



## STOCK PROGRAMME 31

**f-tronic®**



# f-tronic® Get electrified

Your full-range supplier in the field of electrical installation

**Innovative strength, determination and quality “Made in Germany” are the cornerstones of our company.**

f-tronic® has been developing, producing and marketing innovative products for electrical installation since 1990 and, as a full-range supplier, maintains close contact with the electrical trade. The company is a manufacturer of meter cabinet systems, distribution boxes, installation boxes, cable fastening and fire protection systems. Through initiatives received directly from the installer, f-tronic® manufactures high quality products with a constant focus on ease of installation and increased efficiency. The continuous expansion of our product range ensures a broad product spectrum for the electrical trade.

We stand for quality and innovative plastics processing. f-tronic® is renowned as a full-range provider in more than 25 countries - in the electrical wholesale trade, as well as for installers. With our automatic spray moulding guns that are manufactured mainly by German engineering companies, we guarantee the highest "Made in Germany" quality. Our own incentive is to develop and manufacture products that inspire when used in practice. In installation, function as well as in use. **Always in focus: An excellent price:performance ratio.**

f-tronic® always offers appropriate. We are trying to counteract the ongoing shortage of skilled workers in electrical installation by developing innovative and time-saving products. In order to bring new products to the market every year, we listen to the voices of the electrical trade and wholesalers. This gives us an extensive insight into different installation methods - at the same time providing us with important stimuli directly from practice, which we use to improve individual products and develop new ones.



**Installation boxes**  
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**Fire protection systems**  
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**Fastening systems**  
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**Meter cabinet systems**  
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# The basis of our actions and activities

Solid foundation for excellent results



# Made in Germany

Quality that convinces

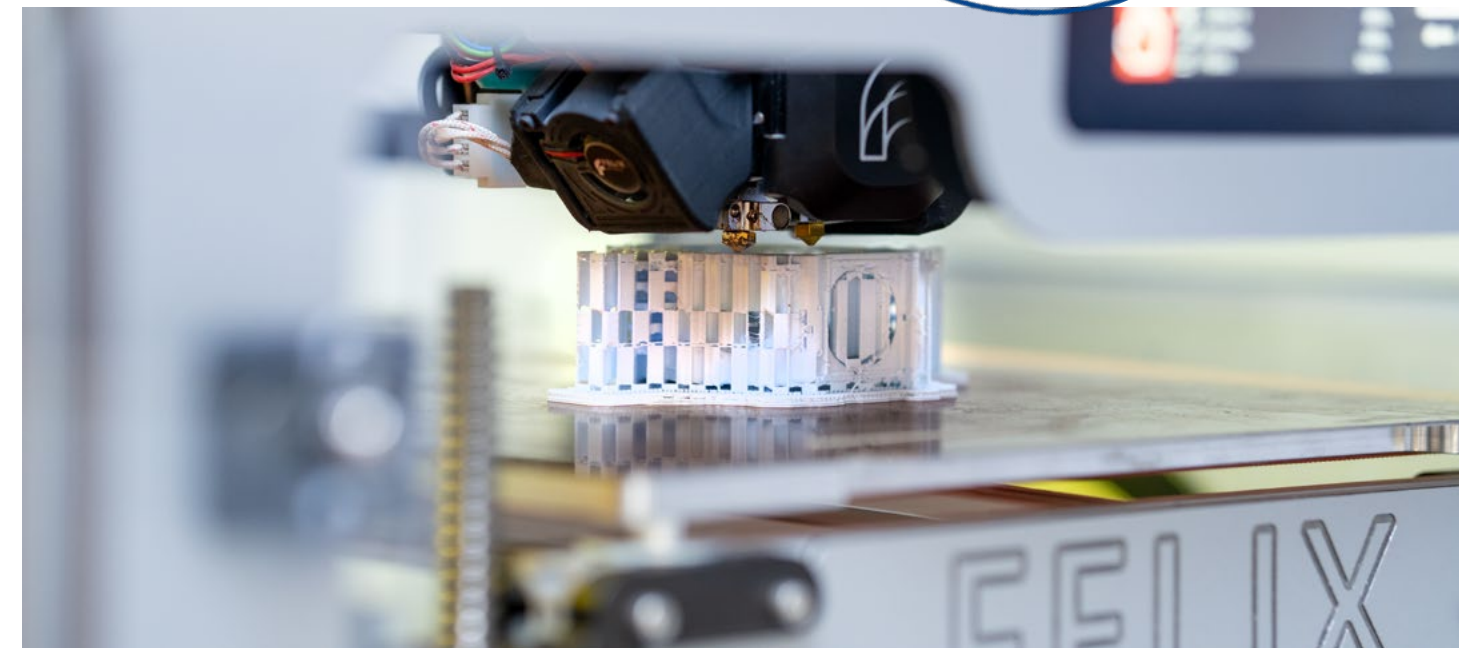
Thanks to our in-house engineering department, our quality standard "Made in Germany" is not just a promise, but a lived reality. Our professional engineers are the core of our company and embody our commitment to outstanding quality and customer-focused solutions.

## Tailor-made research and development

In our highly specialised engineering department, we rely on customer-specific development to ensure that our products meet users' precise requirements. From the idea to the finished product, our experts work directly with electrical installers to create custom solutions.

Our proud tradition of manufacturing in Germany underlines not only our commitment to quality, but also to local expertise. Our products bear the "Made in Germany" seal of quality, which stands for the highest standards, precision and reliability.

Our location in Germany is more than just a geographical point – it is a promise. Here, German engineering and innovative technologies merge to create products that not only meet current market standards, but also define them.



## Shaping the future together

Our engineering department is not just about products but also about partnerships. We invite you to shape the future together with us by transforming ideas into innovations and challenges into opportunities.

Discover the world of custom solutions and high-quality products – experience **f-tronic®**.



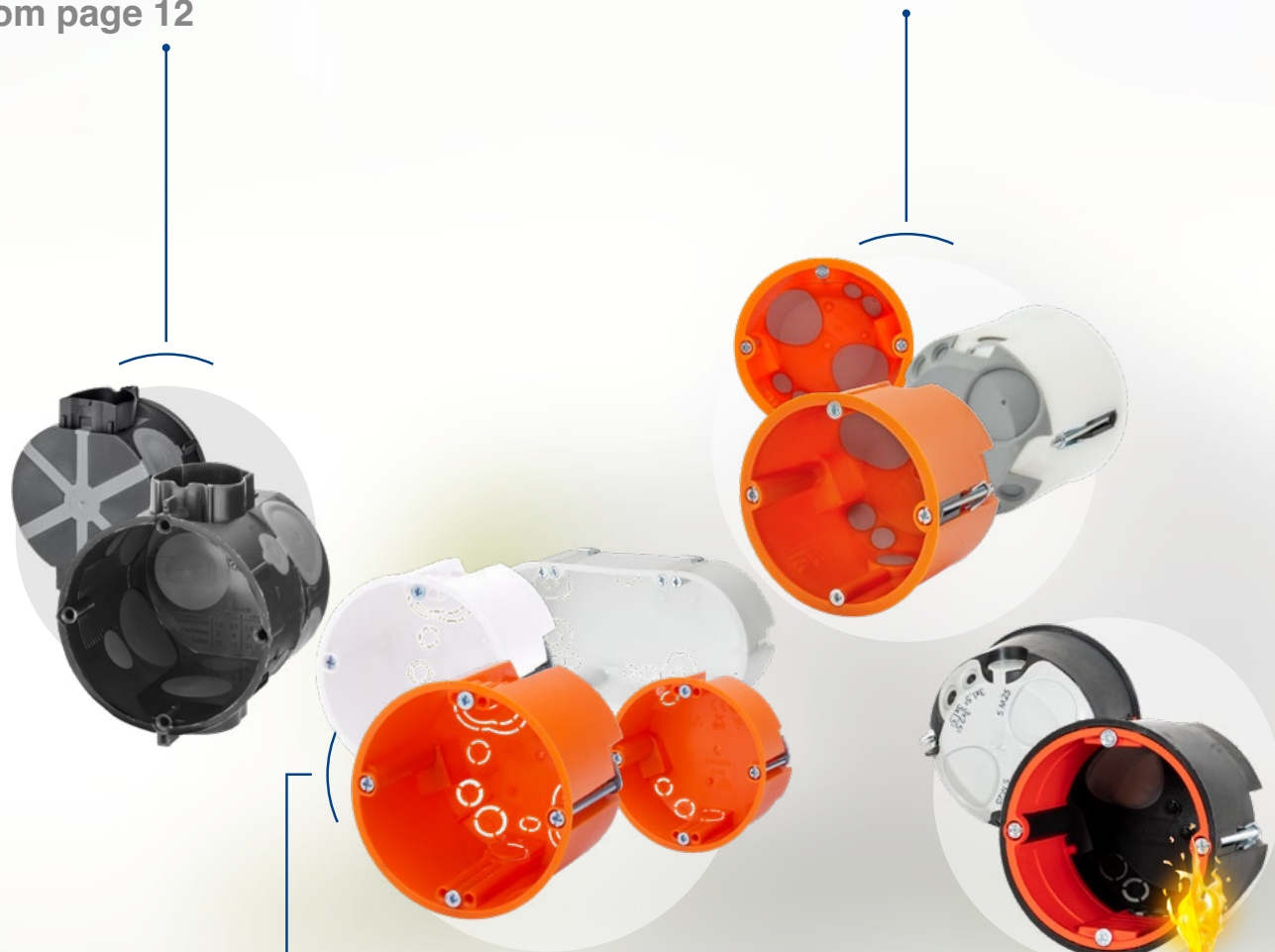




# Our innovations

## New airtight flush mounted socket box

New entries for more variability  
From page 12



## Complete revision of the standard range of hollow wall boxes

Extensive entries for all applications  
From page 22

## Grips tightly - Stays in the wood

Installation boxes for timber construction with patented TC fastening  
From page 40

## Protects in timber construction

The fire protection TC installation boxes  
From page 68

## New NEPTUN Compact accessories

Clamp holder for damp area distribution boxes  
From page 59



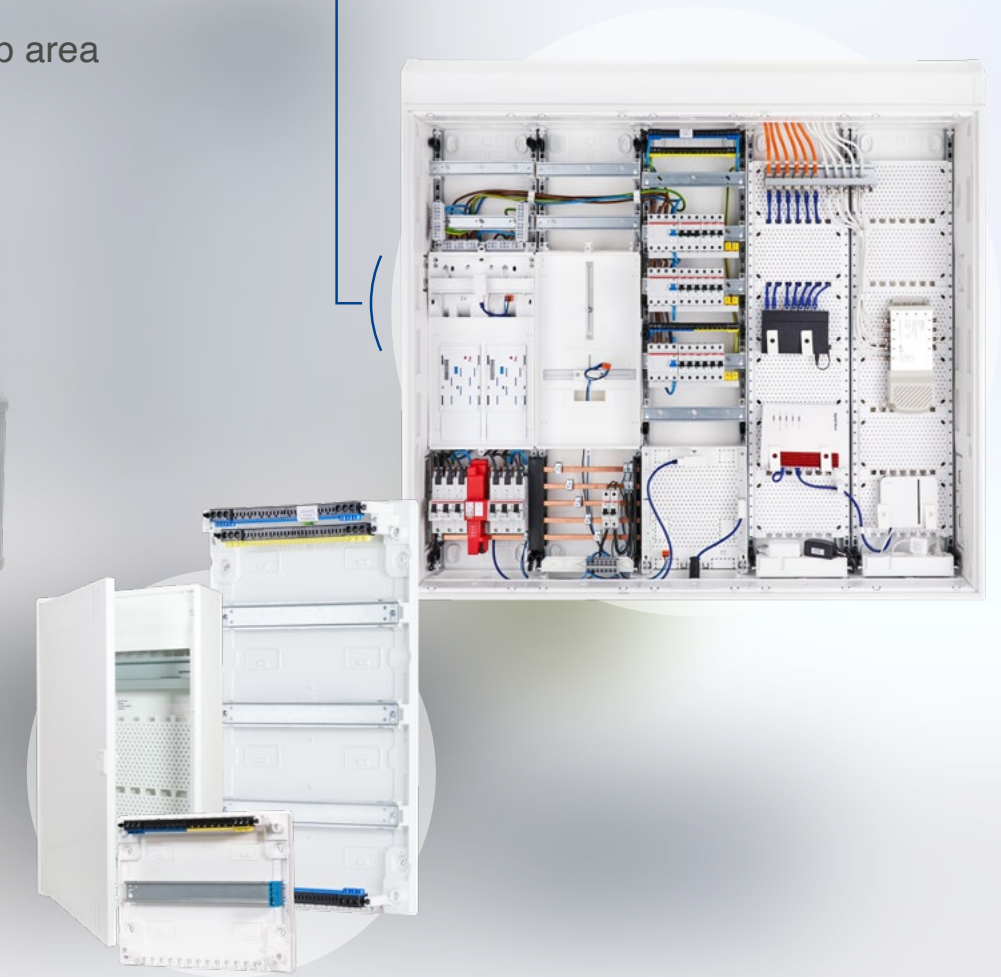
## The new Power Series

The next generation of meter cabinet systems

From page 137

## Revised and improved

The surface mounted distributor series VISION  
From page 102





# Installation boxes

Unsurpassed in diversity

f-tronic® offers a wide range of installation materials for every installation requirement. Whether flush mounted, hollow wall, timber construction, surface mounted or damp area application - we have the right product for you.

Due to a multitude of switches, sockets and intelligent, decentralised building control, a comprehensive installation range is becoming increasingly important. This trend will continue into the future.

We already have a range of up to 115 different installation boxes that are continuously tested according to current standards. We have therefore FMently completely revised our extensive range of hollow wall installation boxes.

As pioneers in the field of airtight hollow wall boxes, we are specialists in energy-efficient building installation. A complete installation with airtight boxes by f-tronic® guarantees the client a sustained increase in energy efficiency and allows comfort by avoiding drafts. Wherever you have to avoid annoying air circulation in your electrical installation, our airtight flush mounted and hollow wall socket boxes with 2K membrane technology are the first choice.

A cost-efficient installation is possible with our standard range. Rounded off by a variety of surface mounted and wet-room distribution boxes f-tronic® offers a wide range of installation boxes for different installation requirements.

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## The basics for a good FM installation



- Flexibly combined with all-in distribution boxes
- 20 and 25mm tube insertion
- 4x screw boss and 2x area for spreader claw springs



### 1 Nail tab

Combinable with (E104) plug-nail straps. (p. 41)



### 2 Standard distance

In combination of multiple socket boxes, the standard spacing of 71mm is maintained.



### 3 Combined pipe/cable entry

High flexibility through the combination of pipe/cable entries.



Type	E106M25	E106M25S	E107M25	E107M25S
Version	Device socket	Device socket	Device connection socket	Device connection socket
Item no.	7310129	7310130	7310131	7310132
SU / CB / PL	25 / 300 / 6,000	25 / 300 / 6,000	25 / 200 / 4,000	25 / 200 / 4,000
Depth	46 mm	46 mm	65 mm	65 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PS	PS	PS	PS
Device screw incl.	-	✓	-	✓
Cable entry	4	4	8	8
Pipe entry M20	7	7	13	13
Pipe entry M25	2	2	4	4

Optional accessories from page 41

## Installed faster thanks to the DUPLEX

- Optimally suited for opposite installation in 100 mm partition wall
- Combined with all FM socket boxes
- More wiring space
- Pipe and cable entries
- Expandable with levelling rings E130/E132
- One-man assembly



### Assembly instructions



1 Pierce the wall completely with mill bit.



2 Box can be installed from one side (one-man assembly).



3 Close the box with the E120 signal cover (p. 41) and plaster it in place.



4 Wall section with inlaid box; ideal for 100mm partitions.



Type	E400
Version	Double socket box
Item no.	7310155
SU / CB / PL	10 / 100 / 2,000
Depth	100 mm
max. cross section	2.5 mm <sup>2</sup>
Material	PS
Cable entry	4 per side
Pipe entry M20	4 per side
Pipe entry M25	4 per side

Optional accessories from page 41

Flush mounted distribution box



Type	E140	E141	E142
Version	Distribution box incl. cover	Distribution box incl. cover	Distribution box incl. cover
Item no.	7310060	7310061	7310062
SU / CB / PL	10 / 200 / 4,000	10 / 150 / 3,000	1 / 30 / 600
H x W x D	80 x 80 x 50 mm	100 x 100 x 50 mm	160 x 160 x 65 mm
max. cross section	4 mm <sup>2</sup>	4 mm <sup>2</sup>	16 mm <sup>2</sup>
Material	PS	PS	PS
Pipe entry M16 / M20 / M25 / M32	- / 8 / - / -	4 / 15 / 4 / -	11 / - / 10 / 6

Accessories			
Type	E140D	E141D	E142D
Version	Replacement lid	Replacement lid	Replacement lid
Item no.	7310135	7310136	7310137
SU / CB / PL	10 / 500 / 15,000	10 / 300 / 9,600	10 / 100 / 2,200
H x W	95 x 95 mm	120 x 120 mm	185 x 185 mm

Flush mounted wall outlet



## All-round success

For easier installation

- Simple exit of cables and pipes in FM areas
- Improved assembly
- For easy installation of wall lights and similar



Type	UWAD
Version	Wall outlet
Item no.	7310078
SU / CB / PL	25 / 500 / 10,000
Depth	45 mm
Diameter	Ø 36 mm
max. cross section	1.5 mm <sup>2</sup>
Cable entry	2x ≤ 12 mm
Material	PS
Pipe entry M20	3
Pipe entry M25	2
Accessories	incl. cover

Flush mounted distribution socket



Type	E110
Version	Distribution socket
Item no.	7310133
SU / CB / PL	25 / 300 / 6,000
Depth	35 mm
Diameter	Ø 72 mm
max. cross section	2.5 mm <sup>2</sup>
Material	PS
Pipe entry M20	9
required purchase	Screw cap (E112H)

Flush mounted device connection socket

- With lateral wiring space
- Only 45 mm depth - use in shallow walls



Type	E510
Version	Device connection socket
Item no.	7310063
SU / CB / PL	10 / 100 / 2,000
H x W x D	110 x 71 x 45 mm
max. cross section	2.5 mm <sup>2</sup>
Material	PS
Pipe entry M20	2
Pipe entry M25	8
Pipe entry M20/M25	2

Flush mounted device socket, Austria

- According to IEC 60670 tested by ÖVE
- Installation of pre-assembled device combinations possible
- Can be combined as required

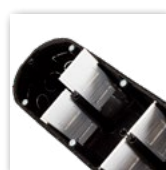
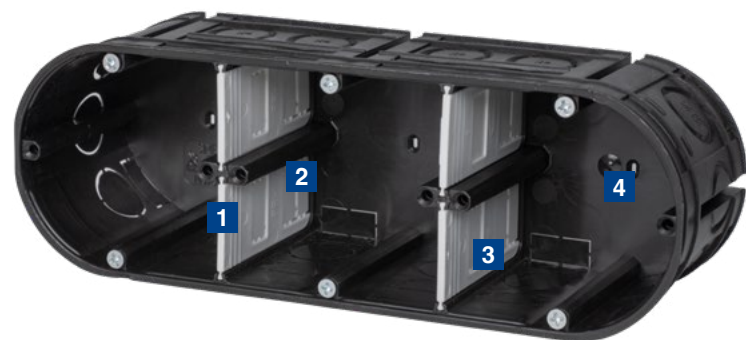


Type	E810	E811
Version	Device socket	Device socket, double
Item no.	7310064	7310066
SU / CB / PL	20 / 200 / 4,000	10 / 100 / 2,000
H x W x D	72 x 73.4 x 45 mm	72 x 144.3 x 45 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PS	PS
Pipe entry M20	7	10
Pipe entry M25	1	2

## Versatile applications

### Solid construction

- Extremely solid material, high wall thickness
- Flexible installation by variable dividers



#### 1 Dividers

Individually removable dividers for variable separation of installation areas.



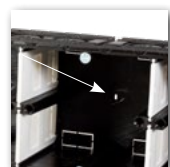
#### 2 Standard distance

The standard distance of 71mm is automatically maintained.



#### 3 Execution

Knock-throughs in the bridge, for the defined cable routing.



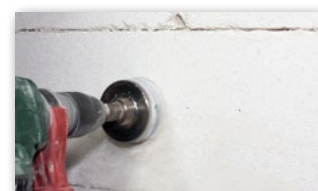
#### 4 Marking holes

Mark the points for the milling drill holes on the basis of the marking holes.

## Assembly instructions



- 1** The centering points are marked by the marking holes. .



- 2** Cut holes with milling bit.



- 3** Punch out remaining material.



- 4** Insert box in wall and protect with signal covers (p. 41).



- 5** Plaster and make good.



Type	UP20	UP30	UP40	UP50
Version	Device socket, 2-fold	Device socket, 3-fold	Device socket, 4-fold	Device socket, 5-fold
Item no.	7310102	7310103	7310104	7310105
SU / CB / PL	10 / 90 / 1,800	5 / 50 / 1,000	5 / 40 / 800	5 / 35 / 700
H x W x D	71 x 141 x 63 mm	71 x 213 x 63 mm	71 x 284 x 63 mm	71 x 354 x 63 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP	PP	PP	PP
Cable entry Flat cable 20 x 10mm	12	20	28	36
Pipe entry M20	10	14	18	22

## Plaster cover



Type	UPD1	UPD2
Version	Plaster cover semi-circular	Plaster cover square
Item no.	7390055	7390056
SU / CB / PL	50 / 1,000 / 20,000	50 / 1,000 / 20,000
Material	PP	PP

## Plaster leveling

### Application



- 1** Surface equalisation ring available in square and half-round.



- 2** Desired height knockouts in 5mm increments.



Type	PAQ	PAH
Version	Plaster leveling square	Plaster leveling semi-circular
Item no.	7390089	7390090
SU / CB / PL	15 / 420 / 8,400	10 / 440 / 8,800
Depth	30 mm	30 mm
Material	PA6	PA6



Flush mounted device socket, airtight

## Efficiency in energy and handling

- Maximum airtightness thanks to the new f5 membrane (tear-resistant, flexible, airtight, pre-embossed, tool-free)
- Increase of energy efficiency in buildings
- More comfort by avoiding draughts
- Easy to install
- Easy to use without additional tools
- Guaranteed compliance with the standard distance



### 1 Airtight

The flexible membrane lies air-tight around the pipe or pipe.



### 2 Time-saving

Due to the flexible tear-resistant membrane, lines and pipes can be assembled quickly and without tools.



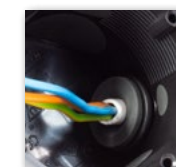
### 3 Combinable

All f-tronic® wall outlets can be combined. Compliance with the standard distance of 71mm is guaranteed.



### 4 Nail tab

Flexibility in installation with nail tab (E104) (p. 41)



### 5 Energy efficiency

The airtight f5 membrane avoids unwanted draughts and thus increases energy efficiency within the building. Can be used optimally in combination with the pipe plugs (p. 45).

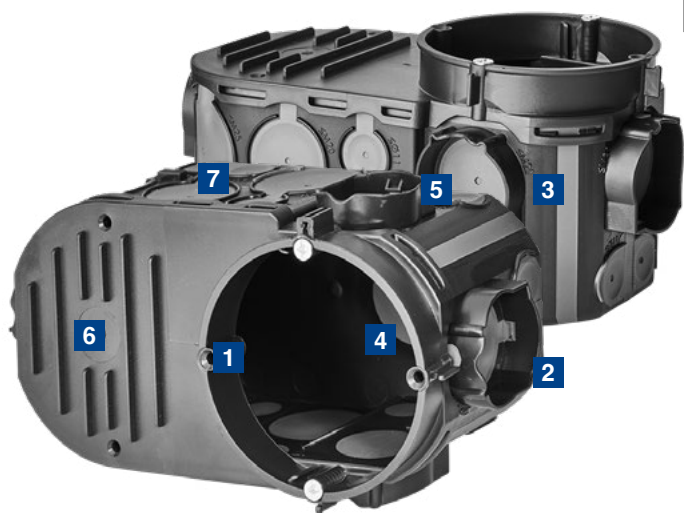


Type	E1062K	E1072K
Version	Device socket	Device connection socket
Item no.	7320026	7320028
SU / CB / PL	25 / 300 / 6,000	25 / 200 / 4,000
Depth	46 mm	65 mm
Material	PP / TPE	PP / TPE
Cable entry	-	6
Pipe entry M20 / M25	4 / 2	2 / 5

Optional accessories from page 41

# The multi-talented one

## Versatile and practical



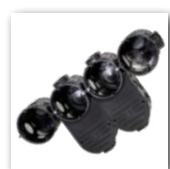
- Maximum airtightness thanks to new f5 membrane (tear-resistant, flexible, airtight, pre-embossed, tool-free)
- Sixteen flexibly assignable cable entries
- Six cable entries up to M20
- Five cable entries up to M25
- Increases energy efficiency in buildings
- Easy to install
- Divider available as accessory enables current circuit separation in the box

### 1 Circuit isolation



An additional partition (E551) enables simple circuit separation.

### 2 4-sided stackable



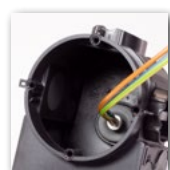
The E550 can be bayed on all sides. This makes installation in any type of combination possible.

### 3 Airtight



The f5 membrane wraps airtight around the pipe or pipe. Even under the highest mechanical stresses, the membrane holds up, preventing tearing.

### 4 Energy efficient



The airtight membrane avoids unwanted draughts and thus increases energy efficiency within the building. Can be used optimally in combination with the pipe plugs (p. 45).

### 5 Combinable



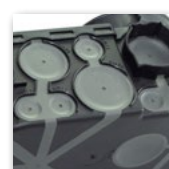
All f-tronic® wall outlets can be combined. Compliance with the standard distance of 71 mm guaranteed.

### 6 Plenty of space



The box offers plenty of space for the installation of components up to 50mm height or to comply with bending radii.

### 7 Inserts



Wide range of entries:  
16x cable entries, 11x pipe entries.

## Assembly instructions



1 Additional partition (E551) for circuit isolation. (p. 42)



2 Simply insert partition from above.



3 Standardised separation of the circuits.



Type	E550
Version	IT electronics box
Item no.	7320009
SU / CB / PL	10 / 80 / 1.600
Depth	67 mm
max. cross section	4 mm <sup>2</sup>
Material	PS / PP / TPE
Cable entry ≤ Ø 11 mm	16
Pipe entry ≤ M20	6
Pipe entry ≤ M25	5
Accessories	incl. device screws

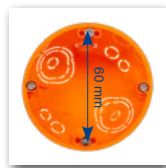
Optional accessories from page 41





## The basics for a proper hollow wall installation

- With break-outs for cables and pipes
- Integrated pipe support for NYM cables
- Secure fixing of tubes
- Combination entries up to M25



### 1 Standard distance

Screw spacing of 60mm ensures optimum installation of the units in the socket box.



### 2 Diverse insertion options

Maximum flexibility during installation thanks to the many different insertion options.



### 3 Easy to connect

The round connecting pieces ensure easy connection and through-wiring from socket to socket.



### 4 Perfect alignment

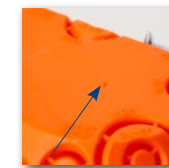
Thanks to the 3-fold screw domes, the installed device in the box can be aligned easily and simply.



Type	E115	E115HF	E117	E117HF	E135
Version	Device socket	Device socket, halogen-free	Device connection socket	One-Device connection socket, halogen-free	Device socket, extra flat
Item no.	7350163	7350164	7350165	7350166	7350167
SU / CB / PL	25 / 300 / 6,000	25 / 300 / 6,000	25 / 400 / 4,800	25 / 400 / 4,800	25 / 300 / 6,000
Milling hole	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
Depth	48 mm	48 mm	62 mm	62 mm	35 mm
max. cross section	2.5mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Panel thickness	5 - 40 mm	5 - 40 mm	5 - 40 mm	5 - 40 mm	5 - 25 mm
Material	PP	PP	PP	PP	PP
Cable entry 3x 1.5	3	3	3	3	4
5x 1.5 <sup>2</sup> / 3x 2.5 <sup>2</sup>	2	2	3	3	2
7x 1.5 <sup>2</sup> / 5x 2.5 <sup>2</sup>	-	-	1	1	-
Pipe entry M20	-	-	1	1	-
Pipe entry M20/M25	2	2	2	2	-

## Stronger together Dual sockets for greater convenience

- Convenient installation of double combinations
- Pins on the back mark center points for milling holes
- Knockout openings for cables and pipes
- Integrated pipe support for NYM cables
- Secure pipe fixation



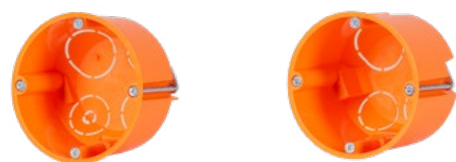
### 1 Simply marked

There are pins on the back of the double box to mark the milling centres on the wall.



Type	E118	E118HF
Version	Double device socket	Double device socket, halogen-free
Item no.	7350041	7350162
SU / CB / PL	10 / 100 / 2,000	10 / 100 / 2,000
Milling hole	2x Ø 68 mm	2x Ø 68 mm
Depth	47 mm	47 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Panel thickness	5 - 40 mm	5 - 40 mm
Material	PP	PP
Cable entry 3x 1.5 <sup>2</sup>	8	8
5x 1.5 <sup>2</sup> / 3x 2.5 <sup>2</sup>	6	6
7x 1.5 <sup>2</sup> /5x 2.5 <sup>2</sup>	-	-
Pipe entry M20	6	6

- Specifically for use in pipe installation



Type	E860	E870
Version	Device socket	Device connection socket
Item no.	7350117	7350116
SU / CB / PL	25 / 300 / 6,000	25 / 300 / 6,000
Milling hole	Ø 68 mm	Ø 68 mm
Depth	47 mm	60 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Panel thickness	5 - 40 mm	5 - 40 mm
Material	PP	PP
Cable entry 3x 1.5 <sup>2</sup>	2	-
Pipe entry M20 / M25	2 / 2	2 / 2

## Small size

### Large range of applications

- Simple exit of cables and pipes
- Space for connection terminals
- Internal closure cover
- Bolted point for light installation



Type	E134
Version	Outlet box
Item no.	7350098
SU / CB / PL	25 / 500 / 10,000
Milling hole	Ø 35 mm
Depth	45 mm
max. cross section	2.5 mm <sup>2</sup>
Panel thickness	5 - 25 mm
Material	PP
Cable entry 3x 1.5 <sup>2</sup>	1
Accessories	incl. cover



Type	E116
Version	Distribution box
Item no.	7350033
SU / CB / PL	1 / 80 / 1,600
H x W x D	105 x 105 x 45 mm
max. cross section	4 mm <sup>2</sup>
Material	PP
Cable entry 3x 1.5 <sup>2</sup>	8
Pipe entry M16 / M20	4
Pipe entry M20	4
Accessories	incl. screw lid



Type	E119	E815
Version	Hollow wall distribution box	Hollow wall distribution box
Item no.	7350043	7350046
SU / CB / PL	10 / 200 / 4,000	20 / 20 / 1,280
Milling hole	Ø 74 mm	Ø 120 mm
Panel thickness	5 - 40 mm	5 - 40 mm
Depth	50 mm	65 mm
max. cross section	2.5 mm <sup>2</sup>	4 mm <sup>2</sup>
Material	PP	PP
Cable entry 3x 1.5 <sup>2</sup>	6	12
5x 1.5 <sup>2</sup> / 3x 2.5 <sup>2</sup>	-	12
7x 1.5 <sup>2</sup> / 5x 2.5 <sup>2</sup>	-	-
Pipe entry M20 / M25	4	2 / 2
Accessories	incl. screw lid	incl. screw lid

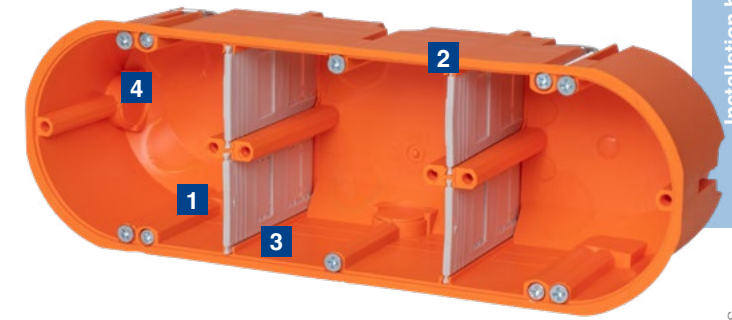
Optional accessories from page 42

Multi-hollow wall box, solid

## Versatile applications

### Solid installation

- Extremely solid material, high wall thickness
- Flexible installation with variable partitions
- With break-outs for easy insertion of cables
- Flame retardant to 960°C



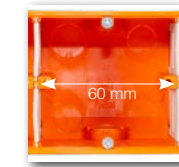
#### 1 Divider

Individually removable dividers for separation of circuits.



#### 2 Grommet

Break-out cable entry for orderly cable insertion into the socket box.



#### 3 Standard distance

The standard distance of 60mm is maintained, thanks to the design.



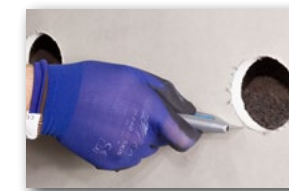
#### 4 Marking pin

By pressing the socket box onto the plasterboard, marking of the outer milling holes occurs.

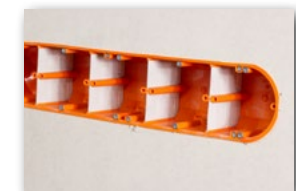
### Assembly instructions



1 Mark centring points by pressing the pins.



2 With mill bit  $\varnothing$  68mm cut, make the two outer holes and cut out the centre piece using a cutter or jigsaw.



3 Insert box and secure it with screws.



4 Socket box offers high flexibility from variable partitions and extra wiring space.





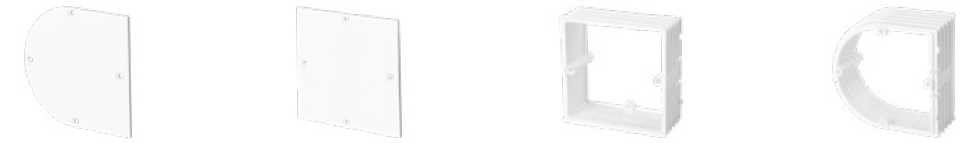
Type	HW20	HW30
Version	Device socket, 2-fold	Device socket, 3-fold
Item no.	7350062	7350063
SU / CB / PL	10 / 90 / 1,800	5 / 50 / 1,000
H x W x D	68 x 139 x 63 mm	68 x 210 x 63 mm
Panel thickness	3 - 38 mm	3 - 38 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PA6	PA6
Pipe entry M16 / M20	- / 6	2 / 8



Type	HW40	HW50	HW60
Version	Device socket, 4-fold	Device socket, 5-fold	Device socket, 6-fold
Item no.	7350064	7350065	7350093
SU / CB / PL	5 / 40 / 800	5 / 35 / 700	1 / 30 / 600
H x W x D	68 x 281 x 63mm	68 x 352 x 63 mm	152 x 210 x 63 mm
Panel thickness	3 - 38 mm	3 - 38 mm	3 - 38 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PA6	PA6	PA6
Pipe entry M16 / M20	4 / 10	4 / 12	4 / 12



Type	HW20F	HW30F	HW40F	HW50F
Version	Device socket, 2-fold, flat	Device socket, 3-fold, flat	Device socket, 4-fold, flat	Device socket, 5-fold, flat
Item no.	7350153	7350154	7350155	7350156
SU / CB / PL	10 / 90 / 1,800	5 / 50 / 1,000	5 / 40 / 800	5 / 35 / 700
H x W x D	68 x 139 x 45 mm	68 x 210 x 45 mm	68 x 281 x 45 mm	68 x 352 x 45 mm
Panel thickness	3 - 20 mm	3 - 20 mm	3 - 20 mm	3 - 20 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PA6	PA6	PA6	PA6
Pipe entry M20 / M25	8 / 2	12 / 4	16 / 6	20 / 8



Type	HWD1	HWD2	PAQ	PAH
Version	Cover, semi-circular	Cover, square	Plaster levelling square	Plaster levelling semi-circular
Item no.	7390057	7390058	7390089	7390090
SU / CB / PL	50 / 1,000 / 48,000	50 / 1,000 / 48,000	15 / 420 / 8,400	10 / 440 / 8,800
Depth	-	-	30 mm	30 mm
Material	PS	PS	PA6	PA6



## Solid construction

### Airtight installation

- Airtight from 2K membrane technology
- Easy to install, due to tool-free pipe insertions
- Removable dividers



Type	HW202K	HW302K	HW402K
Version	Device socket	Device socket	Device socket
Item no.	7360063	7360064	7360065
SU / CB / PL	10 / 90 / 1,800	5 / 50 / 1,000	5 / 40 / 800
H x W x D	68 x 139 x 50 mm	68 x 210 x 50 mm	68 x 281 x 50 mm
Panel thickness	5 - 40 mm	5 - 40 mm	5 - 40 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP / TPE	PP / TPE	PP / TPE
Pipe entry M16	1	3	5
Pipe entry M20	2	2	2
Pipe entry M16 / M20	2	4	6
Pipe entry M20 / M25	3	3	3

IT electronics box, hollow wall

## The original

### Cutting-edge IT socket boxes

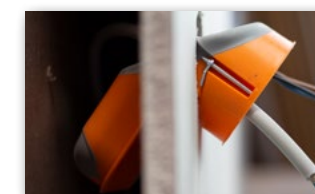
- 70% time saving during assembly
- One-hole mounting
- Additional connection space for all common relays and actuators
- Problem-free compliance with the bending radius for network cabling
- Tool-free insertion from 2K membrane technology
- Displacement of insulating material during installation due to strong body



### Assembly instructions



**1** The cables are inserted into the socket box. The lateral compartment is suitable for all standard relays and actuators.



**2** Due to the flexible membrane, the socket box is easily and conveniently inserted into the hollow wall.



**3** Done. The box is installed and the bending radius of the network cable is easily maintained.



Type	E5000	E5000HF
Version	IT electronics box	IT electronics box, halogen-free
Item no.	7350066	7350112
SU / CB / PL	10 / 100 / 2,000	10 / 100 / 2,000
Milling hole	Ø 68 mm	Ø 68 mm
Panel thickness	5 - 25 mm	5 - 25 mm
Depth	70 mm	70 mm
Material	PP / TPE	PP / TPE
Inserts	5 (of which 4x up to M25)	5 (of which 4x up to M25)

TOOL-FREE

Optional accessories from page 42



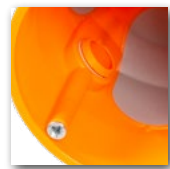
## Guaranteed airtight for any application

- Airtight with 2K membrane technology
- Easy to install, due to tool-free cable and pipe insertion
- Integrated pipe support for NYM cables
- Secure fixing of tubes
- Incl. airtight E105 or E105HF connection ports
- 3 variants available:
  - Device socket with cable and pipe entries
  - Device distribution box with cable and Pipe entries
  - Device distribution box for pipe installation



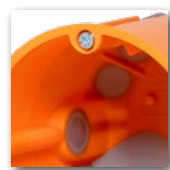
### 1 Labelling

The overleaf mounted cable and pipe insertion labelling acts through the flexible membrane component and is thus FMognisable, even after being exposed to great mechanical stress.



### 2 Airtight through-wiring

The connection port enables guaranteed airtight through-wiring by means of wiring connecting pieces.



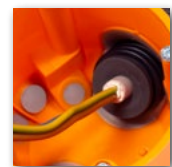
### 4 Strengthened cable entry

The reinforced cable entry provides additional stability and simplifies the insertion of cables and wires.



### 3 Variable inserts

All airtight device distribution boxes have deep-FMessed pipe entries, which allow variable supply cabling with entry angles of 90° and opposite mounting in the wall.



### 5 Energy efficiency

The airtight membrane prevents unwanted draughts in hollow walls and thus increases energy efficiency in buildings. Optionally in combination with sealing plugs (p. 45)

Optional accessories from page 42



Type	E2700	E2700HF	E3700	E3700HF	E3500	E3500HF
Version	Device socket	Device socket, halogen-free	Device connection socket	Device connection socket, halogen-free	Device connection socket	Device connection socket, halogen-free
Item no.	7360028	7360047	7360027	7360048	7360045	7360071
SU / CB / PL	25 / 300 / 6,000	25 / 300 / 6,000	25 / 400 / 4,800	25 / 400 / 4,800	25 / 400 / 4,800	25 / 400 / 4,800
Milling hole	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
Panel thickness	5 - 40 mm	5 - 40 mm	5 - 40 mm	5 - 40 mm	5 - 40 mm	5 - 40 mm
Depth	47 mm	47 mm	61 mm	61 mm	61 mm	61 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP / TPE	PP / TPE	PP / TPE	PP / TPE	PP / TPE	PP / TPE
Cable entry 3x 1.5 <sup>2</sup>	2	2	2	2	-	-
5x 1.5 <sup>2</sup> / 3x 2.5 <sup>2</sup>	2	2	2	2	-	-
7x 1.5 <sup>2</sup> / 5x 2.5 <sup>2</sup>	-	-	2	2	-	-
Pipe entry ≤ M20	-	-	-	-	2	2
Pipe entry ≤ M25	2	2	2	2	2	2
Accessories	per SKU inc. 5x E105	per SKU inc. 5x E105HF	per SKU inc. 5x E105	per SKU inc. 5x E105HF	per SKU inc. 5x E105	per SKU inc. 5x E105HF

Hollow wall distribution box, airtight

- Airtight with 2K membrane technology
- Easy to install, due to tool-free cable and pipe insertions
- Integrated pipe support for NYM cables
- Secure fixing of tubes
- Certified by ÖVE



Type	E816
Version	Distribution box
Item no.	7360016
SU / CB / PL	20 / 20 / 1,280
Milling hole	Ø 120 mm
Panel thickness	5 - 40 mm
Depth	65 mm
max. cross section	4 mm <sup>2</sup>
Material	PP / TPE
Cable entry 3x 1.5 <sup>2</sup>	12
5x 1.5 <sup>2</sup> / 3x 2.5 <sup>2</sup>	12
7x 1.5 <sup>2</sup> / 5x 2.5 <sup>2</sup>	6
Pipe entry M20 / M25	2 / 2
Accessories	incl. screw lid



Hollow wall LAN socket

## The specialist your IT applications

- Compliance with bending radii for network and data lines
- Combinable
- 3x cable entry for Simplex or Duplex
- Guaranteed airtight
- Milling hole Ø 68mm



### 1 Uncomplicated installation

Easy one-hole mounting in a standard milling hole diameter of Ø 68mm and 2K membrane technology.



### 3 combinable with 3-sides

By an offset arrangement of the fastening screws, the LAN socket can be on three sides with all hollow wall boxes, having a 71mm standard distance, combinable as desired.



### 2 DIN-compliant

The special design avoids bending of the pipe over the radius, which ensures lossless data transmission.



### 4 Airtight

Thanks to 2K-membrane technology that allows for easy insertion, the LAN socket box is guaranteed to be airtight.



Type	E5100	E5100HF
Version	LAN socket	LAN socket, halogen-free
Item no.	7360051	7360055
SU / CB / PL	10 / 200 / 4,000	10 / 200 / 4,000
Milling hole	Ø 68 mm	Ø 68 mm
Panel thickness	5 - 25 mm	5 - 25 mm
Depth	60 mm	60 mm
Material	PP / TPE	PP / TPE
Network line cable entry	2	2
Duplex cable	1	1

Optional accessories from page 42



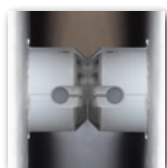
## Relaxes and provides privacy

- Sound-absorbing function of the wall remains intact
- Subsequent installation possible
- Airtight with 2K membrane technology
- 4 cable entries
- 2x M25 pipe entries
- Installation of up to 5-fold combinations possible
- Opposing installation from 120mm wall thickness possible



### 1 Optimised material thickness

Optimised material thickness provides the sound insulation box with superior soundproofing properties. Nevertheless, it is designed in such a way that it complies with the interior space specified by the standard with a standard milling hole diameter of Ø 68 mm.



### 2 Opposing installation

From a wall thickness of 120mm, an opposed shoring without loss of acoustic insulation properties is also possible.



### 3 Tool-free insertion

The 2K-membrane technology of insertions is designed so that simple and tool-free insertion is possible, despite increased material thickness. The socket box is thereby not only airtight, but the sound insulation properties are maintained as well!



### 4 Energy efficiency

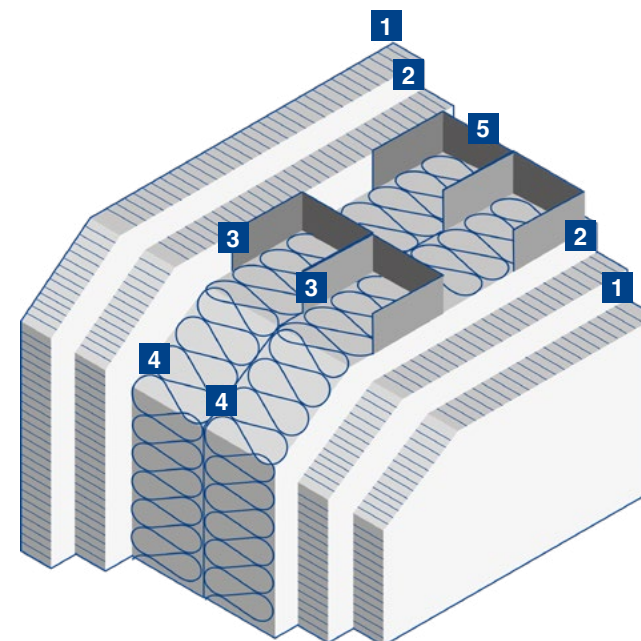
The airtight membrane prevents unwanted draughts in hollow walls and thus increases energy efficiency in buildings. Optionally in combination with sealing plugs (p. 45)



HALOGEN FREE

Type	SP3700	SP3700HF
Version	Sound protection box	Sound protection box, halogen-free
Item no.	7520001	7520002
SU / CB / PL	10 / 200 / 4,000	10 / 200 / 4,000
Milling hole	Ø 68 mm	Ø 68 mm
Panel thickness	5 - 40 mm	5 - 40 mm
Depth	58 mm	58 mm
Material	PP / TPE	PP / TPE
Cable entry 3x 1.5²	2	2
5x 1.5² / 3x 2.5²	2	2
Pipe entry ≤ M25	2	2

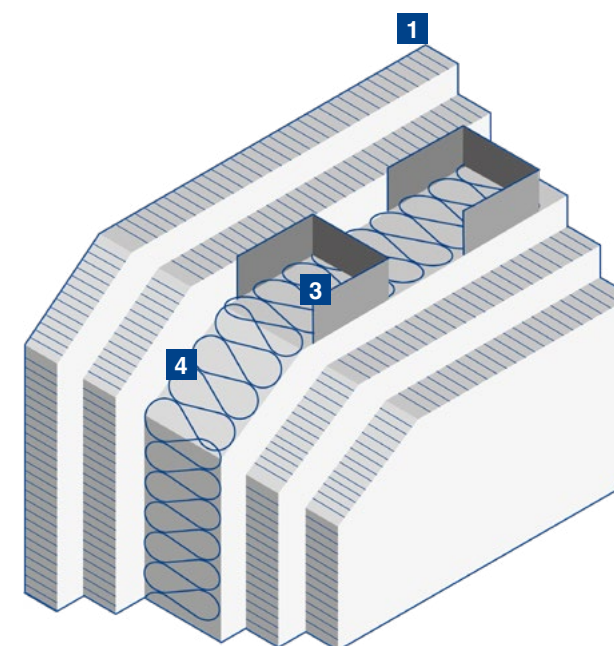
## Sound insulation in accordance with ISO 10140 when wall mounted Total wall thickness 155mm



- 1 GKP 12.5 mm
- 2 GKP 12.5 mm
- 3 2x CW profile 50mm
- 4 2x insulation 40mm
- 5 Profile distance 5mm

Sound reduction index without socket boxes:  
**63 dB**  
Sound reduction index with f-tronic® SP3700:  
**63 dB**

## Total wall thickness 100mm



- 1 GKP 12.5 mm
- 2 GKP 12.5 mm
- 3 CW profile 50mm
- 4 Insulation 40mm

Sound reduction index without socket boxes:  
**55 dB**  
Sound reduction index with f-tronic® SP3700:  
**55 dB**



Fire protection socket box with push-through membrane, airtight



Type	BS2000	BS2700	BS3500	BS3700
Version	Fire protection device socket	Fire protection device socket	Fire protection device connection box	Fire protection device connection box
Item no.	7500045	7500042	7500044	7500043
SU / CB / PL	10 / 250 / 4,000	10 / 250 / 4,000	10 / 200 / 3,200	10 / 200 / 3,200
Milling hole	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
Panel thickness	5 - 40 mm	5 - 40 mm	5 - 40 mm	5 - 40 mm
Depth	50 mm	50 mm	62 mm	62 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP / TPE-S	PP / TPE-S	PP / TPE-S	PP / TPE-S
Cable entry 3 x 1.5 <sup>2</sup>	-	2	-	2
5 x 1.5 <sup>2</sup> / 3 x 2.5 <sup>2</sup>	-	2	-	2
Pipe entry	4x ≤ M20	2x ≤ M25	4x ≤ M20	2x ≤ M25
Accessories	per unit incl. 5x E105HF	per unit incl. 5x E105HF	per unit incl. 5x E105HF	per unit incl. 5x E105HF

More about this on page 66

Fire protection box for timber construction



Type	BS2000TC	BS2700TC	BS3500TC	BS3700TC
Version	Fire protection device socket for timber construction	Fire protection device socket for timber construction	Fire protection device connection socket for timber construction	Fire protection device connection socket for timber construction
Item no.	7500065	7500062	7500064	7500063
SU / CB / PL	10 / 250 / 4,000	10 / 250 / 4,000	10 / 200 / 3,200	10 / 200 / 3,200
Milling hole	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
Panel thickness	≥ 10 mm	≥ 10 mm	≥ 10 mm	≥ 10 mm
Depth	50 mm	50 mm	62 mm	62 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP / TPE-S	PP / TPE-S	PP / TPE-S	PP / TPE-S
Cable entry 3x 1.5 <sup>2</sup>	-	2	-	2
5x 1.5 <sup>2</sup> / 3x 2.5 <sup>2</sup>	-	2	-	2
Pipe entry	4x ≤ M20	2x ≤ M25	4x ≤ M20	2x ≤ M25
Accessories	per unit incl. 5x E105HF	per unit incl. 5x E105HF	per unit incl. 5x E105HF	per unit incl. 5x E105HF

More about this on page 68

Fire protection socket box milling hole Ø 74mm



Type	BS115	BS117	BS118
Version	Fire protection device socket	Fire protection device connection box	Double fire protection device connection box
Item no.	7500001	7500002	7500003
SU / CB / PL	12 / 192 / 3,744	12 / 192 / 3,744	6 / 96 / 1,584
Milling hole	Ø 74 mm	Ø 74 mm	2 x Ø 74 mm
Depth	45 mm	54 mm	54 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Cable entry	2 to Ø 14.4mm	4 to Ø 11.6mm	4 to Ø 11.6mm
Pipe entry M20	-	4	-

More about this on page 70

Fire protection outlet box



Type	BS134
Version	Outlet box
Item no.	7500057
SU / CB / PL	10 / 500 / 10,000
Milling hole	Ø 35 mm
Cable entry	2
Pipe entry M25	1
max. cross section	2.5 mm <sup>2</sup>
Accessories	incl. cover

More about this on page 72

## Grips tightly Stays in the wood



- Installation box with robust housing
- Fastening using TC claws, which anchor themselves in the wood
- Airtight with 2K membrane technology
- Easy to install, due to tool-free cable and pipe insertion
- Integrated cable retention for NYM cables
- Cost-effective, standard-compliant solution for solid timber, cross-laminated timber and hybrid construction
- Simple and quick assembly



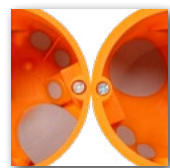
### 1 TC fastening technology

The patented TC system anchors itself in the wood using a metal claw and is therefore stable and secure.



### 2 Problem with HW sockets

In solid or hybrid wood buildings where the panel thickness is more than 40 mm, conventional installation boxes for hollow wall installation cannot be installed or fastened.



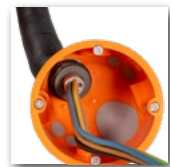
### 3 High stability

The higher material thickness of the TC installation boxes guarantees stability and durability.



### 4 Tool-free insertions

Due to the 2K membrane, tool-free pipe and cable insertion is made possible, which simplifies assembly and enables a time saving of up to 60%.



### 5 Energy efficiency

The airtight membrane prevents unwanted draughts in hollow walls and thus increases energy efficiency in buildings. Optionally in combination with sealing plugs (p. 45).



Type	E3700TC	E3700TCHF
Version	Device connection socket for timber construction	Device connection socket for timber construction, halogen-free
Item no.	7360072	7360073
SU / CB / PL	10 / 200 / 4,000	10 / 200 / 4,000
Milling hole	Ø 68 mm	Ø 68 mm
Panel thickness	≥ 10mm	≥ 10mm
Depth	62 mm	62 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP / TPE	PP / TPE
Cable entry 3x 1.5 <sup>2</sup>	2	2
5x 1.5 <sup>2</sup> / 3x 2.5 <sup>2</sup>	2	2
Pipe entry ≤ M25	2	2
Accessories	per VE unit incl. 5x E105	per unit incl. 5x E105HF

## Universal fixing Clever attachment for FM boxes

- Can be combined with the standard flush mounted box from the f-tronic® range thanks to its unique plug-in system
- Nail straps for fitting providing more flexibility during installation
- Saves on stock duplication

### Assembly instructions



Type	E104
Version	Nail tab
Item no.	7390069
SU / CB / PL	50 / 1,000 / 48,000
suitable for	FM socket boxes E106M25, E107M25, E1062K, E1072K
Length	45 mm
Material	PS

## Marking in the plaster

Protects and keeps clean

- For easy retrieval of device and connection sockets after plastering
- Reusable
- Protects the socket box interior, the screw and bolt heads upon plastering



Type	E120	E121	E122	WADSD
Version	Signal cover	Signal cover	Signal cover, Austria	Signal cover for UWAD
Item no.	7390024	7390026	7390027	7390144
SU / CB / PL	50 / 1,500 / 30,000	50 / 1,000 / 20,000	50 / 1,000 / 20,000	50 / 1,000 / -
suitable for	FM socket boxes with screw spacing 60 mm	FM socket boxes with screw spacing 70 mm	E810, E811	UWAD
Material	PE	PE	PE	PE

## Extends the installation

Adapts to any situation

- To compensate for deep-seated device and connection boxes
- With preassembled device screws (length 15mm)
- Plaster levelling rings with the same diameter can be mounted to each other



Type	E130	E131	E132	E133
Version	Plaster levelling ring	Plaster levelling ring	Plaster levelling ring	Plaster levelling ring
Item no.	7390028	7390032	7390033	7390035
SU / CB / PL	50 / 1,200 / 24,000	50 / 1,000 / 20,000	50 / 500 / 10,000	50 / 400 / 8,000
suitable for	FM socket boxes with screw spacing 60 mm	FM socket boxes with screw spacing 70 mm	FM socket boxes with screw spacing 60 mm	FM socket boxes with screw spacing 70 mm
Depth	12 mm	12 mm	24 mm	24 mm
Material	PS	PS	PS	PS



Universal cover



Type	E112H	E109A	E109
Version	Screw lid	Pen-in lid spring	Pen-in lid spring
Item no.	7390022	7390016	7390015
SU / CB / PL	50 / 1,000 / 32,000	50 / 1,000 / 20,000	50 / 800 / 16,000
suitable for	socket boxes with screw spacing 60 and 70mm	FM socket boxes with screw spacing 60 mm	FM connection socket boxes with screw spacing 60 and 70mm
Accessories	Incl. 2 screws	-	-
Material	PS	PS	PS



Partition wall



Type	E817	E551
Version	Partition wall	Partition wall
Item no.	7390112	7390120
SU / CB / PL	10 / 1,000 / -	10 / 1,000 / -
suitable for	E815 / E816	E550
Material	PS	PP



Connecting pieces



Type	E105	E105HF	E150
Version	Connecting pieces	Connecting pieces, halogen-free	Connecting pieces
Item no.	7390075	7390091	7390093
SU / CB / PL	25 / 500 / 160,000	25 / 500 / 160,000	50 / 5,000 / 160,000
suitable for	HW-sockets E115, E117, E135, E2700, E3700, E3500, SP3700, E3700TC	Halogen-free HW sockets E115HF, E117HF, E2700HF, E3700HF, E3500HF, SP3700HF, E3700TCHF, BS3700, BS2000, BS3500, BS2700, BS3700TC, BS2000TC, BS3500TC, BS2700TC	HW-sockets E118, E860, E870
Material	PP	PP	PP

Device screw box

## Order and clarity

practical box for device screws

- No more loose screws
- Always have the right screw to hand
- With twist-close cover



Type	GKSB
Version	Device screw box
Item no.	9920025
SU / CB / PL	1 / 5 / 600
Content	100x device screw combi cross-head 3.2 x 15 mm 100x device screw combi cross-head 3.2 x 25 mm 100x device screw combi cross-head 3.2 x 40 mm

Device screws



Type	GKS15	GKS25	GKS40
Version	Combi-cross head Device screw	Device screw Combi-cross head	Device screw Combi-cross head
Item no.	9920022	9920023	9920024
SU / CB / PL	100 / 20,000 / 480,000	100 / 15,000 / 360,000	100 / 10,000 / 240,000
Dimensions	3.2 x 15mm	3.2 x 25mm	3.2 x 40mm
Head shape	Combi-cross head	Combi-cross head	Combi-cross head
Material	Steel	Steel	Steel





## Perfect alignment

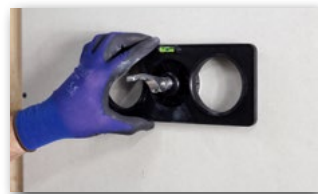
All boxes on a single level

- Straight and pFMise
- Faster and more accurate work
- Any combination is possible
- Integrated levels for alignment
- Quick-close system

### Assembly instructions



1 Drill the middle hole.



2 PFMise alignment with the integrated spirit level and fastening of the drilling template with the tensioner.



3 Then drill through the existing hole inserts.



Type	BOS2
Version	Drilling template for CW with plastic socket box
Item no.	7390048
SU / CB / PL	1 / 42 / 840
Material	PP
Diameter	Ø 68 mm



## Tested to be airtight

Energy efficiency for FM & CW

- For all flexible insulating tubes
- Can be used subsequently for airtight sealing of pipes
- Simple and reliable
- Can be optimally used in combination with airtight installation boxes



### Application



Type	E06	E07	E08	E09	E10
Version	Sealing plug M16	Sealing plug M20	Sealing plug M25	Sealing plug M32	Sealing plug M40
Item no.	9930014	9930015	9930016	9930017	9930018
SU / CB / PL	50 / 6,000 / 192,000	50 / 5,000 / 100,000	50 / 4,500 / 90,000	50 / 1,500 / 24,000	50 / 1,000 / 24,000
Pipe diameter exterior	Ø 16 mm	Ø 20 mm	Ø 25 mm	Ø 32 mm	Ø 40 mm
Pipe diameter interior	Ø 11 mm	Ø 15 mm	Ø 19.5mm	Ø 25 mm	Ø 31.5mm
max. Cable diameter	Ø 6 mm	Ø 10 mm	Ø 14mm	Ø 18mm	Ø 25 mm
Material	TPE	TPE	TPE	TPE	TPE

## Controllably stable

Firm hold for pipes



### Application



**1** The pipe socket can simply be plugged onto the corresponding pipe.



**2** The tube can be inserted as far as it will go so that the two ends meet in the middle.



**3** Due to the transparency of the socket and the integrated stop point, the connection of the pipes can be checked.



Type	RM20	RM25	RM32
Version	Pipe socket	Pipe socket	Pipe socket
Item no.	7400032	7400033	7400034
SU / CB / PL	25/300/21.600	25 / 250 / 18,000	25/150/10.800
suitable for	M20	M25	M32
Material	PP	PP	PP

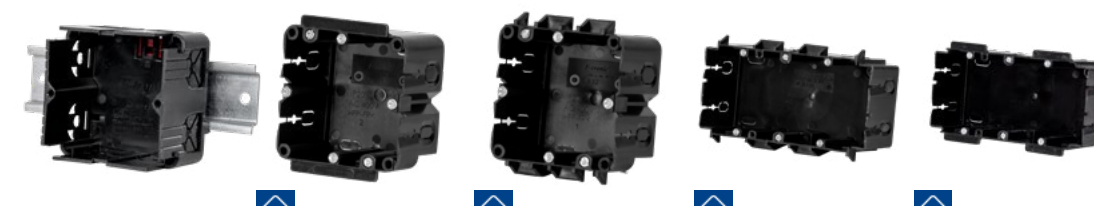
## Ceiling canopy

Discreet branching

- Made of impact-resistant plastic
- Bottom part with four pre-punched cable outlets
- Incl. Strain relief
- Cover with quick-close
- With marked fixing points for countersunk screws
- With elongated holes for custom fastening



Type	DB2ws
Version	Ceiling canopy
Item no.	7330017
SU / CB / PL	1 / 100 / 6,000
Diameter	Ø 74 mm
Depth	25 mm
max. cross section	2.5 mm <sup>2</sup>
Material	PS
Inserts	5
Accessories	incl. strain relief
Colour	white



Type	E830	E831	E832	E833	E834
Version	floor-mounted Cable channel box	suspended Cable channel box	terminal end Cable channel box	terminal end Cable channel box	suspended Cable channel box
Item no.	7370008	7370037	7370038	7370039	7370040
SU / CB / PL	20 / 200 / 4,000	20 / 200 / 4,000	20 / 200 / 4,000	10 / 100 / 2,000	10 / 100 / 2,000
H x W x D	68 x 68 x 47 mm	68 x 68 x 47 mm	68 x 68 x 47 mm	68 x 142 x 47 mm	68 x 142 x 47 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP	PP	PP	PP	PP
Inserts	4	4	4	4	4
Suitable for B-Line parapet channel	✓	-	-	-	-
Rehau Signo BK, BS, BA	-	✓	-	-	✓
Gewiss parapet channel	-	✓	-	-	✓
Licatec installation channel BR	-	✓	-	-	✓
Licatec Installation channel BRS-F	-	-	✓	✓	-

# Maximum wiring space

## Maximum variability



- Easy to install
- With up to 22 self-sealing cut-off cable entries for cables up to 5 x 2.5 mm<sup>2</sup>
- External mounting straps with transverse and longitudinal holes for subsequent alignment



### 1 Mounting tab

With transverse and oblong hole for subsequent alignment and for fastening with cable ties.



### 2 Insertion

Flexible cable entry options to the side and on the ground.



### 3 Protection class IP54

The distribution box series meets the requirements of protection class IP54.



### 4 Stability

Stable housing and reinforced lid counteract slight twisting.



Type	E126	E126ws	E125
Version	Distribution box	Distribution box	Distribution box
Item no.	7340141	7340058	7340139
SU / CB / PL	10 / 300 / 6,000	10 / 300 / 6,000	10 / 200 / 4,000
H x W x D	85 x 44 x 40 mm	85 x 44 x 40 mm	75 x 75 x 40mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PE	PE	PE
Total inserts	12	12	15
Inserts at the side	2	10	12
Ground inserts	2	2	3
Colour	grey	white	grey



Type	E113	E113ws	E113gn	E113rt
Version	Distribution box	Distribution box	Distribution box	Distribution box
Item no.	7340038	7340043	7340110	7340111
SU / CB / PL	10 / 150 / 3,000	10 / 150 / 3,000	10 / 150 / 3,000	10 / 150 / 3,000
H x W x D	85 x 85 x 40 mm	85 x 85 x 40 mm	85 x 85 x 40 mm	85 x 85 x 40 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PE	PE	PE	PE
Total inserts	15	15	15	15
Inserts at the side	12	12	12	12
Ground inserts	3	3	3	3
Colour	grey	white	green	red



Type	E113sw	E114	E128	E128ws
Version	Distribution box	Distribution box	Distribution box	Distribution box
Item no.	7340134	7340044	7340149	7340154
SU / CB / PL	10 / 150 / 3,000	10 / 100 / 2,000	5 / 100 / 2,000	5 / 100 / 2,000
H x W x D	85 x 85 x 40 mm	100 x 100 x 40 mm	134 x 89 x 40 mm	134 x 89 x 40 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PE	PE/PP	PE	PE
Total inserts	15	12	22	22
Inserts at the side	12	12	16	16
Ground inserts	3	-	6	6
Colour	black	grey	grey	white

Insertion cutter

# Targeted opening

## Easy to use

- Defined opening of the cable entries
- Easy to use
- Ergonomic design

### Application



Type	f-cutter
Version	Insertion cutter
Item no.	7390109
SU / CB / PL	10 / 200 / -
Material	PC



## Easy to use

### Stable design



- Easy to install
- Easy to use - no need for expensive, additional tools
- With integrated puncture membrane on all four sides
- With back membrane introduction Cables of up to 5x 25mm<sup>2</sup>
- Version with and without fixing straps



#### 1 Mounting tab

With transverse and oblong hole for subsequent alignment and for fastening with cable ties.



#### 2 Floor entry

Two floor entries for cables up to Ø 14 mm.



#### 3 Internal fastening

Versatile mounting options; with screws also from the inside.



#### 4 Tool-free and strong

Tool-free introduction and increased stability makes installation particularly convenient.



Type	E1200	E1200w	E1200sw	E1200rt	E1200gn
Version	Distribution box	Distribution box	Distribution box	Distribution box	Distribution box
Item no.	7340157	7340158	7340165	7340163	7340164
SU / CB / PL	10 / 180 / 3,600	10 / 180 / 3,600	10 / 180 / 3,600	10 / 180 / 3,600	10 / 180 / 3,600
H x W x D	80 x 80 x 37 mm	80 x 80 x 37 mm	80 x 80 x 37 mm	80 x 80 x 37 mm	80 x 80 x 37 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP / TPE	PP / TPE	PP / TPE	PP / TPE	PP / TPE
Insertion	2	2	2	2	2
7x 1.5 <sup>2</sup> / 5x 2.5 <sup>2</sup>	12	12	12	12	12
Colour	grey	white	black	red	green
Mounting tab	✓	✓	✓	✓	✓



Type	E1210	E1210w	E1210sw	E1210rt	E1210gn
Version	Distribution box	Distribution box	Distribution box	Distribution box	Distribution box
Item no.	7340159	7340160	7340168	7340166	7340167
SU / CB / PL	10 / 180 / 3,600	10 / 180 / 3,600	10 / 180 / 3,600	10 / 180 / 3,600	10 / 180 / 3,600
H x W x D	80 x 80 x 37 mm	80 x 80 x 37 mm	80 x 80 x 37 mm	80 x 80 x 37 mm	80 x 80 x 37 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP / TPE	PP / TPE	PP / TPE	PP / TPE	PP / TPE
Insertion	2	2	2	2	2
7x 1.5 <sup>2</sup> / 5x 2.5 <sup>2</sup>	12	12	12	12	12
Colour	grey	white	black	red	green
Mounting tab	-	-	-	-	-
Accessories (incl.)	2x insulating plugs	2x insulating plugs	2x insulating plugs	2x insulating plugs	2x insulating plugs

Damp area distribution box IP66

# NEPTUN Compact

Small size. Great resistance.

- Robust housing in a modern design
- Screws with assembly position
- Diverse break-out entries M20-M40
- IP66 protection class with all-round seal
- Individual mounting options for perfect alignment
- Membrane entry on NFK08
- 4 different sizes
- Use in damp areas and in protected outdoor areas



### 1 Screw plugs with assembly position

Open the screws with a 1/4 turn. Quick disassembly and assembly guaranteed.



### 3 Circumferential seal

A circumferential seal enables compliance with protection class IP66.



### 5 External fastening

The fixing tabs are to be attached to the back of the boxes. The tabs are included in the scope of delivery for all boxes.



### 7 Entry M20 - M40

Pre-punched knockout openings in various sizes from M20 to M40.



### 2 Sealable

At the opposite corners, the damp area distribution boxes are prepared for sealing.



### 4 Membrane entry on NFK08

Time-saving insertion of cables and wires due to membrane entry.



### 6 Internal fastening

Fixing points with transverse and oblong hole for aligning the box. Insulating plugs included in the scope of delivery.



### 8 Flat cover

Flat cover surface for mounting additional devices such as switches or plugs.



# NEPTUN Compact

Small size. Great resistance.



Type	NFK08gr	NFK11gr	NFK14gr	NFK18gr
Version	Damp area distribution box	Damp area distribution box	Damp area distribution box	Damp area distribution box
Item no.	7340190	7340191	7340192	7340193
SU / CB / PL	1 / 72 / 2,304	1 / 36 / 1,152	1 / 20 / 640	1 / 12 / 384
H x W x D	85 x 85 x 54 mm	110 x 110 x 67 mm	140 x 140 x 81 mm	180 x 180 x 93 mm
Material	PS	PS	PS	PS
max. cross section	4 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>
Entry ≤ M20	7	-	-	-
Entry M20	-	2	2	2
Entry M20 / M25	-	7	5	2
Entry M25 / M32	-	-	5	5
Entry M25 / M32 / M40	-	-	-	5
Colour	grey	grey	grey	grey
Equipped with	2x external fixing tab	3x double-membrane seals M20 (DMS20), 2x double-membrane seals M25 (DMS25), 2x screw cover, 2x external fixing tab	2x double-membrane seals M20 (DMS20), 2x double-membrane seals M25 (DMS25), 2x double-membrane seals M32 (DMS32), 4x screw cover, 2x external fixing tab	2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 3x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing tab

# NEPTUN Compact

Small size. Great resistance.



Type	NFK08ws	NFK11ws	NFK14ws	NFK18ws
Version	Damp area distribution box	Damp area distribution box	Damp area distribution box	Damp area distribution box
Item no.	7340198	7340199	7340200	7340201
SU / CB / PL	1 / 72 / 2,304	1 / 36 / 1,152	1 / 20 / 640	1 / 12 / 384
H x W x D	85 x 85 x 54 mm	110 x 110 x 67 mm	140 x 140 x 81 mm	180 x 180 x 93 mm
Material	PS	PS	PS	PS
max. cross section	4 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>
Entry ≤ M20	7	-	-	-
Entry M20	-	2	2	2
Entry M20 / M25	-	7	5	2
Entry M25 / M32	-	-	5	5
Entry M25 / M32 / M40	-	-	-	5
Colour	white	white	white	white
Equipped with	2x external fixing tab	3x double-membrane seals M20 (DMS20ws), 2x double-membrane seals M25 (DMS25ws), 2x screw cover, 2x external fixing tab	2x double-membrane seals M20 (DMS20ws), 2x double-membrane seals M25 (DMS25ws), 2x double-membrane seals M32 (DMS32ws), 4x screw cover, 2x external fixing tab	2x double-membrane seals M20 (DMS20ws), 2x double-membrane seals M25 (DMS25ws), 3x double-membrane seals M32 (DMS32ws), 4x screw cover, 2x external fixing tab

# NEPTUN Compact

Small size. Great resistance.



Type	NFK08SB	NFK11SB	NFK14SB	NFK18SB
Version	Damp area distribution box for safety lighting	Damp area distribution box for safety lighting	Damp area distribution box for safety lighting	Damp area distribution box for safety lighting
Item no.	7340210	7340211	7340212	7340213
SU / CB / PL	1 / 72 / 2,304	1 / 36 / 1,152	1 / 20 / 640	1 / 12 / 384
H x W x D	85 x 85 x 54 mm	110 x 110 x 67 mm	140 x 140 x 81 mm	180 x 180 x 93 mm
Material	PS	PS	PS	PS
max. cross section	4 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>
Entry ≤M20	7	-	-	-
Entry M20	-	2	2	2
Entry M20 / M25	-	7	5	2
Entry M25 / M32	-	-	5	5
Entry M25 / M32 / M40	-	-	-	5
Colour	grey / red	grey / red	grey / red	grey / red
Equipped with	2x external fixing tab	3x double-membrane seals M20 (DMS20), 2x double-membrane seals M25 (DMS25), 2x screw cover, 2x external fixing tab	2x double-membrane seals M20 (DMS20), 2x double-membrane seals M25 (DMS25), 2x double-membrane seals M32 (DMS32), 4x screw cover, 2x external fixing tab	2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 3x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing tab

# NEPTUN Compact

Small size. Great resistance.



Type	NFK08gr-K4	NFK11gr-K4	NFK14gr-K6	NFK18gr-K6
Version	Damp area distribution box with clamps	Damp area distribution box with clamps	Damp area distribution box with clamps	Damp area distribution box with clamps
Item no.	7340228	7340229	7340230	7340231
SU / CB / PL	1 / 72 / 2,304	1 / 36 / 1,152	1 / 20 / 640	1 / 12 / 384
H x W x D	85 x 85 x 54 mm	110 x 110 x 67 mm	140 x 140 x 81 mm	180 x 180 x 93 mm
Material	PS	PS	PS	PS
max. cross section	4 mm <sup>2</sup>	6 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>
Entry ≤ M20	7	-	-	-
Entry M20	-	2	2	2
Entry M20 / M25	-	7	5	2
Entry M25 / M32	-	-	5	5
Entry M25 / M32 / M40	-	-	-	5
Colour	grey	grey	grey	grey
Equipped with	5x 3-conductor connection clamp 4mm <sup>2</sup> , 1x clamp holder, 2x external fixing tab	5x 3-conductor connection clamp 4mm <sup>2</sup> , 1x clamp holder, 3x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 2x screw cover, 2x external fixing tab	5x 3-conductor connection clamp 6mm <sup>2</sup> , 1x clamp holder, 2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 2x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing tab	5x 3-conductor connection clamp 6mm <sup>2</sup> , 1x clamp holder, 2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 3x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing tab



# NEPTUN Compact

Small size. Great resistance.



Type	NFK18gr-HLAK4p25	NFK18gr-HLAK5p25
Version	Damp area distribution box with HLAK	Damp area distribution box with HLAK
Item No.	7340232	7340233
SU / CB / PL	1 / 12 / 384	1 / 12 / 384
H x W x D	180 x 180 x 93 mm	180 x 180 x 93 mm
Material	PS	PS
max. cross section	16 mm <sup>2</sup>	16 mm <sup>2</sup>
Entry ≤ M20	-	-
Entry M20	2	2
Entry M20 / M25	2	2
Entry M25 / M32	5	5
Entry M25 / M32 / M40	5	5
Colour	grey	grey
Equipped with	5x main cable junction terminal 4-pin 25mm <sup>2</sup> , 1x DIN rail (NCHS18), 2x double-membrane seals M20 (DMS20), 2x double-membrane seals M25 (DMS25), 3x double-membrane seals M32 (DMS32), 4x screw cover, 2x external fixing tab	5x main cable junction terminal 5-pin 25mm <sup>2</sup> , 1x DIN rail (NCHS18), 2x double-membrane seals M20 (DMS20), 2x double-membrane seals M25 (DMS25), 3x double-membrane seals M32 (DMS32), 4x screw cover, 2x external fixing tab

## Application options

in NFK08



in NFK11



in NFK14



## Application options

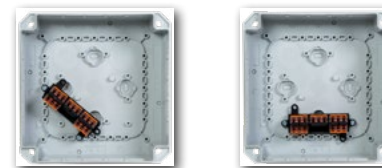
in NFK11



in NFK14



in NFK18



Type	NCKH4	NCKH6
Version	Clamp holder	Clamp holder
Item no.	7390147	7390148
SU / CB / PL	5 / 250 / -	5 / 250 / -
Material	PA6	PA6
Colour	black	black
suitable for	WAGO connection clamps 4 mm <sup>2</sup>	WAGO connection clamps 6 mm <sup>2</sup>
suitable for	NFK08, NFK11 and NFK14 variants	NFK11, NFK14 and NFK18 variants



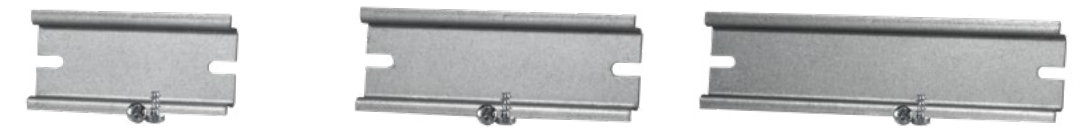
Type	DMS20	DMS25	DMS32
Version	double-membrane seals M20	double-membrane seals M25	double-membrane seals M32
Item no.	7290059	7290060	7290061
SU / CB / PL	20 / 1,000 / 64,000	20 / 800 / 51,200	20 / 600 / 38,400
Material	PVC	PVC	PVC
Colour	grey	grey	grey
Cable diameter	Ø 7 - 12 mm	Ø 12 - 18 mm	Ø 14 - 23 mm



Type	DMS20ws	DMS25ws	DMS32ws
Version	double-membrane seals M20	double-membrane seals M25	double-membrane seals M32
Item no.	7290223	7290224	7290225
SU / CB / PL	20 / 1,000 / 64,000	20 / 800 / 51,200	20 / 600 / 38,400
Material	PVC	PVC	PVC
Colour	white	white	white
Cable diameter	Ø 7 - 12 mm	Ø 12 - 18 mm	Ø 14 - 23 mm



Type	NCMB
Version	Mast attachment
Item no.	7390140
SU / CB / PL	1 / - / -
Suitable for	NEPTUN Compact distribution boxes
Kit Contents	1x mast mounting, 2x screw, 1x clamp Ø 60-180mm



Type	NCHS11	NCHS14	NCHS18
Version	DIN rail	DIN rail	DIN rail
Item no.	7390137	7390138	7390139
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -
Suitable for	NFK11 variants	NKF14 versions	NKF18 versions
Kit Contents	1x top hat rail, 2x screw	1x top hat rail, 2x screw	1x top hat rail, 2x screw



Type	NCMP11	NCMP14	NCMP18
Version	Mounting plate	Mounting plate	Mounting plate
Item no.	7390141	7390142	7390143
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -
Suitable for	NFK11 variants	NKF14 versions	NKF18 versions
Kit Contents	1x mounting plate, 4x screw	1x mounting plate, 4x screw	1x mounting plate, 4x screw

## Energy efficient and time-saving in processing



- Large time and cost savings
- Quick and easy installation
- No additional sealing and insulation work required
- Multiple fastening options
- Homogeneous, free of thermal bridges, compact frontage
- High individual and overall stability
- Full integration into the frontage
- No discolouration or condensation on the frontage, no mould or algae

### Assembly instructions



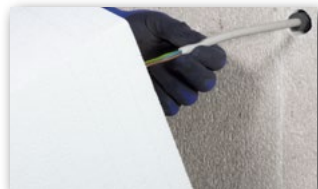
- 1** Adjust insulation thickness. 80 - 200 mm thickness possible.



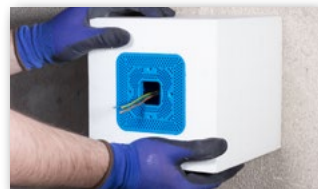
- 2** Cut pipe flush with the wall.



- 3** Apply TIE-hybrid adhesive in thin, bead form (5-6mm).

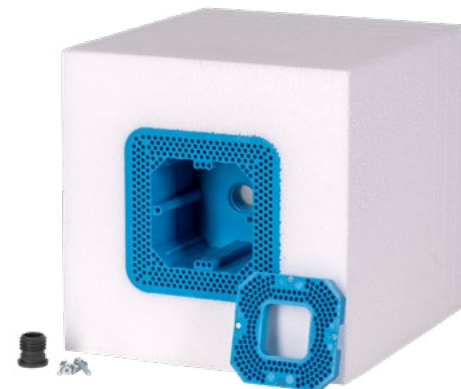


- 1** Insert line into the pre-drilled entry hole.



- 2** Press in component. Setting time after about 2 minutes.

Type	EPS20-MULTI
Version	TIE 2.0 multifunction Device socket
Item no.	7810041
SU / CB / PL	1 / 12 / 192
H x W x D	184 x 184 x 205 mm
Length	45 mm
for insulation	80-200mm
max. cross section	2.5 mm <sup>2</sup>
Material	PU
Properties	Single device socket and Device carrier plate up to 180 NM
Pre-drilled cable bushing	Ø 10 mm
Thermal insulation capacity U (with insulation layer 200 mm)	0.17 W / (m <sup>2</sup> · K)



- cured after only 24 hours



Type	251-KL
Version	Hybrid glue
Item no.	7810014
SU / CB / PL	1 / 20 / 360
Quantity	310ml
enough for	about 12 system elements
Setting time	1 - 2 Min.

- Alternatively, for rapid adhesive mounting, we also offer mounting brackets with nail or screw fastenings



Type	252-WK
Version	TIE-mounting bracket
Item no.	7810042
SU / CB / PL	1 / 10 / 4,000
Material	Steel
Kit Contents	2 pieces



# Fire protection systems

Intelligent technology that protects

At f-tronic®, we guarantee effective protection with our fire protection socket boxes and ensure that the properties of the fire protection walls are maintained for up to 120 minutes. And with a remarkably simple installation, which even allows an opposing installation and retrofitting.

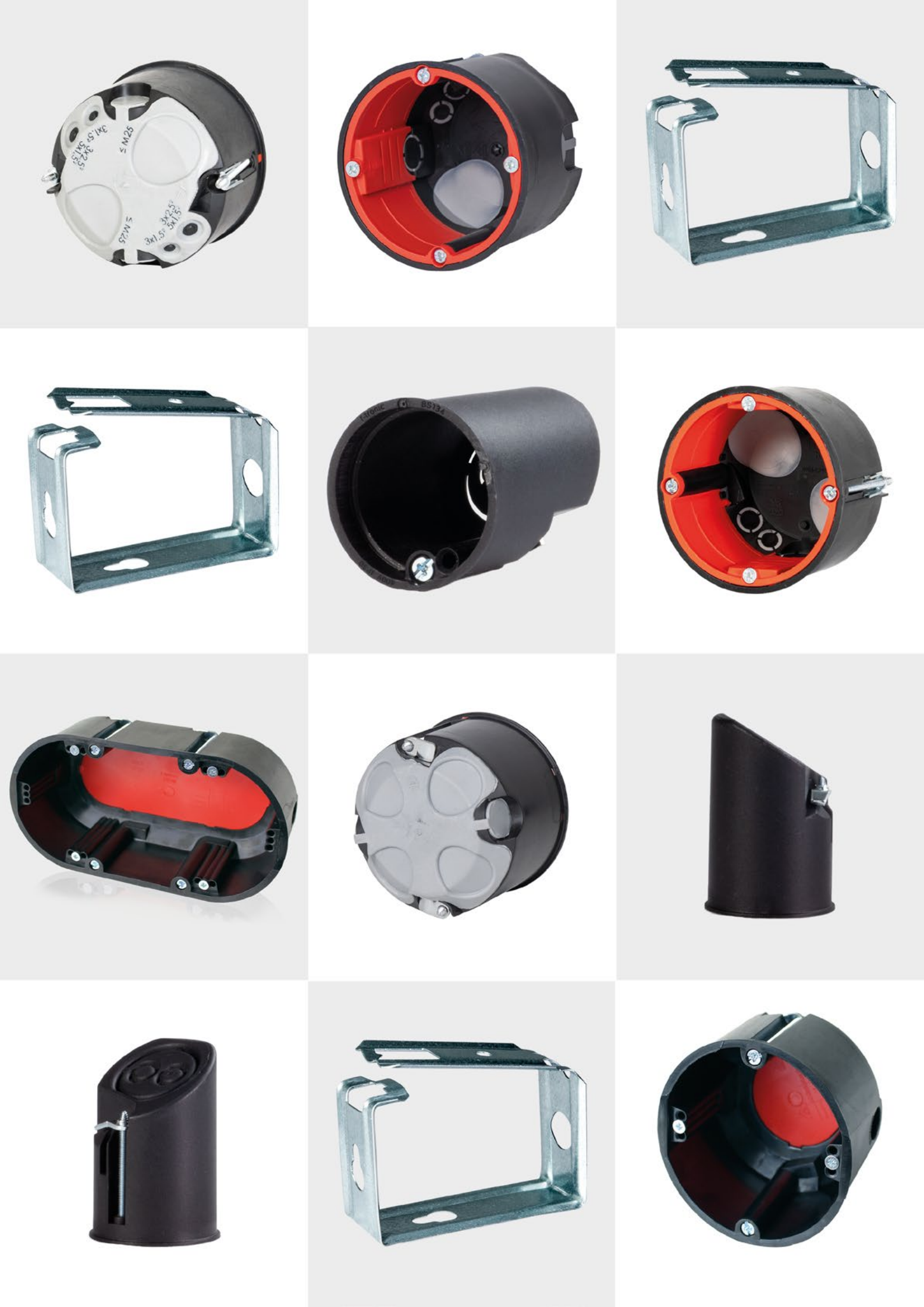
Stay safe when it matters: Our fire protection boxes range is certified Europe-wide. In this way, you not only ensure compliance with legal fire protection requirements, but also verifiable safety in rooms and escape routes, especially in the area of public facilities such as hospitals, schools and kindergartens.

To protect personal safety in case of fire, it is important that the use of escape routes and access for fire and rescue service is guaranteed for as long as possible. Our fire protection products are designed to do just that. With the first fire protection outlet box on the market, we are the first provider for outlets or entries of cables and conduits from fire protection sections.

However, when developing products, we don't just take the standard installation environments into account. We also design and test our products in timber construction and shaft walls, as well as in ceilings of fire compartments. Our internal engineering department recently developed a new installation box for fire protection, which can be installed in solid or hybrid timber buildings with a panel thickness > 40 mm using the patented TC fastening.

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- Fastening system with functional endurance.....74



Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems





## The triathlete among socket boxes

- Fire protection, sound insulation, airtight
- DIBt Z-19.21-2283
- ETA-18/0628
- Opposing installation and retrofitting possible
- tested for up to 5-fold combinations
- Lightweight wall:
  - fire resistance class EI120
  - fire resistance class EI30 to EI60 without insulating wool
- Lightweight wall with OSB and wood fibre insulation up to EI60
- Cross laminated timber wall up to EI90
- Shaft wall up to EI90



**1 Labelled entries**  
The rear-mounted labelling allows easy and correct allocation of suitable pipe and cable entries.

**3 Sound-insulating**  
Despite their compact construction, fire protection socket boxes of the latest generation from f-tronic® meet the sound insulation requirements of DIN EN ISO 10140.

**5 Easy to install**  
Compliance with the standard milling hole diameter of 68mm allows quick and easy installation, as well as trouble-free stacking, without additional effort.

**2 Smoke containment**  
Its airtight construction, in case of fire, even before the temperature-induced activation of the intrinsic fire protection function, provides for the reliable prevention of smoke spreading inside the building.

**4 No tools**  
Due to the 2K membrane, tool-free pipe and cable insertion is made possible, which simplifies assembly and enables a time saving of up to 60%.

**6 Energy efficient**  
The airtight membrane prevents unwanted draughts in hollow walls and thus increases energy efficiency in buildings. Optionally in combination with sealing plugs (p. 45)

## Operation of the fire protection socket box

- Upon reaching the critical temperature, the socket box reacts and forms an insulating layer.
- The interior of the socket box is definitely closed from the inside to the outside.
- The socket box remains dimensionally stable in accordance with the fire resistance class.



Type	BS2000	BS2700	BS3500	BS3700
Version	Fire protection device socket	Fire protection device socket	Fire protection device connection socket	Fire protection device connection socket
Item no.	7500045	7500042	7500044	7500043
SU / CB / PL	10 / 250 / 4,000	10 / 250 / 4,000	10 / 200 / 3,200	10 / 200 / 3,200
Milling hole	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
Panel thickness	5 - 40 mm	5 - 40 mm	5 - 40 mm	5 - 40 mm
Depth	50 mm	50 mm	62 mm	62 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	PP / TPE-S	PP / TPE-S	PP / TPE-S	PP / TPE-S
Cable entry 3 x 1.5 <sup>2</sup>	-	2	-	2
5 x 1.5 <sup>2</sup> / 3 x 2.5 <sup>2</sup>	-	2	-	2
Conduit entry	4x ≤ M20	2x ≤ M25	4x ≤ M20	2x ≤ M25
Accessories	per unit incl. 5x E105HF	per unit incl. 5x E105HF	per unit incl. 5x E105HF	per unit incl. 5x E105HF

NEU

# Fire protection socket boxes

## Fire resistance for timber construction



- Fire protection installation boxes for cross-laminated timber construction
- Fastening using TC claws, which anchor themselves in the wood
- Fire protection, sound insulation, airtight
- ETA-18/0628
- Safe, standard-compliant solution
- Fire resistance class up to EI90



### 1 TC fastening system

The patented TC system is anchored in the wood by means of a metal claw and is therefore stable and secure.



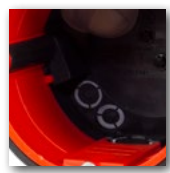
### 2 Problem definition of HW sockets

In solid or hybrid wooden buildings where the panel thickness is greater than 40 mm, conventional installation boxes for hollow wall installation cannot be installed or fastened.



### 3 Labelled entries

The rear-mounted labelling allows easy and correct allocation of suitable pipe and cable entries.



### 4 Smoke containment

In the event of a fire, the airtight construction reliably prevents the spread of smoke in the building before the actual fire protection function is triggered due to temperature.



### 5 Tool-free entries

Due to the 2K membrane, tool-free pipe and cable insertion is made possible, which simplifies assembly and enables a time saving of up to 60%.



### 6 Energy efficiency

The airtight membrane prevents unwanted draughts in hollow walls and thus increases energy efficiency in buildings. Optionally in combination with sealing plugs (p. 45)



Type	BS2000TC	BS2700TC	BS3500TC	BS3700TC
Version	Fire protection device socket for timber construction	Fire protection device socket for timber construction	Fire protection device connection socket for timber construction	Fire protection device connection socket for timber construction
Item no.	7500065	7500062	7500064	7500063
SU / CB / PL	10 / 250 / 4,000	10 / 250 / 4,000	10 / 200 / 3,200	10 / 200 / 3,200
Milling hole	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
Panel thickness	≥ 10 mm	≥ 10 mm	≥ 10 mm	≥ 10 mm
Depth	50 mm	50 mm	62 mm	62 mm
max. cross section	2,5 mm <sup>2</sup>	2,5 mm <sup>2</sup>	2,5 mm <sup>2</sup>	2,5 mm <sup>2</sup>
Material	PP / TPE-S	PP / TPE-S	PP / TPE-S	PP / TPE-S
Cable entry 3x 1.5 <sup>2</sup>	-	2	-	2
5x 1.5 <sup>2</sup> / 3x 2.5 <sup>2</sup>	-	2	-	2
Conduit entry	4x ≤ M20	2x ≤ M25	4x ≤ M20	2x ≤ M25
Accessories	per unit incl. 5x E105HF	per unit incl. 5x E105HF	per unit incl. 5x E105HF	per unit incl. 5x E105HF



## Proven protection Solid in case of fire

- With fire resistance class EI90
- BS117 approved for ceilings up to EI60
- Subsequent and opposing installation possible
- Installation boxes meet the sound insulation requirements
- Up to 5 sockets can be arranged in a row



Type	BS115	BS117	BS118
Version	Device socket	Device connection socket	Double device connection socket
Item no.	7500001	7500002	7500003
SU / CB / PL	12 / 192 / 3,744	12 / 192 / 3,744	6 / 96 / 1,584
Milling hole	Ø 74 mm	Ø 74 mm	2 x Ø 74 mm
Panel thickness	25 - 40 mm	25 - 40 mm	25 - 40 mm
Depth	45 mm	54 mm	54 mm
max. cross section	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>
Material	SAFE 90	SAFE 90	SAFE 90
Cable entry	2 to Ø 14.4mm	2 to Ø 11.6mm	4 to Ø 11.6mm
Conduit entry M20	-	4	-



Type	BS112	BS112/2
Version	Lid, 1-fold	Lid, 2-fold
Item no.	7500030	7500031
SU / CB / PL	10 / 100 / 9,000	5 / 20 / 4,800
Material	SAFE 90	SAFE 90



**The missing brick for perfect protection**  
Our fire protection socket box for ceiling and wall outlet for cables and lines. More information on the following page.



## The missing brick for perfect protection



- Unique, new technology for compliance with VDE for cable outlets in fire protection walls
- Also approved for penetrations
- For 2 cables or one M25 electrical installation pipe
- Easy installation as usual
- Fast, simple and secure
- ETA approval up to EI90
- Approved for ceilings up to EI90



### 1 Cable entry

Time-saving entry for 2 cables.



### 2 Conduit entry

Unique M25 conduit entry in fire protection outlet box.



Type	BS134
Version	Outlet box
Item no.	7500057
SU / CB / PL	10 / 500 / 10,000
Milling hole	Ø 35 mm
Cable entry	2
Conduit entry M25	1
Material	PP
Depth	55 mm
Panel thickness	5 - 30 mm
max. cross section	2.5 mm <sup>2</sup>
Accessories	incl. cover

## Safety divider

### Uncomplicated application

- Partitioning of feedthroughs of cables and cable bundles
- Application in solid walls, solid ceilings and lightweight partition walls
- Note ETA-16/0318 approval
- Cartridges usable with standard press guns
- Resistant to aging, water-based
- Easy processing, even with small ring joints
- Can be used in areas with a high humidity rating



Type	BSDBS
Version	Insulating layer
Item no.	7500004
SU / CB / PL	1 / 20 / 720
Content	310ml/400g

### Accessories



Type	BSKS
Version	Universal label
Item no.	7500029
SU / CB / PL	20 / - / -



## Works even when things get hot

- General building inspection certificate ("abP")
- Integrity E30 - E90
- Easy snap-on
- No fire load
- Halogen-free



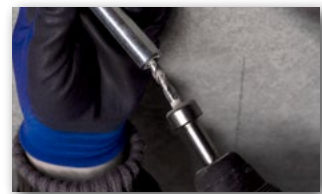
### Application



**1** Pre-drill a defined hole with a stop drill.



**2** The stop defines the optimum depth of the drill hole.



**3** Place the setting tool on the drill and set to hammer.



**4** Drive in the dowel in one step using the hammer function and thus fasten the multi bracket.



**5** After fastening, the multi bracket can be directly equipped with cables and wires.



**6** The simple snap closure guarantees a secure hold and allows for easy re-assignment and installation.



Type	KSM15	KSM30
Version	Cable collection holder	Cable collection holder
Item no.	7501001	7501002
SU / CB / PL	50 / 50 / -	25 / 25 / -
suitable for	up to 15 cables	up to 30 cables
Attachment Wall/ceiling	✓	✓
Material	Steel	Steel
required purchase	KDM-2 Set	KDM-2 Set

### Dowels for collecting holders

- Mounting in concrete
- Fire resistance class R30 - R120
- Mounting is removable
- For fixing collection holder KSM15/30

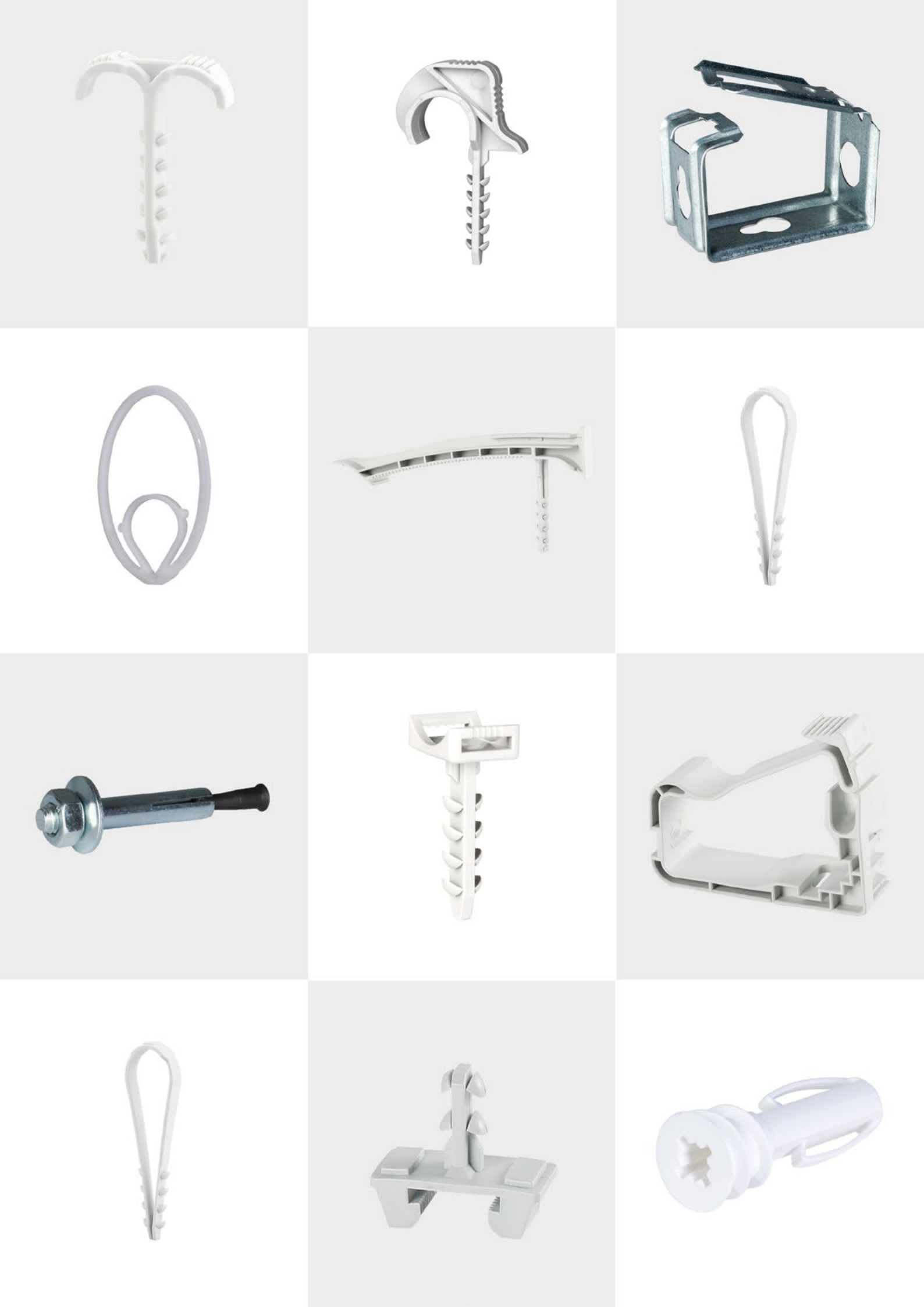


Type	KDM-2 Set
Version	200 anchors + stop drill bit
Item no.	7501003
SU / CB / PL	1 / 10 / -
Length of anchor	32 mm
Material	Steel
Drilling diameter	Ø 6 mm

### Accessory cable collection holder



Type	SWM-SM 50	SDS 1
Version	Setting tool long for KDM2	Stop drill bit
Item no.	7501004	7501005
SU / CB / PL	1 / - / -	1 / - / -
Material	Steel	Steel



## Quickly secured

### Hard to take out of the mounting

Installers can now dispense with tools. Because the **f-tronic®** Cable Management System products (CMS) are simply affixed by hand. How is that possible?

Thanks to an easy assembly system that needs nothing else but a Ø 6mm hole and the same for all fastening systems. Whether surface or flush mounted, for maximum flexibility.

The installation aids f-fix and f-clip also make daily practice easier when laying cables and installing flush mounted and hollow wall boxes. This saves time and money during assembly.

We also offer systems with functional integrity; these materials round off the complete range.

## Fastening systems ..... 77

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**Fastening system with functional endurance ..... 86**





## CMS

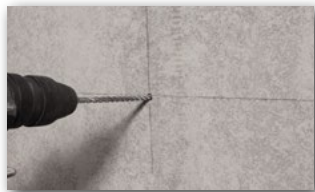
### Quick and easy to connect

- Savings in working time and costs from quick and easy installation
- Secure hold, thanks to pull-out forces up to 40kg
- Halogen-free
- Working temperature range -20°C - + 84°C
- Glow-wire tested up to 750°C
- All products each in own resealable bag
- For all products, a drill diameter of 6mm diameter is required

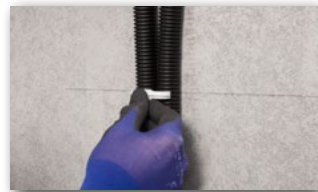


Double plug-in anchors

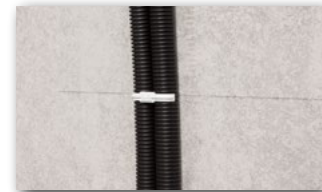
### Assembly instructions



1 Drilled hole Ø 6 mm.



2 The product is inserted without any additional tools.



3 Simple and quick installation, secure hold.



Type	CMS11	CMS12	CMS13
Version	Double plug-in anchors	Double plug-in anchors	Double plug-in anchors
Item no.	7440016	7440017	7440018
SU/CB/PL	200 / 2,000 / 128,000	100 / 1,000 / 96,000	100 / 1,000 / 64,000
Clamping range	4 - 12 mm	20 - 25 mm	25 - 32 mm
suitable for	Cable	Conduit	Conduit
for drill diameter	Ø 6 mm	Ø 6 mm	Ø 6 mm
Material	PP	PP	PP
Colour	grey	grey	grey

Insertion flap

### Assembly instructions



1 Drilled hole Ø 6 mm.



2 The product is inserted without any additional tools.



3 Simple and quick installation, secure hold.



Type	CMS1	CMS2	CMS3	CMS4
Version	Insertion flap	Insertion flap	Insertion flap	Insertion flap
Item no.	7440012	7440013	7440014	7440015
SU/CB/PL	200 / 3,000 / 192,000	200 / 2,000 / 128,000	100 / 1,500 / 96,000	100 / 1,000 / 64,000
Clamping range	3 - 13 mm	6 - 20 mm	8 - 28 mm	20 - 40 mm
for drill diameter	Ø 6 mm	Ø 6 mm	Ø 6 mm	Ø 6 mm
Material	PP	PP	PP	PP
Colour	grey	grey	grey	grey



Type	CMS1S	CMS2S	CMS3S	CMS4S
Version	Insertion flap	Insertion flap	Insertion flap	Insertion flap
Item no.	7440037	7440038	7440039	7440040
SU/CB/PL	200 / 3,000 / 192,000	200 / 2,000 / 128,000	100 / 1,500 / 96,000	100 / 1,000 / 64,000
Clamping range	3 - 13 mm	6 - 20 mm	8 - 28 mm	20 - 40 mm
for drill diameter	Ø 6 mm	Ø 6 mm	Ø 6 mm	Ø 6 mm
Material	PP	PP	PP	PP
Colour	UV-stabilised, black	UV-stabilised, black	UV-stabilised, black	UV-stabilised, black

### Assembly instructions



1 Drilled hole Ø 6 mm.



2 The product is inserted without any additional tools.



3 Simple retrofitting possible.



4 Secure hold.

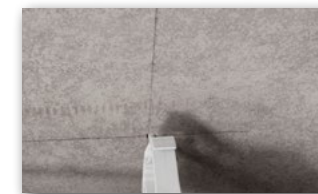


Type	CMS9	CMS10
Version	Cable bracket	Cable bracket
Item no.	7420017	7420018
SU/CB/PL	50 / 800 / 16,000	50 / 600 / 12,000
suitable for	up to 10 cables	up to 20 cables
for drill diameter	Ø 6 mm	Ø 6 mm
Material	PA6	PA6
Colour	grey	grey

### Assembly instructions



1 Drilled hole Ø 6 mm.



2 Simple installation of the anchor system (CMS 5, 6, 7 or 8). Insert the collection holder.



3 Simple retrospective installation possible.



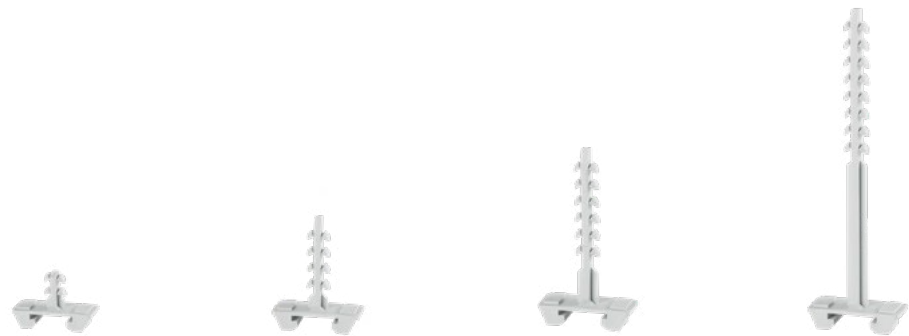
4 Secure hold.



Type	CMS15	CMS30
Version	Multi bracket	Multi bracket
Item no.	7430007	7430008
SU/CB/PL	50 / 400 / 8,000	25 / 250 / 5,000
suitable for	up to 15 cables	up to 30 cables
Attachment Wall/ceiling	✓	- / ✓
for drill diameter	Ø 6 mm	Ø 6 mm
recommended purchase	CMS5 / CMS6 / CMS7 / CMS8	CMS5 / CMS6 / CMS7 / CMS8
Material	PA6	PA6
Colour	grey	grey



System plugs



Type	CMS5	CMS6	CMS7	CMS8
Version	System plugs	System plugs	System plugs	System plugs
Item no.	7440024	7440025	7440026	7440027
SU/CB/PL	100 / 2,000 / 128,000	100 / 1,500 / 96,000	100 / 2,000 / 64,000	100 / 600 / 38,400
Length of anchor	11 mm	27 mm	42 mm	80 mm
Drilling diameter	Ø 6 mm	Ø 6 mm	Ø 6 mm	Ø 6 mm
Material	PP	PP	PP	PP
Colour	grey	grey	grey	grey

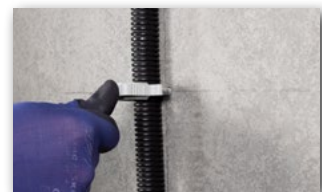


Simple push-in plug for conduits



Type	CMS17	CMS18
Version	Simple plug-in dowel	Simple plug-in dowel
Item no.	7440041	7440042
SU/CB/PL	100 / 1,000 / 64,000	100 / 1,000 / 64,000
Clamping range	16 - 20 mm	20 - 25 mm
Length of anchor	32 mm	32 mm
Drilling diameter	Ø 6 mm	Ø 6 mm
Material	PP	PP
Colour	grey	grey

### Application



Cable tie fastening anchor



Type	CMS21
Version	Cable tie fastening anchor
Item no.	7440043
SU/CB/PL	200 / 3,000 / 168,000
suitable for	cable ties ≤ 8.5 mm
Length of anchor	27 mm
Material	PA6
Drilling diameter	Ø 6 mm

### Application



Fixing clip

## f-clip

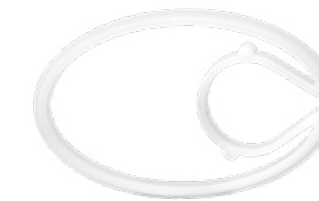
### Quick and tool-free cable attachment

- Quick and tool-free fixing in masonry slots up to 55mm
- High clamping force
- No showing through the plaster thanks to colour neutrality
- No damage to the cables possible
- Easy installation due to practical finger loop
- Reduced installation time - 50% faster!

### Assembly instructions



- 1 The f-clip fixes cables and pipes simply and without tools in masonry slots up to 55 mm wide. It can be used in two different positions.



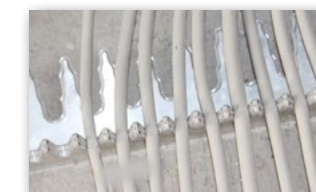
Type	f-clip
Version	Fixing clip
Item no.	7410003
SU/CB/PL	50 / 6,000 / 96,000
suitable for	Masonry slots ≤ 55 mm
Material	POM

Installation aid for cables and pipes

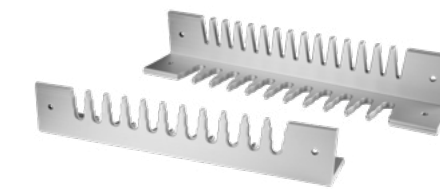
### Assembly instructions



- 1 For pipes.



- 2 For cables.



Type	KVS
Version	Cable laying rail
Item no.	7390084
SU/CB/PL	1 / - / -
Pipe attachment	M16, M20, M25
Cable attachment	Ø 5 - 12.5 mm
Material	Aluminium





Type	FT8	FT10	FT16
Version	Clamp	Clamp	Clamp
Item no.	7420011	7420007	7420009
SU/CB/PL	50 / 1,200 / 24,000	50 / 800 / 16,000	50 / 600 / 12,000
suitable for	up to 8 cables	up to 10 cables	up to 16 cables
Material	PA6	PA6	PA6
Colour	grey	grey	grey

Nail plate

Type	NS28/230	NS28/240	NS28/250
Version	Nail plate	Nail plate	Nail plate
Item no.	7440001	7440002	7440003
SU/CB/PL	100 / 3,000 / 96,000	100 / 3,000 / 96,000	100 / 3,000 / 96,000
Diameter	Ø 28 mm	Ø 28 mm	Ø 28 mm
Nail	2 x 30 mm	2 x 40 mm	2 x 50 mm



Type	NS35/340	NS35/350	NS35/360	NS35/370
Version	Nail plate	Nail plate	Nail plate	Nail plate
Item no.	7440004	7440005	7440006	7440007
SU/CB/PL	100 / 3,000 / 48,000	100 / 3,000 / 48,000	100 / 3,000 / 48,000	100 / 3,000 / 48,000
Diameter	Ø 35 mm	Ø 35 mm	Ø 35 mm	Ø 35 mm
Nail	3 x 40 mm	3 x 50 mm	3 x 60 mm	3 x 70 mm

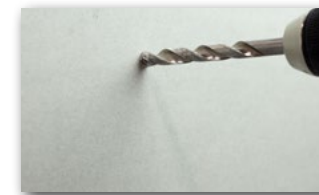
## f-fix

### Put an end to cable searches

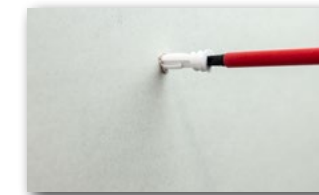
- For cable fixing in HW socket box installations
- No unnecessary holes
- No fishing out of the cable
- No complex cable search
- No cable damage
- Valuable time saved



### Assembly instructions



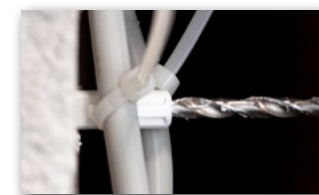
1 Drill a Ø 10mm hole.



2 Screw in f-fix .



3 Fix cable with cable tie to f-fix.



4 Drill Ø 5mm diameter hole: The drill is guided through the f-fix and drilled through the opposite side of the wall.



5 Drill into preset hole on opposite side with centering drill of milling crown; counter-sink box hole.



6 Find cable.



Type	f-fix	f-fix-MaxiPack
Version	Cable holders for hollow wall installation	Cable holders for hollow wall installation MaxiPack
Item no.	7390114	7390117
SU/CB/PL	100 / 2,000 / -	500 / 2,000 / -

Type	f-fix set	f-fix drills
Version	Set 50x f-fix + 1x drill	Drill 5x 200mm for f-fix
Item no.	7390115	7390118
SU/CB/PL	1 / 30 / -	10 / - / -



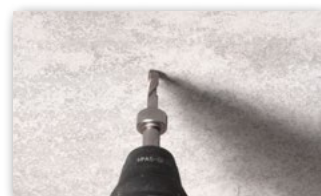


## Works even when things get hot

- General building inspection certificate ("abP")
- Integrity E30 - E90
- Easy snap-on
- No fire load
- Halogen-free



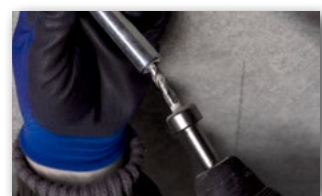
### Application



**1** Pre-drill a defined hole with a stop drill.



**2** The stop defines the optimum depth of the drill hole.



**3** Place the setting tool on the drill and set to hammer.



**4** Drive in the dowel in one step using the hammer function and thus fasten the multi bracket.



**5** After fastening, the multi bracket can be directly equipped with cables and wires.



**6** The simple snap closure guarantees a secure hold and allows for easy reassignment and installation.

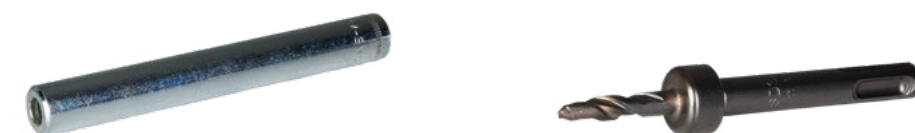


Type	KSM15	KSM30
Version	Cable collection holder	Cable collection holder
Item no.	7501001	7501002
SU/CB/PL	50 / 50 / -	25 / 25 / -
suitable for	up to 15 cables	up to 30 cables
Attachment Wall/ceiling	✓	✓
Material	Steel	Steel
required purchase	KDM-2 Set	KDM-2 Set

- Mounting in concrete
- Fire resistance class R30 - R120
- Mounting is removable
- For fixing collection holder KSM15/30



Type	KDM-2 Set
Version	200 anchors + stop drill bit
Item no.	7501003
SU/CB/PL	1 / 10 / -
Length of anchor	32 mm
Material	Steel
Drilling diameter	Ø 6 mm



Type	SWM-SM 50	SDS 1
Version	Setting tool long for KDM2	Stop drill bit
Item no.	7501004	7501005
SU/CB/PL	1 / - / -	1 / - / -
Material	Steel	Steel

# Distribution boards

The right distributor for every application

f-tronic® small distributors are hard to beat in their diversity. Whether flush, hollow-wall, surface, communications or damp area Distributors - f-tronic® has it all!

With our JUMBO flush and hollow wall distributors, we offer a solution for every application. At f-tronic® our range includes 1- to 5-row circuit distributors with plug-in and screw connectors. These distributors can of course also be combined with the identically constructed communications distributors. For easy and convenient combination, we offer a unique distribution connector set. All communication distributors can also be equipped with a WiFi port. Should there be no room for two separate distributors, the twin distributor series is the right solution for you. This clever and space-saving combination, consisting of a circuit and communication distributor, offers you a lot of room in a tight space.

Our VISION series is the right solution for surface distribution. Here we offer 1 to 4 row circuit distributors and the matching communication distributors. We have updated the VISION distributors, so they now offer even more assembly convenience and more diverse installation options. For example, with more wiring space, more diverse entry options and simpler labelling.

The f-tronic® surface mounted damp area distributor series NEPTUN can be used for damp area or outdoor installations. The NEPTUN is available in 4 sizes and 2 different materials. We also offer practical accessories such as an IP65 connector.

If more space is required, we have surface mounted field distributors and distribution cabinets with up to 540 division units in the range.

Our time-saving solution for your project: Our pre-wired distributors. We also offer all distributor variants ready for connection. Our team of experts will work with you to plan and design the ideal solution individually for your project.

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# Flexible usage

## Flush mounted and in hollow walls

- Generous wiring space
- Strain relief possible
- Frame structure 9mm
- Packaging can be used as plaster protection
- Suitable with HWA-Set for hollow wall installation (p. 117)



**1 Well-ventilated**  
Integrated air vents provide for heat dissipation.

**3 Optimum alignment**  
Simple and easy installation, thanks to the integrated spirit level.

**5 Secures**  
3 + 4 rows standard prepared for three FI circuits.

**2 Spacious**  
Easy installation, due to a lot of space in the upper and lower connection areas.

**4 Additional space**  
12 + 2 TE per row. Simply break out the cover to use the additional 2 TE per row.

**6 Holds firm**  
Hollow wall anchor suitable for panel thickness 8 - 40 mm.

**Certified**  
DIN EN 60670-1  
DIN EN 60670-24  
DIN EN 61439-1  
DIN EN 61439-3  
DIN 43871

**U<sub>MAX</sub>** 400 V  
**I<sub>MAX</sub>** 63A



Type	JUMBO12+2	JUMBO24+4	JUMBO36+6	JUMBO48+8	JUMBO60+10
Version	1-row	2-rows	3-rows	4-rows	5-rows
Item no.	7250012	7250017	7250022	7250028	7250062
SU / CB / PL	1 / - / 90	1 / - / 60	1 / - / 45	1 / - / 45	1 / - / 30
Equipped with	1x door with frame (T+RJUMBO12+2) 1x FI additional terminal (FIK) 1x PE-N-plug-in terminal (SKN17PE)	1x door with frame (T+RJUMBO24+4) 1x FI additional terminal (FIK) 1x PE-N-plug-in terminal (SKN17PE)	1x door frame (T+RJUMBO36+6) 1x PE-plug-in terminal (SKPE34) 1x N-plug-in terminal (SKN34) 1x N-N-plug-in terminal (SKN17N)	1x door with frame (T+RJUMBO48+8) 1x PE-plug-in terminal (SKPE34) 1x N-plug-in terminal (SKN34) 1x N-N-plug-in terminal (SKN17N)	1x door with frame (T+RJUMBO60+10) 1x PE-plug-in terminal (SKPE34) 2x N-N-plug-in terminal (SKN17N)
Recommended purchase	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)
Modules	14	28	42	56	70
Panel thickness HW	8 - 40 mm	8 - 40 mm	8 - 40 mm	8 - 40 mm	8 - 40 mm
H x W x D	400 x 365 x 98 mm	525 x 365 x 98 mm	650 x 365 x 98 mm	775 x 365 x 98 mm	900 x 365 x 98 mm
Material	PS/sheet steel	PS/sheet steel	PS/sheet steel	PS/sheet steel	PS/sheet steel
sealable / inline configuration	✓	✓	✓	✓	✓

## Pre-assembly possible using System



- Optionally, can be used for flush or hollow wall mounting
- Support frame for easy pre-assembly of devices and equipment
- Generous wiring space
- Strain relief possible
- Packaging can be used as plaster protection
- Suitable with HWA-Set for hollow wall installation (p. 117)

### Assembly instructions



**1 Pre-assemble**  
Install the distribution tray and fix it in the hollow wall or masonry, lay pipes and lines.



**2 Pre-install**  
The wired support frame can then be installed as one part in the distribution board.



**3 Finishing**  
Connecting the pre-wired machines, assemble the frame and door, done.

**Certified**  
DIN EN 60670-1  
DIN EN 60670-24  
DIN EN 61439-1  
DIN EN 61439-3  
DIN 43871

**U<sub>MAX</sub>** 400 V  
**I<sub>MAX</sub>** 63A



Type	JUMBO24+4TS	JUMBO36+6TS	JUMBO48+8TS	JUMBO60+10TS
Version	2-rows	3-rows	4-rows	5-rows
Item no.	7250110	7250109	7250081	7250087
SU / CB / PL	1 / - / 60	1 / - / 45	1 / - / 45	1 / - / 30
Equipped with	1x door with frame (T+RJUMBO24+4) 1x FI additional connector (FIK) 1x PE-N-plug-in terminal (SKN17PE)	1x door with frame (T+RJUMBO36+6) 1x PE-plug-in terminal (SKPE34) 1x N-plug-in terminal (SKN34) 1x N-N-plug-in terminal (SKN17N)	1x door with frame (T+RJUMBO48+8) 1x PE-plug-in terminal (SKPE34) 1x N-plug-in terminal (SKN34) 1x N-N-plug-in terminal (SKN17N)	1x door with frame (T+RJUMBO60+10) 1x PE-plug-in terminal (SKPE34) 2x N-N-plug-in terminal (SKN17N)
FMommed Purchase	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)	Hollow wall anchor set (HWA-Set) Mounting bracket set (MH-Set) Cover strip (ADS12W)
Modules	28	42	56	70
Panel thickness HW	8 - 40 mm	8 - 40 mm	8 - 40 mm	8 - 40 mm
H x W x D	525 x 365 x 98 mm	650 x 365 x 98 mm	775 x 365 x 98 mm	900 x 365 x 98 mm
Material	PS/sheet steel	PS/sheet steel	PS/sheet steel	PS/sheet steel
Can be sealed / inline configuration possible	✓	✓	✓	✓

## Simple and reliable for flush mounting



**Certified**  
DIN EN 60670-1  
DIN EN 60670-24  
DIN EN 61439-1  
DIN EN 61439-3  
DIN 43871

**U<sub>MAX</sub>** 400 V  
**I<sub>MAX</sub>** 63A

Type	UPV12+2ST	UPV24+4ST	UPV36+6ST	UPV48+8ST	UPV60+10ST
<b>Version</b>	1-row	2-rows	3-rows	4-rows	5-rows
<b>Item no.</b>	7210028	7210029	7210030	7210031	7210063
<b>SU / CB / PL</b>	1 / 1 / 90	1 / 1 / 60	1 / 1 / 45	1 / 1 / 45	1 / 1 / 30
<b>Modules</b>	14	28	42	56	70
<b>H x W x D</b>	400 x 365 x 98 mm	525 x 365 x 98 mm	650 x 365 x 98 mm	775 x 365 x 98 mm	900 x 365 x 98 mm
<b>Equipped with</b>	1x door with frame (T+RJUMBO12+2) 1x PE-N screw terminal (KN17PE)	1x door with frame (T+RJUMBO24+4) 1x PE-N screw terminal (KN17PE)	1x door with frame (T+RJUMBO36+6) 1x PE Screw terminal (KPE34) 1x N-N-screw terminal (KN17N)	1x door with frame (T+RJUMBO48+8) 1x PE Screw terminal (KPE34) 1x N-N-screw terminal (KN17N)	1x door with frame (T+RJUMBO60+10) 1x PE Screw terminal (KPE34) 2x N-N-screw terminal (KN17N)
<b>FMommed Purchase</b>	Wall claw set (MK-Set) Cover strip (ADS12W)	Wall claw set (MK-Set) Cover strip (ADS12W)	Wall claw set (MK-Set) Cover strip (ADS12W)	Wall claw set (MK-Set) Cover strip (ADS12W)	Wall claw set (MK-Set) Cover strip (ADS12W)
<b>Material</b>	PS/sheet steel	PS/sheet steel	PS/sheet steel	PS/sheet steel	PS/sheet steel
<b>sealable/-inline configuration</b>	✓	✓	✓	✓	✓

## Simple and reliable for hollow wall mounting



**Certified**  
DIN EN 60670-1  
DIN EN 60670-24  
DIN EN 61439-1  
DIN EN 61439-3  
DIN 43871

**U<sub>MAX</sub>** 400 V  
**I<sub>MAX</sub>** 63A

Type	HWV12+2ST	HWV24+4ST	HWV36+6ST	HWV48+8ST	HWV60+10ST
<b>Version</b>	1-row	2-rows	3-rows	4-rows	5-rows
<b>Item no.</b>	7230015	7230016	7230017	7230018	7230035
<b>SU / CB / PL</b>	1 / 1 / 90	1 / 1 / 60	1 / 1 / 45	1 / 1 / 45	1 / 1 / 30
<b>Modules</b>	14	28	42	56	70
<b>Panel thickness HW</b>	8 - 40 mm	8 - 40 mm	8 - 40 mm	8 - 40 mm	8 - 40 mm
<b>H x W x D</b>	400 x 365 x 98 mm	525 x 365 x 98 mm	650 x 365 x 98 mm	775 x 365 x 98 mm	900 x 365 x 98 mm
<b>Equipped with</b>	1x door with frame (T+RJUMBO12+2) 1x PE-N-Screw terminal (KN17PE) 1x hollow wall anchor set (HWA-Set)	1x door with frame (T+RJUMBO24+4) 1x PE-N-Screw terminals (KN17PE) 1x hollow wall anchor set (HWA-Set)	1x door with frame (T+RJUMBO36+6) 1x PE Screw terminal (KPE34) 1x N-N-screw terminal (KN17N) 1x hollow wall anchor set (HWA-Set)	1x door with frame (T+RJUMBO48+8) 1x PE Screw terminal (KPE34) 1x N-N-screw terminal (KN17N) 1x hollow wall anchor set (HWA-Set)	1x door with frame (T+RJUMBO60+10) 1x PE Screw terminal (KPE34) 2x N-N-screw terminal (KN17N) 1x cavity wall anchor set (HWA-Set)
<b>FMommed Purchase</b>	Cover strip (ADS12W)	Cover strip (ADS12W)	Cover strip (ADS12W)	Cover strip (ADS12W)	Cover strip (ADS12W)
<b>Material</b>	PS/sheet steel	PS/sheet steel	PS/sheet steel	PS/sheet steel	PS/sheet steel
<b>sealable / inline configuration</b>	✓	✓	✓	✓	✓



# Double Power in distribution

- Optionally, can be used for flush or hollow wall mounting
- Support frame for easy pre-assembly of devices and equipment
- Generous wiring space
- Strain relief possible
- Packaging can be used as plaster protection
- Suitable with HWA-Set for hollow wall installation (p. 117)



## 1 Power supply

Socket at the bottom of the circuit portion allows direct power supply of communication devices.



## 2 Insulated separation

Separator between the two sections ensures compliance with the protection class.



**Manufactured to**  
 DIN 18015-1  
 DIN 18015-2  
 DIN 18015-3  
 DIN 18015-4

**U<sub>MAX</sub>** 400 V  
**I<sub>MAX</sub>** 63A

Type	JUMBO60-2	JUMBO60-3	JUMBO60-2W	JUMBO60-3W
<b>Version</b>	2-rows + communication field	3-rows + communication field	2-rows + communication field	3-rows + communication field
<b>Item no.</b>	<b>7250067</b>	<b>7250068</b>	<b>7250069</b>	<b>7250070</b>
<b>SU / CB / PL</b>	1 / - / 30	1 / - / 30	1 / - / 30	1 / - / 30
<b>HW / FM</b>	✓	✓	✓	✓
<b>Equipped with</b>	1x door with frame (T+RJUMBO60-2) 2x mounting plate 1x PE-N-plug-in terminal (SKN17PE) 1x socket 1x hollow wall anchor set (HWA-Set)	1x door with frame (T+RJUMBO60K) 1x mounting plate 1x PE-plug-in terminal (SKPE34) 1x N-N-plug-in terminal (SKN17N) 1x socket 1x hollow wall anchor set (HWA-Set)	1x WiFi door with frame (T+RJUMBO60-2W) 2x mounting plate 1x PE-N-plug-in terminal (SKN17PE) 1x socket 1x hollow wall anchor set (HWA-Set)	1x WiFi door with frame (T+RJUMBO60KW) 1x mounting plate 1x PE-plug-in terminal (SKPE34) 1x N-N-plug-in terminal (SKN17N) 1x socket 1x hollow wall anchor set (HWA-Set)
<b>Recommended purchase</b>	Mounting bracket set (MH-Set), Cover strips (ADS12W)	Mounting bracket set (MH-Set), Cover strips (ADS12W)	Mounting bracket set (MH-Set), Cover strips (ADS12W)	Mounting bracket set (MH-Set), Cover strips (ADS12W)
<b>Modules</b>	28	42	28	42
<b>Panel thickness HW</b>	8 - 40 mm	8 - 40 mm	8 - 40 mm	8 - 40 mm
<b>H x W x D</b>	900 x 365 x 98 mm	900 x 365 x 98 mm	900 x 365 x 98 mm	900 x 365 x 98 mm
<b>sealable / inline configuration</b>	✓	✓	✓	✓

# Innovative solutions for communications distribution

- For hollow wall and flush installation
- For installation of multimedia applications (e.g. : Telecommunications and broadband cable distributions)
- Convenient access to hardware components (e.g. : modem, wireless router, switch)
- Standard 3-way socket with staggered slots
- Ventilation slots in the door for heat dissipation



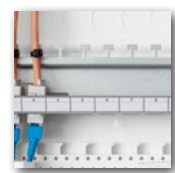
## 1 Power supply

The hardware components are mounted potential-free on the plastic support plates and supplied with mains voltage via the triple socket.



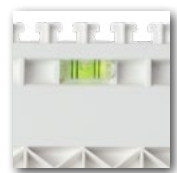
## 2 Convertible

The socket can be converted to Euro plugs using the inserts supplied.



## 3 Ordered

The patch panel integrated in the top area, allowing easy mounting of patch modules in the "Keystone" format. (e.g. RJ-45, p. 119)



## 4 Optimum alignment

The integral spirit levels allow for quick and accurate alignment of the distributor.



**Manufactured to**  
 DIN 18015-1  
 DIN 18015-2  
 DIN 18015-3  
 DIN 18015-4

**U<sub>MAX</sub>** 400 V  
**I<sub>MAX</sub>** 63A

Type	JUMBO36K	JUMBO48K	JUMBO60K
Version	3-rows	4-rows	5-rows
Item no.	7250027	7250033	7250063
SU / CB / PL	1 / - / 45	1 / - / 45	1 / - / 30
HW / FM	✓	✓	✓
Equipped with	1x door with frame (T+RJUMBO36K) 1x Patch Panel (PATCH12) 2x mounting plate 1x 3-fold outlet (STECKD3) 1x hollow wall anchor set (HWA-Set) 1x connecting bracket (VK-Set)	1x door with frame (T+RJUMBO48K) 1x Patch Panel (PATCH12) 3x mounting plate 1x 3-fold outlet (STECKD3) 1x hollow wall anchor set (HWA-Set) 1x connecting bracket (VK-Set)	1x door with frame (T+RJUMBO60K) 1x Patch Panel (PATCH12) 4x mounting plate 1x 3-fold outlet (STECKD3) 1x hollow wall anchor set (HWA-Set) 1x connecting bracket (VK-Set)
Recommended purchase	Mounting bracket set (MH-Set)	Mounting bracket set (MH-Set)	Mounting bracket set (MH-Set)
Panel thickness HW	8 - 40 mm	8 - 40 mm	8 - 40 mm
H x W x D	650 x 365 x 98 mm	775 x 365 x 98 mm	900 x 365 x 98 mm
inline configuration possible	✓	✓	✓
Material	PS/sheet steel	PS/sheet steel	PS/sheet steel

# Innovative solutions for communications distribution

- For hollow wall and flush installation
- For installation of multimedia applications (e.g. : telecommunications and broadband cable distribution)
- Convenient access to hardware components (e.g. : modem, wireless router, switch)
- Standard 3-way socket with staggered slots
- Ventilation slots in the door for heat dissipation
- Door with plastic insert for WiFi application



**1 Power supply**  
The hardware components are mounted potential-free on the plastic support plates and supplied with mains voltage via the triple socket.

**2 Convertible**  
The socket can be converted to Euro plugs using the inserts supplied.

**3 Ordered**  
The patch panel integrated in the top area, allowing easy mounting of patch modules in the "Keystone" format. (e.g. RJ-45, p. 119)

**4 Optimum alignment**  
The integral spirit levels allow for quick and accurate alignment of the distributor.

**5 WiFi door**  
The special WiFi door with plastic insert prevents the containment of your WiFi signal caused by the use of conventional distributors.



**Manufactured to**  
 DIN 18015-1  
 DIN 18015-2  
 DIN 18015-3  
 DIN 18015-4

**U<sub>MAX</sub>** 400 V  
**I<sub>MAX</sub>** 63A

Type	JUMBO36KW	JUMBO48KW	JUMBO60KW
<b>Version</b>	3-rows	4-rows	5-rows
<b>Item no.</b>	<b>7250064</b>	<b>7250065</b>	<b>7250066</b>
<b>SU / CB / PL</b>	1 / - / 45	1 / - / 45	1 / - / 30
<b>HW / FM</b>	✓	✓	✓
<b>Equipped with</b>	1x WiFi door with frame (T+RJUMBO36KW) 1x Patch Panel (PATCH12) 2x mounting plate 1x 3-fold outlet (STECKD3) 1x hollow wall anchor set (HWA-Set) 1x connecting bracket (VK-Set)	1x WiFi door with frame (T+RJUMBO48KW) 1x Patch Panel (PATCH12) 3x mounting plate 1x 3-fold outlet (STECKD3) 1x hollow wall anchor set (HWA-Set) 1x connecting bracket (VK-Set)	1x WiFi door with frame (T+RJUMBO60KW) 1x Patch Panel (PATCH12) 4x mounting plate 1x 3-fold outlet (STECKD3) 1x hollow wall anchor set (HWA-Set) 1x connecting bracket (VK-Set)
<b>Recommended purchase</b>	Mounting bracket set (MH-Set)	Mounting bracket set (MH-Set)	Mounting bracket set (MH-Set)
<b>Panel thickness HW</b>	8 - 40 mm	8 - 40 mm	8 - 40 mm
<b>H x W x D</b>	650 x 365 x 98 mm	775 x 365 x 98 mm	900 x 365 x 98 mm
<b>sealable / inline configuration</b>	✓	✓	✓
<b>Material</b>	PS/sheet steel	PS/sheet steel	PS/sheet steel



# Modern technology

## Made for the future

- Uncomplicated distribution on walls
- For simple wall surface mounting
- Supplied with plug-in or screw terminals
- 1 to 4 row versions available



**1 Perfect hold**  
Strain relief for imported lines above and below.

**3 Entry options**  
Rear cable entry options in the upper, middle and lower connection area.

**5 Secures**  
3 + 4 rows standard prepared for three FI circuits.

**2 Spacious**  
Easy installation, due to a lot of space in the upper and lower connection areas.

**4 Additional space**  
12 + 2 TE per row. Simply break out the cover to use the additional 2 TE per row.

**6 Easy wiring**  
Cable feedthroughs on the side and under the top-hat rails simplify wiring within the distributor.

**Certified**  
DIN EN 60670-1  
DIN EN 60670-24  
DIN EN 61439-1  
DIN EN 61439-3  
DIN 43871

**U<sub>MAX</sub>** 400V  
**I<sub>MAX</sub>** 63A



Plug-in terminals	Type	VISION12+2	VISION24+4	VISION36+6	VISION48+8
	Version	1-row	2-rows	3-rows	4-rows
	Item no.	7220207	7220209	7220211	7220213
Equipped with	1x FI additional connector (FIK) 1x PE-N plug-in connector (SKN17PE)	1x FI additional connector (FIK) 1x PE-N plug-in connector (SKN17PE)	1x PE-N plug-in connector (SKN17PE) 1x NN plug-in connector (SKN17N) 1x PE plug-in connector (SKPE34)	1x PE-N plug-in connector (SKN17PE) 1x NN plug-in connector (SKN17N) 1x PE plug-in connector (SKPE34)	
Screw terminals	Type	VISION12+2ST	VISION24+4ST	VISION36+6ST	VISION48+8ST
	Version	1-row	2-rows	3-rows	4-rows
	Item no.	7220208	7220210	7220212	7220214
Equipped with	1x PE-N screw terminal (KN17PE)	1x PE-N screw terminal (KN17PE)	1x N-N screw connector (KN17N) 1x PE Screw terminal (KPE34)	1x N-N screw connector (KN17N) 1x PE Screw terminal (KPE34)	
SU / CB / PL	1 / - / 75	1 / - / 50	1 / - / 34	1 / - / 26	
Recommended purchase	Door, metal (VISION12+2TM) Door, plastic (VISION12+2TW)	Door, metal (VISION24+4TM) Door, plastic (VISION24+4TW)	Door, metal (VISION36+6TM) Door, plastic (VISION36+6TW)	Door, metal (VISION48+8TM) Door, plastic (VISION48+8TW)	
Modules	14	28	42	56	
H x W x D	250 x 305 x 99mm	375 x 305 x 99mm	515 x 305 x 99 mm	640 x 305 x 99 mm	
Inserts	2x flange 215 x 35 mm 4x side entry 4x rear entry	2x flange 215 x 35 mm 4x side entry 6x rear entry	2x flange 215 x 35 mm 6x side entry 8x rear entry	2x flange 215 x 35 mm 8x side entry 10x rear entry	
Can be sealed / inline configuration possible	✓ / -	✓ / -	✓ / -	✓ / -	
Material	PS	PS	PS	PS	

# VISION K

for a future-oriented technology

- For installation of multimedia applications (e.g. : telecommunications and broadband cable distributions)
- 3- and 4-row version for surface installations
- Integrated patch panel for mounting patch modules
- Plastic carrier plate for hardware components (e.g. : modem, WiFi router, switch)
- 3-outlet socket
- Door with ventilation slots
- Meets all the requirements of DIN 18015-1 to DIN18015-4



## 1 Power supply

The hardware components are mounted potential-free on the plastic support plates and supplied with mains voltage via the 3x socket.



## 2 Convertible

The socket can be converted to Euro plugs using the inserts supplied.



## 3 Ordered

The patch panel integrated in the top area, allowing easy mounting of patch modules in the "Keystone" format.



Type	VISION36K	VISION48K
Version	3-rows	4-rows
Item no.	7220215	7220216
SU / CB / PL	1 / - / 34	1 / - / 26
Mounting surface	450 x 210mm	600 x 210mm
H x W x D	515 x 305 x 99 mm	640 x 305 x 99 mm
Equipped with	1x door (APVTK36TM) 1x patch panel (PATCH12) 2x mounting plate 1x triple socket (STECKD3)	1x door (APVTK48TM) 1x patch panel (PATCH12) 3x mounting plate 1x triple socket (STECKD3)

# NEPTUN

Seeks the challenge.  
Masters every situation.

- Protects equipment from harmful ingress of water and dust - IP65
- Tool-free cable entry due to IP65 membrane entry flange
- Reduced condensation due to integrated ventilation system
- Tool-less adjustable top-hat rail due to click system
- Robust housing for harsh conditions
- 1- to 4-row versions
- For high requirements SQ variant



### 1 DIN-rail rail adjustment

Tool-free click system for adjusting the top-hat rails on 2 levels. Can be quickly and easily moved from the standard installation height of 50 mm to 62 mm installation height.



### 2 Cable cover

Has knock-out openings at the top and bottom for cable covers M32/M50 and at the side for M20/M25.



### 3 Entry flange MKF4/26

The IP65 membrane entry flange, ensures a tool-free cable entry. This means no additional components such as cable covers are required to comply with the IP65 protection class.



### 4 AMS ventilation system

The f-tronic® Air Membrane system with a breathable membrane ensures circulation of the ambient air and balances the temperature in the distributor. This system reduces the formation of harmful condensation.



### 5 Cable cover

The cable cover supplied as standard protects your installation from damage and dirt.



### 6 Attachment

The fastening system saves time and hassle. The NEPTUN is equipped with elements such as an integrated spirit level and markings on the reverse side of the internal fastening points incl. dimensioning.



# NEPTUN

Seeks the challenge.  
Masters every situation.



**Certified**  
DIN EN 60670-1  
DIN EN 60670-24

**U<sub>MAX</sub>** AC 400 V  
AC 1000 V\*  
DC 1500 V\*

**I<sub>MAX</sub>** 63A

Type	NEPTUN12	NEPTUN24	NEPTUN36	NEPTUN48
Version	1-row	2-rows	3-rows	4-rows
Item No.	7270001	7270002	7270003	7270004
SU / CB / PL	1 / - / 72	1 / - / 54	1 / - / 36	1 / - / 36
Material	PS / PC	PS / PC	PS / PC	PS / PC
Equipped with	1x PE-N-plug-in terminal (SKN17PE), 1x cable cover, 1x cover strips (ADS12gr)	1x PE-N-plug-in terminal (SKN17PE), 1x cable cover, 1x cover strip (ADS12gr)	1x N-N-plug-in terminal (SKN17N), 1x PE-plug-in terminal (SKPE34), 1x cable cover, 2x cover strips (ADS12gr)	1x N-N-plug-in terminal (SKN17N), 1x PE-plug-in terminal (SKPE34), 1x cable cover, 2x cover strips (ADS12gr)
Modules	12	24	36	48
H x W x D	340 x 310 x 150 mm	465 x 310 x 150 mm	590 x 310 x 150 mm	715 x 310 x 150 mm
Sealable	✓	✓	✓	✓
Inserts	28x Ø 5-12 mm, 14x Ø 5-15 mm, 8x Ø 6-20 mm, 2x Ø 8-26 mm, 2x M32/M50, 2x M20, 4x M25	28x Ø 5-12 mm, 14x Ø 5-15 mm, 8x Ø 6-20 mm, 2x Ø 8-26 mm, 2x M32/M50, 2x M20, 4x M25	28x Ø 5-12 mm, 14x Ø 5-15 mm, 8x Ø 6-20 mm, 2x Ø 8-26 mm, 2x M32/M50, 2x M20, 6x M25	28x Ø 5-12 mm, 14x Ø 5-15 mm, 8x Ø 6-20 mm, 2x Ø 8-26 mm, 2x M32/M50, 4x M20, 6x M25

\*Rated insulation voltage of 1000V AC / 1500V DC only applicable when using the external fixing lugs (p. 120).

# NEPTUN SQ

Solid Quality  
For particularly high requirements



The solid-quality variant of the NEPTUN family of damp area distributors is particularly resistant and designed for high requirements. SQ stands for Solid Quality, which for us means: A maximum of strength and durability. The SQ series is made of high-quality polycarbonate and therefore can be used in installation environments that are particularly demanding.



**Certified**  
DIN EN 60670-1  
DIN EN 60670-24

**U<sub>MAX</sub>** AC 400 V  
AC 1000 V\*  
DC 1500 V\*

**I<sub>MAX</sub>** 63A

Type	NEPTUN12SQ	NEPTUN24SQ	NEPTUN36SQ	NEPTUN48SQ
Version	1-row	2-rows	3-rows	4-rows
Item No.	7270005	7270006	7270007	7270008
SU / CB / PL	1 / - / 72	1 / - / 54	1 / - / 36	1 / - / 36
Material	PC / PC	PC / PC	PC / PC	PC / PC
Equipped with	1x PE-N-plug-in terminal (SKN17PE), 1x cable cover, 1x cover strip (ADS12gr)	1x PE-N-plug-in terminal (SKN17PE), 1x cable cover, 1x cover strip (ADS12gr)	1x N-N-plug-in terminal (SKN17N), 1x PE-plug-in terminal (SKPE34), 1x cable cover, 2x cover strips (ADS12gr)	1x N-N-plug-in terminal (SKN17N), 1x PE-plug-in terminal (SKPE34), 1x cable cover, 2x cover strips (ADS12gr)
Modules	12	24	36	48
H x W x D	340 x 310 x 150 mm	465 x 310 x 150 mm	590 x 310 x 150 mm	715 x 310 x 150 mm
Sealable	✓	✓	✓	✓
Inserts	28x Ø 5-12 mm, 14x Ø 5-15 mm, 8x Ø 6-20 mm, 2x Ø 8-26 mm, 2x M32/M50, 2x M20, 4x M25	28x Ø 5-12 mm, 14x Ø 5-15 mm, 8x Ø 6-20 mm, 2x Ø 8-26 mm, 2x M32/M50, 2x M20, 4x M25	28x Ø 5-12 mm, 14x Ø 5-15 mm, 8x Ø 6-20 mm, 2x Ø 8-26 mm, 2x M32/M50, 2x M20, 6x M25	28x Ø 5-12 mm, 14x Ø 5-15 mm, 8x Ø 6-20 mm, 2x Ø 8-26 mm, 2x M32/M50, 4x M20, 6x M25

\*Rated insulation voltage of 1000V AC / 1500V DC only applicable when using the external fixing lugs (p. 120).



Surface mounted damp area distributor IP65



Type	APV4	APV6
Version	1-row	1-row
Item no.	7240026	7240031
SU / CB / PL	1 / 210 / 420	1 / 165 / 330
Equipped with	1x cover strips 4HP 1x PE screw terminal 5-pole 1x N-screw terminal 5-pin Double-membrane seals (DMS20/DMS25)	1x cover strips 4HP 1x PE screw terminal 5-pole 1x N-screw terminal 5-pin Double-membrane seals (DMS20/DMS25)
Modules	4	6
H x W x D	200 x 125 x 120mm	200 x 160 x 120mm
I <sub>MAX</sub>	63 A	63 A
Material	PS / PC	PS / PC
sealable / inline configuration poss	✓ / ✓	✓ / ✓
Inserts	2x M20/M25, 12x M20	2x M20/M25, 12x M20

Accessories from page 122  
Clamping technology from page 133



Surface mounted damp area distributor IP55



Type	KV04WDKE	KV06WDKE	KV10WDKE
Version	1-row	1-row	1-row
Item no.	7240050	7240051	7240052
SU / CB / PL	1 / 50 / 600	1 / 35 / 420	1 / 25 / 300
Equipment	1x PE Screw terminal 5 pole 1x N screw terminal 5 pole Double-membrane seals (DMS20)	1x PE Screw terminal 5-pole 1x N screw terminal 5-pole Double-membrane seals (DMS20)	1x PE Screw terminal 10-pole 1x N screw terminal 10-pole Double-membrane seals (DMS20/DMS25)
Modules	4	6	10
H x W x D	180 x 125 x 90 mm	180 x 160 x 90 mm	180 x 230 x 90 mm
I <sub>MAX</sub>	63 A	63 A	63 A
Material	PS / PC	PS / PC	PS / PC
Inserts	6x M20	8x M20	2x M25, 8x M20, 4x M16

Accessories from page 122  
Clamping technology from page 133

Surface mounted automate box

## Compact housing

### For clear installation

- With 2, 4 or 6 modules
- Available without and with connectors
- For devices up to 63A
- With back panel
- With integrated standard profile rail



Type	KV02	KV04	KV06
Version	SM-automate box	SM-automate box	SM-automate box
Item no.	7260010	7260012	7260014
SU / CB / PL	1 / 80 / 2,560	1 / 84 / 1,344	1 / 56 / 896
H x W x D	140 x 50 x 65 mm	160 x 94 x 65 mm	160 x 140 x 65 mm
Colour	white	white	white
Material	PS	PS	PS
Modules	2	4	6



Type	KV02K	KV04K	KV06K
Version	SM-automate box	SM-automate box	SM-automate box
Item no.	7260011	7260013	7260015
SU / CB / PL	1 / 80 / 2,560	1 / 84 / 1,344	1 / 56 / 896
H x W x D	140 x 50 x 65 mm	160 x 94 x 65 mm	160 x 140 x 65 mm
Colour	white	white	white
Material	PS	PS	PS
Modules	2	4	6
Equipped with	PE-N terminals	PE-N terminals	PE-N terminals

Accessories from page 115  
Clamping technology from page 133

## The perfect team

With strong cohesion

- Advantage package JUMBO K, JUMBO circuit and connector set
- For hollow wall and flush installation

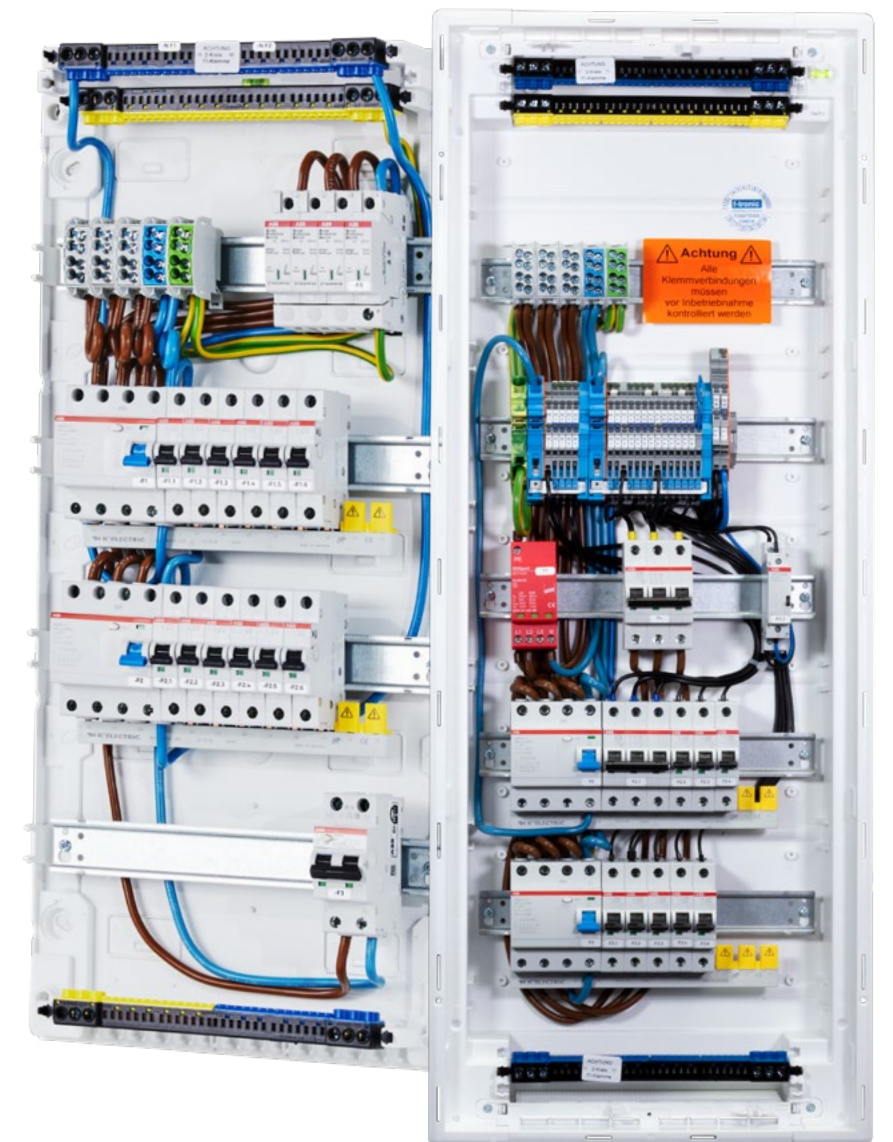


Type	JUMBO PA3	JUMBO PA4	JUMBO PA5
Version	Distribution package 3 rows	Distribution package 4 rows	Distribution package 5 rows
Item no.	7250077	7250078	7250079
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -
Equipped with	see JUMBO36 + 6 and JUMBO36K	see JUMBO48 + 8 and JUMBO48K	see JUMBO60+10 and JUMBO60K
Kit Contents	1x JUMBO36+6 1x JUMBO36K 1x VB3-Set	1x JUMBO48+8 1x JUMBO48K 1x VB4-Set	1x JUMBO60+10 1x JUMBO60K 1x VB5-Set

## The little ones are big

Equipped small distribution boards for your project

- Saves valuable working time on the construction site
- Designed to deal with the shortage of skilled workers
- Systems are tested in advance
- Documentation and circuit diagrams available
- Delivered ready for connection
- Possible with our HW/UP combination, hollow wall, flush mounted and surface mounted small distribution boards
- Expansion with high-quality brand components





## Optimised process

### The 2-step delivery form

- Delivery of the distribution components in two steps
- First the wall boxes and then the interior/supporting structure with door and frame are delivered
- Protects the installer from theft of the expensive components in the interior, as the interior is only installed shortly before connection
- Material is delivered at the optimum time for assembly
- No unnecessary storage at the installer



## Distributor connector

### A reliable connection

- Extremely stable
- Quick and easy installation
- Saves time and money
- End rail for a clean finish
- Suitable for hollow wall and flush mounting
- Ideal for combining electrical circuits and communication distributors



### Assembly instructions



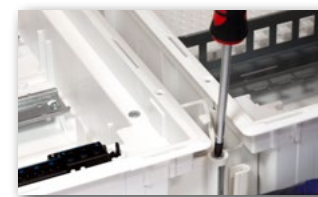
**1** Break out the screw points on the outside of the distributors.



**2** From behind, place the connecting pieces between the distributors in the guide rails.



**3** Screw the inserted connectors together from the front.



**4** Pre-mount one hollow wall anchor on each of the two connectors.



**5** Pre-mount two hollow wall anchors on the outside of each distributors.



**6** Insert the connected distributors as one unit into the wall, tighten the hollow wall anchor and click the end rail onto the gap from the front.

Type	VB3-SET	VB4-SET	VB5-SET
Version	Distributor connector set for JUMBO 3 rows	Distributor connector set JUMBO for 4 rows	Distributor connector set JUMBO for 5 rows
Item no.	7290172	7290173	7290174
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -
Material	PS	PS	PS
suitable for	HWV36+6ST JUMBO36+6 JUMBO36+6TS JUMBO36K JUMBO36KW UPV36+6ST	HWV48+8ST JUMBO48+8 JUMBO48+8TS JUMBO48K JUMBO48KW UPV48+8ST	HWV60+10ST JUMBO60+10 JUMBO60+10TS JUMBO60K JUMBO60KW JUMBO Twin UPV60+10ST

Distributor door



1-row	Type	T+RJUMBO12+2	-	-	VISION12+2TM	VISION12+2TW	-
	Item no.	7290090	-	-	7220046	7220250	-
	SU / CB / PL	1 / 12 / 96	-	-	1 / 10 / 560	1 / 10 / 560	-
2-rows	Type	T+RJUMBO24+4	-	-	VISION24+4TM	VISION24+4TW	-
	Item no.	7290091	-	-	7220052	7220251	-
	SU / CB / PL	1 / 12 / 96	-	-	1 / 10 / 320	1 / 15 / 480	-
3-rows	Type	T+RJUMBO36+6	T+RJUMBO36K	T+RJUMBO36KW	VISION36+6TM	VISION36+6TW	APVTK36TM
	Item no.	7290092	7290094	7290164	7220058	7220252	7220166
	SU / CB / PL	1 / 12 / 48	1 / 12 / 48	1 / 12 / 48	1 / 20 / 160	1 / 20 / 160	1 / 20 / -
4-rows	Type	T+RJUMBO48+8	T+RJUMBO48K	T+RJUMBO48KW	VISION48+8TM	VISION48+8TW	APVTK48TM
	Item no.	7290093	7290095	7290165	7220063	7220253	7220167
	SU / CB / PL	1 / 12 / 24	1 / 12 / 24	1 / 12 / 24	1 / 40 / 160	1 / 40 / 160	1 / 40 / -
5-rows	Type	T + R + 10 JUM-BO60	T+RJUMBO60K	T+RJUMBO60KW	-	-	-
	Item no.	7290168	7290167	7290166	-	-	-
	SU / CB / PL	1 / 1 / -	1 / 1 / -	1 / 1 / -	-	-	-
	suitable for	JUMBO	JUMBO K	JUMBO KW	VISION	VISION	VISION K
	Material	Sheet steel	Sheet steel	Steel sheet / PS	Sheet steel	PC	Sheet steel
	Suitable for WLANs	-	-	✓	-	-	-
	Vent slots	-	✓	✓	-	-	✓



Type	T+RJUMBO60-2	T+RJUMBO60-2W
Item no.	7290181	7290182
SU / CB / PL	1 / 1 / -	1 / 1 / -
suitable for	JUMBO60-2	JUMBO60-2W

Cover strips



Type	ADS12W	ADS12GR	ADS12SB
Version	Cover strips	Cover strips	Cover strips, lockable
Item no.	7290032	7290031	7110060
SU / CB / PL	10 / 500 / 16,000	10 / 500 / 16,000	10 / 500 / 16,000
PLE	up to 12	up to 12	up to 12
H x W	219 x 54 mm	219 x 54 mm	219 x 54 mm
Material	PS	PS	PS
Colour	white, RAL9016	grey, RAL7035	white, RAL9016

Door lock

Assembly instructions



Type	TSV
Version	Door lock with 2 keys
Item no.	7220086
SU / CB / PL	1 / 20 / 8,400
suitable for	JUMBO / VISION / NEPTUN
Accessories	inc. 2 keys

Distributor attachments



Type	MK-SET	MH-SET	VK-SET	HWA-SET
Version	Joining bracket	Mounting bracket set	Connecting clip set	Hollow wall anchor set
Item no.	7290097	7290098	7290107	7290079
SU / CB / PL	1 / 10 / 8,400	1 / 30 / 2,160	1 / 30 / 5,760	1 / 10 / 2,880
HW / FM	- / ✓	- / ✓	✓ / ✓	✓ / -
Kit Contents	4 pieces	4 pieces	2 pieces	4 pieces



Plug-in terminal



Type	SKN17N	SKN17PE	SKN34	SKPE34
Version	N-N-plug-in terminal	PE-N-plug-in terminal	N-type plug-in terminal	PE-plug-in terminal
Item no.	9910009	9910010	9910011	9910012
SU / CB / PL	1 / 20 / 1.440	1 / 20 / 1.440	1 / 20 / 1.440	1 / 20 / 1.440
Connections	screw-in 3x 25mm <sup>2</sup> plug-in 14x 4mm <sup>2</sup> per side	screw-in 3x 25mm <sup>2</sup> plug-in 14x 4mm <sup>2</sup> per side	screw-in 6x 25mm <sup>2</sup> plug-in 28x 4mm <sup>2</sup>	screw-in 6x 25mm <sup>2</sup> plug-in 28x 4mm <sup>2</sup>
Colour	blue	blue/yellow	blue	yellow
suitable for	rigid CU conductors	rigid CU conductors	rigid CU conductors	rigid CU conductors

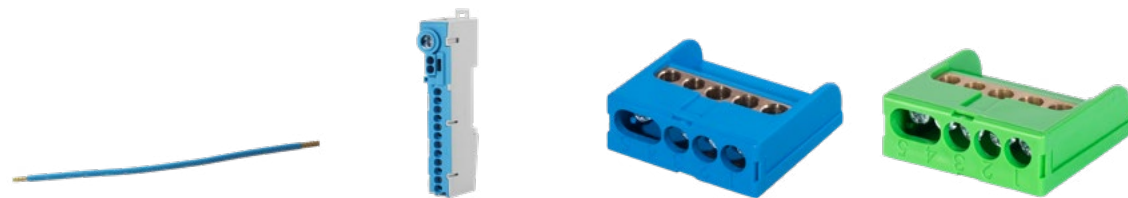


Screw terminal



Type	KN17N	KN17PE	KN34	KPE34
Version	N-N-Screw terminal	PE-N-Screw terminal	N-Screw terminal	PE Screw terminala
Item no.	7290158	7290159	7290157	7290160
SU / CB / PL	1 / 20 / 1.440	1 / 20 / 1.440	1 / 20 / 1.440	1 / 20 / 1.440
Connections	screw-in 3x 4 - 16mm <sup>2</sup> screw-in 14x 1.5 to 10mm <sup>2</sup> per side	screw-in 3x 4 - 16mm <sup>2</sup> screw-in 14x 1.5-10 mm <sup>2</sup> per side	screw-in 6x 4 - 16mm <sup>2</sup> screw-in 28x 1.5 - 10 mm <sup>2</sup>	screw-in 6x 4 - 16mm <sup>2</sup> screw-in 28x 1.5 - 10 mm <sup>2</sup>
Colour	blue	blue/yellow	blue	yellow
suitable for	rigid and flexible CU con- ductors	rigid and flexible CU con- ductors	rigid and flexible CU con- ductors	rigid and flexible CU con- ductors

Accessories



Type	PEN310	N14	FIK	PEK
Version	PE-N bridge	N-plug-in clamp	FI clamp	PE-clamp
Item no.	7110238	7110239	7290002	7290112
SU / CB / PL	1 / 20 / 4,320	1 / 10 / 4,000	1 / 30 / 8,400	1 / 30 / 8,400
Connections	-	1x 25 mm <sup>2</sup> 2x 4mm <sup>2</sup> 12x 2.5mm <sup>2</sup>	3x 16 mm <sup>2</sup> 2x 10 mm <sup>2</sup>	3x 16 mm <sup>2</sup> 2x 10 mm <sup>2</sup>
suitable for	-	rigid conductors	rigid and flexible conductors	rigid and flexible conductors

Entrance flange



Type	HWVEF	UPVEF
Version	Entrance flange HWV	Entrance flange UPV
Item no.	7290240	7290241
SU / CB / PL	1 / - / -	1 / - / -
Colour	white, RAL9016	grey, RAL7035
suitable for	HW/UP combination small distributor JUMBO HW small distributor JUMBO	UP small distributor JUMBO

Patch panel



Type	PATCH12	PATCH6+6	RJ45
Version	Patch panel for keystone mounting	Patch panel divided	Keystone-Modul (6 pcs.)
Item no.	7290116	7290183	7110087
SU / CB / PL	1 / 20 / 960	1 / 32 / 1,280	1 / - / -
Places	12x Keystone	6x Keystone, 6x coax	-
Material	Metal	Metal	
Accessories (incl.)	Adhesive label for labelling	Adhesive label for labelling	
suitable for	JUMBO K / VISION K	JUMBO K / VISION K	

Device bracket set



Type	GK45
Version	Devices bracket set for mounting of devices on the multimedia field
Item no.	7290156
SU / CB / PL	1 / - / -
Material	Metal
suitable for	JUMBO K / VISION K
Kit Contents	2x device connector, 4x screw

3-outlet socket



Type	STECKD3
Version	Socket
Item no.	7290113
SU / CB / PL	1 / 32 / 1,280
Material	PS
suitable for	JUMBO/VISION





IP 54

Type	NAB	NSTECKD	NKKL
Version	External fastening for NEPTUN	Socket set for NEPTUN	Cable connector set for NEPTUN
Item No.	7290197	7290198	7290196
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -
Kit Contents	4x Mounting tab 8x Screw	1x Schuko socket 4x screw 1x holding plate	3x cable connector 3x adapter plate 6x screws
Material	V2A	-	-
suitable for	NEPTUN	NEPTUN	NEPTUN

NEPTUN door



Type	NT1	NT2	NT3	NT4
Version	Door 1-row	Door 2-row	Door 3-row	Door 4-row
Item No.	7290201	7290202	7290203	7290204
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -	1 / - / -
suitable for	NEPTUN 1-row	NEPTUN 2-row	NEPTUN 3-row	NEPTUN 4-row
Material	PC	PC	PC	PC

NEPTUN spare parts



Type	NTS1-3	NTS4	NMKF4/26	NBS
Version	Door hinge set	Door hinge set	Membrane entry flange	Venting system
Item No.	7290205	7290206	7290210	7290208
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -	1 / - / -
suitable for	NEPTUN 1- to 3-row	NEPTUN 4-row	NEPTUN	NEPTUN
Kit Contents	2x door hinge	3x door hinge	-	2x vent membrane; 2x vent insert open

NEPTUN cable cover



Type	NKB	NKB
Version	Cable cover	Cable cover for front mounting
Item No.	7290207	7290221
SU / CB / PL	1 / 4 / -	1 / 4 / -
suitable for	NEPTUN	NEPTUN

NEPTUN connector

IP 65

## Connects NEPTUNs for unlimited installation space

- Provides enough space for any kind of through-wiring
- For more than 4 rows 48 HP wiring space
- High flexibility for installation in protected outdoor areas
- Arbitrary and infinitely combinable
- IP65 protection class is maintained

### Assembly instructions



1 Click out the entry flange of the NEPTUN damp area distributor.



2 Remove flange.



3 Insert the NEPTUN connector into the opening using the click system.



4 Finished!



Type	NVB
Version	NEPTUN connector
Item no.	7290217
SU / CB / PL	1 / - / -





Type	STM25	STM32
Version	Stepped collar M25	Stepped collar M32
Item no.	7290086	7290087
SU / CB / PL	20 / 800 / 51,200	20 / 600 / 38,400
Material	PVC	PVC
Colour	grey	grey



Type	DMS20	DMS25	DMS32
Version	double-membrane seals M20	double-membrane seals M25	double-membrane seals M32
Item no.	7290059	7290060	7290061
SU / CB / PL	20 / 1,000 / 64,000	20 / 800 / 51,200	20 / 600 / 38,400
Material	PVC	PVC	PVC
Colour	grey	grey	grey
Line diameter	Ø 7 - 12 mm	Ø 12 - 18 mm	Ø 14 - 23 mm



Type	APV4T	APV6T
Version	Spare door for APV4	Spare door for APV6
Item no.	7290114	7290115
SU / CB / PL	1 / 12 / 3,072	1 / 7 / 2,240
Colour	PC smoky topaz	PC smoky topaz

## Perfect in combination: NEPTUN Compact damp area distribution boxes and NEPTUN damp area distributors

More information on the NEPTUN Compact distribution boxes can be found from page 53 onwards.





## Large distributors for intelligent installation technology

- Generous cable entries at the bottom, top and back of each field width
- Upper and lower cable entry with membrane puncture, allowing quick and easy handling without additional tools
- All covers with lateral bulkheads
- From three field widths with double door
- Various lock variants are possible - even DIN cylinder lock
- Incl. 1x ZSSKN17N and 1x ZSSKPE34 plug-in terminal per field



		1-field	2-fields	3-fields	4-fields
3-rows	Type		FV2-3*	FV3-3*	
	Item no.		7110220	7110221	
	SU / CB / PL		1 / 1 / 24	1 / 1 / 15	
	Modules		72	108	
	H x W x D		500 x 550 x 165 mm	500 x 800 x 165 mm	
Material			Sheet steel	Sheet steel	
4-rows	Type	FV1-4	FV2-4	FV3-4	
	Item no.	7110222	7110223	7110224	
	SU / CB / PL	1 / 1 / 40	1 / 1 / 24	1 / 1 / 15	
	Modules	48	96	144	
	H x W x D	650 x 300 x 165mm	650 x 550 x 165 mm	650 x 800 x 165 mm	
Material		Sheet steel	Sheet steel	Sheet steel	
5-rows	Type	FV1-5*	FV2-5*	FV3-5*	FV4-5*
	Item no.	7110225	7110226	7110227	7110228
	SU / CB / PL	1 / 1 / 20	1 / 1 / 16	1 / 1 / 10	1 / 1 / 6
	Modules	60	120	180	240
	H x W x D	800 x 300 x 165mm	800 x 550 x 165 mm	800 x 800 x 165 mm	800 x 1050 x 165mm
Material		Sheet steel	Sheet steel	Sheet steel	Sheet steel
6 rows	Type	FV1-6	FV2-6	FV3-6	FV4-6
	Item no.	7110229	7110230	7110231	7110232
	SU / CB / PL	1 / 1 / 18	1 / 1 / 10	1 / 1 / 8	1 / 1 / 6
	Modules	72	144	216	288
	H x W x D	950 x 300 x 165mm	950 x 550 x 165 mm	950 x 800 x 165 mm	950 x 1050 x 165mm
Material		Sheet steel	Sheet steel	Sheet steel	Sheet steel

\*Note door distance to REG. No modular devices may be mounted behind the handle.

## Lots of space for maximum distribution

- Housing in an appealing design of 1mm thickness, powder coated steel plate
- Unique, push-out fastening system, thus rapid and flexible wall mounting
- Door can be removed without tools and can be affixed to the left or right
- Large door opening angle
- Includes cover strips and PE-N plug-in connectors in scope of delivery
- Retractable mounting rails
- Large wiring space behind the top hat rails
- Cabinet depth incl. mounting straps 210mm
- Incl. 1x ZSSKN17N and 1x ZSSKPE34 plug-in terminal per field



		1-field	2-fields	3-fields	4-fields	5-fields
6 rows	Type	VS1-6	VS2-6	VS3-6	VS4-6	VS5-6
	Item no.	7110440	7110441	7110442	7110443	7110444
	SU / CB / PL	1 / 1 / 15	1 / 1 / 8	1 / 1 / 7	1 / 1 / 3	1 / 1 / 3
	Modules	72	144	216	288	360
	H x W x D	950 x 300 x 210mm	950 x 550 x 210mm	950 x 800 x 210mm	950 x 1050 x 210mm	950 x 1300 x 210mm
Material		Sheet steel	Sheet steel	Sheet steel	Sheet steel	Sheet steel
7 rows	Type	VS1-7	VS2-7	VS3-7	VS4-7	VS5-7
	Item no.	7110445	7110446	7110447	7110448	7110449
	SU / CB / PL	1 / 1 / 15	1 / 1 / 8	1 / 1 / 5	1 / 1 / 3	1 / 1 / 3
	Modules	84	168	252	336	420
	H x W x D	1100 x 300 x 210 mm	1100 x 550 x 210 mm	1100 x 800 x 210 mm	1100 x 1050 x 210 mm	1100 x 1300 x 210 mm
Material		Sheet steel	Sheet steel	Sheet steel	Sheet steel	Sheet steel
8 rows	Type	VS1-8	VS2-8	VS3-8	VS4-8	VS5-8
	Item no.	7110450	7110451	7110452	7110453	7110454
	SU / CB / PL	1 / 1 / 8	1 / 1 / 6	1 / 1 / 5	1 / 1 / 3	1 / 1 / 3
	Modules	96	192	288	384	480
	H x W x D	1250 x 300 x 210 mm	1250 x 550 x 210 mm	1250 x 800 x 210 mm	1250 x 1050 x 210 mm	1250 x 1300 x 210 mm
Material		Sheet steel	Sheet steel	Sheet steel	Sheet steel	Sheet steel
9 rows	Type	VS1-9	VS2-9	VS3-9	VS4-9	VS5-9
	Item no.	7110455	7110456	7110457	7110458	7110459
	SU / CB / PL	1 / 1 / 8	1 / 1 / 6	1 / 1 / 5	1 / 1 / 3	1 / 1 / 3
	Modules	108	216	324	432	540
	H x W x D	1400 x 300 x 210 mm	1400 x 550 x 210 mm	1400 x 800 x 210 mm	1400 x 1050 x 210 mm	1400 x 1300 x 210 mm
Material		Sheet steel	Sheet steel	Sheet steel	Sheet steel	Sheet steel



## More than just distribution

### Additional space for communication



- Housing in attractive design made of powder-coated sheet steel
- 3-level adjustable top-hat rail as standard
- Upper and lower cable entries with push-through membrane
- From 3-bay enclosure equipped with double door
- Door hinge can be changed without tools
- Cabinet depth incl. mounting straps 165 mm
- Incl. 1x ZSSKN17N and 1x ZSSKPE34 plug-in terminal per field
- Incl. Accessories package MVAP1 (1x 3-way socket outlet, 1x device connector set, 10x cable connector, 1x patch panel, 6x keystone module)
- Recommended purchase: Swivel handle with half cylinder profile

		2-fields	3-fields		4-fields
3-rows	Type	FV2-3-M1*	FV3-3-M1*	FV3-3-M2*	
	Item No.	7110170	7110171	7110172	
	SU/CB/PL	1 / 1 / 24	1 / 1 / 15	1 / 1 / 15	
	Modules	36	72	36	
	Communication fields	1	1	2	
	H x W x D	500 x 550 x 165 mm	500 x 800 x 165 mm	500 x 800 x 165 mm	

		FV2-4-M1	FV3-4-M1	FV3-4-M2	
4-rows	Type	FV2-4-M1	FV3-4-M1	FV3-4-M2	
	Item No.	7110173	7110174	7110175	
	SU/CB/PL	1 / 1 / 24	1 / 1 / 15	1 / 1 / 15	
	Modules	48	96	48	
	Communication fields	1	1	2	
H x W x D	650 x 550 x 165 mm	650 x 800 x 165 mm	650 x 800 x 165 mm		

		FV2-5-M1*	FV3-5-M1*	FV3-5-M2*	FV4-5-M2*
5-rows	Type	FV2-5-M1*	FV3-5-M1*	FV3-5-M2*	FV4-5-M2*
	Item No.	7110176	7110177	7110178	7110179
	SU/CB/PL	1 / 1 / 16	1 / 1 / 10	1 / 1 / 10	1 / 1 / 6
	Modules	60	120	60	120
	Communication fields	1	1	2	2
H x W x D	800 x 550 x 165 mm	800 x 800 x 165 mm	800 x 800 x 165 mm	800 x 1,050 x 165 mm	

		FV2-6-M1	FV3-6-M1	FV3-6-M2	FV4-6-M2
6 rows	Type	FV2-6-M1	FV3-6-M1	FV3-6-M2	FV4-6-M2
	Item No.	7110180	7110181	7110182	7110183
	SU/CB/PL	1 / 1 / 10	1 / 1 / 8	1 / 1 / 8	1 / 1 / 6
	Modules	72	144	72	144
	Communication fields	1	1	2	2
	H x W x D	950 x 550 x 165 mm	950 x 800 x 165 mm	950 x 800 x 165 mm	950 x 1,050 x 165 mm

\*Note door distance to REG. No modular devices may be mounted behind the handle.

Accessories from page 130

## Even more space

### To distribute and communicate



- Housing in attractive design made of powder-coated sheet steel
- 3-level adjustable top-hat rail as standard
- Upper and lower cable entries with push-through membrane
- From 3-bay enclosure equipped with double door
- Door hinge can be changed without tools
- Cabinet depth incl. mounting straps 210mm
- Incl. 1x ZSSKN17N and 1x ZSSKPE34 plug-in terminal per field
- Incl. Accessories package MVAP1 (1x 3-way socket outlet, 1x device connector set, 10x cable connector, 1x patch panel, 6x keystone module)
- Recommended purchase: Swivel handle with half cylinder profile

		2-fields	3-fields		4-fields
6 rows	Type	VS2-6-M1	VS3-6-M1	VS3-6-M2	VS4-6-M2
	Item No.	7110460	7110461	7110462	7110463
	SU/CB/PL	1 / 1 / 8	1 / 1 / 7	1 / 1 / 7	1 / 1 / 3
	Modules	72	144	72	144
	Communication fields	1	1	2	2
	H x W x D	950 x 550 x 210 mm	950 x 800 x 210 mm	950 x 800 x 210 mm	950 x 1,050 x 210 mm

		VS2-7-M1	VS3-7-M1	VS3-7-M2	VS4-7-M2
7 rows	Type	VS2-7-M1	VS3-7-M1	VS3-7-M2	VS4-7-M2
	Item No.	7110464	7110465	7110466	7110467
	SU/CB/PL	1 / 1 / 8	1 / 1 / 5	1 / 1 / 5	1 / 1 / 3
	Modules	84	168	84	168
	Communication fields	1	1	2	2
H x W x D	1,100 x 550 x 210 mm	1,100 x 800 x 210 mm	1,100 x 800 x 210 mm	1,100 x 1050 x 210 mm	

		VS2-8-M1	VS3-8-M1	VS3-8-M2	VS4-8-M2
8 rows	Type	VS2-8-M1	VS3-8-M1	VS3-8-M2	VS4-8-M2
	Item No.	7110468	7110469	7110470	7110471
	SU/CB/PL	1 / 1 / 6	1 / 1 / 5	1 / 1 / 5	1 / 1 / 3
	Modules	96	192	96	192
	Communication fields	1	1	2	2
H x W x D	1,250 x 550 x 210 mm	1,250 x 800 x 210 mm	1,250 x 800 x 210 mm	1,250 x 1,050 x 210 mm	

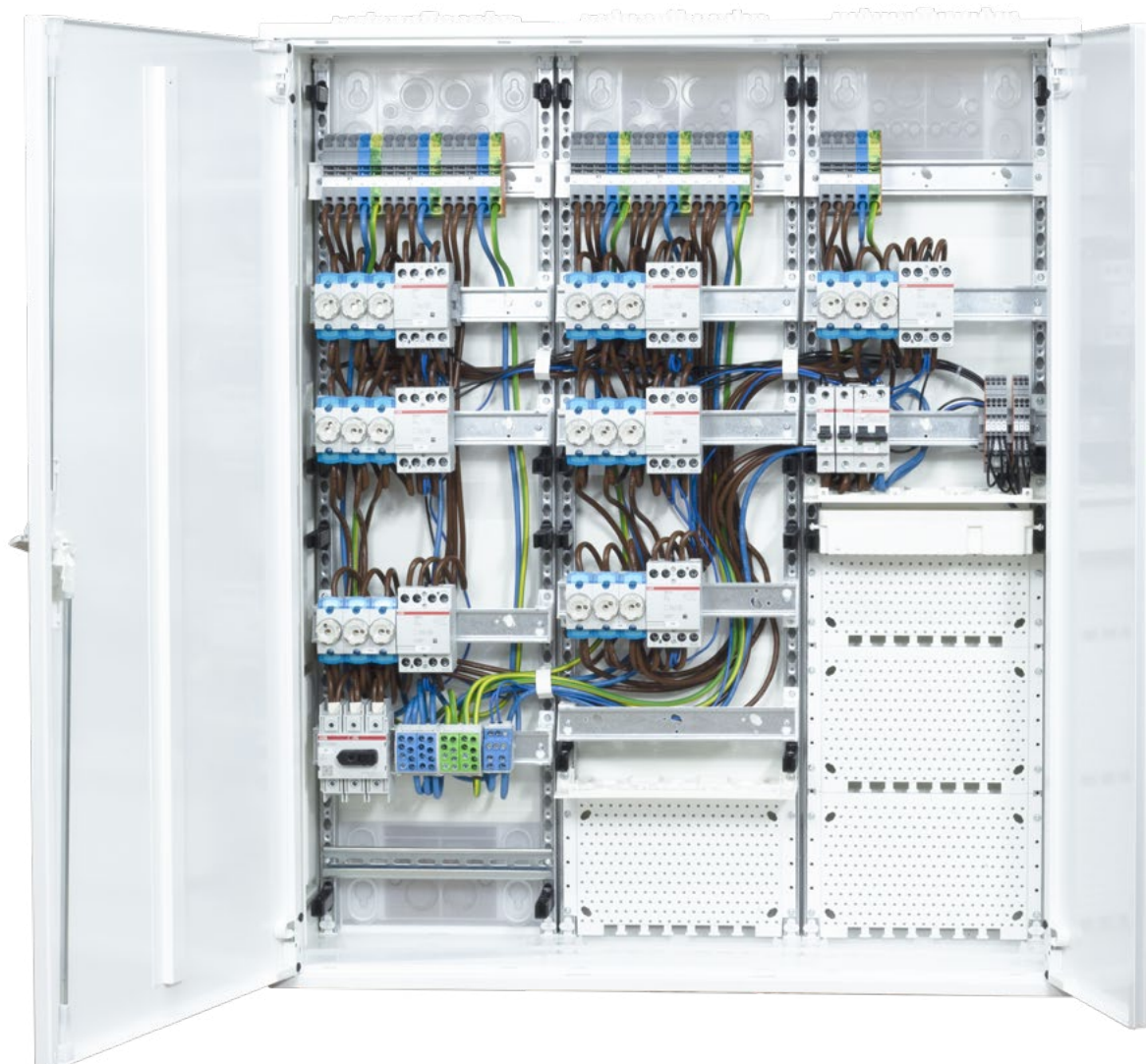
		VS2-9-M1	VS3-9-M1	VS3-9-M2	VS4-9-M2
9 rows	Type	VS2-9-M1	VS3-9-M1	VS3-9-M2	VS4-9-M2
	Item No.	7110472	7110473	7110474	7110475
	SU/CB/PL	1 / 1 / 6	1 / 1 / 5	1 / 1 / 5	1 / 1 / 3
	Modules	108	216	108	216
	Communication fields	1	1	2	2
	H x W x D	1,400 x 550 x 210 mm	1,400 x 800 x 210 mm	1,400 x 800 x 210 mm	1,400 x 1,050 x 210 mm

Accessories from page 130

## Space for more distribution

### Project-specific and customised

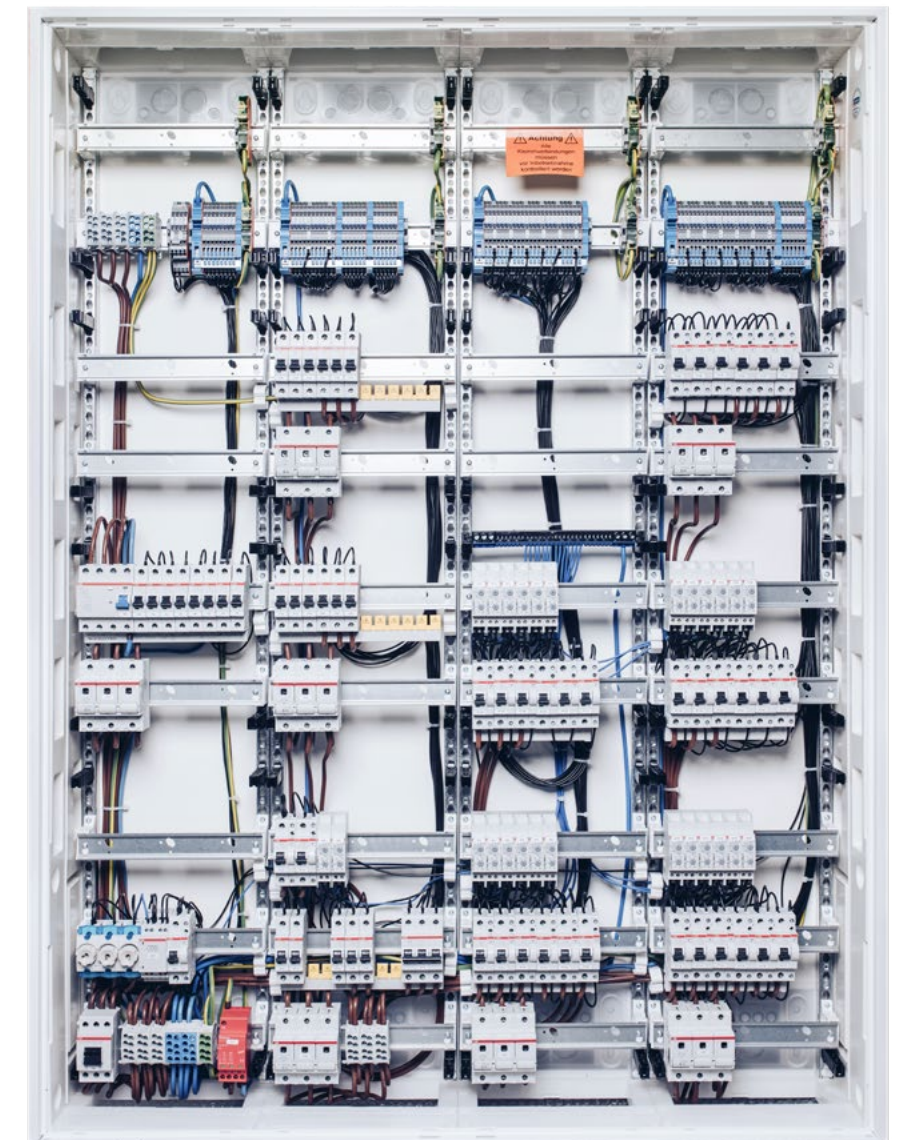
- Individually planned, constructed or pre-wired field distributors
- With selected components for your application
- Ideal for intelligent installation technology in large projects
- Saves time and money
- Up to 4-row and 3- to 6-row version
- 165 mm housing depth
- Generous cable entries on the bottom, top and rear sides
- Piercing membrane at the upper and lower cable inlet
- Quick and easy handling without additional tools
- Available as FV media distributors with communication fields



## Customised and spacious

### Even more space in distribution

- Distribution cabinets planned, removed or pre-wired according to your requirements
- With selected components for your large-scale project
- Ideal for intelligent installation technology
- Up to 5-row and 6- to 9-row version
- 210 mm housing depth
- Attractive design made of 1 mm thick, powder-coated sheet steel
- Unique slide-out mounting system that allows for quick and flexible wall mounting
- Available as VS media distributor with several communication fields







Plug-in terminal



Type	ZSSKN34	ZSSKPE34	ZSSKN17PE	ZSSKN17N
Version	N-type plug-in connector	PE-plug-in terminal	PE-N-plug-in terminal	N-N-plug-in terminal
Item no.	7111100	7111101	7111102	7111103
SU / CB / PL	1 / 20 / 1.440	1 / 20 / 1.440	1 / 20 / 1.440	1 / 20 / 1.440
Connections	screwable 6x 25 mm <sup>2</sup> pluggable 28x 4 mm <sup>2</sup>	screwable 6x 25 mm <sup>2</sup> pluggable 28x 4 mm <sup>2</sup>	screwable 3x 25 mm <sup>2</sup> pluggable 14x 4 mm <sup>2</sup> per side	screwable 3x 25 mm <sup>2</sup> pluggable 14x 4 mm <sup>2</sup> per side
Colour	blue	yellow	blue/yellow	blue
suitable for	rigid CU conductors	rigid CU conductors	rigid CU conductors	rigid CU conductors



Screw terminal



Type	ZSN34	ZSPE34	ZSN17PE	ZSN17N
Version	N-Screw connector	PE Screw terminal	PE-N-Screw connector	N-N-Screw connector
Item no.	7111104	7111105	7111106	7111107
SU / CB / PL	1 / 20 / 1.440	1 / 20 / 1.440	1 / 20 / 1.440	1 / 20 / 1.440
Connections	screwable 6 x 4-16 mm <sup>2</sup> screwable 28x 1.5 -10 mm <sup>2</sup>	screwable 6 x 4-16 mm <sup>2</sup> screwable 28x 1.5 -10 mm <sup>2</sup>	screwable 3 x 4-16 mm <sup>2</sup> screwable 14x 1.5 - 10 mm <sup>2</sup> per side	screwable 3 x 4-16 mm <sup>2</sup> screwable 14x 1.5 - 10 mm <sup>2</sup> per side
Colour	blue	yellow	blue/yellow	blue
suitable for	rigid and flexible CU conductors	rigid and flexible CU conductors	rigid and flexible CU conductors	rigid and flexible CU conductors

Accessories



Type	KKL
Version	Cable connector for ZS and distributor
Item no.	7110056
SU / CB / PL	10 / - / -
Material	PA6
suitable for	ZS DIN rail and Communication fields

Door hinge



Type	ZSTS
Version	Door hinge set upper/lower
Item no.	7110118
SU / CB / PL	1 / 10 / -
suitable for	Meter cabinet, field distributors, distribution cabinet

Door handle



Type	ZSTGN	ZSTGB	ZSTGSE	ZSTGSES
Version	Door handle	Door handle with labelling field	Door handle with senate lock	Key for Senate lock
Item No.	7110099	7110100	7110101	7110102
SU / CB / PL	1 / 10 / -	1 / 10 / -	1 / 10 / -	1 / 10 / -

DIN rail



Type	HU-Set
Version	DIN rail incl. holder + screws
Item no.	7110038
SU / CB / PL	1 / 10 / -
suitable for	Meter cabinet, field distributors, distribution cabinet



Lever handle

Type	ZSSBG-N
Version	Pivoted handle with Semi-cylinder
Item no.	7110122
SU / CB / PL	1 / - / -
suitable for	Meter cabinet, field distributors, distribution cabinet



Pivoted handle with push rod



Type	ZSSBG-5*	ZSSBG-6*	ZSSBG-7*	ZSSBG-1*
Version	Swivel handle with half cylinder profile	Swivel handle with half cylinder profile	Swivel handle with half cylinder profile	Swivel handle with half cylinder profile
Item no.	7110123	7110124	7110125	7110126
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -	1 / - / -
suitable for	Height 500mm	Height 650mm	Height 800mm	Height 950mm

Type	ZSSBG-2	ZSSBG-3	ZSSBG-4
Version	Swivel handle with half cylinder profile	Swivel handle with half cylinder profile	Swivel handle with half cylinder profile
Item no.	7110127	7110128	7110129
SU / CB / PL	1 / - / -	1 / - / -	1 / - / -
suitable for	Overall height 1100mm	Overall height 1,250mm	Overall height 1,400mm

\*In field distributors (depth 165 mm), no modular devices may be mounted behind the handle.

Fuse cover

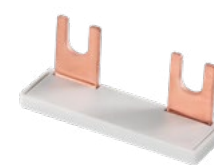


Type	SIAD-20-S	SIAD-2G-S	SIAD-30-S	SIAD-3G-S
Version	Fuse cover 2 rows	Fuse cover 2 rows	Fuse cover 3 rows	Fuse cover 3 rows
Item no.	7110623	7110624	7110625	7110626
SU / CB / PL	1 / 1 / -	1 / 1 / -	1 / 1 / -	1 / 1 / -
Equipped with	including screws	including screws	including screws and mounting domes	including screws and mounting domes

Clamping technology



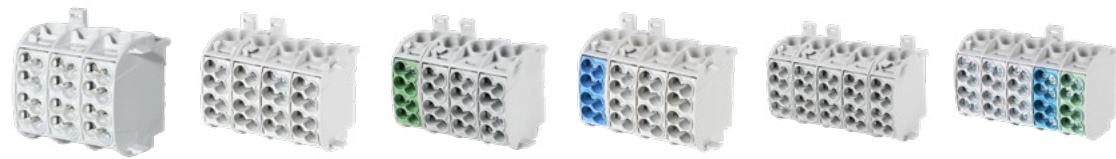
Type	PDB160	PDB210	PDB220	PDB270	PDB400	PDB490
Version	Phase distribution block 160 A	Phase distribution block 210 A	Phase distribution block 220 A	Phase distribution block 270 A	Phase distribution block 400 A	Phase distribution block 490 A
Item no.	7110136	7110137	7110138	7110139	7110143	7110146
SU / CB / PL	1 / 28 / 1,344	1 / 28 / 1,344	1 / 28 / 1,344	1 / 28 / 1,440	1 / 28 / 1,440	1 / 28 / 1,440
Colour	grey/transparent	grey/transparent	grey/transparent	grey/transparent	grey/transparent	grey/transparent
Number of pins	1	1	1	1	1	1
Connection points	1x 2.5 - 25mm <sup>2</sup> 1x phase rail fork M6 or 1x 1.5 to 16mm <sup>2</sup> (Circular conductor) 3x 1.5 - 10mm <sup>2</sup> (Circular conductor) 2x 1.5 to 25mm <sup>2</sup> (Circular conductor)	1x 4 - 35 mm <sup>2</sup> (Circular conductor) 1x phase rail fork M6 or 1x 1.5 to 16mm <sup>2</sup> (Circular conductor) 3x 1.5 to 16mm <sup>2</sup> (Circular conductor) 2x 2.5 to 25mm <sup>2</sup> (circular conductor)	1x 10 - 70mm <sup>2</sup> (Circular conductor) 1x flat conductor 15mm wide 2 - 5mm thick 3x 25 mm <sup>2</sup> (Circular conductor) 2x 35 mm <sup>2</sup> (Circular conductor)	1x 16 - 95mm <sup>2</sup> (Circular conductor) 2x 4 - 35mm <sup>2</sup> (Circular conductor) 8x 2.5 to 25mm <sup>2</sup> (Circular conductor)	1x 35-120mm <sup>2</sup> (Circular conductor) 1x flat conductor 24 mm wide 3-5mm thick 2x 35 mm <sup>2</sup> (Circular conductor) 3x 25 mm <sup>2</sup> (Circular conductor) 4x 16 mm <sup>2</sup> (Circular conductor)	1x 95 - 185 mm <sup>2</sup> (Circular conductor) 1x flat conductor 24 mm wide 3-5mm thick 2x 35 mm <sup>2</sup> (Circular conductor) 3x 25 mm <sup>2</sup> (Circular conductor) 4x 16 mm <sup>2</sup> (Circular conductor)
suitable for	CU conductor	CU conductor	CU conductor	CU conductor	CU conductor	CU conductor



Type	PDB160-2	PDB160-3	PDB210-2	PDB210-3
Version	Busbar bridge for PDB2x100, 2 Modules	Busbar bridge for PDB3x100, 3 modules	Busbar bridge for PDB2x125, 2 Modules	Busbar bridge for PDB3x125, 3 modules
Item no.	7110263	7110264	7110265	7110266
SU / CB / PL	20/360/14.440	20/360/14.440	20/360/14.440	20/360/14.440



Type	HAK1p25gr	HAK1p25bl	HAK1p25gnge	HAK1p25br	HAK1p25sw
Version	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal
Item No.	7110188	7110189	7110190	7110191	7110192
SU / CB / PL	5 / 60 / 3,840	5 / 60 / 3,840	5 / 60 / 3,840	5 / 60 / 3,840	5 / 60 / 3,840
Colour	grey	blue	green/yellow	brown	black
Number of pins	1	1	1	1	1
connection points	2x ≤ 25 mm <sup>2</sup> 2x ≤ 16 mm <sup>2</sup>	2x ≤ 25 mm <sup>2</sup> 2x ≤ 16 mm <sup>2</sup>	2x ≤ 25 mm <sup>2</sup> 2x ≤ 16 mm <sup>2</sup>	2x ≤ 25 mm <sup>2</sup> 2x ≤ 16 mm <sup>2</sup>	2x ≤ 25 mm <sup>2</sup> 2x ≤ 16 mm <sup>2</sup>
Connections	25 mm <sup>2</sup>	25 mm <sup>2</sup>	25 mm <sup>2</sup>	25 mm <sup>2</sup>	25 mm <sup>2</sup>
suitable for	CU conductor	CU conductor	CU conductor	CU conductor	CU conductor



Type	HAK3p25gr	HAK4p25gr	HAK4p25grgn	HAK4p25grbl	HAK5p25gr	HAK5p25grblgn
Version	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal
Item No.	7110194	7110233	7110234	7110235	7110236	7110237
SU / CB / PL	2 / 24 / 1,536	1 / 12 / 960	1 / 12 / 960	1 / 12 / 960	1 / 12 / 768	1 / 12 / 768
Colour	grey	grey	grey, green	grey, blue	grey	grey, blue, green
Number of pins	3	4	4	4	5	5
connection points	6x ≤ 25 mm <sup>2</sup> 6x ≤ 16 mm <sup>2</sup>	8x ≤ 25 mm <sup>2</sup> 8x ≤ 16 mm <sup>2</sup>	8x ≤ 25 mm <sup>2</sup> 8x ≤ 16 mm <sup>2</sup>	8x ≤ 25 mm <sup>2</sup> 8x ≤ 16 mm <sup>2</sup>	10x ≤ 25 mm <sup>2</sup> 10x ≤ 16 mm <sup>2</sup>	10x ≤ 25 mm <sup>2</sup> 10x ≤ 16 mm <sup>2</sup>
Connections	25 mm <sup>2</sup>	25 mm <sup>2</sup>	25 mm <sup>2</sup>	25 mm <sup>2</sup>	25 mm <sup>2</sup>	25 mm <sup>2</sup>
suitable for	CU conductor	CU conductor	CU conductor	CU conductor	CU conductor	CU conductor



Type	HAK1p35gr	HAK1p35bl	HAK1p35gnge	HAK1p35br	HAK1p35sw
Version	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal
Item No.	7110195	7110196	7110197	7110198	7110199
SU / CB / PL	5 / 60 / 2,880	5 / 60 / 2,880	5 / 60 / 2,880	5 / 60 / 2,880	3 / 36 / 1,728
Colour	grey	blue	green/yellow	brown	black
Number of pins	1	1	1	1	1
connection points	2x ≤ 35 mm <sup>2</sup> 2x ≤ 25 mm <sup>2</sup>	2x ≤ 35 mm <sup>2</sup> 2x ≤ 25 mm <sup>2</sup>	2x ≤ 35 mm <sup>2</sup> 2x ≤ 25 mm <sup>2</sup>	2x ≤ 35 mm <sup>2</sup> 2x ≤ 25 mm <sup>2</sup>	2x ≤ 35 mm <sup>2</sup> 2x ≤ 25 mm <sup>2</sup>
Connections	35 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>
suitable for	CU conductor	CU conductor	CU conductor	CU conductor	CU conductor



Type	HAK1p70gr	HAK1p70bl	HAK1p70gnge	HAK1p70br	HAK1p70sw
Version	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal
Item No.	7110201	7110202	7110203	7110204	7110205
SU / CB / PL	3 / 36 / 1,728	3 / 36 / 1,728	3 / 36 / 1,728	3 / 36 / 1,728	3 / 36 / 1,728
Colour	grey	blue	green/yellow	brown	black
Number of pins	1	1	1	1	1
connection points	2x ≤ 70 mm <sup>2</sup> 2x ≤ 50 mm <sup>2</sup>	2x ≤ 70 mm <sup>2</sup> 2x ≤ 50 mm <sup>2</sup>	2x ≤ 70 mm <sup>2</sup> 2x ≤ 50 mm <sup>2</sup>	2x ≤ 70 mm <sup>2</sup> 2x ≤ 50 mm <sup>2</sup>	2x ≤ 70 mm <sup>2</sup> 2x ≤ 50 mm <sup>2</sup>
Connections	70 mm <sup>2</sup>	2x ≤ 50 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>	70 mm <sup>2</sup>
suitable for	CU conductor	CU conductor	CU conductor	CU conductor	CU conductor



Type	UVB100gr	UVB100bl	UVB100gnge
Version	Sub-distribution block	Sub-distribution block	Sub-distribution block
Item No.	7110206	7110207	7110208
SU / CB / PL	3 / 42 / 2,688	3 / 42 / 2,688	3 / 42 / 2,688
Colour	grey	blue	green
Number of pins	1	1	1
Feed-in connector points	2x 2.5 to 25mm <sup>2</sup>	2x 2.5 to 25mm <sup>2</sup>	2x 2.5 to 25mm <sup>2</sup>
Distributor connector points	6x 1.5 to 10mm <sup>2</sup>	6x 1.5 to 10mm <sup>2</sup>	6x 1.5 to 10mm <sup>2</sup>
suitable for	CU conductor	CU conductor	CU conductor



Type	HAK1p35Dgr	HAK1p35Dbl	HAK1p35Dgnge	HAK1p35Dbr	HAK1p35Dsw
Version	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal	Main branch terminal
Item No.	7110267	7110268	7110269	7110270	7110271
SU / CB / PL	2 / 24 / 1,536	2 / 24 / 1,536	2 / 24 / 1,536	2 / 24 / 1,536	2 / 24 / 1,536
Colour	grey	blue	green, yellow	brown	black
Number of pins	1	1	1	1	1
connection points	4x ≤ 35 mm <sup>2</sup> 4x ≤ 25 mm <sup>2</sup>	4x ≤ 35 mm <sup>2</sup> 4x ≤ 25 mm <sup>2</sup>	4x ≤ 35 mm <sup>2</sup> 4x ≤ 25 mm <sup>2</sup>	4x ≤ 35 mm <sup>2</sup> 4x ≤ 25 mm <sup>2</sup>	4x ≤ 35 mm <sup>2</sup> 4x ≤ 25 mm <sup>2</sup>
Connections	35 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>	35 mm <sup>2</sup>
suitable for	CU conductor	CU conductor	CU conductor	CU conductor	CU conductor

# Meter cabinet systems

Progress, that counts.

With the **f-tronic®** Meter cabinet systems, we are completely focussed on the needs of our customers - the building contractors and installers. With our components and complete cabinets, we offer customers customised solutions that are easy to use. Our Meter cabinet systems cover the entire spectrum of energy distribution, from meter cabinets and transformer cabinets to advanced meter connection columns.

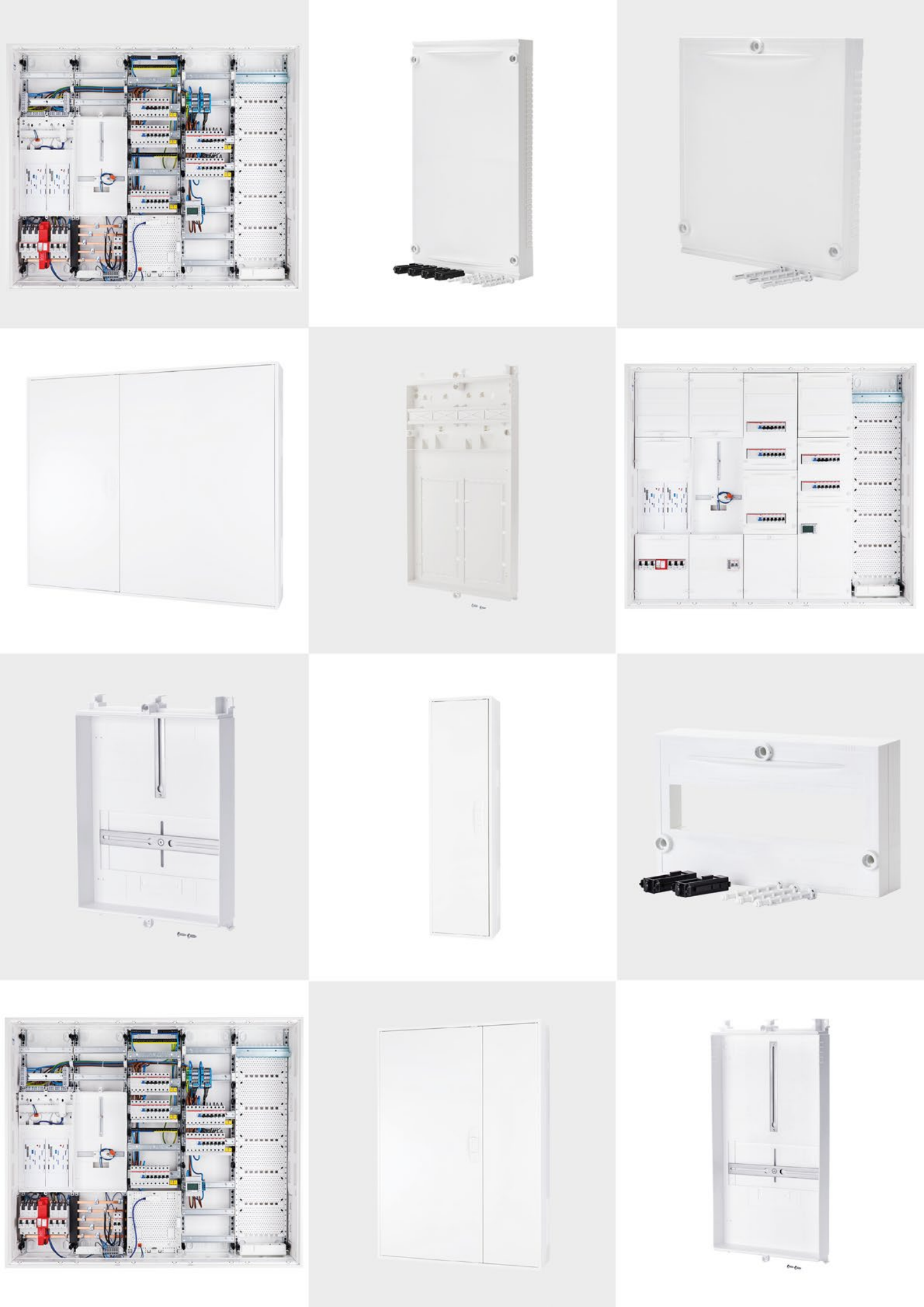
In these fast-moving times, where technological advances set the pace, adaptability is key. At **f-tronic®** we recognise the need to stay in tune with technological change. As a result, we have overhauled and completely renewed our entire range of meter cabinets: it's time for the next generation.

### The Power Series

Versatile, convenient, time-saving - that's the Power Series, combining the technologies of today with those of the future and thus safeguarding installers and customers alike. Our new meter cabinet product series sets standards, as it takes into account not only the current but also the future requirements of energy distribution. Through continuous further development, we have created a system that not only fulfils today's standards, but is also equipped for the dynamic developments and innovations of the future. This makes it easy to switch over by installing heat pumps, photovoltaic systems and wall boxes.

Experience a new level of convenience. The new meter cabinets have been designed with user-friendliness in mind, from the intuitive arrangement of components to innovative functions that simplify and optimise the installation process.

Experience the future of energy distribution with **f-tronic®**.



Installation boxes

Fire protection systems

Fastening systems

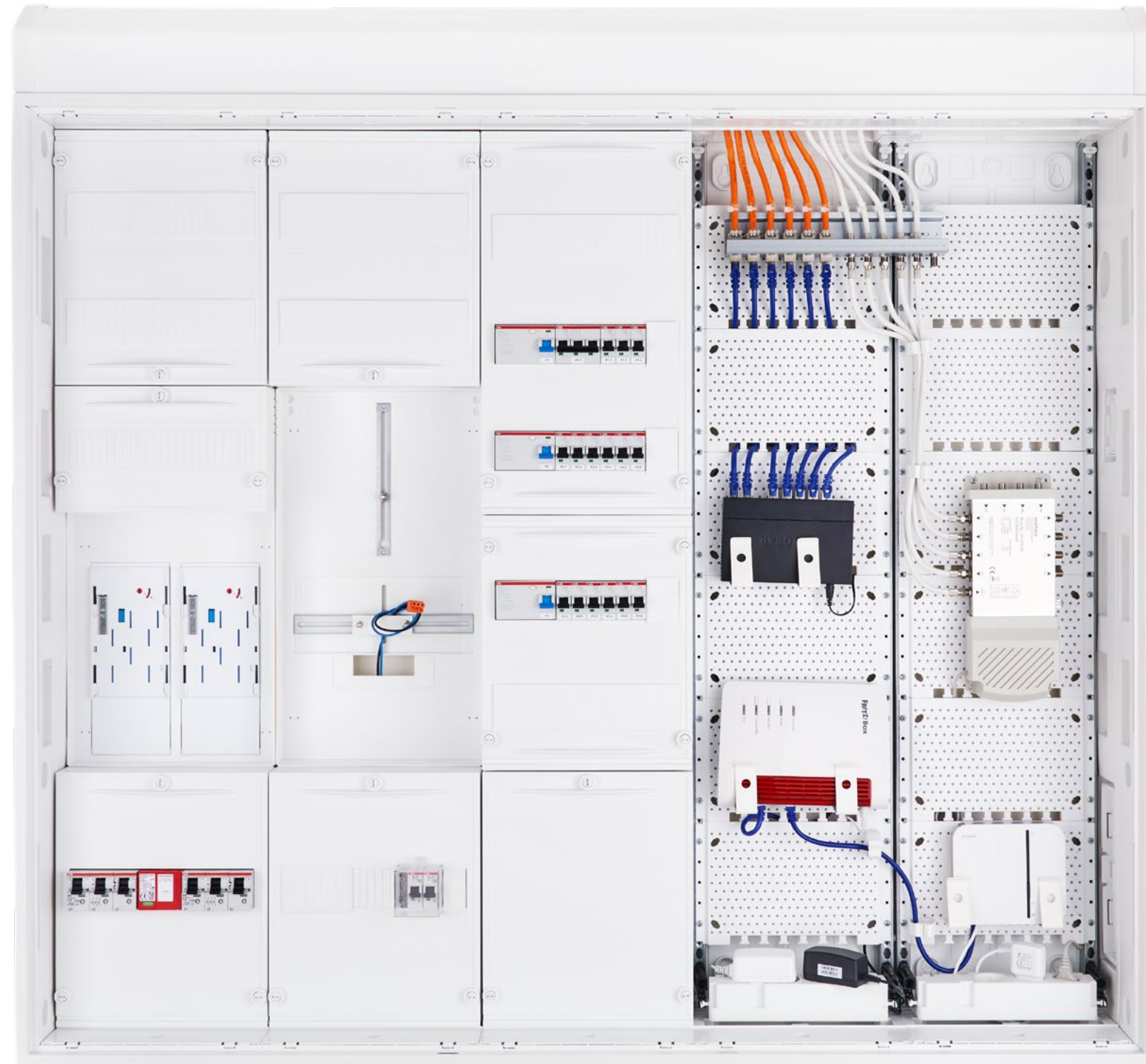
Distribution boards

Meter cabinet systems



# The Power Series

The next generation of f-tronic® Meter cabinet systems



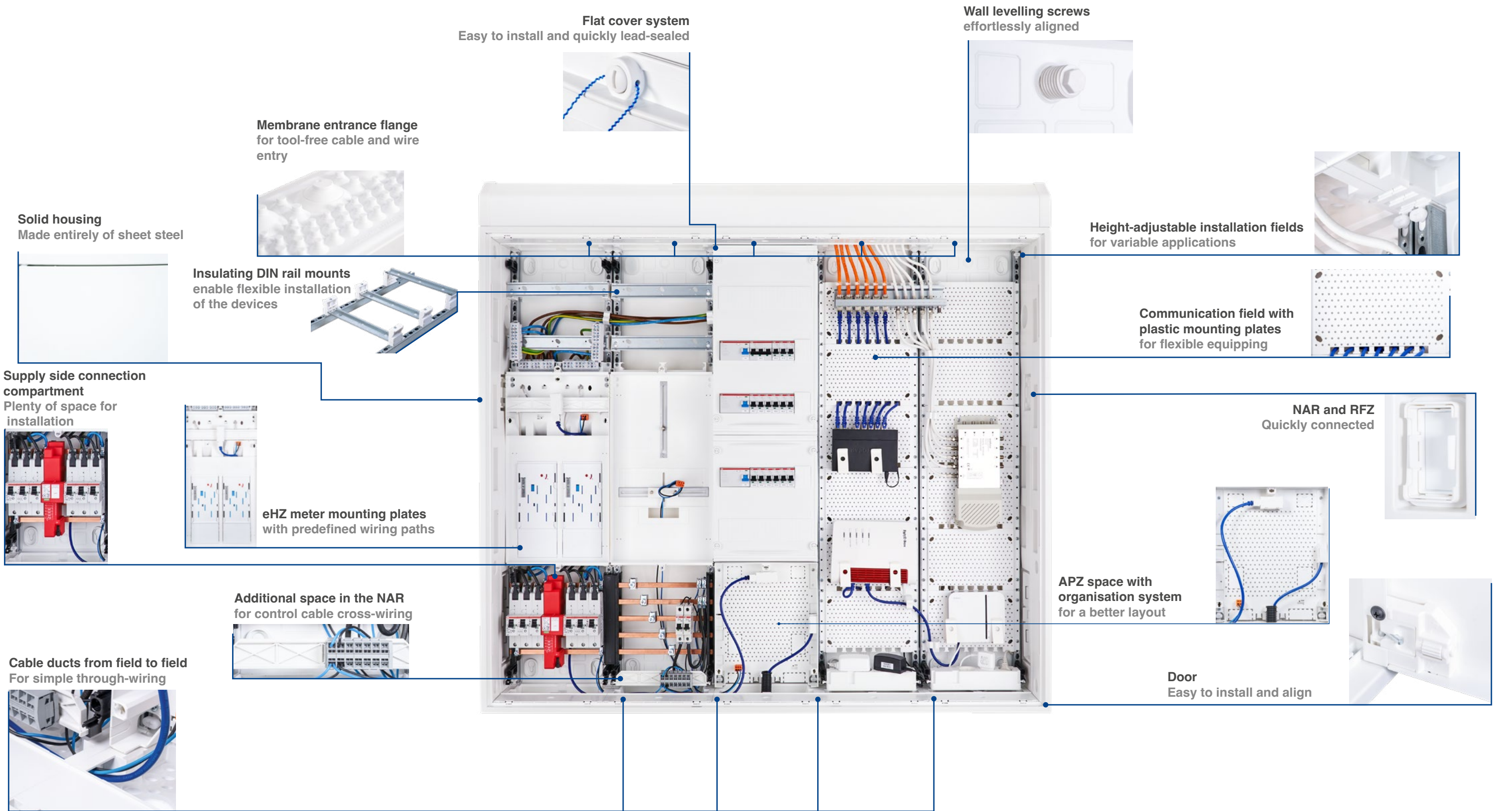
Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems



Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems



## Our experienced project team

### We're at your side

Our meter cabinet project team consists of a large number of qualified, competent electricians. This means you receive the best advice - straight from the professionals. The team's high level of expertise guarantees personal, professional and optimal advice when planning your project.

You can find the contact details of our project team on page 163.



## Many possibilities

### Customised delivery forms for your project

We offer our **f-tronic®** Meter cabinet systems in various delivery forms. This means that we offer you not only one product, but a flexible system. Customise the meter cabinet to the specific requirements of your project and benefit from a wide range of options that offer you maximum flexibility.

### ZS 2.0

#### The component / assembly delivery form

Put together your own customised meter cabinet. With our ZS 2.0 system, installers can configure their system as required, as the individual components of the system are kept in stock by wholesalers. As an ideal aid, the cabinets can be customised to your project using our own meter cabinet configurator on our website. The required meter, distribution and communication fields are then put together online and can be easily ordered later from the wholesaler's warehouse - completely flexible and without delivery times!

### Equipped cabinets

#### One cabinet, one package

The ideal solution for efficient deliveries, optimised workflows and time-saving installation: our equipped cabinets. The Meter cabinet systems are pre-assembled in our factory for immediate use, saving you valuable time on site. This allows you to concentrate on the essential installation steps and speed up initial operation. Not only do we have a space-saving and resource-saving packaging concept, but it also enables efficient storage, reduced susceptibility to errors during assembly and more effective utilisation of working time. You can obtain both predefined cabinet systems for standard cases and flexibly configurable cabinets for your project from us.

### Carefree all around

#### The all-in-one solution

Benefit from our comprehensive planning and complete wiring for your meter cabinet system. With our all-round carefree option, our experienced project team plans your metering system with complete wiring and documentation. All we need from you is all the relevant information, including the installation location of the system, the number of meter spaces required, wiring diagrams, etc. - the metering system is then delivered to your project fully wired and labelled by **f-tronic®**. You install the installation as a complete system and can put it into operation straight away. This saves you valuable time during planning, documentation and installation.





## Complete meter cabinets

One cabinet, one package

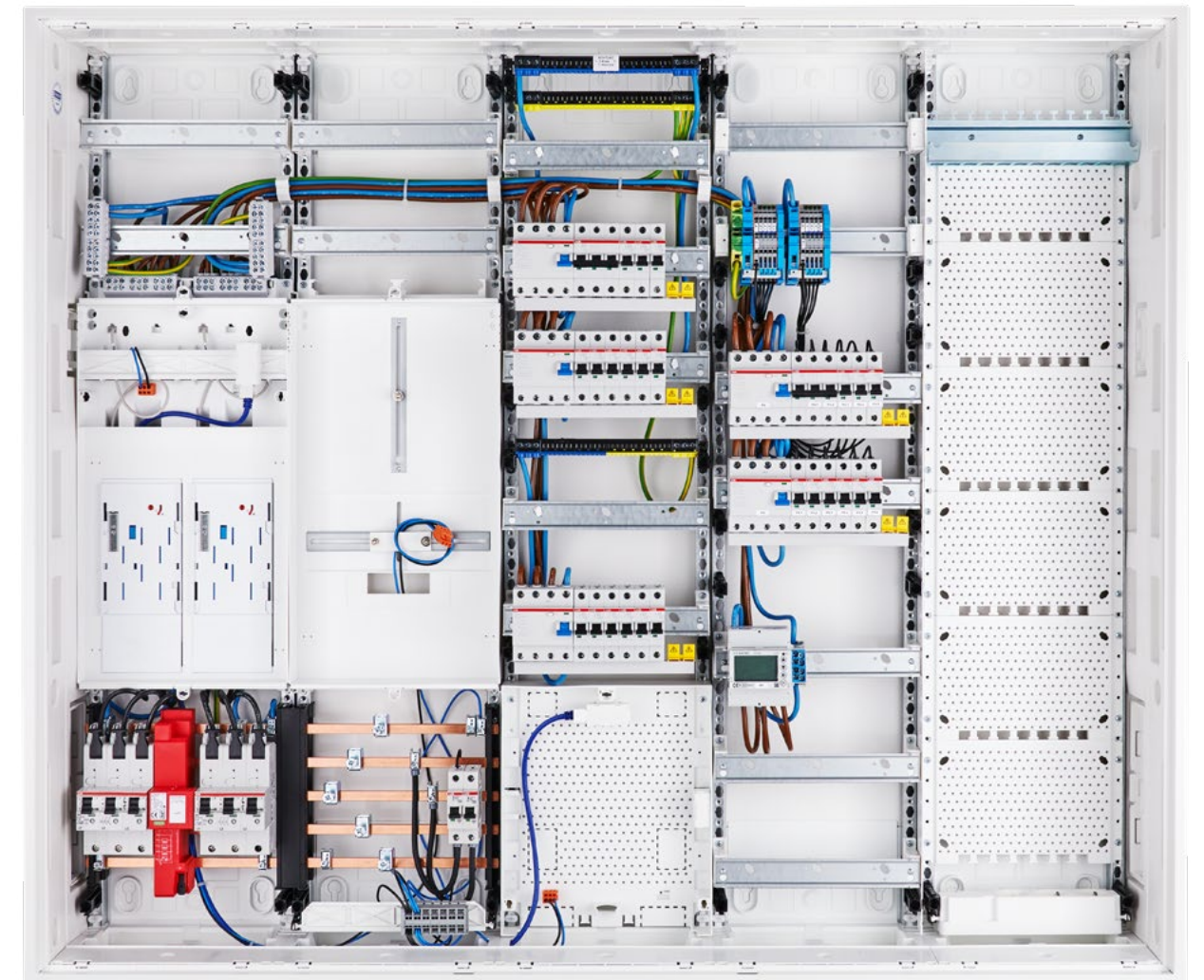
- Standardised complete meter cabinets
- Sturdy sheet steel housing and modular installation systems
- Optimum solution for many standard applications
- Installed heights 1100 mm and 1400 mm available
- 1- to 5-field with protection class IP31/43 or IP54
- For 1 to 3 meter positions
- Versatile meter fields as eHZ and 3.HZ version
- Housing with membrane insertion flange, through-wiring option and wall compensation screw
- System for concealed internal and external fastening
- Cable routing system for all fields, for clean cable routing in the meter and distribution field as well as in the communication area
- Meter cabinets with meter panel and distribution panel up to pre-mounted SLS switch, overvoltage protection and fuse package
- Time and resource saving



## Installation-ready metering systems

All-round carefree solution with DIN rail mounted devices

- Optimally planned meter cabinets according to your requirements
- Project-related, fully equipped and installation-ready delivery
- Incl. documentation (installation sketch)
- Fitted with high-quality brand components
- Saves you working time and effort
- Planning in accordance with the current guidelines of the energy supply companies
- Available as eHZ or 3.HZ version
- Installation heights from 1100 mm to 1400 mm possible
- - Sturdy sheet steel housing with modular installation system

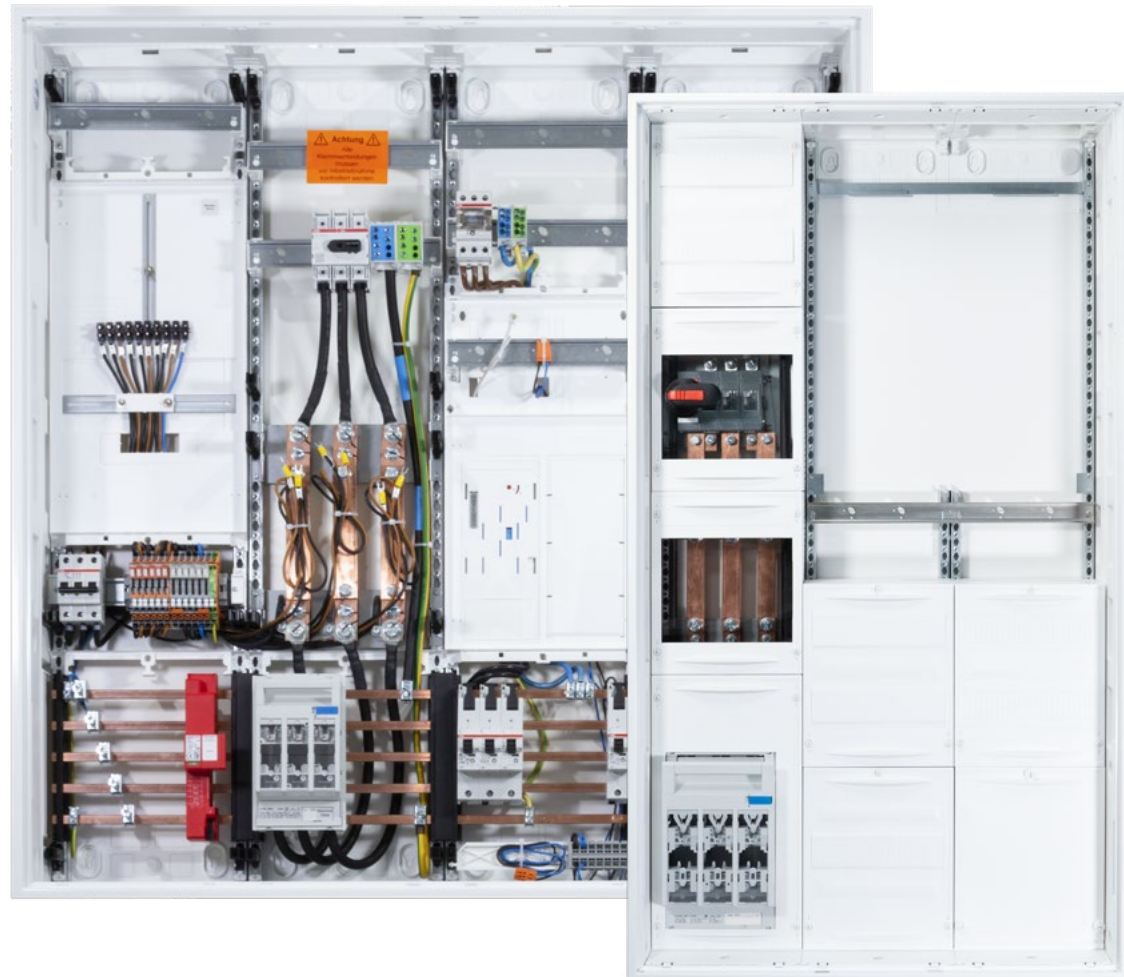




## For more power

### Transformer cabinets for standard applications

- Complete transformer cabinets up to 100A
- Overall height 1100mm
- 2-panel with protection class II and protection type IP31/43
- Preconfigured solutions for eHZ and 3.HZ measurement
- Optimal for small to medium-sized industries, workshops or photovoltaic systems in single or multi-family homes
- Ideal solution for standard application in transformer measurement
- Prefabricated and shipped in one package
- Saves time, cost and resources



## Completely customised

### Transformer cabinets delivered installation-ready

- Transducer measurement individually planned, entirely according to your specifications
- Project-planned transformer cabinets up to 250A
- Manufactured according to the latest TCR of the individual network operators (TCR compliant)
- Technical documentation in the form of a layout plan
- Expansion with high-quality brand components
- Saves you time and effort
- Possible with eHZ or 3.HZ meter
- Pre-wired, installation-ready, supplied with DIN rail mounted devices





## Future-proof set-up the f-tronic® Meter cabinets for wallboxes, heat pumps and PV systems



Meter connection columns

## Meter connection columns Strong in safety and technology

Protection, strength and safety are also offered by our meter connection columns.

The stable housing is made of hot-pressed, glass fibre-reinforced polyester with a profiled surface. Resistant to acidic and alkaline reaction substances in the soil, Jupiter rules the weather.

f-tronic® offers a wide range of meter connection columns that sets standards. Whether pre-planned according to the connection area or completely customised - the meter connection columns in various versions and sizes protect the sensitive technical installations from lightning, thunder and rain.



Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems

Legend



**Surface mounted**

Products with this mark are suitable for surface mounting.



**Hollow wall**

Products with this mark are suitable for mounting in cavity wall constructions.



**Flush mounted**

Products with this mark are suitable for flush mounting.



**Glow wire tested products**

The glow-wire test is a test of plastic sheets or components for flammability. Here, the specimen is exposed for a defined time interval selectively to a high temperature load. In this test, the time until combustion, until its expiry, the glow wire ignition temperature (GWIT) and the glow wire flammability index (GWFI) are determined as material parameters, which are used for component evaluation. Here, the filament, pre-heated to a certain temperature, touches the test piece for a period of 30s.



**CE marking**

Thus, the manufacturer, distributor or EU representative in accordance with EU regulation 765/2008, declares that the product meets the applicable requirements set out in the Community harmonisation legislation providing for its affixing.



**IP classification**

Protection according to national and international standards DIN EN 60529/DIN VDE 0470 Part 1 and ISO 20653 denotes the Type of protection in the different IP classes.

The first digit or number/letter combination stands for the degree of protection of the housing against accidental contact. At the same time, this indicator provides information on protection against foreign objects.



**Protection class II**

Appliances of class II have an enhanced or double insulation between the power circuit and output voltage or metal housing and have no protective conductor connection. This protective measure is also called protective insulation (safe electrical isolation). Even if they have electrically conductive surfaces, so they are protected by reinforced insulation against contact with live parts. Portable appliances with protection class II have no safety plug; for connections, plugs are used that have no grounding; at high currents, these are shaped plugs in Germany - Plug designs that are similar to a plug. For smaller currents (up to 2.5A) so-called Euro-plugs may be used.



**Halogen-free**

**Products with this label must not contain halogens, causing, in case of fire, no toxic and corrosive fumes.**



**VDE**

The VDE mark documents the safety and conformity to standards of an electrotechnical product, in terms of electrical, mechanical, thermal, toxic and other hazards. It is only awarded by the VDE Testing and Certification Institute..



**ÖVE**

The ÖVE sign documents the safety and conformity to standards of an electrotechnical product, in terms of electrical, mechanical, thermal, toxic and other hazards. It is only awarded by the ÖVE Testing and Certification Institute.

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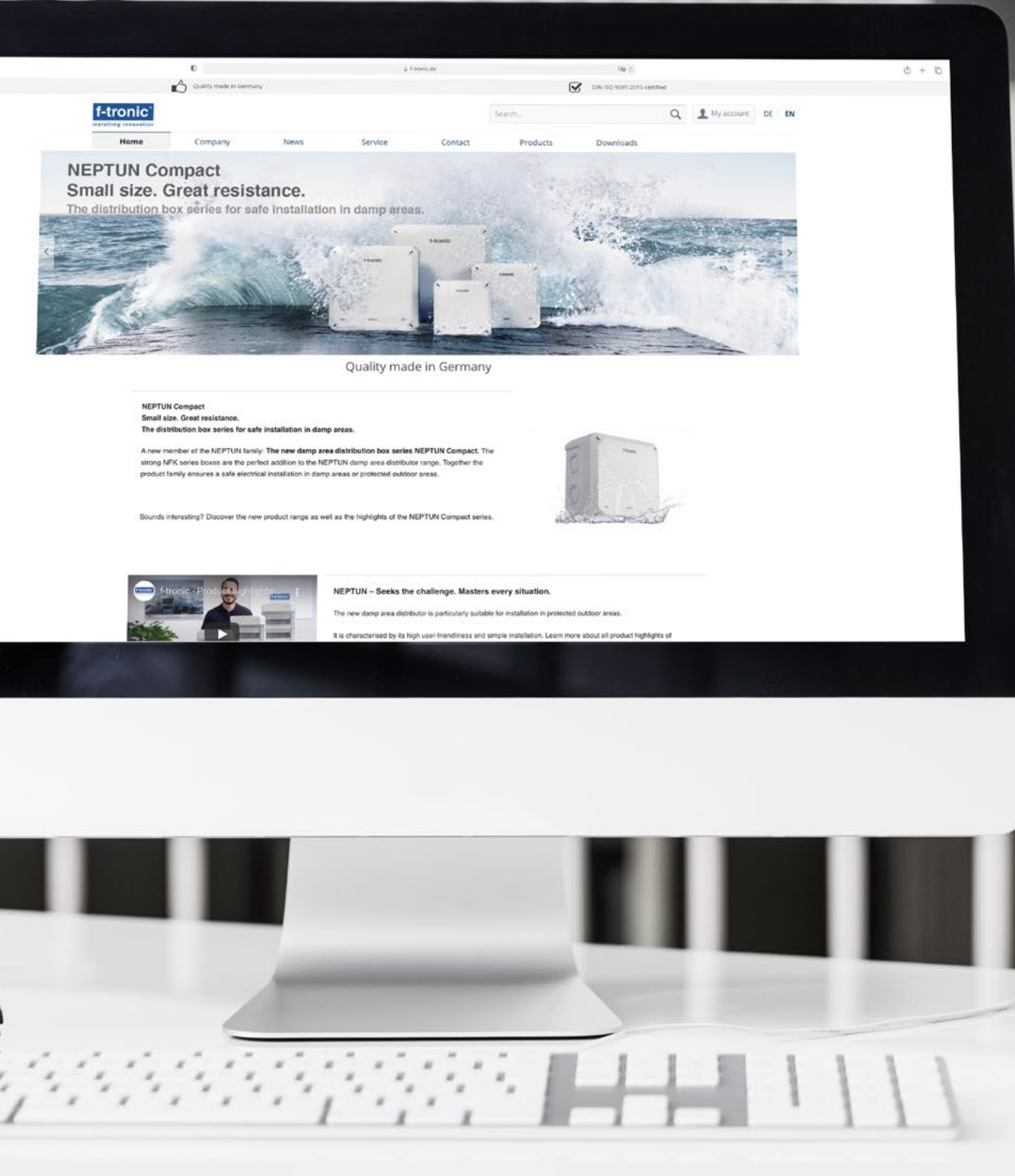
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