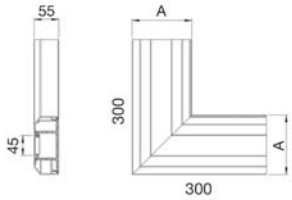


Ref. TK01163/8 - TK02163/9 **210x55**



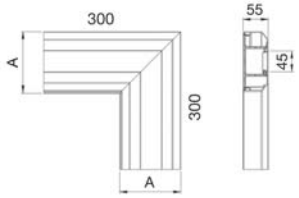
K45 PVC AND ALUMINIUM CABLOMAX ACCESSORIES

Upward flat angle piece



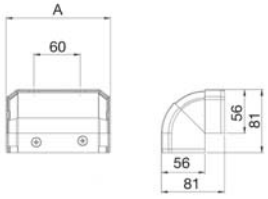
Trunking	A
130x55	134
170x55	174
210x55	213

Downward flat angle piece



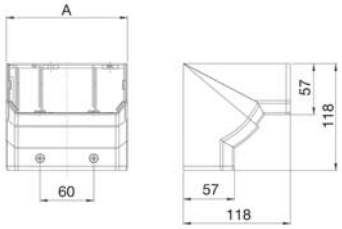
Trunking	A
130x55	134
170x55	174
210x55	213

External angle piece



Trunking	A
130x55	134
170x55	173
210x55	214

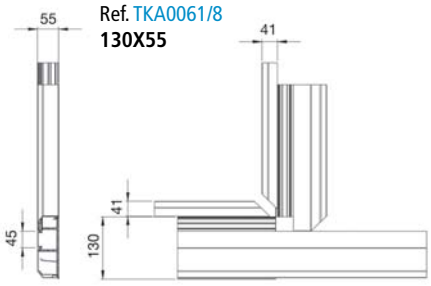
Internal angle piece



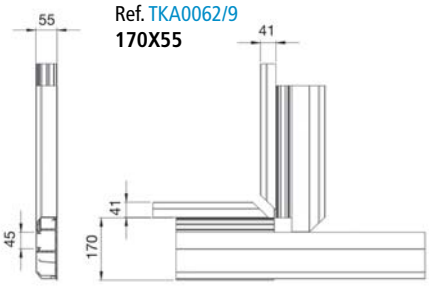
Trunking	A
130x55	134
170x55	174
210x55	214

T junction

Ref. TKA0061/8
130X55



Ref. TKA0062/9
170X55



End cover

Trunking	A
130x55	134
170x55	174
210x55	214

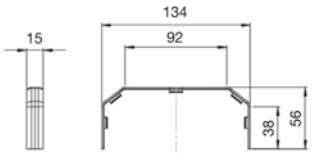
Measurements in mm

PVC AND ALUMINIUM K45 TRUNKING

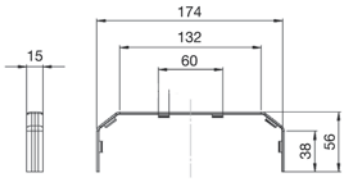
PVC AND ALUMINIUM CABLOMAX ACCESSORIES

Sealing ring

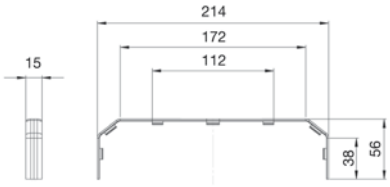
Ref. TKA005210/.. **130x55**



Ref. TKA005213/.. **170x55**



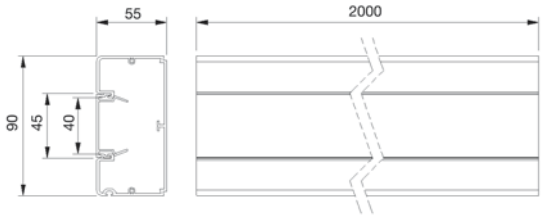
Ref. TKA005216/.. **210x55**



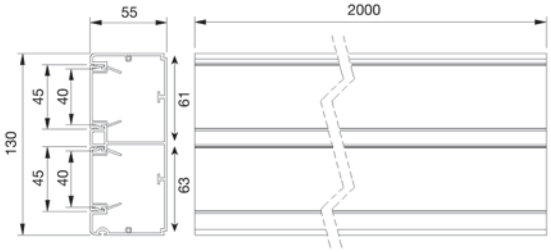
PVC K45 TRUNKING

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- CE marked product.
- IP protection level: 4x.
- Resistance level: IK07, medium.
- Manufactured out of thermoplastic material, which guarantees the non-propagation of flames in the event of a fire.

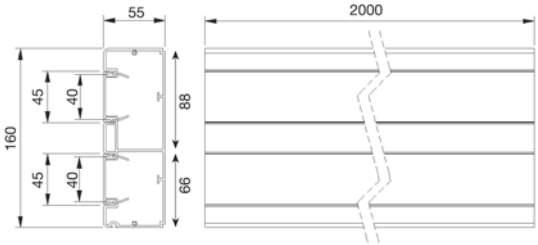
Ref. TK12081/9 **90x55**



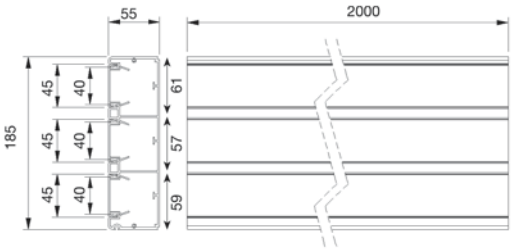
Ref. TK12102/9 **130x55**



Ref. TK12122/9 **160x55**



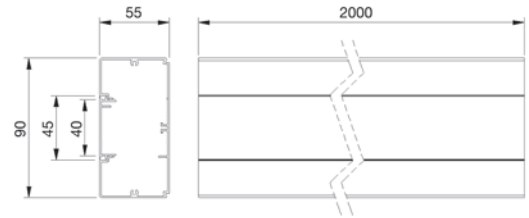
Ref. TK12143/9 **185x55**



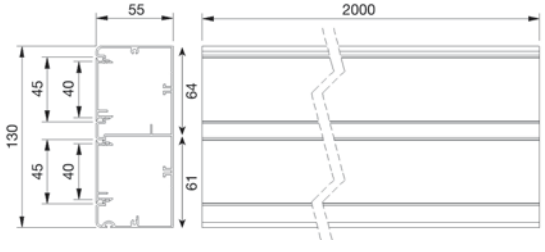
ALUMINIUM K45 TRUNKING

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- CE marked product.
- IP protection level: 4x.
- Sections made from anodised aluminium with painted aluminium accessories.

Ref. TK11081/8 **90x55** compartment



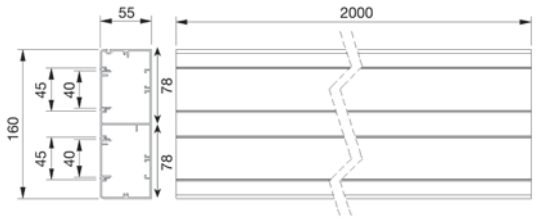
Ref. TK11102/8 **130x55** compartments



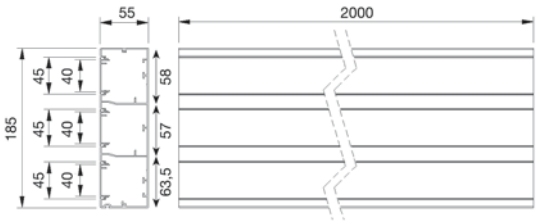
Measurements in mm

ALUMINIUM K45 TRUNKING

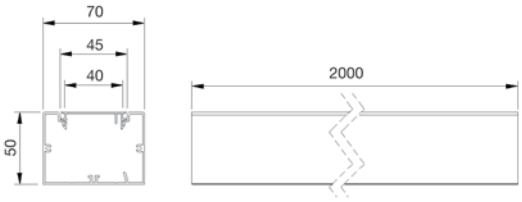
Ref. TK11122/8 **160x55** 2 compartments



Ref. TK11143/8 **185x55** 3 compartments

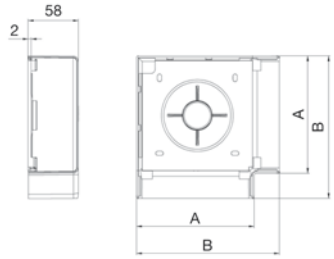


Ref. TK11071/8 **70x50** 1 compartment



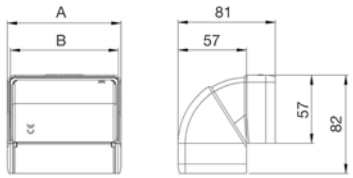
K45 PVC AND ALUMINIUM COMMON ACCESSORIES

Flat angle piece



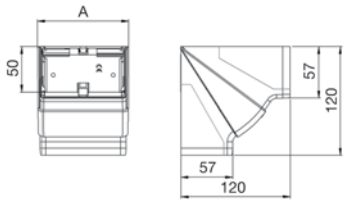
Trunking model	A	B
90x55	95	123
130x55	134	163
160x55	164	195
185x55	190	219

External angle piece



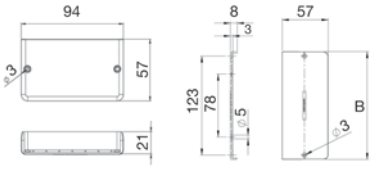
Trunking model	A	B
90x55	95	90
130x55	136	130
160x55	164	160
185x55	187	185

Internal angle piece



Trunking model	A
90x55	94
130x55	134
160x55	168
185x55	189

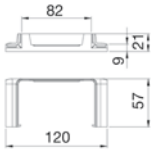
End cover



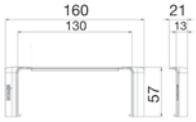
Trunking model	B
90x55	94
130x55	134
160x55	163
185x55	188

T junction

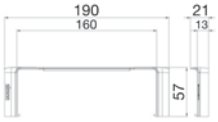
Ref. TKA106208/.. **to 90x55**



Ref. TKA106210/.. **at 130x55**

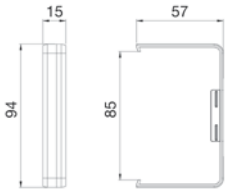


Ref. TKA106212/.. **at 160x55**

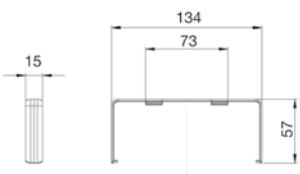


Sealing ring

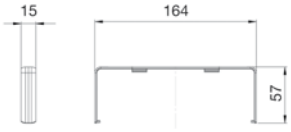
Ref. TKA105208/.. **90x55**



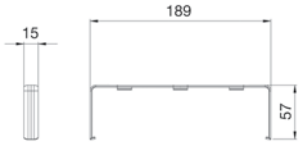
Ref. TKA1305508/.. **130x55**



Ref. TKA105212/.. **160x55**



Ref. TKA105214/.. **185x55**



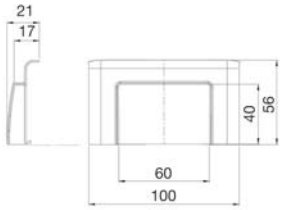
Measurements in mm

ALUMINIUM K45 TRUNKING

K45 PVC AND ALUMINIUM COMMON ACCESSORIES

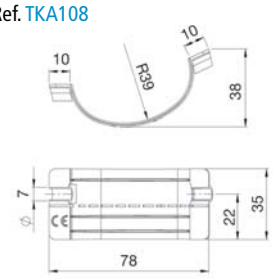
Branch to Mini-trunking

Ref. TKA107/9



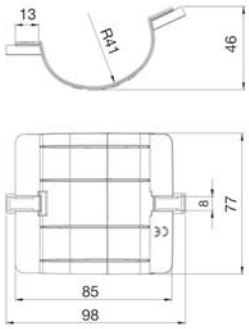
Flat radius of curvature

Ref. TKA108



Outer radius of curvature

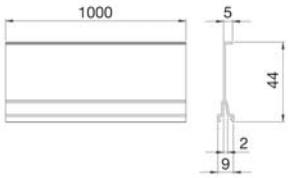
Ref. TKA109



FUNCTIONAL ACCESSORIES

PVC inner divider (45 mm)

Ref. TKA902

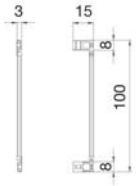


Section connecting pin

Ref. TKA903

Cable with faston connector for 120 mm earth connection

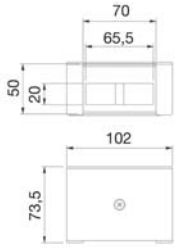
Ref. TKA904



ACCESSORIES FOR 70X50 STAINLESS-STEEL TRUNKING

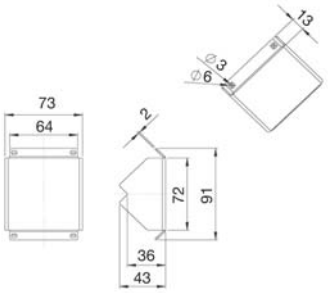
Flat angle piece and branch

Ref. TKA101307/8



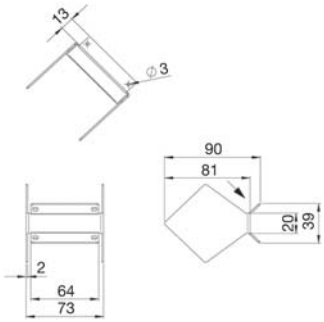
Fixed external angle piece

Ref. TKA102307/8



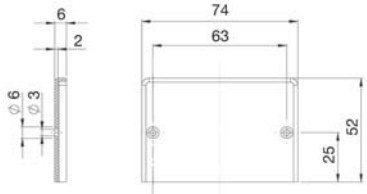
Fixed internal angle piece

Ref. TKA103307/8



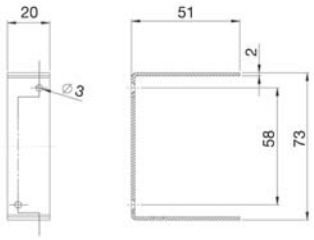
End cover

Ref. TKA104307/8
Ref. TKA104207/24



Sealing ring

Ref. TKA105307/8

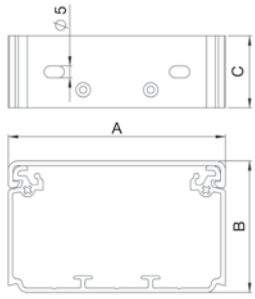


Measurements in mm

PVC CABLE ADAPTER TRUNKING

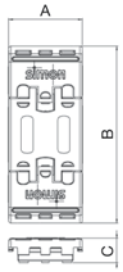
- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- CE marked product.
- IP protection level: 4x.
- Resistance level: IK07, medium.
- Manufactured out of thermoplastic material, which guarantees the non-propagation of flames in the event of a fire.

Cable Adapter Trunking



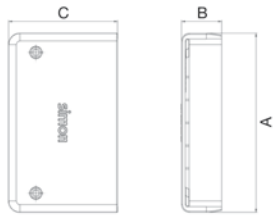
Reference	A	B	C
TS9055/9	90	55	2000
TS13055/9	130	55	2000
TS16055/9	160	55	2000
TS18555/9	185	55	2000

Cable retainer



Reference	A	B	C
TSA905501	30.5	73	10.1
TSA1305501	30.5	113	10.1
TSA1605501	30.5	143	10.1
TSA1855501	30.5	168	10.1

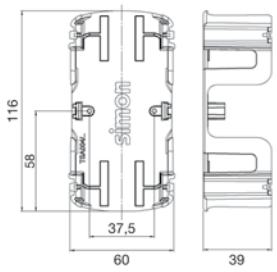
End cover



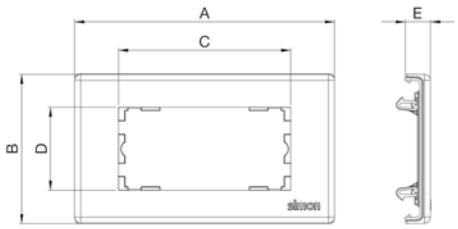
Reference	A	B	C
TSA905502/9	94	21	57
TSA1305502/9	134	21	57
TSA1605502/9	164	21	57
TSA1805502/9	185	21	57

Box for CIMA mechanisms

Ref. TSA004

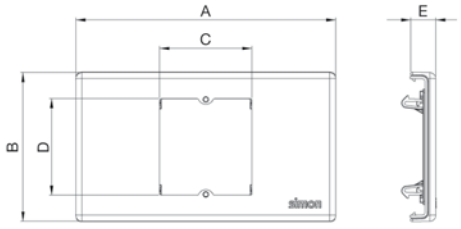


CIMA Mechanisms inner frame + trim



Reference	A	B	C	D	E
TSA905504/9	163.35	93.95	108.3	52.3	16.28
TSA1305504/9	163.35	133.95	108.3	52.3	16.28
TSA1605504/9	163.35	163.95	108.3	52.3	16.28

Universal Mechanisms inner frame + trim



Reference	A	B	C	D	E
TSA905503/9	163.35	163.95	58	61	16.28
TSA1305503/9	163.35	93.95	58	61	16.28
TSA1605503/9	163.35	163.95	58	61	16.28

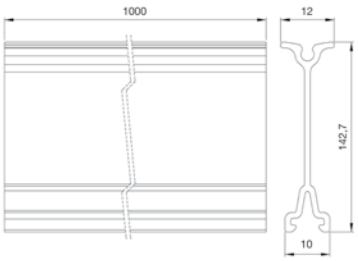
Measurements in mm

PVC CABLE ADAPTER TRUNKING

PVC CABLE ADAPTER TRUNKING ACCESSORIES

Interior divider (55 mm)

Ref. TSA001

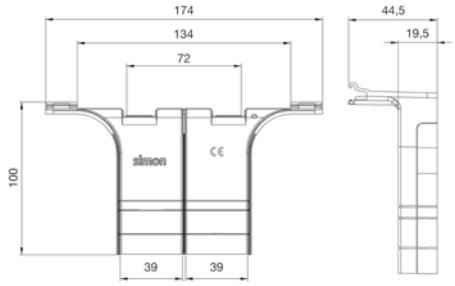


Connector pin

Ref. TSA002

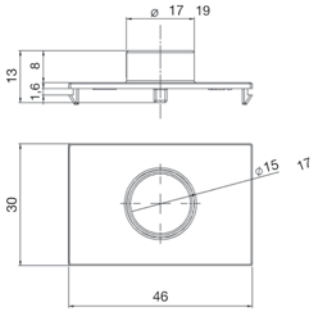
Cable junction

Ref. TSA003



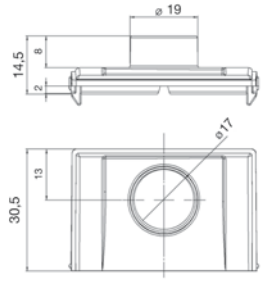
CIMA box adapter

Ref. TSA005/9



CIMA PRO box adapter

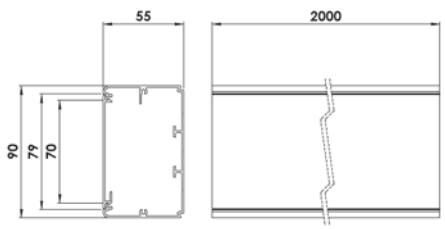
Ref. TSA006/..



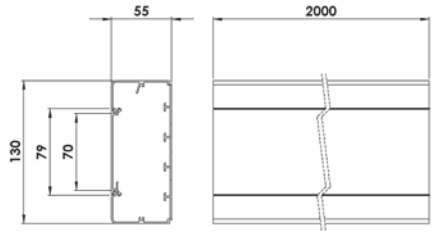
ALUMINIUM CABLE ADAPTER TRUNKING

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- CE marked product.
- IP protection level: 4x.
- Resistance level: IK07, medium.
- Sections made from anodised aluminium with painted aluminium accessories.

Ref. TS9055/8 **90x55**



Ref. TS13055/8 **130x55**

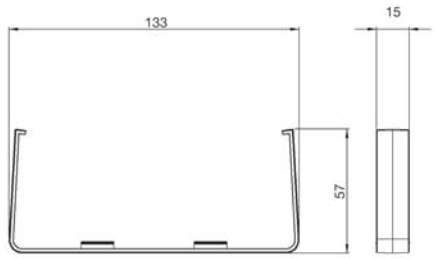


Measurements in mm

ALUMINIUM CABLE ADAPTER TRUNKING

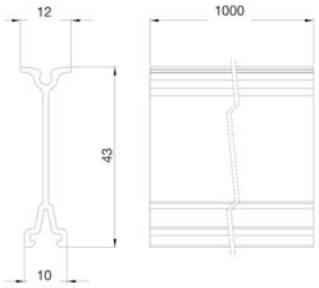
Sealing ring

Ref. TKA1305508/8



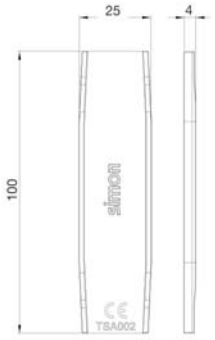
Internal divider

Ref. TSA001



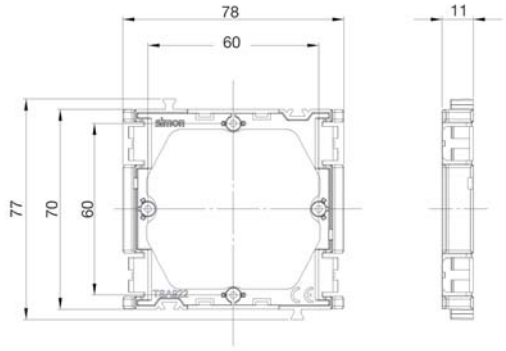
Connector pin

Ref. TSA002



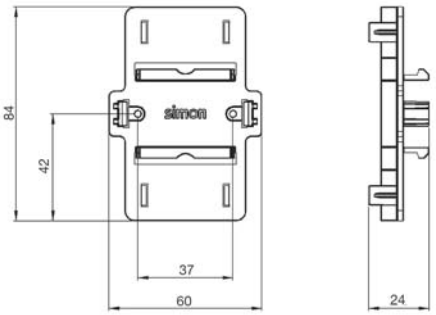
Universal mechanism adapter

Ref. TSA007



Adapter for Schuko CIMA format and protection mechanisms

Ref. TSA008

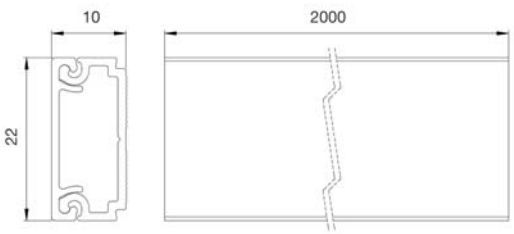


See other accessories on page 103

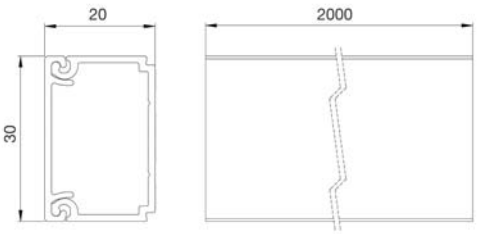
PVC MINI-TRUNKING

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- CE marked product.
- IP protection level: 4x.
- Manufactured out of thermoplastic material, which guarantees the non-propagation of flames in the event of a fire.

Ref. TM12011/9 **10x22** 1 compartment
Ref. TM120112/9



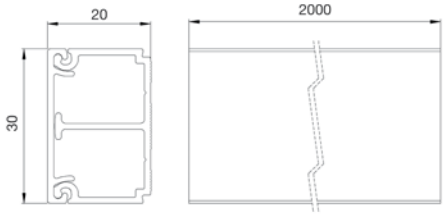
Ref. TM12021/9 **20x30** 1 compartment



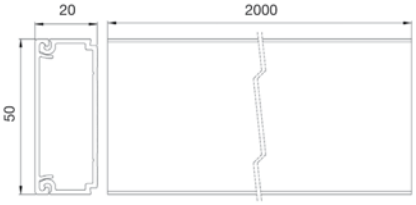
Measurements in mm

PVC MINI-TRUNKING

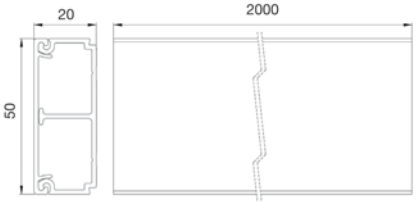
Ref. TM12022/9 **20x30** 2 compartments



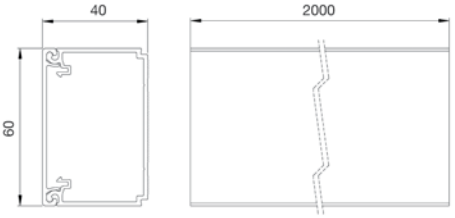
Ref. TM12031/9 **20x50** 1 compartment



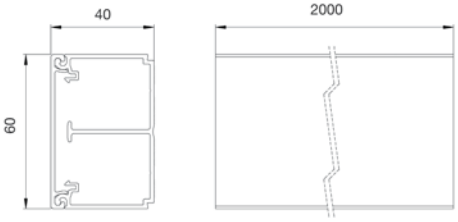
Ref. TM12032/9 **20x50** 2 compartments



Ref. TM12051/9 **40x60** 1 compartment

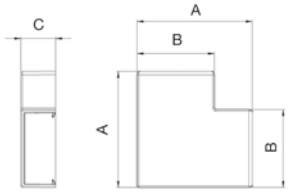


Ref. TM12052/9 **40x60** 2 compartments



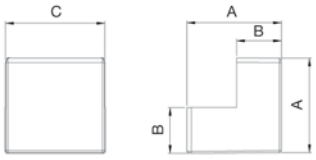
PVC MINI-TRUNKING ACCESSORIES

Flat angle piece



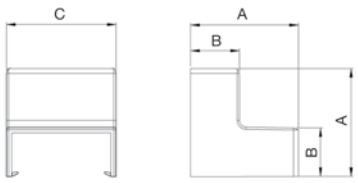
Mini-trunking	A	B	C
10x22	36	24	11
20x30	47	33	21
20x50	76	54	21
40x60	90	64	42

External angle piece



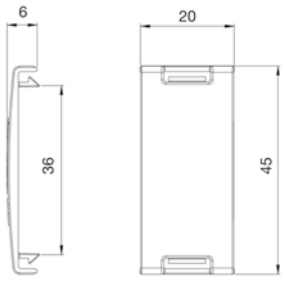
Mini-trunking	A	B	C
10x22	23	11	24
20x30	35	21	33
20x50	40	21	53
40x60	68	42	64

Internal angle piece

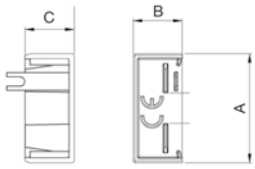


Mini-trunking	A	B	C
10x22	24	11	24
20x30	35	21	33
20x50	47	21	54
40x60	67	42	64

Cable retainer

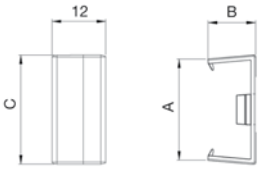


End cover



Mini-trunking	A	B	C
10x22	24	11	11
20x30	32	21	12
20x50	53	21	11
40x60	64	42	14

Sealing ring



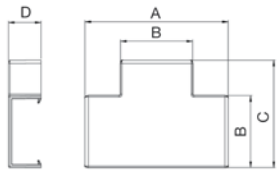
Mini-trunking	A	B	C
10x22	23	11	24
20x30	29	21	33
20x50	50	21	53
40x60	57	41	64

Measurements in mm

PVC MINI-TRUNKING

PVC MINI-TRUNKING ACCESSORIES

T junction

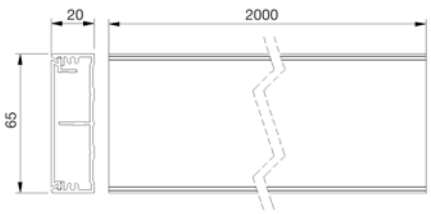


Mini-trunking	A	B	C	D
10x22	48	24	36	11
20x30	61	33	47	21
20x50	98	54	53	21
40x60	116	64	90	42

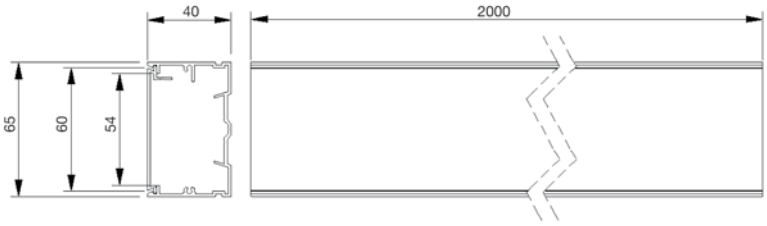
ALUMINIUM MINI-TRUNKING

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- CE marked product.
- IP protection level: 4x.
- Resistance level: IK07, medium.
- Sections made from anodised aluminium with painted aluminium accessories.

Ref. TM21042/8 **65x20** 2 compartments



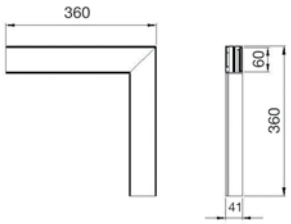
Ref. TM21061/8 **65x40** 1 compartment



ALUMINIUM MINI-TRUNKING ACCESSORIES

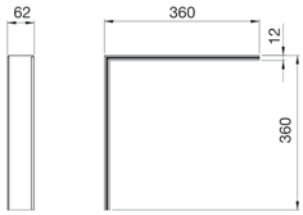
Flat angle piece

Ref. TMA201106/8

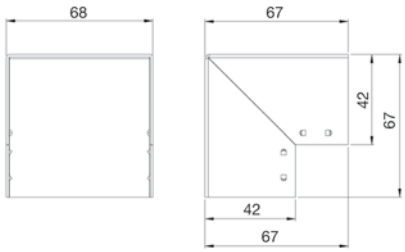


External angle piece

Ref. TMA202104/8 **65x20**

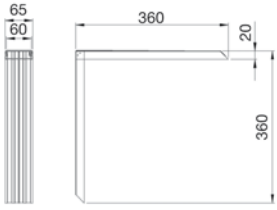


Ref. TMA202406/24 **65x40**

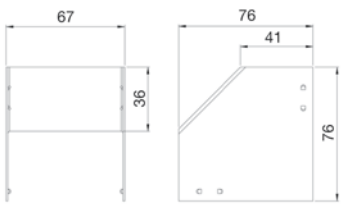


90° internal angle piece

Ref. TMA203104/8 **65x20**

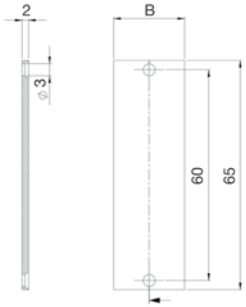


Ref. TMA203406/24 **65x40**



End cover

Ref. TMA204404/8
Ref. TMA204106/8



Reference	B
TMA204404	20
TMA204106	40

Measurements in mm

AUMINIUM MINI-TRUNKING

ALUMINIUM MINI-TRUNKING ACCESSORIES

Plate for Electrobanda French socket

Ref. TMA07/8

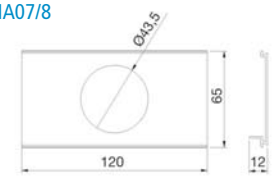
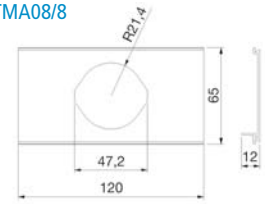


Plate for Electrobanda Schuko socket

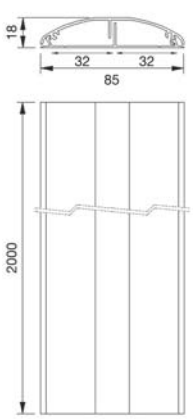
Ref. TMA08/8



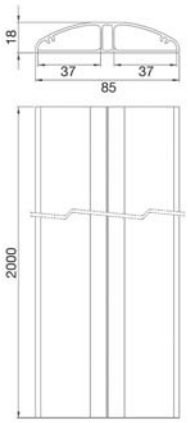
DCS SYSTEM

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through standard UNE-EN-50.085.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- CE marked product.
- IP protection level: 4x.
- Manufactured in Anodised Aluminium.

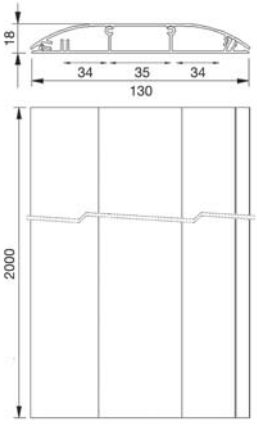
Ref. TF11172/8
85x18



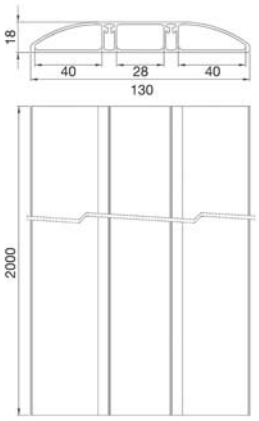
Ref. TF21172/8
85x18



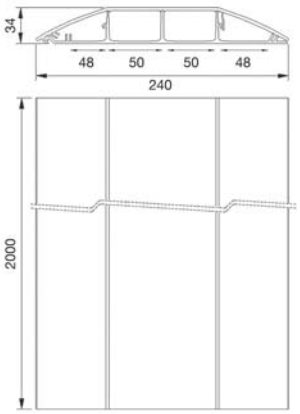
Ref. TF11183/8
130x18



Ref. TF21183/8
130x18



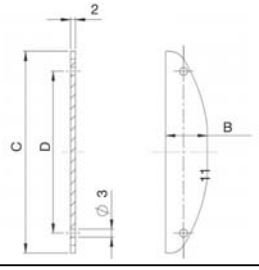
Ref. TF11193/8
240x18



Reference	Load per unit of maximum area (kg/cm²)	IK
TF11172/8	45	IK08
TF21172/8	65	IK10
TF11183/8	55	IK07
TF21183/8	75	IK08
TF11193/8	100	IK10

DCS SYSTEM ACCESSORIES

End cover



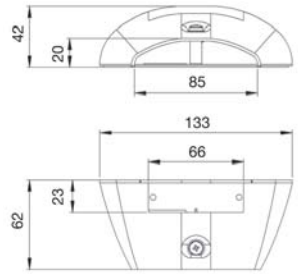
Trunking	B	C	D
85x18	18	85	68
130x18	18	128	37
240x34	34	219	109

Measurements in mm

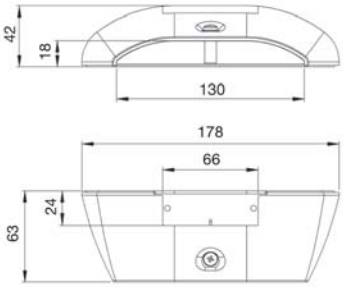
DCS SYSTEM

JUNCTION TO PERIMETER TRUNKING

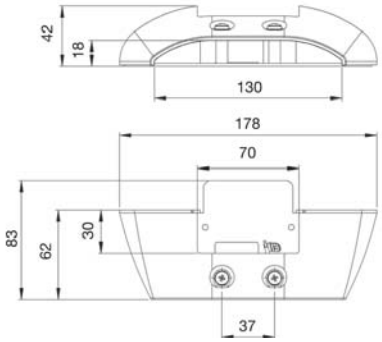
Ref. TFA965417/8



Ref. TFA965418/8

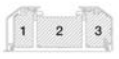
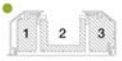
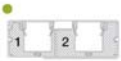
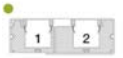


Ref. TFA970418/8

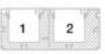
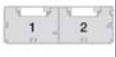
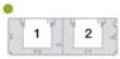
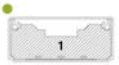


Measurements in mm

GUIDE FOR DETERMINING THE NECESSARY CROSS SECTION OF THE TRUNKING

	Ref.	Trunking external size	Usable area schematic	Usable area per compartment/total (mm²) Comp.1	Comp.2	Comp.3
CABLOMAX PVC K45	TK02103/9	130x55		977	2066	1227
				977	877.5	1227
	TK02133/9	170x55		1235.5	2062	2728.5
				1235.5	880	2728.5
	TK02163/9	210x55		3000	2055	2735
				3000	939	2735
K45 aluminium CABLOMAX	TK01103/8	130x55		960	2064	1234
				960	881	1234
	TK01133/8	170x55		1238	2060	2702
				1238	808	2702
	TK01163/8	210x55		2995.5	2059	2691
				2995.5	879	2691
K45 PVC trunking	TK12081/9	90x55		3290	-	-
				2430	-	-
	TK12102/9	130x55		2124	1952	-
				1250	1077	-
	TK12122/9	160x55		2205.7	3227.7	-
				1350.9	2374.3	-
	TK12143/9	185x55		1900	1811	1928
				1070.5	977.7	1089.5

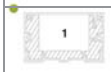
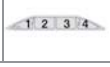
● With divider
● With mechanisms

	Ref.	Trunking external size	Usable area schematic	Usable area per compartment/total (mm²) Comp.1	Comp.2	Comp.3	Comp.4
K45 aluminium trunking	TK11081/8	90x55		3792.2	-	-	-
				2613.4	-	-	-
	TK11102/8	130x55		2452.4	2569.7	-	-
				2150.7	1388.2	-	-
	TK11122/8	160x55		3314	3739	-	-
				2079	2050	-	-
	TK11143/8	185x55		2519.7	2270.6	2282.4	-
				1343.9	1094.5	1112.1	-
	TK11071/8	70x50		2470.2	-	-	-
				1288.3	-	-	-
PVC cable adapter trunking	TS9055/9	90x55		3382	-	-	-
				1009	1062	1025	-
				2637	-	-	-
				1600	-	-	-
	TS13055/9	130x55		5223	-	-	-
				1280	986	988	1278
				4447	-	-	-
				1148	1148	-	-
	TS16055/9	160x55		6689	-	-	-
				2020	1001	1002	2021
				5220.7	-	-	-
				1842	1842	-	-

Measurements in mm

GUIDE FOR DETERMINING THE NECESSARY CROSS SECTION OF THE TRUNKING

	Ref.	Trunking external size	Usable area schematic	Usable area per compartment/total (mm²) Comp. 1	Comp. 2	Comp. 3	Comp. 4	Comp. 5	Comp. 6
Cable adapter trunking	TS18555/9	185x55		7578	-	-	-	-	-
				1317	1003	1003	1003	1003	1317
Aluminium cable adapter trunking	TS9055/8	90x55		3768.5	-	-	-	-	-
				1238	1108	1214	-	-	-
				734	758	-	-	-	-
	TS13055/8	130x55		5590	-	-	-	-	-
				929	961	961	961	906	-
				1695	1713	-	-	-	-
PVC Mini-trunking	TM1022/9	10x22		105	-	-	-	-	-
	TM1022A/9	20x30		390	-	-	-	-	-
	TM12022/9	20x30		184.3	184.3	-	-	-	-
	TM12031/9	20x50		570	-	-	-	-	-
	TM12032/9	20x50		263	263	-	-	-	-
	TM12051/9	40x60		1721	-	-	-	-	-
	TM12052/9	40x60		832	832	-	-	-	-

	Ref.	Trunking external size	Usable area schematic	Usable area per compartment/total (mm²) Comp. 1	Comp. 2	Comp. 3	Comp. 4	Comp. 5
Aluminium mini-trunking	TM21042/8	65x20		410.5	371.5	-	-	-
	TM21061/8	65x40		1875	-	-	-	-
				748.5	-	-	-	-
DCS Trunking	TF11172/8	85x18		378.5	397.5	-	-	-
	TF21172/8	85x18		396	396	-	-	-
	TF11183/8	130x18		325	443	354	-	-
	TF21183/8	130x18		363	341.5	363	-	-
	TF11193/8	240x34		741.5	1263.5	1263.5	730	-

● With divider
● With mechanisms

Measurements in mm

METHOD FOR CALCULATING THE CABLING CAPACITY IN TRUNKINGS

PRACTICAL CALCULATION EXAMPLE

Requirements:

- Aluminium trunking
- 16 hoses of 3x2.5 mm^2 in one compartment and
- 35 cables Cat. 6 FTP in the other compartment

STEP 1 - WE OBTAIN THE UNIT CROSS SECTION FOR EACH TYPE OF CABLE (SEE CROSS-SECTION TABLE)

Which gives us:

$S_{ci} = \varnothing^2$

$S_{3x2.5} = 110\ mm^2$

$S_{Cat6FTP} = 55\ mm^2$

If we multiply this by the necessary quantities:

$S_{3x2.5}$ **16** = 16 x $S_{3x2.5}$ = 16 x 110 mm^2 = **1760 mm^2**

$S_{Cat6FTP}$ **35** = 35 x $S_{Cat6FTP}$ = 35 x 55 mm^2 = **1925 mm^2**

STEP 2 - WE OBTAIN THE TOTAL CROSS SECTION PER COMPARTMENT

We must take into account the fill factor (K_i) with regard to installation and angles.

Both for the hose of 3x2.5mm^2 and for the cable Cat. 6 FTP the fill factor is K_i = 1.3

Therefore:

$S_{3x2.5}$ total = K_i x $S_{3x2.5}$16 = **1.3** x 1760 mm^2 = **2288mm^2**

$S_{Cat6FTP}$ total = K_i x $S_{Cat6FTP}$ 35 = **1.3** x 1925 mm^2 = **2502 mm^2**

Furthermore, consider that 30% of the trunking's capacity must be left available for possible expansions (A=1.3).
Thus:

S_{c1} = $S_{3x2.5}$ total x **A =** 2288 mm^2 x **1.3** = **2975 mm^2**

S_{c2} = $S_{Cat6FTP}$ total x **A =** 2502 mm^2 x **1.3** = **3253 mm^2**

STEP 3 - WE SELECT THE TRUNKING

We are asked to provide a 2-compartment aluminium trunking.

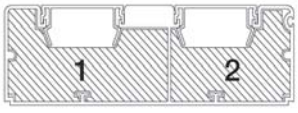
We look in the capacities table, and we find that the 160x55, two-compartment aluminium trunking suits our needs:

- Necessary cross section for compartment 1: S_{c1} = 3253 mm^2
- Available cross section of compartment 1: S_{c1} = 3314mm^2

- Necessary cross section for compartment 2: S_{c2} = 2975 mm^2
- Available cross section compartment 2:S_{c2} = 3739 mm^2

S_{comp1} = **3314 mm^2**

S_{comp2} = **3739 mm^2**



Measurements in mm

CROSS SECTIONS AND DIAMETERS OF THE MAIN CABLES RECOMMENDED IN THE REBT

ELECTRIC CABLE EXAMPLE FOR DISTRIBUTION NETWORKS

Nº of conductors		1 conductor		2 conductors		3 conductors		4 conductors	
Type *	Nominal cross section (mm)	Ø Exterior (mm)	Ø² cross section (mm²)	Ø Exterior (mm)	Ø² cross section (mm²)	Ø Exterior (mm)	Ø² cross section (mm²)	Ø Exterior (mm)	Ø² cross section (mm²)
RZ1-K 0.6/1 kV	1.5	5.7	32	10.5	110	10.7	114	11.5	132
RZ1-K 0.6/1 kV	2.5	6.2	38	11.3	128	11.6	135	12.6	159
RZ1-K 0.6/1 kV	4	6.7	45	12.3	151	13.3	177	14.5	210
RZ1-K 0.6/1 kV	6	7.7	59	13.8	190	14.4	207	15.5	240
RZ1-K 0.6/1 kV	10	8.4	71	15.5	240	16	256	18	324
RZ1-K 0.6/1 kV	16	9.8	96	18.5	342	19	361	21.5	462
RZ1-K 0.6/1 kV	25	11.4	130	21.6	467	22.9	524	23	529
RZ1-K 0.6/1 kV	35	12.6	159	-	-	-	-	-	-
RZ1-K 0.6/1 kV	50	14.3	204	-	-	-	-	-	-
RZ1-K 0.6/1 kV	70	16.4	269	-	-	-	-	-	-
RZ1-K 0.6/1 kV	95	17.9	320	-	-	-	-	-	-

EXAMPLE OF NORMAL CABLING IN INTERIOR INSTALLATIONS

Type *	Nominal cross section (mm)	Ø Exterior (mm)	Ø² cross section (mm²)
H07V2-K	1x1.5	2.9	328
H07V2-K	1x2.5	3.6	13
H07V2-K	1x4	4.2	18
H07V2-K	1x6	4.7	22
H07V2-K	1x10	6.2	38
H07V2-K	1x16	7.3	53
H07V2-K	1x25	9.3	86
H07V2-K	1x35	10.4	108
H07V2-K	1x50	13.9	193
H07V2-K	1x70	16	256
H07V2-K	1x95	18.2	331

Type *	Nominal cross section (mm)	Ø Exterior (mm)	Ø² cross section (mm²)
H05 VV-F	2x0.75	6.7	45
H05 VV-F	2x1	7	49
H05 VV-F	2x1.5	7.8	61
H05 VV-F	2x2.5	9.6	92
H05 VV-F	2x4	11	121
H05 VV-F	3G0.75	7	49
H05 VV-F	3G1	7.5	56
H05 VV-F	3G1.5	8.8	77
H05 VV-F	3G2.5	10.5	110
H05 VV-F	3G4	11.9	142
H05 VV-F	4G0.75	7.5	56
H05 VV-F	4G1	8.3	69
H05 VV-F	4G1.5	9.4	88
H05 VV-F	4G2.5	11.3	128
H05 VV-F	4G4	13.1	172

* According to UNE nomenclature

N.B.
Examples of usual electric and communications cabling
The values shown may vary depending on the manufacturer.
Guideline data.

Measurements in mm

CROSS SECTIONS AND DIAMETERS OF THE MAIN CABLES RECOMMENDED IN THE REBT

COMMUNICATIONS CABLING

	Ø Exterior (mm)	Ø² cross section (mm²)
TELEPHONY		
1 pair EV 0.51 mm	3.7	14
2 pairs EV 0.51mm	4	16
DATA (4 PAIRS)		
UTP Class D, Cat5e	5	25
UTP Class E, Cat6	6.3	40
FTP Class D, Cat5e	6.1	37
FTP Class E, Cat6	7.4	55
TELEVISION		
Coaxial 75 Ω	6.6	43.6

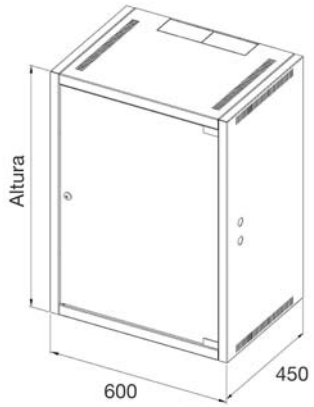
* According to UNE nomenclature

N.B.
Examples of normal electric and communications cabling
The values shown may vary depending on the manufacturer.
Guideline data.

Measurements in mm

RACK CABINETS

- Product designed to guarantee compliance with Directive 2006/95/EC, standard UNE-EN-62.208 and standard IEC- 60.297-2.
- Complies with European RoHS regulations.
- CE marked product.
- IP20 protection level.
- Impact strength level IK:09.
- Door opening angle of 160º.
- The frame can be moved in steps of 1 cm.
- Maximum weight: 50 kg.
- Earth connection included.
- Ventilation surface 100 $cm^{2.}$
- Wall mounted.
- Indoor installation.
- Maximum-safety tempered glass.

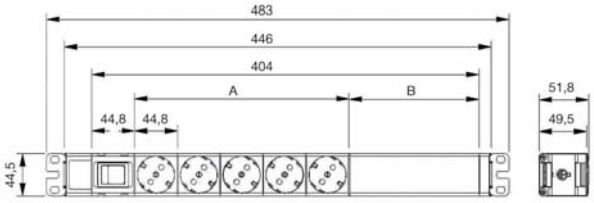


References	Height
RKA1906A4F	375 mm
RKA1909A4F	525 mm
RKA1912A4F	670 mm
RKA1915A4F	820 mm

ELECTROBLOCK

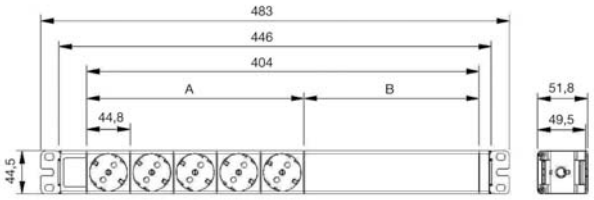
- Specific measurements for installation on 19" racks. 1 u. high (44.45 mm).
- Design according to CEI 670 (UNE 20451) standard for casings and CEI 60297 standard for communications cabinets.
- Depending on model, they have 16A bipolar switches and 2 m of 3x1.5 electric cable with heat injected electric plug.
- The recommended temperature range during installation is: - 5º C to + 60º C.
- The maximum temperature during construction work is +60º C.

Ref. F1x1x Ref. F2x1x



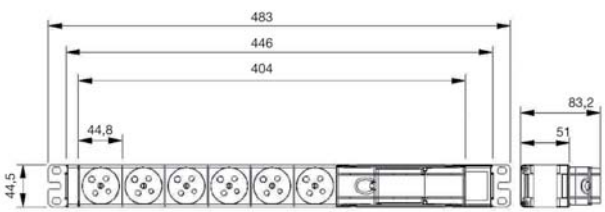
References				A	B
F1115	F1015	F2115	F2015	224	135
F1116	F1016	F2116	F2016	269	90
F1118	F1018	F2118	F2018	359	0

Ref. F1x0x Ref. F2x0x



References				A	B
F1105	F1005	F2105	F2005	224	180
F1106	F1006	F2106	F2006	269	135
F1108	F1008	F2108	F2008	359	45
F1109	F1009	F2109	F2009	404	0

Ref. Fxx26 Ref. Fxx36



References			
F1126	F1026	F2126	F2026
F1136	F1036	F2136	F2036

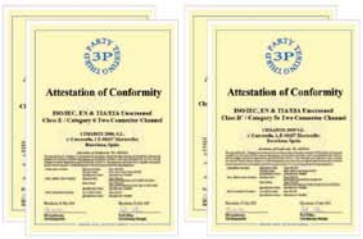
References	Description
F1126	10A, two-pole automatic breaker, curve C
F1136	30 mA differential, I max. 40A

Measurements in mm

UTP AND FTP COPPER CABLE SYSTEM

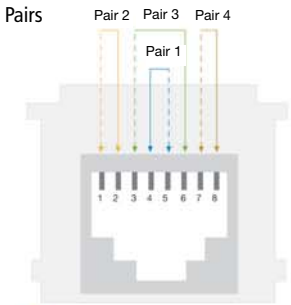
Manufactured in accordance with the following standards:

- EN 50.173-1 Cabling Standard Information Technology.
- TIA/EIA 568 A/B Commercial Building Telecommunications Cabling Standard.
- ISO/IEC 11.801 Cabling Standard, Generic Cabling for Customer Premises.
- Certified by an independent external laboratory.

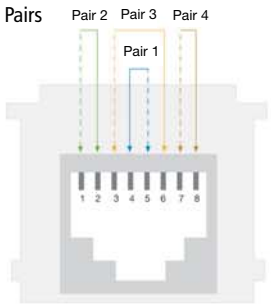


RJ45 WITH FITTED CONNECTORS

TIA568B connectorised



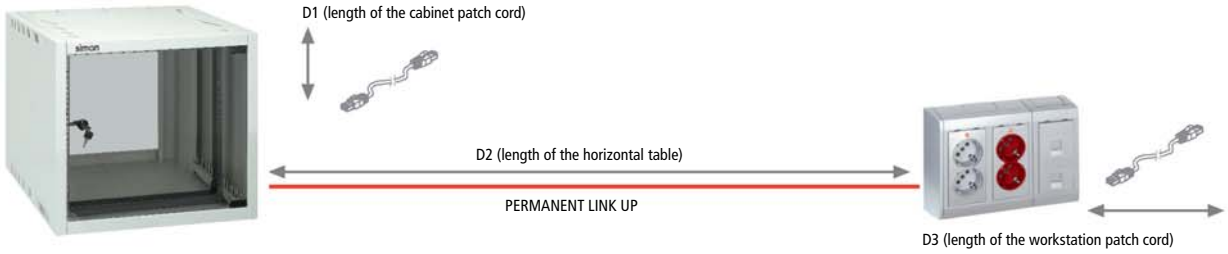
TIA568A connectorised



The RJ45 female connector can be used as RJ11 or RJ12. Connect the blue and white-blue pair for use as an analogue telephone socket.

INSTALLATION DISTANCES

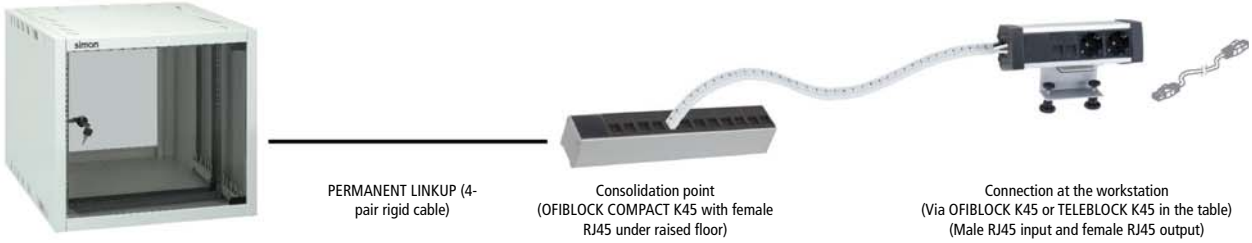
Horizontal copper cable lengths compliant with the ISO/IEC 11801 standard



Length of the horizontal cable line (PERMANENT LINKUP):	D2 ≤ 90 metres
Length of the patch cords (of the cabinet and workstation):	D1 + D3 < 10 metres
Length from the computer to the network equipment (TRUNKING):	D1 + D2 + D3 ≤ 100 metres

CONSOLIDATION POINT

Installation diagram with Consolidation point via OFIBLOCK K45 or TELEBLOCK K45 at workstation



The consolidation point allows the fixed part of the installation to be cabled (PERMANENT LINKUP) and allows complete freedom of movement of the installation furniture while respecting the Structured Cabling standard ISO/IEC 11801.

Measurements in mm

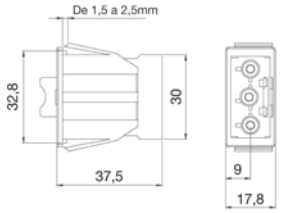
QUICK CONNECTION

- Product designed according to the Safety Requirements of Directive 2006/95/EC (Low Voltage) through harmonised standard UNE-EN-50.085.
- CE marked product.
- Cable cross section: 1.5 or 2.5 $mm^{2.}$
- Rigid or flexible.

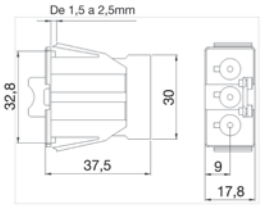
3 POLES

Flush-mount connectors

Ref. CR0001/..

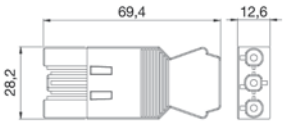


Ref. CR0002/..

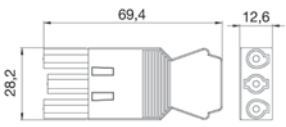


Overhead connectors

Ref. CR0003/..

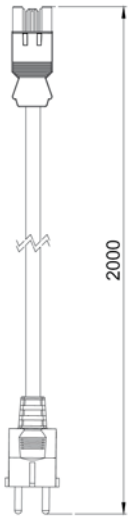


Ref. CR0004/..



Patch cords

Ref. CR1020/..



Ref. CR2010/..

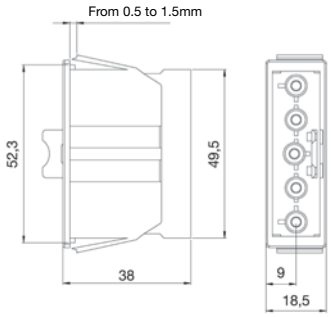
Ref. CR4020

References	Length (x) (m)
CR2010/..	1
CR2020/..	2
CR2030/..	3
CR2040/..	4
CR2050/..	5
CR2060/..	6
CR2070/..	7
CR2080/..	8

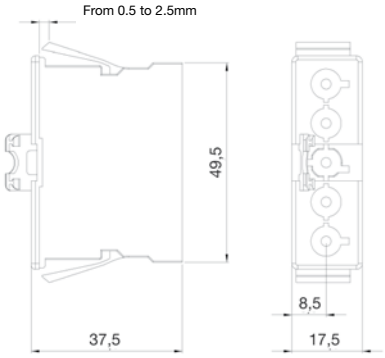
5 POLES

Flush-mount connectors

Ref. CR5001/14

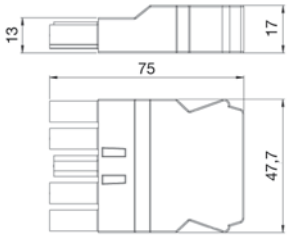


Ref. CR5002/14

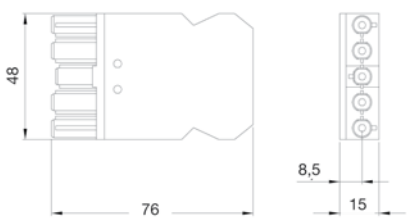


Overhead connectors

Ref. CR5004/14

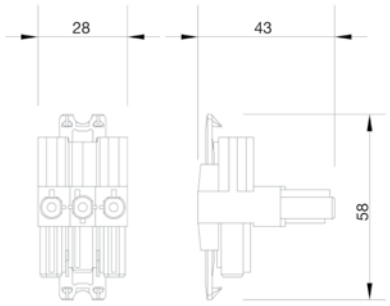


Ref. CR5003/14



Junctions

Ref. CR7312/14



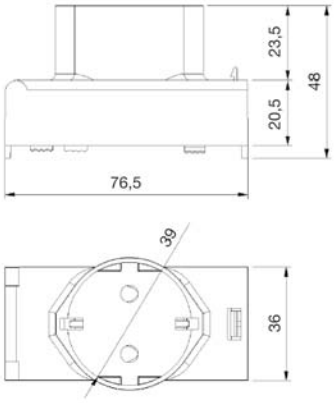
Measurements in mm

ELECTROBANDA

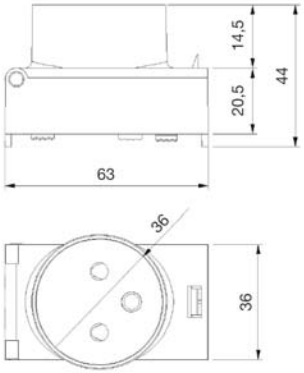
- Product designed in compliance with the UNE-EN-50.085-1 harmonised standard.
- Complies with the 2003 Low Voltage Electrotechnical Regulation, approved by R.D.842/2002.
- Compliant with Spanish ICT regulations according to Royal Decree 401/2003, section 8, "Safety requirements between installations".
- IP4X.
- Electrical Specifications: 16 A/250 V.

Electrical sockets

Schuko
Ref. PEA124/9



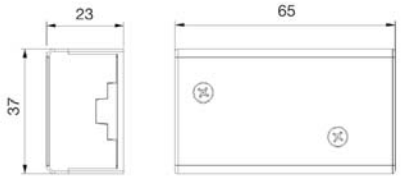
French
Ref. PEA125/9



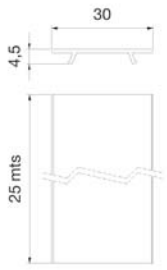
Wall-mount accessories

Ref. PEA100/8

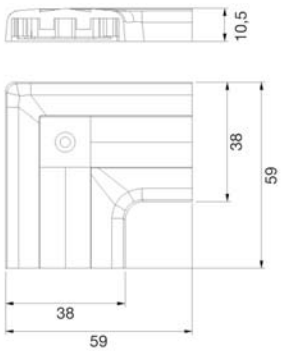
Ref. PEA120/9



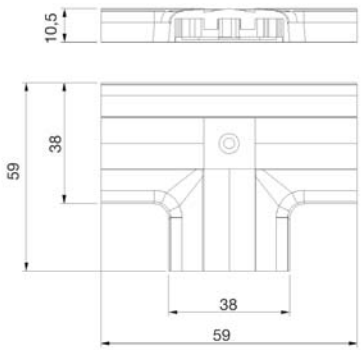
Ref. PEA110/9



Ref. PEA101/9



Ref. PEA106/9



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