



STOCK PROGRAMME 30

f-tronic®

f-tronic[®]



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f-tronic® Get electrified

Your full-range supplier in the field of electrical installation

Innovation, determination and "Made in Germany" quality 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, distributors, 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 injection moulding machines 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 solutions. 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.

The basis of our actions and activities Solid foundation for excellent results



The spectrum of possibilities

The perfect cover for your electrical installation



New products - NEPTUN Compact

Invisible hold

Internal fixing with insulating plugs

**Perfect alignment**

With external mounting tabs



New products - NEPTUN Compact

Sturdy closure

in no time at all

**Resists water and dust**
Reliable all-round protection

NEPTUN Compact

Small size. Great resistance.

NEW

New addition to the f-tronic® damp area installation range:
The new damp area distribution box series NEPTUN Compact.

Discover the new range as well as the highlights of the
series for installation in damp areas or protected outdoor
areas from p. 57.

Practical and time-saving
Membrane entry
on NFK08



Hardly surpassable in variety
Break-out entries M20-M40



Noticeably unnoticeable
Flat cover
for universal mounting



New products - NEPTUN

**AMS ventilation system
with breathable membrane**



**Adjusting the DIN rails
Quick and fast with the
click system**



New products - NEPTUN

**Fastening
easy and secure**

**NEW**

NEPTUN

**Seeks the challenge.
Masters every situation.**

The new NEPTUN damp area distributor series in a modern design is the best choice for application areas such as workshops, industrial halls, stables, garages or carports.

More information on the NEPTUN series from p. 111.

**Cable cover
for protection
and a clean look**



**MKF4/26
entrance flange
Tool-free
cable insertion with IP65**

**Cable gland
strong and stable up to M50**



NEPTUN accessories



**NEPTUN connector
for unlimited
installation space**

You can find more about the NEPTUN connector on page 123.



New products - Outlet box range

More information about the FM wall outlet box on page 20.



More information on the HW wall outlet box on page 29.

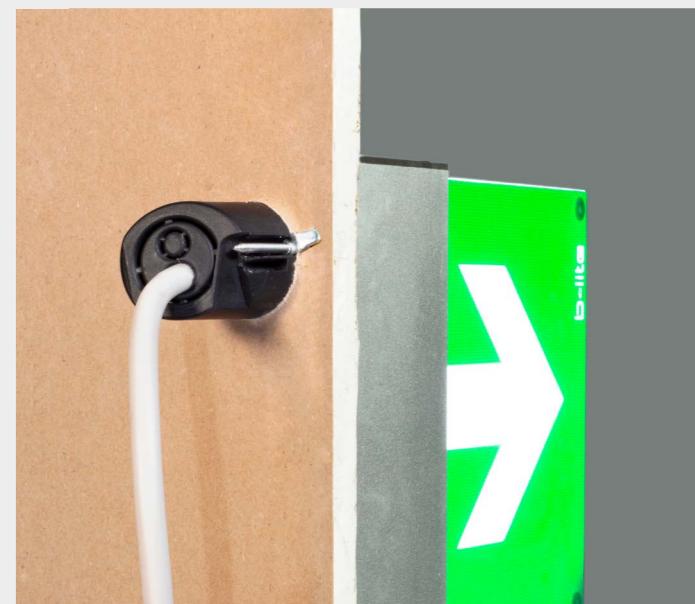


New products // Outlet box range

New products - Outlet box range

Fire protection outlet box

The missing brick for perfect protection



New products // Fire protection outlet box

New products

f-Sticker

Optimum protection for your
NEW electrical installation



More information on f-sticker on page 44.

Device screw box

Order and clarity
Practical box for
device screws



More information on the new device screw box on
page 47.



New products



Airtight hollow wall socket box range

High stability, convenient use
Optimisation of the airtight
hollow wall installation boxes

- More stable construction
- Improved through-wiring
- Raised Pipe entry for better installation of lateral pipe entries



More information on the new HW boxes on page 36.



New products

New products // Airtight hollow wall socket box range



Installation boxes

Unsurpassed in diversity

f-tronic® offers a wide range of installation materials for every installation requirement. Whether flush mounted, hollow wall, 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. That is why we already have up to 115 different installation boxes in our range.

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

Cost-efficient installation is possible with our standard flush mounted and hollow wall socket boxes. Rounded off by a variety of surface-mounted and damp area 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 FM socket boxes
- 20 and 25mm pipe insertion
- 4x screw boss and 2x area for spreader claw springs



1 Nail tab

Combinable with plug-nail straps (E104). (p. 45)



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 |
|--------------------|------------------|------------------|--------------------------|--------------------------|
| Execution | 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 |
| 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 44

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 signal lid E120 (p. 45) and plaster it in.



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



| Type | E400 |
|----------------|-------------------|
| Execution | Double socket box |
| Item no. | 7310155 |
| SU / CB / PL | 10 / 100 / 2,000 |
| Depth | 100 mm |
| Material | PS |
| Cable entry | 4 per side |
| Pipe entry M20 | 4 per side |
| Pipe entry M25 | 4 per side |

optional accessories from page 44

Flush mounted distribution box



| Type | E140 | E141 | E142 |
|----------------------------------|------------------------------|------------------------------|------------------------------|
| Execution | 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 mm² | 4 mm² | 16 mm² |
| Material | PS | PS | PS |
| Pipe entry M16 / M20 / M25 / M32 | - / 8 / - / - | 4 / 15 / 4 / - | 11 / - / 10 / 6 |

| Type | E140D | E141D | E142D |
|--------------|-------------------|------------------|------------------|
| Execution | 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 | WAD |
|--------------------|-------------------|
| Execution | Wall outlet |
| Item no. | 7310077 |
| SU / CB / PL | 25 / 500 / 10,000 |
| Depth | 45 mm |
| Diameter | Ø 36 mm |
| max. cross section | 1.5 mm² |
| Cable entry | 2x ≤ 12 mm |
| Material | PS |
| Pipe entry M20 | 3 |
| Pipe entry M25 | 2 |

Flush mounted distribution socket



| Type | E110 |
|--------------------|---------------------|
| Execution | Distribution socket |
| Item no. | 7310133 |
| SU / CB / PL | 25 / 300 / 6,000 |
| Depth | 35 mm |
| Diameter | Ø 72 mm |
| max. cross section | 2.5 mm² |
| 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 |
|--------------------|--------------------------|
| Execution | 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 mm² |
| 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 |
|--------------------|-------------------|-----------------------|
| Execution | Device socket | Device socket, 2-fold |
| 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 mm² | 2.5 mm² |
| Material | PS | PS |
| Pipe entry M20 | 7 | 10 |
| Pipe entry M25 | 1 | 2 |

optional accessories from page 44



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.



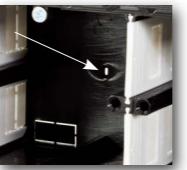
2 Standard distance

The standard distance of 71mm is automatically maintained.



3 Entry

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 By marking the holes, centering points are marked out.



2 Cut holes with milling bit.



3 Punch out remaining material.



4 Insert box in wall and protect with signal covers (p. 45).



5 Plaster and you are done.



| Type | UP20 | UP30 | UP40 | UP50 |
|----------------------|---------------------|---------------------|---------------------|---------------------|
| Execution | Device box, 2-fold | Device box, 3-fold | Device box, 4-fold | Device box, 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 ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| 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 |
|--------------|-----------------------------|----------------------|
| Execution | 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 ring

Application

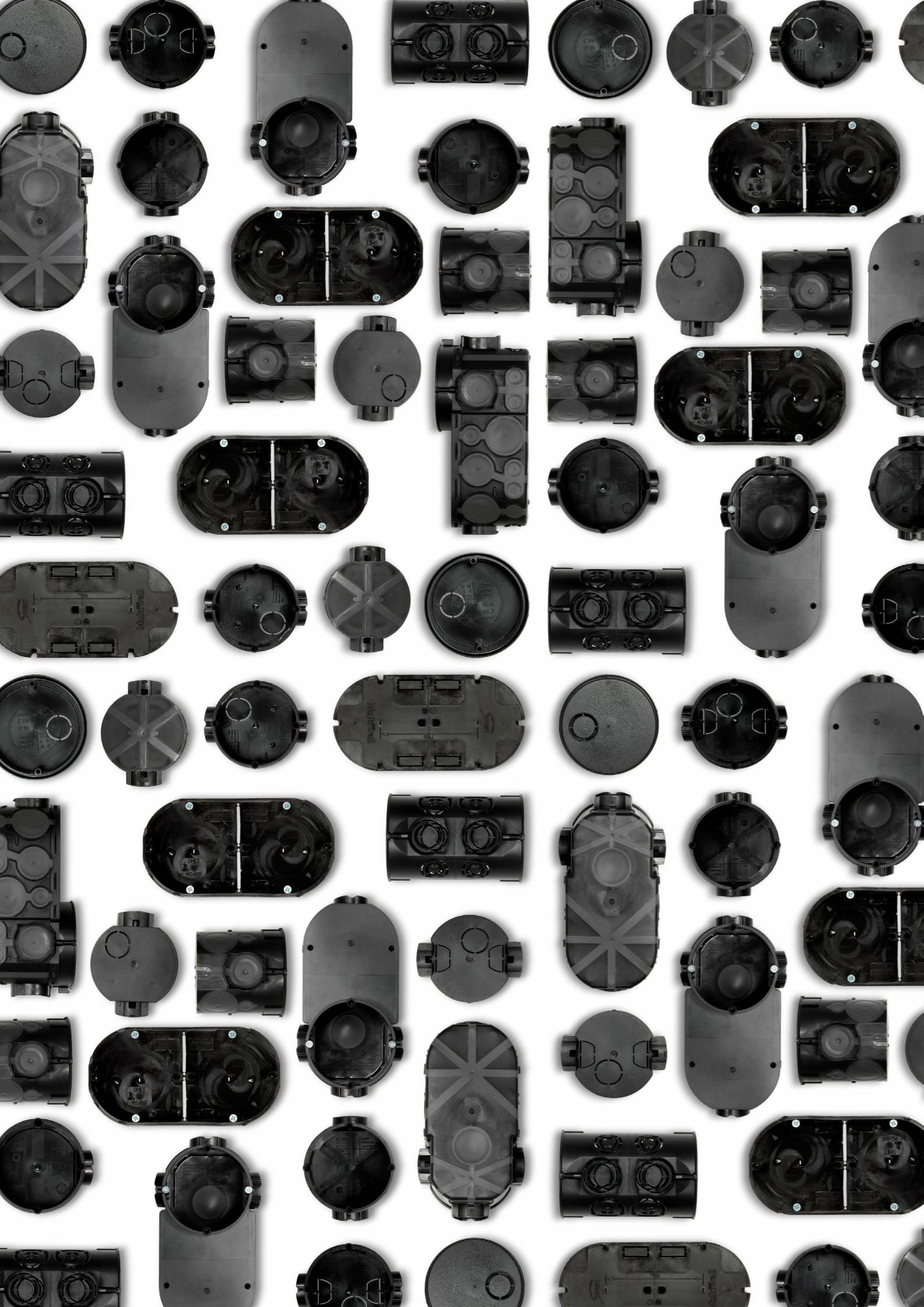


1 Plaster leveling ring available in square and half-round.



2 Can break out the desired height in 5mm increments.

| Type | PAQ | PAH |
|--------------|-------------------------|--------------------------------|
| Execution | 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 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 lines.



3 Combinable

All f-tronic® FM socket boxes can be combined. Compliance with the standard distance of 71mm is guaranteed.



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. 49).



2 Time-saving

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



4 Nail tab

Flexibility in installation with nail tab (E104) (p. 45)



| Type | E1062K | E1072K |
|----------------------|------------------|--------------------------|
| Execution | 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 / 4 |

optional accessories from page 44



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. 49).



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. 46)



2 Simply insert partition from above.



3 Standardised separation of the circuits.



| | |
|-----------------------|---------------------|
| Type | E550 |
| Execution | IT electronics box |
| Item no. | 7320009 |
| SU / CB / PL | 10 / 80 / 1,600 |
| Depth | 67 mm |
| max. cross section | 4 mm ² |
| Material | PP / TPE |
| Cable entry ≤ Ø 11 mm | 16 |
| Pipe entry ≤ M20 | 6 |
| Pipe entry ≤ M25 | 5 |
| Accessories | incl. device screws |

optional accessories from page 44





Hollow wall device socket

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

1 Standard distance

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



| Type | E115 | E115HF | E117 | E117HF | E118 | E135 |
|---|---------------------|-----------------------------|--------------------------|--|----------------------|---------------------------|
| Execution | Device socket | Device socket, halogen-free | Device connection socket | Device connection socket, halogen-free | Double device socket | Device socket without VDE |
| Item no. | 7350094 | 7350095 | 7350096 | 7350097 | 7350041 | 7350099 |
| SU / CB / PL | 25 / 300 / 6,000 | 25 / 300 / 6,000 | 25 / 400 / 4,800 | 25 / 400 / 4,800 | 10 / 100 / 2,000 | 25 / 300 / 6,000 |
| Milling hole | Ø 68 mm | Ø 68 mm | Ø 68 mm | Ø 68 mm | 2x Ø 68 mm | Ø 68 mm |
| Depth | 47 mm | 47 mm | 61 mm | 61 mm | 47 mm | 35 mm |
| max. cross section | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Panel thickness | 5 - 40 mm | 5 - 40 mm | 5 - 40 mm | 5 - 40 mm | 5 - 40 mm | 5 - 25 mm |
| Material | PP | PP | PP | PP | PP | PP |
| Cable entry 3x 1.5 ² | 2 | 2 | 4 | 4 | 1 | 4 |
| 5x 1.5 ² / 3x 2.5 ² | 2 | 2 | - | - | 8 | - |
| 7x 1.5 ² / 5x 2.5 ² | - | - | 2 | 2 | - | - |
| Pipe entry M20 | 2 | 2 | 4 | 4 | 6 | - |

optional accessories from Page 44



Hollow wall device socket

- Specifically for use in pipe installation



| Type | E860 | E870 |
|---------------------------------|---------------------|--------------------------|
| Execution | 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 ² | 2.5 mm ² |
| Panel thickness | 5 - 40 mm | 5 - 40 mm |
| Material | PP | PP |
| Cable entry 3x 1.5 ² | 2 | - |
| Pipe entry M20 / M25 | 2 / 2 | 2 / 2 |

Hollow wall outlet box

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 |
|---------------------------------|---------------------|
| Execution | Outlet box |
| Item no. | 7350098 |
| SU / CB / PL | 25 / 300 / 6,000 |
| Milling hole | Ø 35 mm |
| Depth | 45 mm |
| max. cross section | 2.5 mm ² |
| Panel thickness | 5 - 25 mm |
| Material | PP |
| Cable entry 3x 1.5 ² | 1 |
| Accessories | incl. cover |

Also available as fire protection box. See page 76



Hollow wall distribution box

| | |
|---------------------------------|-------------------|
| Type | E116 |
| Execution | 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 ² |
| Material | PP |
| Cable entry 3x 1.5 ² | 8 |
| Pipe entry M16 / M20 | 4 |
| Pipe entry M20 | 4 |
| Accessories | incl. screw lid |



Hollow wall distribution box



| | |
|---|------------------------------|
| Type | E119 |
| Execution | Hollow wall distribution box |
| Item no. | 7350043 |
| SU / CB / PL | 10 / 200 / 4,000 |
| Milling hole | Ø 74 mm |
| Panel thickness | 5 - 40 mm |
| Depth | 50 mm |
| max. cross section | 2.5 mm ² |
| Material | PP |
| Cable entry 3x 1.5 ² | 6 |
| 5x 1.5 ² / 3x 2.5 ² | - |
| 7x 1.5 ² / 5x 2.5 ² | - |
| Pipe entry M20 / M25 | 4 |
| Accessories | incl. screw lid |

| | |
|---|------------------------------|
| Type | E815 |
| Execution | Hollow wall distribution box |
| Item no. | 7350046 |
| 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 ² |
| Material | PP |
| Cable entry 3x 1.5 ² | 12 |
| 5x 1.5 ² / 3x 2.5 ² | 12 |
| 7x 1.5 ² / 5x 2.5 ² | - |
| Pipe entry M20 / M25 | 2 / 2 |
| Accessories | incl. screw lid |

optional accessories from page 44

Multiple 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**

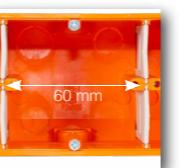
Individually removable dividers for separation of circuits.

**2 Grommet**

Break-out grommet for neat cable routing inside the 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 Ø 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.

Multiple hollow wall box, solid



| Type | HW10 | HW20 | HW30 |
|----------------------|--------------------|--------------------|--------------------|
| Execution | Device box, 1-fold | Device box, 2-fold | Device box, 3-fold |
| Item no. | 7350061 | 7350062 | 7350063 |
| SU / CB / PL | 20 / 240 / 4,800 | 10 / 90 / 1,800 | 5 / 50 / 1,000 |
| H x W x D | Ø 68 x 63 mm | 68 x 139 x 63 mm | 68 x 210 x 63 mm |
| Panel thickness | 3 - 38 mm | 3 - 38 mm | 3 - 38 mm |
| max. cross section | 2.5 mm² | 2.5 mm² | 2.5 mm² |
| Material | PA6 | PA6 | PA6 |
| Pipe entry M16 / M20 | - / 4 | - / 6 | 2 / 8 |



| Type | HW40 | HW50 | HW60 |
|----------------------|--------------------|--------------------|--------------------|
| Execution | Device box, 4-fold | Device box, 5-fold | Device box, 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 63 mm | 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 mm² | 2.5 mm² | 2.5 mm² |
| Material | PA6 | PA6 | PA6 |
| Pipe entry M16 / M20 | 4 / 10 | 4 / 12 | 4 / 12 |

Multiple hollow wall box, flat



| Type | HW20F | HW30F | HW40F | HW50F |
|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Execution | Device box, 2-fold, flat | Device box, 3-fold, flat | Device box, 4-fold, flat | Device box, 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 |
| max. cross section | 2.5 mm² | 2.5 mm² | 2.5 mm² | 2.5 mm² |
| Material | PA6 | PA6 | PA6 | PA6 |
| Pipe entry M20 / M25 | 8 / 2 | 12 / 4 | 16 / 6 | 20 / 8 |

Accessories



| Type | HWD1 | HWD2 | PAQ | PAH |
|--------------|----------------------|---------------------|-------------------------|--------------------------------|
| Execution | Cover, semi-circular | Cover, square | Plaster leveling square | Plaster leveling 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 |

Multiple hollow wall box, airtight

Solid construction
Airtight installation

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



| Type | HW20K | HW30K | HW40K |
|----------------------|------------------|------------------|------------------|
| Execution | 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 mm² | 2.5 mm² | 2.5 mm² |
| 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 box

- 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 |
|------------------------|---------------------------|----------------------------------|
| Execution | 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) |

optional accessories from page 44



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 pipes
- Incl. airtight E105 or E105HF connection ports
- 3 variants available:
 - Device box 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 recognisable, even after being exposed to great mechanical stress.



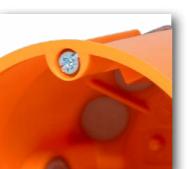
2 Airtight through-wiring

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



3 Variable inserts

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



4 Strengthened cable entry

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



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. 49)

optional accessories from page 44



| Type | E2700 | E2700HF | E3700 | E3700HF | E3500 | E3500HF |
|--|-------------------------|-----------------------------|--------------------------|--|--------------------------|--|
| Execution | 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 ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Material | PP / TPE | PP / TPE | PP / TPE | PP / TPE | PP / TPE | PP / TPE |
| Cable entry 3x 1.5² | 2 | 2 | 2 | 2 | - | - |
| 5x 1.5² / 3x 2.5² | 2 | 2 | 2 | 2 | - | - |
| 7x 1.5² / 5x 2.5² | - | - | 2 | 2 | - | - |
| Pipe entry ≤ M20 | - | - | - | - | 2 | 2 |
| Pipe entry ≤ M25 | 2 | 2 | 2 | 2 | 2 | 2 |
| Accessories | per SU incl. 5x E105 | per SU incl. 5x E105HF | per SU incl. 5x E105 | per SU incl. 5x E105HF | per SU incl. 5x E105 | per SU incl. 5x E105HF |

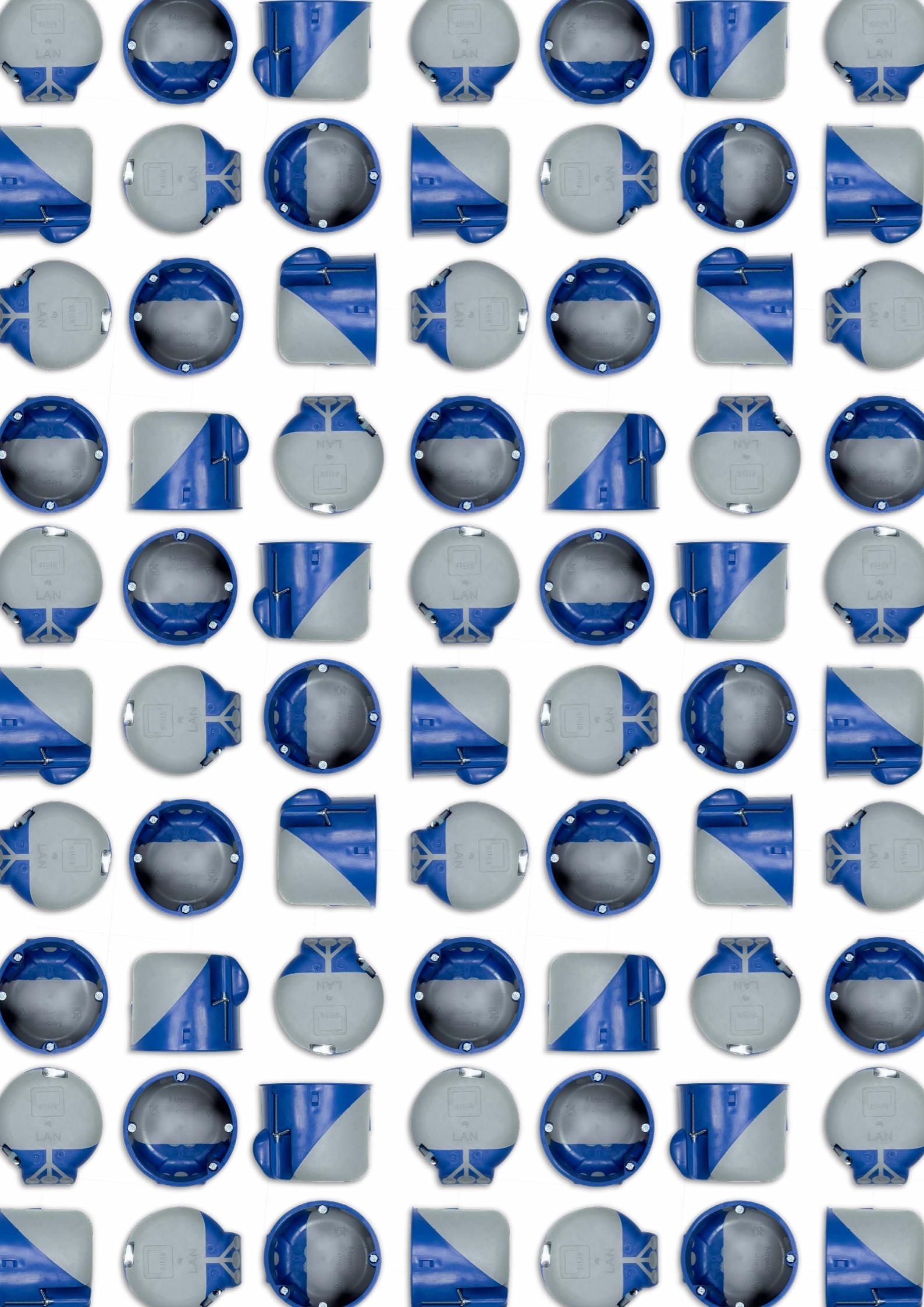
Hollow wall distribution box, airtight

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



| Type | E816 |
|--|-------------------|
| Execution | 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 ² |
| Material | PP / TPE |
| Cable entry 3x 1.5² | 12 |
| 5x 1.5² / 3x 2.5² | 12 |
| 7x 1.5² / 5x 2.5² | 6 |
| Pipe entry M20 / M25 | 2 / 2 |
| Accessories | incl. screw lid |

optional accessories from page 44



Hollow wall LAN socket

The specialist for 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.



2 DIN-compliant

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



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.



4 Airtight

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



HALOGEN FREE

| Type | E5100 | E5100HF |
|--------------------------|------------------|--------------------------|
| Execution | 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 44

Hollow wall sound protection box



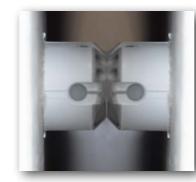
Relaxes and provides privacy

- 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 protection box with superior sound protection 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. 49)

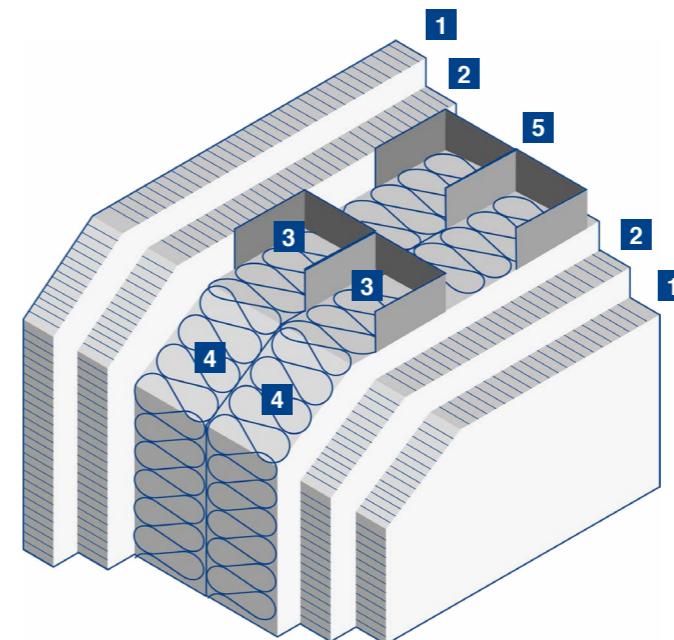


| Type | SP3700 | SP3700HF |
|---|----------------------|------------------------------------|
| Execution | Sound protection box | Sound protection box, halogen-free |
| Item no. | 7520001 | 7520002 |
| SU / CB / PL | 10 / 200 / 4,000 | 10 / 200 / 4,000 |
| Milling hole | Ø 68 mm | Ø 68 mm |
| Panel thickness | 5 - 40 mm | 5 - 40 mm |
| Depth | 58 mm | 58 mm |
| Material | PP / TPE | PP / TPE |
| Cable entry 3x 1.5 ² | 2 | 2 |
| 5x 1.5 ² / 3x 2.5 ² | 2 | 2 |
| Pipe entry ≤ M25 | 2 | 2 |



Hollow wall sound protection box

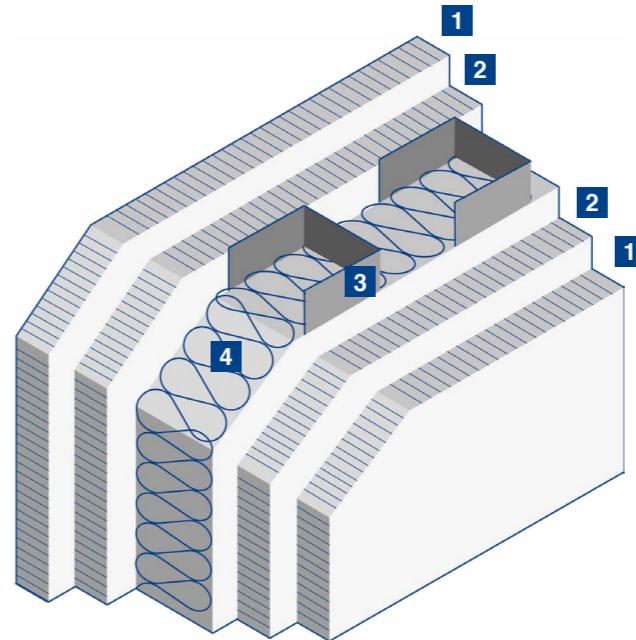
Sound insulation in accordance with ISO 10140 when wall mounted Total wall thickness 155mm



- 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**



Structural fire safety can save lives.

More information on our fire protection range can be found from page 70 onwards.

Fire protection socket box with push-through membrane, airtight

| | | | |
|--|--------------------------|--------------------------|--------------------------|
| | | | |
| Type | | | |
| Execution | BS2000 | BS2700 | BS3500 |
| Item no. | 7500045 | 7500042 | 7500044 |
| SU / CB / PL | 10 / 250 / 4,000 | 10 / 250 / 4,000 | 10 / 200 / 3,200 |
| Milling hole | Ø 68 mm | Ø 68 mm | Ø 68 mm |
| Depth | 50 mm | 50 mm | 62 mm |
| max. cross section | 2.5 mm² | 2.5 mm² | 2.5 mm² |
| Cable entry 3 x 1.5² | - | 2 | - |
| 5 x 1.5² / 3 x 2.5² | - | 2 | - |
| Pipe entry | 4x ≤ M20 | 2x ≤ M25 | 4x ≤ M20 |
| Accessories | per unit incl. 5x E105HF | per unit incl. 5x E105HF | per unit incl. 5x E105HF |
| | | | per unit incl. 5x E105HF |

More about this from page 72

Fire safety socket box milling hole Ø 74mm

| | | |
|---------------------------|-------------------------|-------------------------|
| | | |
| Type | | |
| Execution | BS115 | BS117 |
| Item no. | 7500001 | 7500002 |
| SU / CB / PL | 12 / 192 / 3,744 | 12 / 192 / 3,744 |
| Milling hole | Ø 74 mm | Ø 74 mm |
| Depth | 45 mm | 54 mm |
| max. cross section | 2.5 mm² | 2.5 mm² |
| Cable entry | 2 to Ø 14.4mm | 2 to Ø 11.6mm |
| Pipe entry M20 | - | 4 |

More about this on page 74

Fire protection outlet box



| | |
|---------------------------|--------------------------|
| Type | BS134 |
| Execution | 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 mm² |
| Accessories | incl. cover |

More about this on page 76



f-Sticker

Protects installations

Practical and time-saving

- Protects installation equipment from soiling during painting work
- No time-consuming masking with film or adhesive tape
- No cleaning work afterwards
- Removable without residue
- Practical dispenser box

Application



1 Remove the fixing adhesive strip.



2 Pull on the label roll.



3 Remove label.



4 Place the f-Sticker centred on the unit and press on all sides.



5 During painting work, the f-Sticker protects the installation equipment.



6 After the work, remove the f-Sticker without leaving any residue.



| Type | f-Sticker |
|--------------|-----------------------|
| Execution | Socket box protection |
| Item no. | 7390130 |
| SU / CB / PL | 1 / 24 / - |
| Content | 1 roll = 400 stickers |

f-Sticker

Nail tab

Universal fixing

Clever attachment for FM boxes

- Can be combined with the standard flush mounted boxes from the f-tronic® range thanks to its unique plug-in system
- Nail straps for fitting providing more flexibility during installation
- Prevents duplication of storage

Application



| Type | E104 |
|--------------|--|
| Execution | 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 |



Installation boxes

HALOGEN
FREE

ESFC

Fire protection systems

Distribution boards

Meter cabinet systems

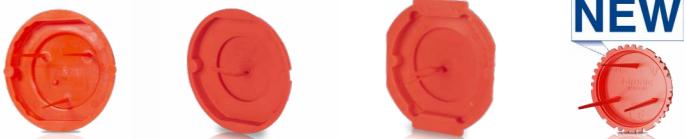
f-tronic Experts

Signal cover

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 |
|--------------|--|--|-----------------------|----------------------|
| Execution | Signal cover | Signal cover | Signal cover, Austria | Signal cover for WAD |
| 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 | WAD |
| Material | PE | PE | PE | PE |

HALOGEN
FREE

ESFC

Plaster leveling ring

Extends the installation

Adapts to any situation



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

| Type | E130 | E131 | E132 | E133 |
|--------------|--|--|--|--|
| Execution | Plaster leveling ring | Plaster leveling ring | Plaster leveling ring | Plaster leveling 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 |

Installation boxes

Installation boxes

HALOGEN FREE

Universal cover



| Type | E112H | E109A | E109 |
|--------------|--|--|---|
| Execution | Screw lid | Spring plug-in lid | Spring plug-in lid |
| 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 spacing for screws 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 |

CE HALOGEN FREE

Partition wall



| Type | E817 | E551 |
|--------------|----------------|----------------|
| Execution | 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 |

CE HALOGEN FREE

Connecting pieces



| Type | E105 | E105HF | E150 |
|--------------|---|---|---------------------------------------|
| Execution | 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 | airtight HW boxes E2700, E3700, E3500, SP3700 | halogen-free, airtight HW boxes E2700HF, E3700HF, E3500HF, SP3700HF, BS3700, BS2500, BS3500, BS2700 | HW boxes E115, E117, E118, E860, E870 |
| Material | PP | PP | PP |

Device screw box

NEW

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 |
|--------------|--|
| Execution | 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 |
|--------------|-------------------------------|-------------------------------|-------------------------------|
| Execution | Device screw Combi-cross head | 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 |



Drilling template



Perfect alignment

All boxes on a single level

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

Assembly instructions



1 Drill the middle hole.



2 Precise 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 |
| Execution | Drilling template for HW |
| Item no. | 7390048 |
| SU / CB / PL | 1 / 42 / 840 |
| Material | PP |
| Diameter | Ø 68 mm |

Drilling template

Sealing plugs, airtight



Tested to be airtight

Energy efficiency for FM & HW

- For all flexible insulating pipes
- 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 |
|------------------------|----------------------|----------------------|---------------------|---------------------|---------------------|
| Execution | 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 |



Pipe socket



Controllably stable

Firm hold for pipes

Application



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



2 The pipe 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 |
|--------------|---------------|-------------------|---------------|
| Execution | 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

Ceiling canopy

Discreet branching

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

NEW



| Type | DB2ws |
|--------------------|---------------------|
| Execution | 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 ² |
| Material | PS |
| Inserts | 5 |
| Accessories | inc. strain relief |
| Colour | white |

Channel box



| Type | E830 | E831 | E832 | E833 | E834 |
|---------------------------------|---------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Execution | floor-mounted Cable channel box | suspended Cable channel box | clamping Cable channel box | clamping Cable channel box | clamping 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 ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Material | PP | PP | PP | PP | PP |
| Inserts | 4 | 4 | 4 | 4 | 4 |
| Suitable for B-Line trunking | ✓ | - | - | - | - |
| Rehau Signo BK, BS, BA | - | ✓ | - | - | ✓ |
| Certain Wall trunking | - | ✓ | - | - | ✓ |
| Licatec installation channel BR | - | ✓ | - | - | ✓ |
| Licatec installation duct BRS-F | - | - | ✓ | ✓ | - |



Damp area distribution box IP54



Maximum wiring space Maximum variability

- Easy to install
- Having up to 22 self-sealing cut-off cable entries for cables up to 5x 2.5mm²
- External mounting straps with transverse and longitudinal holes for subsequent alignment

**1 Mounting tab**

With transverse and longitudinal 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 |
|---------------------|---------------------|---------------------|---------------------|
| Execution | 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 40 mm |
| max. cross section | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| 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 |

Damp area distribution box IP54



| Type | E113 | E113ws | E113gn | E113rt |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| Execution | 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 |
| max. cross section | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| 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 |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| Execution | 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 ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| 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 cable entries
- Easy to use
- Ergonomic design

Application

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



Damp area distribution box IP55 with push-through membranes



Easy to use

Stable execution

- Easy to install
- Easy to use - no need for expensive, additional tools
- With integrated push-out membranes on all four sides
- With back side membrane introduction for cables of up to 5x 2.5mm²
- Execution 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 14mm.



3 Internal fastening

Versatile mounting options; with screws also from the inside.



4 Tool-free and stable

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

Distribution box with mounting tabs



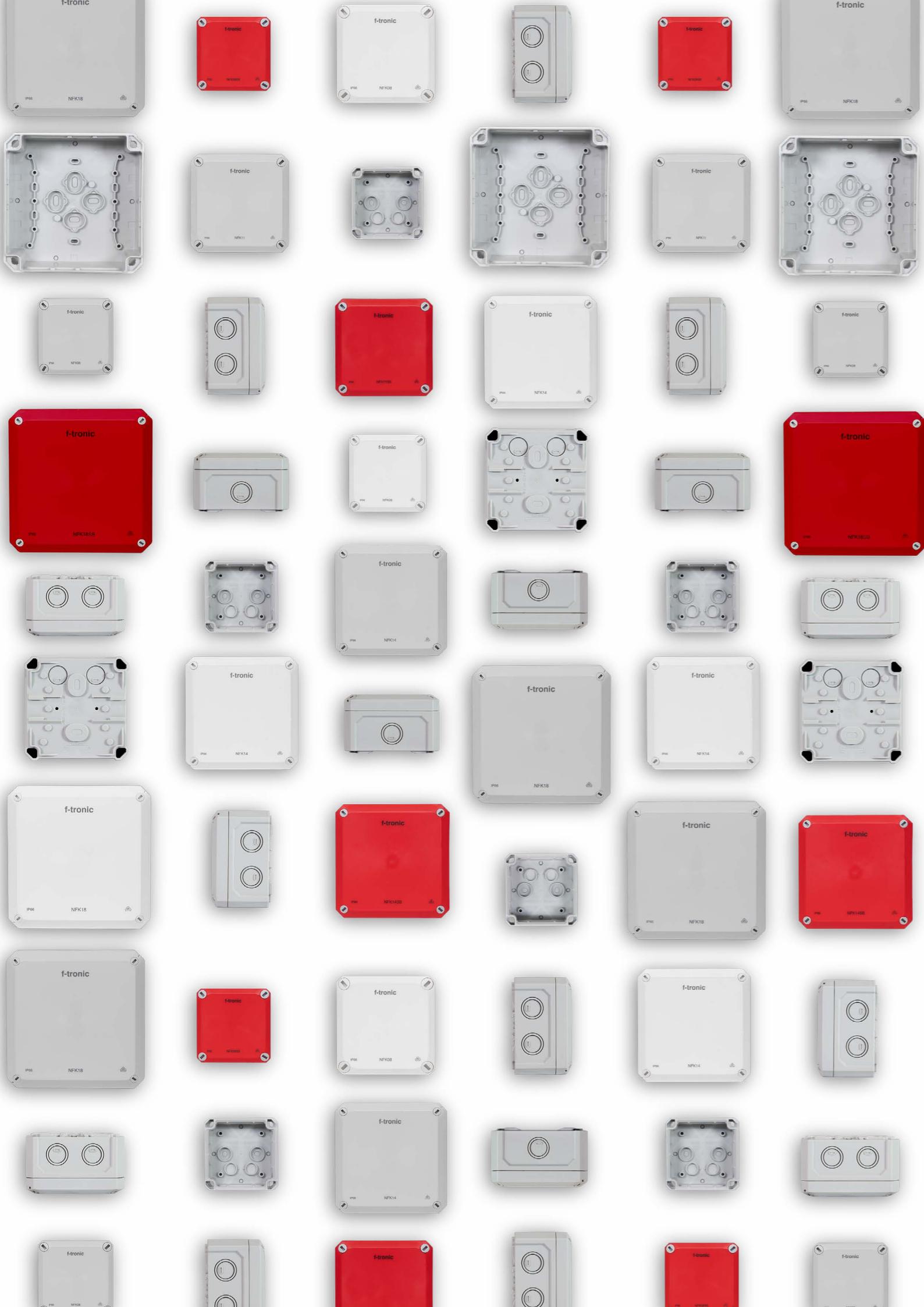
| Type | E1200 | E1200w | E1200sw | E1200rt | E1200gn |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| Execution | Distribution box |
| Item no. | 7340157 | 7340158 | 7340165 | 7340163 | 7340164 |
| SU / CB / PL | 10 / 180 / 3,600 | 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 |
| max. cross section | 2.5 mm ² |
| Material | PP / TPE |
| Inserts | 2 | 2 | 2 | 2 | 2 |
| 7x 1.5 ² / 5x 2.5 ² | 12 | 12 | 12 | 12 | 12 |
| Colour | grey | white | black | red | green |
| Mounting tab | ✓ | ✓ | ✓ | ✓ | ✓ |

Distribution box without mounting tabs



| Type | E1210 | E1210w | E1210sw | E1210rt | E1210gn |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|
| Execution | 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 |
| max. cross section | 2.5 mm ² |
| Material | PP / TPE |
| Insertion | 2 | 2 | 2 | 2 | 2 |
| 7x 1.5 ² / 5x 2.5 ² | 12 | 12 | 12 | 12 | 12 |
| Colour | grey | white | black | red | green |
| Mounting tab | - | - | - | - | - |
| Accessories (incl.) | 2x insulating plugs |





Damp area distribution box IP66

NEPTUN Compact

Small size. Great resistance.

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

**NEW**

1 Screw plugs with assembly position

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



2 Sealable

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



3 All-round seal

A all-round seal enables compliance with protection class IP66.



4 Membrane entry on NFK08

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



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.



6 Internal fastening

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



7 Entry M20 - M40

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



8 Flat cover

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



Damp area distribution box IP66 grey

NEPTUN Compact

Small size. Great resistance.



| Type | NFK08gr | NFK11gr | NFK14gr | NFK18gr | |
|-----------------------|----------------------------|---|--|--|--|
| Execution | 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 | 4mm² | 6mm² | 10mm² | 16mm² | |
| 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 seals M20 (DMS20), 2x double-membrane seals M25 (DMS25), 3x double-membrane seals M32 (DMS32), 4x screw cover, 2x external fixing tab | |

Damp area distribution box IP66 white

NEPTUN Compact

Small size. Great resistance.



| Type | NFK08ws | NFK11ws | NFK14ws | NFK18ws | |
|-----------------------|----------------------------|--|--|--|--|
| Execution | 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 | 4mm² | 6mm² | 10mm² | 16mm² | |
| 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 double-membrane seals M32 (DMS32ws), 4x 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), 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 |



Damp area distribution box IP66, safety lighting

NEPTUN Compact

Small size. Great resistance.



| Type | NFK08SB | NFK11SB | NFK14SB | NFK18SB |
|------------------------------|--|---|--|--|
| Execution | 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 | 4mm ² | 6mm ² | 10mm ² | 16mm ² |
| 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 seals M20 (DMS20), 2x double-membrane seals M25 (DMS25), 3x double-membrane seals M32 (DMS32), 4x screw cover, 2x external fixing tab |

Damp area distribution box IP66 with clamps

NEPTUN Compact

Small size. Great resistance.



| Type | NFK08gr-K4 | NFK11gr-K4 | NFK14gr-K6 | NFK18gr-K6 |
|------------------------------|--|--|--|--|
| Execution | 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 | 4mm ² | 6mm ² | 10mm ² | 16mm ² |
| 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 6mm ² , 2x clamp holder, 1x DIN rail (NCHS14), 2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 2x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing lug | 5x 3-conductor connection clamp 4mm ² , 2x clamp holder, 1x DIN rail (NCHS11), 3x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 2x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing lug | 5x 3-conductor connection clamp 6mm ² , 2x clamp holder, 1x DIN rail (NCHS14), 2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 2x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing lug | 5x 3-conductor connection clamp 6mm ² , 2x clamp holder, 1x DIN rail (NCHS18), 2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 3x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing lug |



Damp area distribution box IP66 with terminals

NEPTUN Compact

Small size. Great resistance.



| Type | NFK18gr-HLAK4p25 | NFK18gr-HLAK5p25 |
|-----------------------|--|--|
| Execution | 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 ² | 16 mm ² |
| 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 | 1x main line branch terminal 4-pole 25 mm ² , 1x DIN rail (NCHS18), 2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 3x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing lug | 1x main line branch terminal 5-pole 25 mm ² , 1x DIN rail (NCHS18), 2x double membrane seal M20 (DMS20), 2x double membrane seal M25 (DMS25), 3x double membrane seal M32 (DMS32), 4x screw cover, 2x external fixing lug |

Mast attachment



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

DIN-rail



| Type | NCHS11 | NCHS14 | NCHS18 |
|--------------|---------------------------|---------------------------|---------------------------|
| Execution | DIN-rail | DIN-rail | DIN-rail |
| Item no. | 7390137 | 7390138 | 7390139 |
| SU / CB / PL | 1 / - / - | 1 / - / - | 1 / - / - |
| Suitable for | NFK11 Executions | NFK14 Executions | NFK18 Executions |
| Set content | 1x top hat rail, 2x screw | 1x top hat rail, 2x screw | 1x top hat rail, 2x screw |

Mounting plate



| Type | NCMP11 | NCMP14 | NCMP18 |
|--------------|-----------------------------|-----------------------------|-----------------------------|
| Execution | Mounting plate | Mounting plate | Mounting plate |
| Item no. | 7390141 | 7390142 | 7390143 |
| SU / CB / PL | 1 / - / - | 1 / - / - | 1 / - / - |
| Suitable for | NFK11 Executions | NFK14 Executions | NFK18 Executions |
| Set content | 1x mounting plate, 4x screw | 1x mounting plate, 4x screw | 1x mounting plate, 4x screw |





| Type | DMS20 | DMS25 | DMS32 |
|----------------|---------------------------|---------------------------|---------------------------|
| Execution | 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 |
|----------------|---------------------------|---------------------------|---------------------------|
| Execution | 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 |



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

More information on the NEPTUN damp area distributors can be found from page 111 onwards.



TIE system for device installation

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.



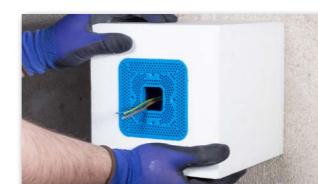
- 2** Cut pipe flush with the wall.



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



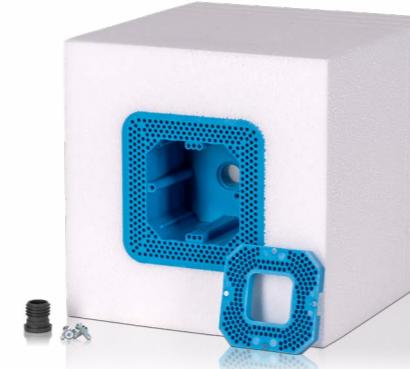
- 4** Insert line into the pre-drilled entry hole.



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

TIE system for device installation

| | |
|--|--|
| Type | EPS20-MULTI |
| Execution | TIE 2.0 multifunction device box |
| 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 ² |
| Material | PU |
| Properties | 1-way receptacle and equipment support plate to 180 NM |
| Pre-drilled cable bushing | Ø 10 mm |
| Thermal insulation capacity U (with insulation layer 200 mm) | 0.17 W / (m ² · K) |



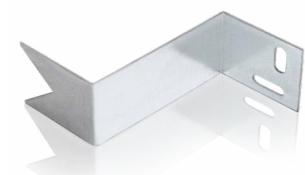
TIE-Hybrid glue

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



- Cured after only 24 hours

TIE-Mounting bracket

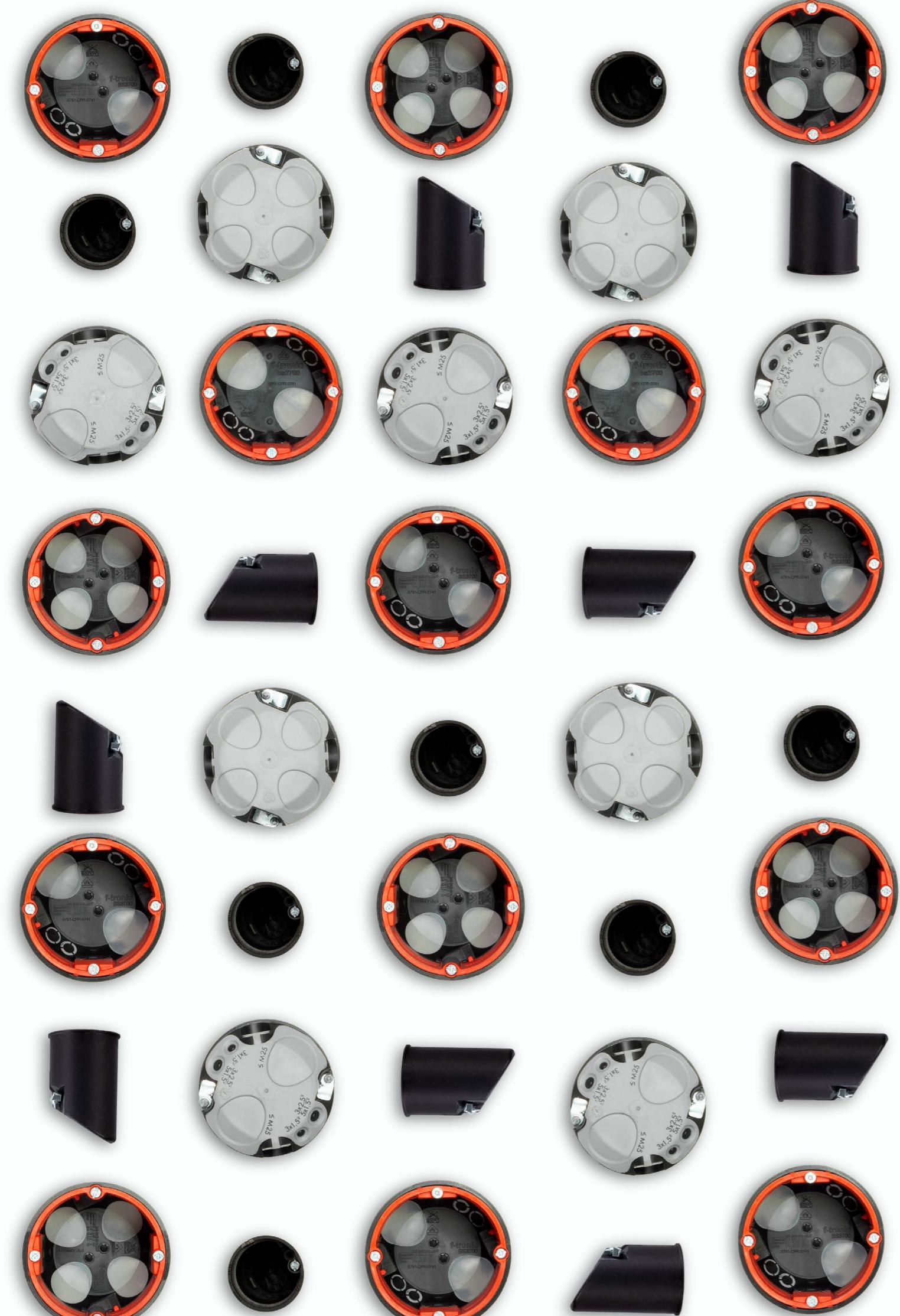


- Alternatively, for rapid adhesive mounting, we also offer mounting brackets with nail or screw fastenings

| | |
|--------------|----------------------|
| Type | 252-WK |
| Execution | TIE-mounting bracket |
| Item no. | 7810042 |
| SU / CB / PL | 1 / 10 / 4,000 |
| Material | Steel |
| Set content | 2 pieces |



Get electrified!
Learn more about **f-tronic®** and our products.



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 pipes from fire protection sections. In product development, however, we not only consider standard installation environments. We also design and test our products in timber construction and shaft walls, as well as in ceilings of fire compartments.

Contents

| | |
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| Fire protection systems | 70 |
| Fire protection socket boxes..... | 72 |
| Fire protection systems accessories | 77 |
| Fastening system with functional endurance | 78 |



Fire protection socket box with push-through membrane, airtight



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 to EI120
 - fire resistance class EI30 to EI60 without insulating wool
- Laminated timber wall:
 - Fire resistance class 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.



2 Smoke containment

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



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.



4 Tool-free

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 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.



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. 49)

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.



Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems

f-tronic Experts



| Type | BS2000 | BS2700 | BS3500 | BS3700 |
|--|--------------------------|--------------------------|--------------------------|--------------------------|
| Execution | Device socket | Device socket | Device connection socket | 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 |
| Depth | 50 mm | 50 mm | 62 mm | 62 mm |
| max. cross section | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² | 2.5 mm ² |
| Material | PP / TPE-S | PP / TPE-S | PP / TPE-S | PP / TPE-S |
| Cable entry 3 x 1.5 ² | - | 2 | - | 2 |
| 5 x 1.5² / 3 x 2.5² | - | 2 | - | 2 |
| Pipe entry | 4x ≤ M20 | 2x ≤ M25 | 4x ≤ M20 | 2x ≤ M25 |
| Accessories | per unit incl. 5x E105HF |

Fire protection socket box milling hole Ø 74mm



Proven protection Solid in case of fire

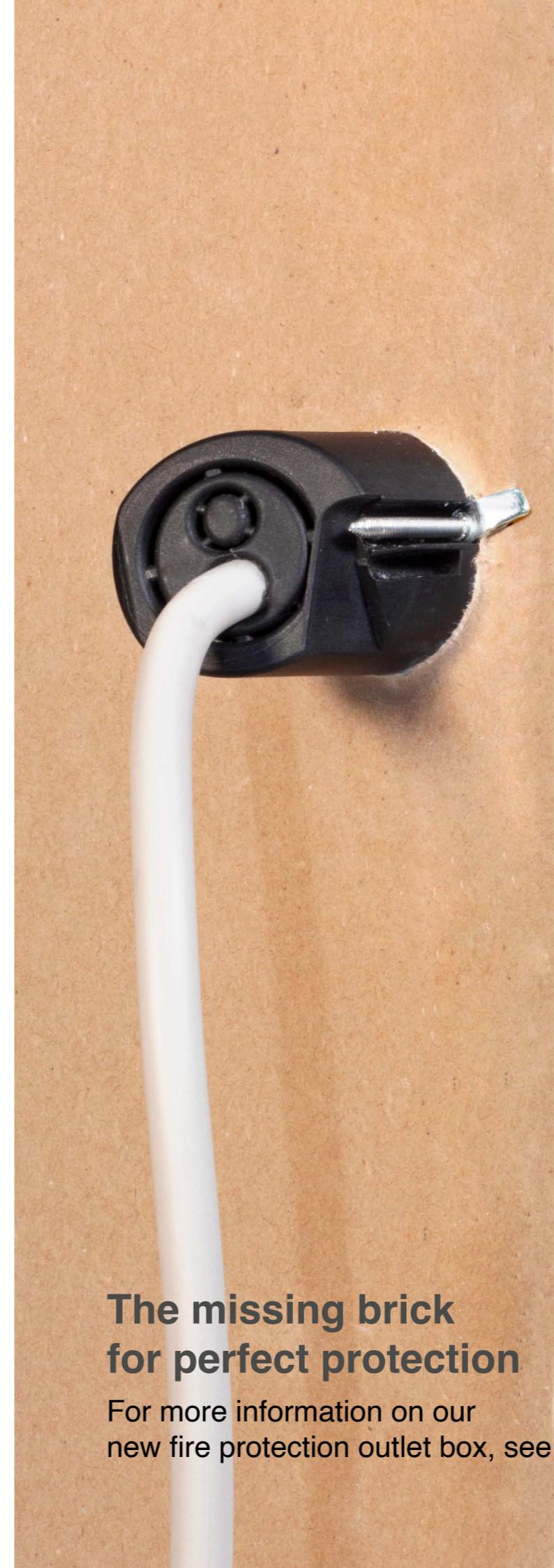
- With fire resistance class EI90
- BS117 approved for ceilings up to EI60
- Subsequent and opposing installation possible
- Installation boxes meet the sound insulation requirements
- Up to 5 socket box stacking



| Type | BS115 | BS117 | BS118 |
|---------------------------|---------------------|--------------------------|---------------------------------|
| Execution | 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 ² | 2.5 mm ² | 2.5 mm ² |
| Material | SAFE 90 | SAFE 90 | SAFE 90 |
| Cable entry | 2 to Ø 14.4mm | 2 to Ø 11.6mm | 4 to Ø 11.6mm |
| Pipe entry M20 | - | 4 | - |



| Type | BS112 | BS112/2 |
|---------------------|------------------|----------------|
| Execution | 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

For more information on our
new fire protection outlet box, see page 76.



Fire protection outlet box



Application

**1 Cable entry**

Time-saving entry for 2 cables.

**2 Pipe entry**

Unique M25 pipe entry in fire protection outlet box.



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

Insulating layer

Safe partitioning
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



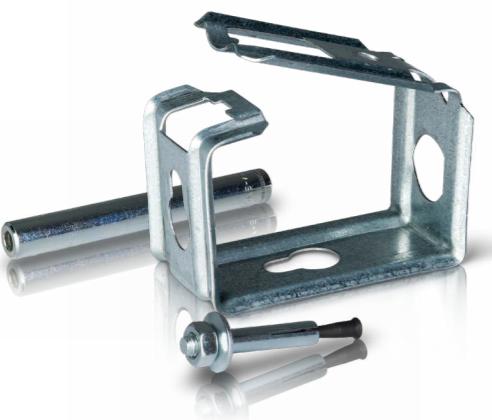
| Type | BSDS |
|--------------|------------------|
| Execution | Insulating layer |
| Item no. | 7500004 |
| SU / CB / PL | 1 / 20 / 720 |
| Content | 310ml/400g |

Accessories



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

Fastening system with functional endurance



Works even when things get hot

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

Assembly instructions



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.

Cable collection holder with functional endurance



| Type | KSM15 | KSM30 |
|----------------------------|-------------------------|-------------------------|
| Execution | 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 |

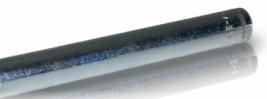
Dowels for collecting holders

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

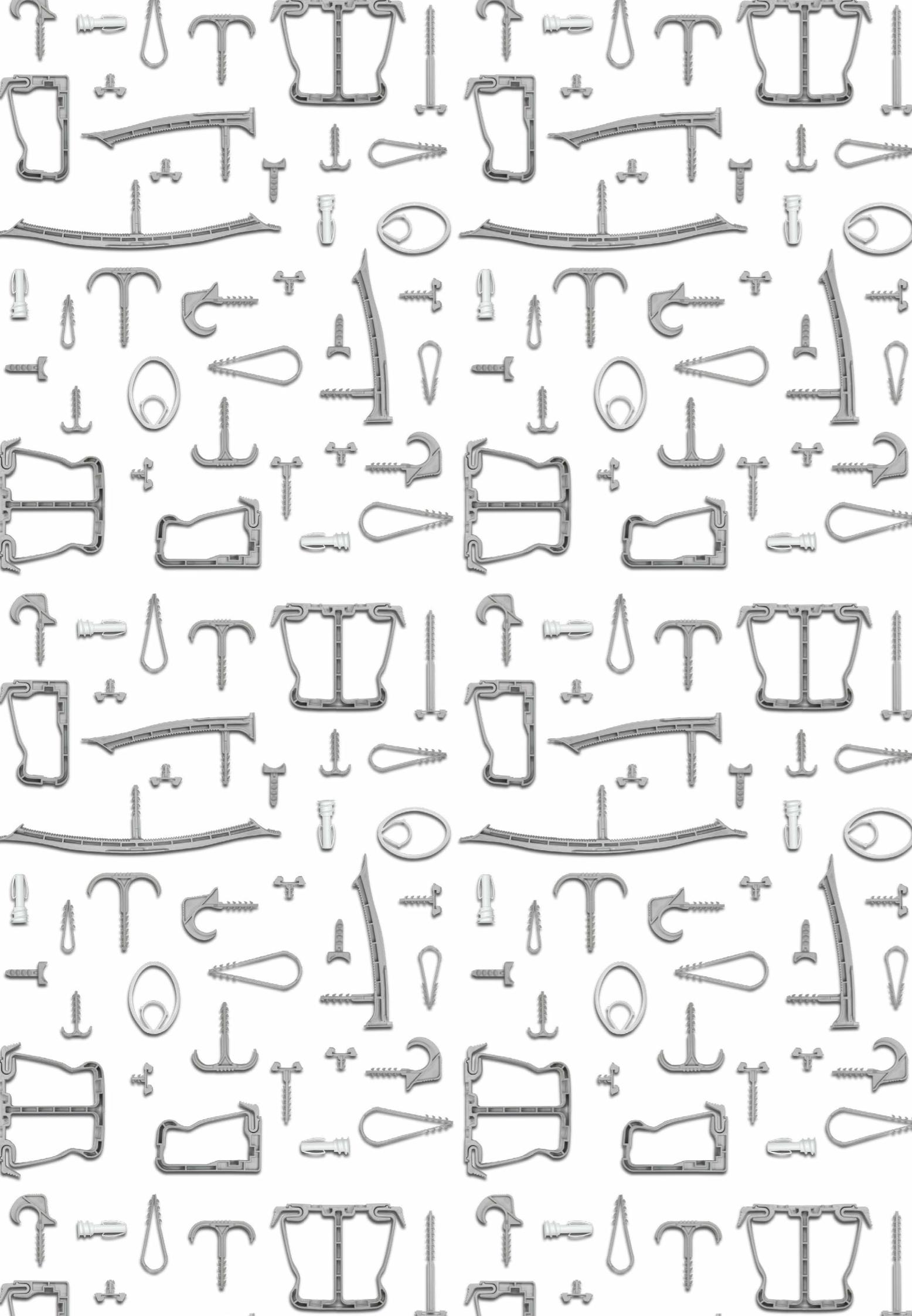


| Type | KDM-2 Set |
|-------------------|------------------------------|
| Execution | 200 anchors + stop drill bit |
| Item no. | 7501003 |
| SU / CB / PL | 1 / 10 / - |
| Length of anchor | 32 mm |
| Material | Steel |
| Drilling diameter | Ø 6 mm |

Accessory cable collection holder



| Type | SWM-SM 50 | SDS 1 |
|--------------|----------------------------|----------------|
| Execution | 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 f-tronic® Cable Management System (CMS) products are easily 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.

We expanded our range of fastening techniques to systems with functional endurance, these materials round off the whole range.

All the benefits that are offered by "Made in Germany" technologies: Very simple operation without changing of tools, enormous time savings during installation, with easy laying and mounting.

One could also say: select your CMS, plug it in, you're done!

Contents

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| Fastening systems | 80 |
| Cable Management System | 82 |
| Installation aids | 87 |
| Fastening system with functional endurance | 90 |



Cable Management System

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 is required

HALOGEN
FREE
IEC60068-2-27

| Type | CMS11 | CMS12 | CMS13 |
|--------------------|------------------------|------------------------|------------------------|
| Execution | 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 | Pipe | Pipe |
| for drill diameter | Ø 6 mm | Ø 6 mm | Ø 6 mm |
| Material | PP | PP | PP |
| Colour | grey | grey | grey |

Assembly instructions



1 Drilled hole Ø 6 mm.



2 The product is inserted without any additional tools.



3 Simple and quick installation, secure hold.

Insertion flap

| Type | CMS1 | CMS2 | CMS3 | CMS4 |
|--------------------------------------|-----------------------|-----------------------|----------------------|----------------------|
| Execution | 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 for drill diameter | 3 - 13 mm Ø 6 mm | 6 - 20 mm Ø 6 mm | 8 - 28 mm Ø 6 mm | 20 - 40 mm Ø 6 mm |
| Material | PP | PP | PP | PP |
| Colour | grey | grey | grey | grey |

Double plug-in anchors

| Type | CMS1S | CMS2S | CMS3S | CMS4S |
|--------------------------------------|-----------------------|-----------------------|----------------------|----------------------|
| Execution | 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 for drill diameter | 3 - 13 mm Ø 6 mm | 6 - 20 mm Ø 6 mm | 8 - 28 mm Ø 6 mm | 20 - 40 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 and quick installation, safe stop.

Clamp



| Type | CMS9 | CMS10 |
|--------------------|-------------------|-------------------|
| Execution | 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 The product is inserted without any additional tools.



3 Simple retrofitting possible.



4 Secure hold.

Cable collection holder



| Type | CMS15 | CMS30 |
|----------------------|---------------------------|---------------------------|
| Execution | 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 |

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 retrofitting possible.



4 Secure hold.



| Type | CMS5 | CMS6 | CMS7 | CMS8 |
|-------------------|-----------------------|----------------------|----------------------|--------------------|
| Execution | 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 / 1,000 / 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 |



| Type | CMS17 | CMS18 |
|-------------------|----------------------|----------------------|
| Execution | 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 |



| Type | CMS21 |
|-------------------|----------------------------|
| Execution | 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 |

Simple push-in plug for pipes

Application



Cable tie fastening anchor

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!

Application



- 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 |
|--------------|-----------------------|
| Execution | 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.



- 3** For cables.



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

Multi bracket



| Type | FT8 | FT10 | FT16 |
|--------------|---------------------|-------------------|-------------------|
| Execution | Cable bracket | Cable bracket | Cable bracket |
| 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 |
|--------------|----------------------|----------------------|----------------------|
| Execution | 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 |
|--------------|----------------------|----------------------|----------------------|----------------------|
| Execution | 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 |

Cable holder

f-fix

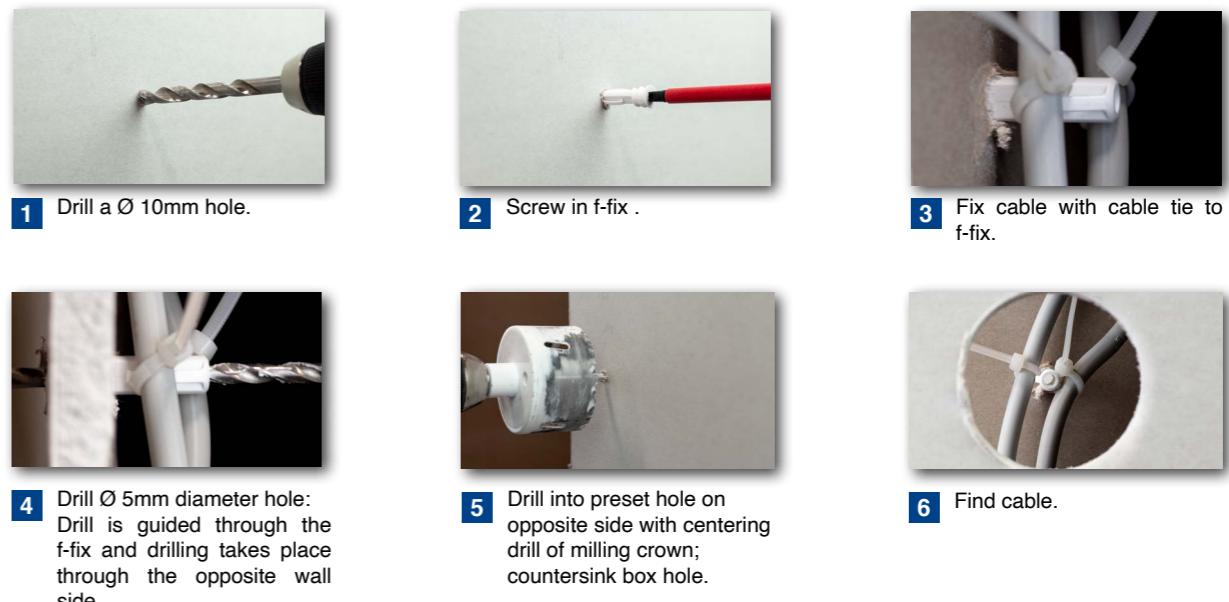
Put an end to cable searches

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



| Type | f-fix | f-fix-MaxiPack | f-fix-Set | f-fix-Bohrer |
|--------------|--|---|--------------------------|--------------------------|
| Execution | Cable holders for hollow wall installation | Cable holders for hollow wall installation MaxiPack | Set 50x f-fix + 1x drill | Drill 5x 200mm for f-fix |
| Item no. | 7390114 | 7390117 | 7390115 | 7390118 |
| SU / CB / PL | 100 / 2,000 / - | 500 / 2,000 / - | 1 / 30 / - | 10 / - / - |

Assembly instructions



Fastening system with functional endurance



Works even when things get hot

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

Assembly instructions



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.

Cable collection holder with functional endurance



| Type | KSM15 | KSM30 |
|----------------------------|-------------------------|-------------------------|
| Execution | 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 |
|-------------------|------------------------------|
| Execution | 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 |
|--------------|----------------------------|----------------|
| Execution | 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

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

With our JUMBO flush mounted and hollow wall distributors, we offer a solution for every application. We at f-tronic® have a 1- to 5-row power distribution panel with plug and screw clamps in our range. 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 door. 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 mounted distribution. Here we offer 1- to 4-row power distribution and its matching communication distributor. For damp area or outdoor installations, the f-tronic® surface-mounted damp area distributor series NEPTUN can be used. The NEPTUN is available in 4 sizes and 2 different materials. We also offer practical accessories such as an IP65 connector. For larger space requirements, we have surface mounted field distributors and distribution boards with up to 540 modular units in our range. Optionally also with multi-media fields.

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Flexible usage

Flush mounted and hollow wall

- Generous wiring space
- Strain relief possible
- Frame height 9mm
- Packaging can be used as plaster protection
- Suitable with HWA-Set for hollow wall installation (p. 119)



1 Well-ventilated

Integrated air vents provide heat dissipation.



2 Generously sized

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



3 Optimum alignment

Simple and easy installation, thanks to the integrated spirit level.



4 Additional space

12 + 2 TE per row. Simply break out the cover to use the additional 2 TE per row.



5 Secures

3 + 4 rows standard prepared for three FI circuits.



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_{MAX} | 400 V |
| I_{MAX} | 63A |

| Type | JUMBO12+2 | JUMBO24+4 | JUMBO36+6 | JUMBO48+8 | JUMBO60+10 |
|-----------------------------|--|--|--|--|--|
| Execution | 1-row | 2-rows | 3-rows | 4-rows | 5-rows |
| Item no. | 7250012 | 7250017 | 7250022 | 7250028 | 7250062 |
| SU / CB / PL | 1 / 1 / 90 | 1 / 1 / 60 | 1 / 1 / 45 | 1 / 1 / 45 | 1 / 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 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 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 (MB set) Cover strip (ADS12W) | Hollow wall anchor set (HWA-Set) Mounting bracket set (MB set) Cover strip (ADS12W) | Hollow wall anchor set (HWA-Set) Mounting bracket set (MB set) Cover strip (ADS12W) | Hollow wall anchor set (HWA-Set) Mounting bracket set (MB set) Cover strip (ADS12W) | Hollow wall anchor set (HWA-Set) Mounting bracket set (MB 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 |
| Lead seal / Stacking | ✓ | ✓ | ✓ | ✓ | ✓ |

Accessories from page 117
Clamping equipment from page 133



Installation boxes
Fire protection systems
Fastening systems
Distribution boards

Meter cabinet systems

f-tronic Experts



HW/FM combined power circuit distributor JUMBO with support frame

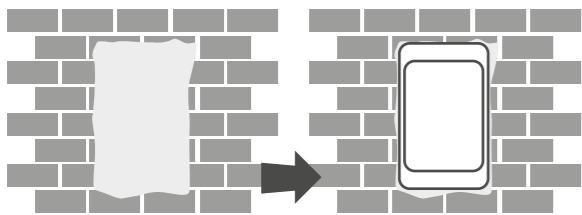


Preassemblable with System

- 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. 119)

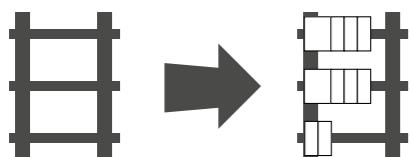
1. Preassemble

Install the distribution pan, lay pipes and cables and attach trim.



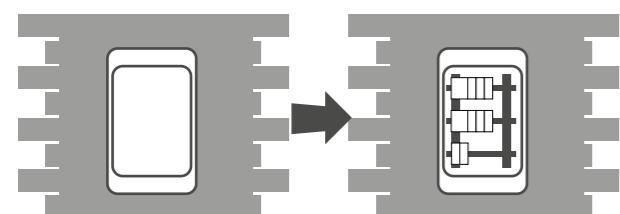
2. Pre-install

On the supporting structure, the devices can be already installed and pre-wired.



3. Complete

Remove the plaster protection, assemble pre-installed supporting structure, connect, mount the frame and door.



HW/FM combined power circuit distributor JUMBO with support frame

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

U_{MAX} 400 V
I_{MAX} 63A

| Type | JUMBO24+4TS | JUMBO36+6TS | JUMBO48+8TS | JUMBO60+10TS |
|-----------------------------|--|---|--|--|
| Execution | 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+RJUMBO36+6) 1x FI additional terminal (FIK) 1x PE-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) 1x N-plug-in terminal (SKN34) 2x N-N-plug-in terminal (SKN17N) | 1x door with frame (T+RJUMBO60+10) 1x PE-plug-in terminal (SKPE34) 1x N-plug-in terminal (SKN34) 2x N-N-plug-in terminal (SKN17N) |
| recommended purchase | Hollow wall anchor set (HWA-Set) Mounting bracket set (MB set) Cover strip (ADS12W) | Hollow wall anchor set (HWA-Set) Mounting bracket set (MB set) Cover strip (ADS12W) | Hollow wall anchor set (HWA-Set) Mounting bracket set (MB set) Cover strip (ADS12W) | Hollow wall anchor set (HWA-Set) Mounting bracket set (MB set) Cover strip (ADS12W) |
| Modules | 28 | 42 | 56 | 56 |
| 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 | 775 x 365 x 98 mm |
| Material | PS/sheet steel | PS/sheet steel | PS/sheet steel | PS/sheet steel |
| Lead seal / Stacking | ✓ | ✓ | ✓ | ✓ |

Accessories from page 117
Clamping equipment from page 133

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_{MAX} 400 V
I_{MAX} 63A

| Type | UPV12+2ST | UPV24+4ST | UPV36+6ST | UPV48+8ST | UPV60+10ST |
|-----------------------------|--|--|---|---|--|
| Execution | 1-row | 2-rows | 3-rows | 4-rows | 5-rows |
| Item no. | 7210028 | 7210029 | 7210030 | 7210031 | 7210063 |
| SU / CB / PL | 1 / 1 / 90 | 1 / 1 / 60 | 1 / 1 / 45 | 1 / 1 / 45 | 1 / 1 / 30 |
| Modules | 14 | 28 | 42 | 56 | 70 |
| 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 |
| Equipped with | 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 clamp (KPE34) 1x N-N screw-terminal (KN17N) | 1x door with frame (T+RJUMBO48+8) 1x PE screw clamp (KPE34) 1x N-N screw-terminal (KN17N) | 1x door with frame (T+RJUMBO60+10) 1x PE screw clamp (KPE34) 2x N-N screw terminal (KN17N) |
| recommended purchase | 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) |
| Material | PS/sheet steel | PS/sheet steel | PS/sheet steel | PS/sheet steel | PS/sheet steel |
| Lead seal / stacking | ✓ | ✓ | ✓ | ✓ | ✓ |

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_{MAX} 400 V
I_{MAX} 63A

| Type | HWV12+2ST | HWV24+4ST | HWV36+6ST | HWV48+8ST | HWV60+10ST |
|-----------------------------|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Execution | 1-row | 2-rows | 3-rows | 4-rows | 5-rows |
| Item no. | 7230015 | 7230016 | 7230017 | 7230018 | 7230035 |
| SU / CB / PL | 1 / 1 / 90 | 1 / 1 / 60 | 1 / 1 / 45 | 1 / 1 / 45 | 1 / 1 / 30 |
| 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 |
| Equipped with | 1x door with frame (T+RJUMBO36+6) 1x PE screw clamp (KPE34) 1x N-N screw-terminal (KN17N) | 1x door with frame (T+RJUMBO24+4) 1x PE-N screw clamp (KN17PE) | 1x hollow wall anchor set (HWA-Set) | 1x hollow wall anchor set (HWA-Set) | 1x hollow wall anchor set (HWA-Set) |
| recommended purchase | Cover strip (ADS12W) | Cover strip (ADS12W) | Cover strip (ADS12W) | Cover strip (ADS12W) | Cover strip (ADS12W) |
| Material | PS/sheet steel | PS/sheet steel | PS/sheet steel | PS/sheet steel | PS/sheet steel |
| Lead seal / Stacking | ✓ | ✓ | ✓ | ✓ | ✓ |

Accessories from page 117
Clamping equipment from page 133

Accessories from page 117
Clamping equipment from page 133



Double Power in distribution

- Generous wiring space
- For flush and hollow wall installation
- Ventilation slots in the door for heat dissipation
- Optimal combination of circuit power and communications distribution
- Variants with WiFi door available
- 5-row housing with 2 or 3 row distribution and corresponding communication field
- Two distributors combined into one space-saving unit



1 Power supply

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



2 Insulated separation

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



| Type | JUMBO60-2 | JUMBO60-3 | JUMBO60-2W | JUMBO60-3W |
|-----------------------------|--|--|--|--|
| Execution | 2-rows + communication field | 3-rows + communication field | 2-rows + communication field | 3-rows + communication field |
| Item no. | 7250067 | 7250068 | 7250069 | 7250070 |
| SU / CB / PL | 1 / 1 / 30 | 1 / 1 / 30 | 1 / 1 / 30 | 1 / 1 / 30 |
| HW / FM | ✓ | ✓ | ✓ | ✓ |
| Equipped with | 1x door with frame (T+RJUMBO60K) 1x mounting plate 2x mounting plate 1x PE-N plug-in terminal (SKN17PE) 1x socket 1x hollow wall anchor set (HWA-Set) | 1x door with frame (T+RJUMBO60-2) 1x mounting plate 1x PE-plug-in terminal (SKPPE34) 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) |
| recommended purchase | 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) |
| Modules | 28 | 42 | 28 | 42 |
| H x W x D | 900 x 365 x 98 mm | 900 x 365 x 98 mm | 900 x 365 x 98 mm | 900 x 365 x 98 mm |
| Lead seal / Stacking | ✓ | ✓ | ✓ | ✓ |
| Panel thickness HW | 8 - 40 mm | 8 - 40 mm | 8 - 40 mm | 8 - 40 mm |

Accessories from page 117
Clamping equipment from page 133



Innovative solutions for communications distribution

- For hollow wall and flush installation
- For installation of multimedia applications (e.g.: Telecommunications and CATV 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



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. 121)



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_{MAX} 400 V
I_{MAX} 63A

| Type | JUMBO36K | JUMBO48K | JUMBO60K |
|----------------------|--|--|--|
| Execution | 3-rows | 4-rows | 5-rows |
| Item no. | 7250027 | 7250033 | 7250063 |
| SU / CB / PL | 1 / 1 / 45 | 1 / 1 / 45 | 1 / 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 |
| Stackable | ✓ | ✓ | ✓ |
| Material | PS/sheet steel | PS/sheet steel | PS/sheet steel |

Accessories from page 117

Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems

f-tronic Experts



Innovative solutions for communications distribution

- For hollow wall and flush installation
- For installation of multimedia applications (e.g.: telecommunications and CATV 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. 121)



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_{MAX} 400V
I_{MAX} 63A

| Type | JUMBO36KW | JUMBO48KW | JUMBO60KW |
|----------------------|--|--|--|
| Execution | 3-rows | 4-rows | 5-rows |
| Item no. | 7250064 | 7250065 | 7250066 |
| SU / CB / PL | 1 / 1 / 45 | 1 / 1 / 45 | 1 / 1 / 30 |
| HW / REC | ✓ | ✓ | ✓ |
| Equipped with | 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) |
| 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 |
| Lead seal / Stacking | ✓ | ✓ | ✓ |
| Material | PS/sheet steel | PS/sheet steel | PS/sheet steel |

Accessories from page 117

f-tronic Experts



VISION

for the installation of tomorrow

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



1 Perfect hold

Strain relief for imported lines above and below.



2 Generously sized

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



3 Entry options

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



4 Additional space

12 + 2 mounting DU per row. Simply break out the cover to use the additional 2 TE per row.



5 Secures

3 + 4 rows standard prepared for three FI circuits.

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

U_{MAX} 400V
I_{MAX} 63A



| Plug-in terminal | Type | APV12+2 | APV24+4 | APV36+6 | APV48+8 |
|------------------|-----------|---|---|--|--|
| | Execution | 1-row | 2-rows | 3-rows | 4-rows |
| Equipped with | Item no. | 7220044 | 7220050 | 7220056 | 7220061 |
| | | 1x FI additional terminal (FIK) 1x PE-N plug-in terminal (SKN17PE) | 1x FI additional terminal (FIK) 1x PE-N plug-in terminal (SKN17PE) | 1x N plug-in terminal (SKN34) 1x N-N plug-in terminal (SKN17N) 1x PE plug-in terminal (SKPE34) | 1x N plug-in terminal (SKN34) 1x N-N plug-in terminal (SKN17N) 1x PE plug-in terminal (SKPE34) |

| Screw terminal | Type | APV12+2PEN | APV24+4PEN | APV36+6PEN | APV48+8PEN |
|----------------------|-----------|--|--|--|--|
| | Execution | 1-row | 2-rows | 3-rows | 4-rows |
| Equipped with | Item no. | 7220045 | 7220051 | 7220057 | 7220062 |
| | | 1x PE-N screw clamp (KN17PE) | 1x PE-N screw clamp (KN17PE) | 1x N screw clamp (KN34) 1x PE screw clamp (KPE34) | 1x N screw clamp (KN34) 1x PE screw clamp (KPE34) |
| SU / CB / PL | | 1 / 12 / 144 | 1 / 8 / 96 | 1 / 6 / 72 | 1 / 5 / 30 |
| recommended purchase | | Metal door (APV12+2TM) Plastic door (APV12+2TW) | Metal door (APV24+4TM) Plastic door (APV24+4TW) | Metal door (APV36+6TM) Door plastic (APV36+6TW) | Metal door (APV48+8TM) Door plastic (APV48+8TW) |
| Modules | | 14 | 28 | 42 | 56 |
| H x W x D | | 250 x 305 x 99 mm | 375 x 305 x 99 mm | 515 x 305 x 99 mm | 640 x 305 x 99 mm |
| Inserts | | 2 x 220 x 35 mm flange 4 x M25 | 2 x 220 x 35 mm flange 6 x M25 | 2 x 220 x 35 mm flange 8 x M25 | 2 x 220 x 35 mm flange 10 x M25 |
| Lead seal / Stacking | | ✓ / - | ✓ / - | ✓ / - | ✓ / - |
| Material | | PS | PS | PS | PS |

Accessories from page 117
Clamping equipment from page 133



VISION K

for a future-oriented technology

- For installation of multimedia applications (e.g.: telecommunications and BK distributions)
- 3- and 4-row Execution 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.



3 Ordered

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



2 Convertible

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



| Type | APV36K | APV48K |
|----------------------|---|---|
| Execution | 3-rows | 4-rows |
| Item no. | 7220087 | 7220088 |
| SU / CB / PL | 1 / 6 / 72 | 1 / 5 / 30 |
| Mounting surface | 450 x 210 mm | 600 x 210 mm |
| H x W x D | 515 x 305 x 99 mm | 640 x 305 x 99 mm |
| Lead seal / Stacking | ✓ / - | ✓ / - |
| Equipped with | 1x door (APVTM36) 1x patch panel (PATCH12) 2x mounting plate 1x 3-fold outlet (STECKD3) | 1x door (APVTM48) 1x patch panel (PATCH12) 3x mounting plate 1x 3-fold outlet (STECKD3) |

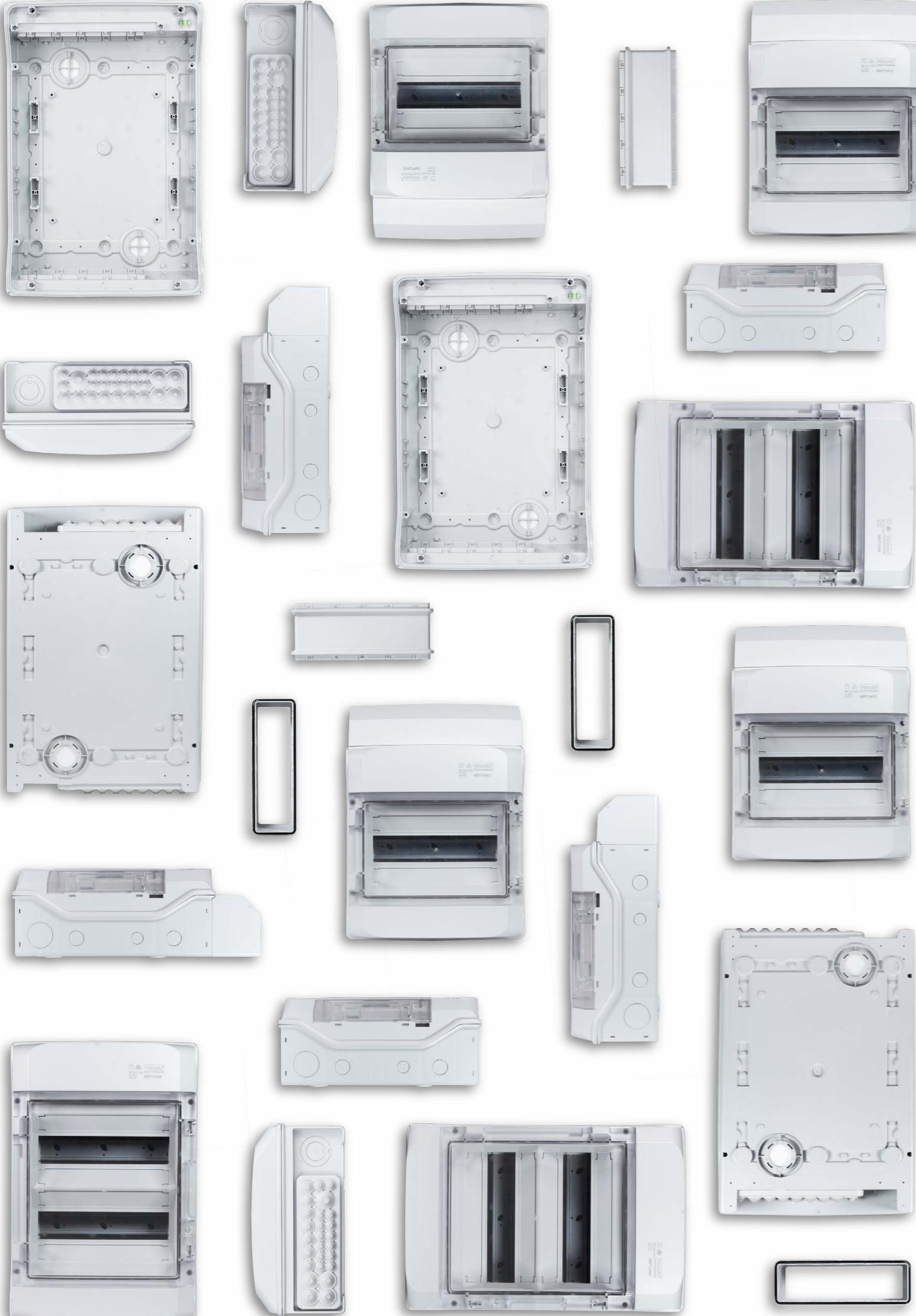
Accessories from page 117

Surface mounted damp area distributor IP65

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 executions
- For high requirements SQ variant



1 DIN-rail adjustment

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

3 Entry flange MKF4/26

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

5 Cable cover

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

2 Cable gland

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

4 AMS ventilation system

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

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_{max} | AC 400 V AC 1000 V* DC 1500 V* |
| I_{max} | 63A |



| Type | NEPTUN12 | NEPTUN24 | NEPTUN36 | NEPTUN48 | |
|----------------------|--|--|---|---|--|
| Execution | 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 gland, 1x cover strips (ADS12gr) | 1x PE-N plug-in terminal (SKN17PE) 1x cable gland, 1x cover strip (ADS12gr) | 1x N-N plug-in terminal (SKN17N), 1x PE-plug-in terminal (SKPE34), 1x cable gland, 2x cover strips (ADS12gr) | 1x N-N plug-in terminal (SKN17N), 1x PE-plug-in terminal (SKPE34), 1x cable gland, 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, 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 | 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 |

Accessories from page 119

*Rated insulation voltage of 1000V AC / 1500V DC only applicable when using the external fixing lugs (p. 122).

NEPTUN SQ

Solid Quality
For particularly high requirements

The solid-quality version 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_{max} | AC 400 V AC 1000 V* DC 1500 V* |
| I_{max} | 63A |



| Type | NEPTUN12SQ | NEPTUN24SQ | NEPTUN36SQ | NEPTUN48SQ | |
|----------------------|--|--|---|---|--|
| Execution | 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 gland, 1x cover strip (ADS12gr) | 1x PE-N plug-in terminal (SKN17PE) 1x cable gland, 1x cover strip (ADS12gr) | 1x N-N plug-in terminal (SKN17N), 1x PE plug-in terminal (SKPE34), 1x cable gland, 2x cover strips (ADS12gr) | 1x N-N plug-in terminal (SKN17N), 1x PE plug-in terminal (SKPE34), 1x cable gland, 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, 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 | 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 |

Accessories from page 119

*Rated insulation voltage of 1000V AC / 1500V DC only applicable when using the external fixing lugs (p. 122).

Surface mounted damp area distributor IP65



| Type | APV4 | APV6 |
|----------------------|---|---|
| Execution | 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 clamp 5-pole 1x N-screw clamp 5-pole Double-membrane seals (DMS20/DMS25) | 1x cover strips 4HP 1x PE screw clamp 5-pole 1x N-screw clamp 5-pole Double-membrane seals (DMS20/DMS25) |
| Modules | 4 | 6 |
| H x W x D | 200 x 125 x 120 mm | 200 x 160 x 120 mm |
| I _{MAX} | 63 A | 63 A |
| Material | PS / PC | PS / PC |
| Lead seal / Stacking | ✓ / ✓ | ✓ / ✓ |
| Inserts | 2x M20/M25, 12x M20 | 2x M20/M25, 12x M20 |

Accessories from page 119
Clamping equipment from page 133

Surface mounted damp area distributor IP55



| Type | KV04WDKE | KV06WDKE | KV10WDKE |
|------------------|--|--|--|
| Execution | 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 clamp 5-pole 1x N screw clamp 5-pole Double-membrane seals (DMS20) | 1x PE screw clamp 5-pole 1x N screw clamp 5-pole Double-membrane seals (DMS20) | 1x PE screw clamp 5-pole 1x N screw clamp 5-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 _{MAX} | 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 119
Clamping equipment from page 133

Surface mounted automate box

Compact housing

For clear installation

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



| Type | KV02 | KV04 | KV06 |
|--------------|------------------|------------------|-------------------|
| Execution | 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 |
|---------------|------------------|------------------|-------------------|
| Execution | 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 clamps | PE-N clamps | PE-N clamps |

Package JUMBO and manifold connector



The perfect team

With strong cohesion

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



| Type | JUMBO PA3 | JUMBO PA4 | JUMBO PA5 |
|---------------|---|---|--|
| Execution | 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 |
| Set 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 |

Distribution connector

Distribution 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
- Optimal for combining circuit and communication distributor



Assembly instructions



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



2 Place the connectors from behind 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 distributor.



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 |
|--------------|---|---|---|
| Execution | Distribution connector set for JUMBO 3 rows | Distribution connector set JUMBO for 4 rows | Distribution connector set JUMBO for 5 row |
| 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

Suitable in every application



| | | | | | | | |
|--------------|--------------|--------------|---|---|--------------|--------------|---|
| 1-row | Type | T+RJUMBO12+2 | - | - | APV12+2TM | APV12+2TW | - |
| | Item no. | 7290090 | - | - | 7220046 | 7220048 | - |
| | SU / CB / PL | 1 / 12 / 96 | - | - | 1 / 10 / 560 | 1 / 10 / 560 | - |

| | | | | | | | |
|---------------|--------------|--------------|---|---|--------------|--------------|---|
| 2-rows | Type | T+RJUMBO24+4 | - | - | APV24+4TM | APV24+4TW | - |
| | Item no. | 7290091 | - | - | 7220052 | 7220054 | - |
| | SU / CB / PL | 1 / 12 / 96 | - | - | 1 / 10 / 320 | 1 / 15 / 480 | - |

| | | | | | | | |
|---------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|
| 3-rows | Type | T+RJUMBO36+6 | T+RJUMBO36K | T+RJUMBO36KW | APV36+6TM | APV36+6TW | APVTK36TM |
| | Item no. | 7290092 | 7290094 | 7290164 | 7220058 | 7220060 | 7220166 |
| | SU / CB / PL | 1 / 12 / 48 | 1 / 12 / 48 | 1 / 12 / 48 | 1 / 20 / 160 | 1 / 20 / 160 | 1 / 12 / 160 |

| | | | | | | | |
|---------------|--------------|--------------|-------------|--------------|-------------|-------------|-------------|
| 4-rows | Type | T+RJUMBO48+8 | T+RJUMBO48K | T+RJUMBO48KW | APV48+8TM | APV48+8TW | APVTK48TM |
| | Item no. | 7290093 | 7290095 | 7290165 | 7220063 | 7220065 | 7220167 |
| | SU / CB / PL | 1 / 12 / 24 | 1 / 12 / 24 | 1 / 12 / 24 | 1 / 40 / 80 | 1 / 40 / 80 | 1 / 40 / 80 |

| | | | | | | | |
|---------------|--------------|---------------|-------------|--------------|---|---|---|
| 5-rows | Type | T+R+10JUMBO60 | T+RJUMBO60K | T+RJUMBO60KW | - | - | - |
| | Item no. | 7290168 | 7290167 | 7290166 | - | - | - |
| | SU / CB / PL | 1 / 1 / - | 1 / 1 / - | 1 / 1 / - | - | - | - |

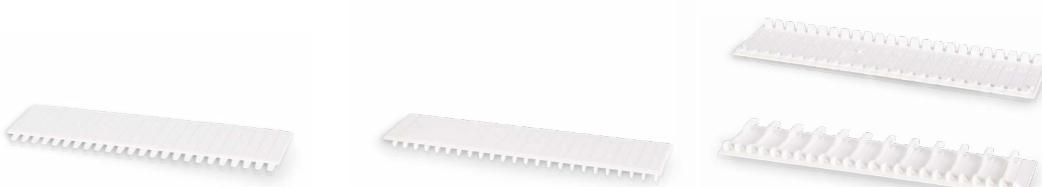
| | | | | | | |
|----------------------|-------------|-------------|------------------|-------------|--------|-------------|
| suitable for | JUMBO | JUMBO K | JUMBO KW | VISION | VISION | VISION K |
| Material | Sheet steel | Sheet steel | Sheet steel / PS | Sheet steel | PC | Sheet steel |
| WiFi-suitable | - | - | ✓ | - | - | - |
| Vent slots | - | - | ✓ | ✓ | - | ✓ |



| | | | | | | | |
|---------------|---------------------|--------------|---------------|--|--|--|--|
| 5-rows | 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

Safety simple and effective



| Type | ADS12W | ADS12GR | ADS12SB |
|---------------------|-------------------|-------------------|------------------------|
| Execution | 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

Application



| Type | TSV |
|---------------------|-------------------------|
| Execution | 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 |
|---------------------|-----------------|----------------------|---------------------|------------------------|
| Execution | 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 / REC | - / ✓ | - / ✓ | ✓ / ✓ | ✓ / - |
| Set contents | 4 pieces | 4 pieces | 2 pieces | 4 pieces |





Plug-in terminal



| Type | SKN17N | SKN17PE | SKN34 | SKPE34 |
|--------------|---|---|---|---|
| Execution | N-N plug-in terminal | PE-N plug-in terminal | N 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 ² plug-in 14x 4mm ² per side | screw-in 3x 25mm ² plug-in 14x 4mm ² per side | screw-in 6x 25mm ² plug-in 28x 4mm ² | screw-in 6x 25mm ² plug-in 28x 4mm ² |
| Colour | blue | blue/yellow | blue | yellow |
| suitable for | rigid CU conductors | rigid CU conductors | rigid CU conductors | rigid CU conductors |



Screw terminal



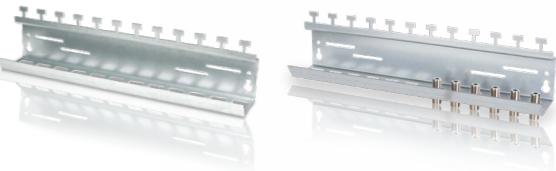
| Type | KN17N | KN17PE | KN34 | KPE34 |
|--------------|---|--|--|--|
| Execution | N-N screw terminal | PE-N screw terminal | N screw terminal | PE screw terminal |
| Item no. | 7290158 | 7290159 | 7290157 | 7290160 |
| SU / CB / PL | 1 / 20 / 1.440 | 1 / 20 / 1.440 | 1 / 20 / 1.440 | 1 / 20 / 1.440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

Accessories



| Type | PEN310 | N14 | FIK | PEK |
|--------------|----------------|--|--|--|
| Execution | PE-N bridge | N plug-in terminal | 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 ² 2x 4 mm ² 12x 2.5 mm ² | 3x 16 mm ² 2x 10 mm ² | 3x 16 mm ² 2x 10 mm ² |
| suitable for | - | rigid conductors | rigid and flexible conductors | rigid and flexible conductors |

Patch panel



| Type | PATCH12 | PATCH6+6 |
|---------------------|-----------------------------------|------------------------------|
| Execution | Patch field for Keystone mounting | Patch panel divided |
| Item no. | 7290116 | 7290183 |
| SU / CB / PL | 1 / 20 / 960 | 1 / 32 / 1,280 |
| 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 |

Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems

f-tronic Experts

Device bracket set



| Type | GK45 |
|--------------|---|
| Execution | 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 |
| Set contents | 2x device clamp 4x screw |

3-fold outlet



| Type | STECKD3 |
|--------------|----------------|
| Execution | Outlet |
| Item no. | 7290113 |
| SU / CB / PL | 1 / 32 / 1,280 |
| Material | PS |
| suitable for | JUMBO/VISION |

NEPTUN accessories



IP 54

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

NEPTUN door



| Type | NT1 | NT2 | NT3 | NT4 |
|--------------|--------------|--------------|--------------|--------------|
| Execution | 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 |
|--------------|--------------------|----------------|-----------------------|--|
| Execution | 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 |
| Set contents | 2x door hinge | 3x door hinge | - | 2x vent membrane; 2x vent insert open |

NEPTUN cable cover



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

NEPTUN connector

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 |
|--------------|------------------|
| Execution | NEPTUN connector |
| Item no. | 7290217 |
| SU / CB / PL | 1 / - / - |





| Type | STM25 | STM32 | STM40 |
|--------------|--------------------|--------------------|--------------------|
| Execution | Stepped collar M25 | Stepped collar M32 | Stepped collar M40 |
| Item no. | 7290086 | 7290087 | 7290088 |
| SU / CB / PL | 20 / 800 / 51,200 | 20 / 600 / 38,400 | 20/400/25,600 |
| Material | PVC | PVC | PVC |
| Colour | grey | grey | grey |



| Type | DMS20 | DMS25 | DMS32 |
|----------------|--------------------------|--------------------------|--------------------------|
| Execution | Double-membrane seal M20 | Double-membrane seal M25 | Double-membrane seal 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 | TS3 | APV4T | APV6T |
|--------------|--------------------|---------------------|---------------------|
| Execution | Door lock complete | Spare door for APV4 | Spare door for APV6 |
| Item no. | 7240059 | 7290114 | 7290115 |
| SU / CB / PL | 1 / 20 / 8,400 | 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 57 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 |
|--------------|--------------------|--------------------|------------|----------|
| 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 | | |

| | FV1-4 | FV2-4 | FV3-4 | |
|--------------|--------------------|--------------------|--------------------|--|
| Type | | 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 165 mm | 650 x 550 x 165 mm | 650 x 800 x 165 mm | |
| Material | Sheet steel | Sheet steel | Sheet steel | |

| | FV1-5 | FV2-5 | FV3-5 | FV4-5 |
|--------------|--------------------|--------------------|--------------------|----------------------|
| Type | | 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 165 mm | 800 x 550 x 165 mm | 800 x 800 x 165 mm | 800 x 1,050 x 165 mm |
| Material | Sheet steel | Sheet steel | Sheet steel | Sheet steel |

| | FV1-6 | FV2-6 | FV3-6 | FV4-6 |
|--------------|--------------------|--------------------|--------------------|----------------------|
| Type | | 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 165 mm | 950 x 550 x 165 mm | 950 x 800 x 165 mm | 950 x 1,050 x 165 mm |
| Material | Sheet steel | Sheet steel | Sheet steel | Sheet steel |

Accessories from page 130
Clamping equipment technology from page 133

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 terminals in scope of delivery
- Retractable mounting rails
- Large wiring space behind the standard mounting 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 |
|--------------|--------------------|--------------------|------------|----------|
| 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 | | |

| | 1-field | 2-fields | 3-fields | 4-fields | 5-fields |
|--------------|--------------------|--------------------|--------------------|----------------------|----------------------|
| Type | VS1-6 | VS2-6 | VS3-6 | VS4-6 | VS5-6 |
| Item no. | 7110240 | 7110241 | 7110242 | 7110243 | 7110244 |
| SU / CB / PL | 1 / 1 / 15 | | 1 / 1 / 8 | 1 / 1 / 7 | 1 / 1 / 3 |
| Modules | 72 | | 144 | 216 | 360 |
| H x W x D | 950 x 300 x 210 mm | 950 x 550 x 210 mm | 950 x 800 x 210 mm | 950 x 1,050 x 210 mm | 950 x 1,300 x 210 mm |
| Material | Sheet steel | Sheet steel | Sheet steel | Sheet steel | Sheet steel |

| | 1-field | 2-fields | 3-fields | 4-fields | 5-fields |
|--------------|----------------------|----------------------|----------------------|------------------------|------------------------|
| Type | VS1-7 | VS2-7 | VS3-7 | VS4-7 | VS5-7 |
| Item no. | 7110245 | 7110246 | 7110247 | 7110248 | 7110249 |
| SU / CB / PL | 1 / 1 / 15 | | 1 / 1 / 8 | 1 / 1 / 5 | 1 / 1 / 3 |
| Modules | 84 | | 168 | 252 | 420 |
| H x W x D | 1,100 x 300 x 210 mm | 1,100 x 550 x 210 mm | 1,100 x 800 x 210 mm | 1,100 x 1,050 x 210 mm | 1,100 x 1,300 x 210 mm |
| Material | Sheet steel | Sheet steel | Sheet steel | Sheet steel | Sheet steel |

| | 1-field | 2-fields | 3-fields | 4-fields | 5-fields |
|--------------|----------------------|----------------------|----------------------|------------------------|------------------------|
| Type | VS1-8 | VS2-8 | VS3-8 | VS4-8 | VS5-8 |
| Item no. | 7110250 | 7110251 | 7110252 | 7110253 | 7110254 |
| SU / CB / PL | 1 / 1 / 8 | | 1 / 1 / 6 | 1 / 1 / 5 | 1 / 1 / 3 |
| Modules | 96 | | 192 | 288 | 480 |
| H x W x D | 1,250 x 300 x 210 mm | 1,250 x 550 x 210 mm | 1,250 x 800 x 210 mm | 1,250 x 1,050 x 210 mm | 1,250 x 1,300 x 210 mm |
| Material | Sheet steel | Sheet steel | Sheet steel | Sheet steel | Sheet steel |

| | 1-field | 2-fields | 3-fields | 4-fields | 5-fields |
|--------------|----------------------|----------------------|----------------------|------------------------|------------------------|
| Type | VS1-9 | VS2-9 | VS3-9 | VS4-9 | VS5-9 |
| Item no. | 7110255 | 7110256 | 7110257 | 7110258 | 7110259 |
| SU / CB / PL | 1 / 1 / 8 | | 1 / 1 / 6 | 1 / 1 / 5 | 1 / 1 / 3 |
| Modules | 108 | | 216 | 324 | 540 |
| H x W x D | 1,400 x 300 x 210 mm | 1,400 x 550 x 210 mm | 1,400 x 800 x 210 mm | 1,400 x 1,050 x 210 mm | 1,400 x 1,300 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 MVPA1 (1x 3-way socket outlet, 1x device clamp set, 10x cable clamp, 1x patch panel, 6x keystone module)
- Recommended purchase: Swivel handle with half cylinder profile

| | 2-fields | | 3-fields | | 4-fields | |
|--------|----------------------|--------------------|--------------------|--------------------|----------|--|
| | Type | FV2-3-M1 | FV3-3-M1 | FV3-3-M2 | | |
| 3-rows | Type | FV2-3-M1 | FV3-3-M1 | FV3-3-M2 | | |
| | Item No. | 7110170 | 7110171 | 7110172 | | |
| | VE / UK / 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 | | |

| | 2-fields | | 3-fields | | 4-fields | |
|--------|----------------------|--------------------|--------------------|--------------------|----------|--|
| | Type | 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 | | |
| | VE / UK / 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 | | |

| | 2-fields | | 3-fields | | 4-fields | |
|--------|----------------------|--------------------|--------------------|--------------------|----------------------|--|
| | Type | 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 | |
| | VE / UK / 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 | |

| | 2-fields | | 3-fields | | 4-fields | |
|--------|----------------------|--------------------|--------------------|--------------------|----------------------|--|
| | Type | 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 | |
| | VE / UK / 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 | |

optional 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 MVPA1 (1x 3-way socket outlet, 1x device clamp set, 10x cable clamp, 1x patch panel, 6x keystone module)
- Recommended purchase: Swivel handle with half cylinder profile



| | 2-fields | | 3-fields | | 4-fields | |
|--------|----------------------|--------------------|--------------------|--------------------|----------------------|--|
| | Type | VS2-6-M1 | VS3-6-M1 | VS3-6-M2 | VS4-6-M2 | |
| 6-rows | Type | VS2-6-M1 | VS3-6-M1 | VS3-6-M2 | VS4-6-M2 | |
| | Item No. | 7110285 | 7110286 | 7110287 | 7110288 | |
| | VE / UK / 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 | |

| | 2-fields | | 3-fields | | 4-fields | |
|--------|----------------------|----------------------|----------------------|----------------------|------------------------|--|
| | Type | 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. | 7110289 | 7110290 | 7110291 | 7110292 | |
| | VE / UK / 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 1,050 x 210 mm | |

| | 2-fields | | 3-fields | | 4-fields | |
|--------|----------------------|----------------------|----------------------|----------------------|------------------------|--|
| | Type | 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. | 7110293 | 7110294 | 7110295 | 7110296 | |
| | VE / UK / 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 | |

| | 2-fields | | 3-fields | | 4-fields | |
|--------|----------------------|----------------------|----------------------|----------------------|------------------------|--|
| | Type | 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. | 7110297 | 7110298 | 7110299 | 7110300 | |
| | VE / UK / 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 | |

optional accessories from page 130





Plug-in terminal



| Type | ZSSKN17N | ZSSKN17PE | ZSSKN34 | ZSSKPE34 |
|--------------|---|---|---|---|
| Execution | N-N plug-in terminal | PE-N plug-in terminal | N plug-in terminal | PE plug-in terminal |
| Item no. | 7110023 | 7110022 | 7110020 | 7110021 |
| SU / CB / PL | 1 / 20 / 1,440 | 1 / 20 / 1,440 | 1 / 20 / 1,440 | 1 / 20 / 1,440 |
| Connections | screw-in 3x 25mm ² plug-in 14x 4mm ² per side | screw-in 3x 25mm ² plug-in 14x 4mm ² per side | screw-in 6x 25mm ² plug-in 28x 4mm ² | screw-in 6x 25mm ² plug-in 28x 4mm ² |
| Colour | blue | blue/yellow | blue | yellow |
| suitable for | rigid CU conductors | rigid CU conductors | rigid CU conductors | rigid CU conductors |

Door hinge



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



Screw clamp



| Type | ZSN17N | ZSN17PE | ZSN34 | ZSPE34 |
|--------------|--|--|---|---|
| Execution | N-N screw clamp | PE-N screw clamp | N screw clamp | PE screw clamp |
| Item no. | 7110090 | 7110039 | 7110041 | 7110040 |
| SU / CB / PL | 1 / 20 / 1,440 | 1 / 20 / 1,440 | 1 / 20 / 1,440 | 1 / 20 / 1,440 |
| Connections | screw-in 3 x 4-16 mm ² screw-in 14x 1.5 - 10 mm ² per side | screw-in 3 x 4-16 mm ² screw-in 14x 1.5 - 10 mm ² per side | screw-in 6 x 4-16mm ² screw-in 28x 1.5 - 10 mm ² | screw-in 6 x 4-16mm ² screw-in 28x 1.5 - 10 mm ² |
| Colour | blue | blue/yellow | blue | yellow |
| suitable for | rigid and flexible CU conductors | rigid and flexible CU conductors | rigid and flexible CU conductors | rigid and flexible CU conductors |

Door handle



| Type | ZSTGN | ZSTGB | ZSTGSE | ZSTGSES |
|--------------|-------------|----------------------------------|------------------------------|------------------------|
| Execution | 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 / - |



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

Cable clamp

DIN-rail



| Type | HU-Set |
|--------------|---|
| Execution | 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 |
| Execution | 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 |
|--------------|--|--|--|--|
| Execution | Swivel handle with half cylinder profile |
| Item no. | 7110123 | 7110124 | 7110125 | 7110126 |
| SU / CB / PL | 1 / - / - | 1 / - / - | 1 / - / - | 1 / - / - |
| suitable for | Overall height 500mm | Overall height 650mm | Overall height 800mm | Overall height 950mm |

| Type | ZSSBG-2 | ZSSBG-3 | ZSSBG-4 |
|--------------|--|--|--|
| Execution | 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 1,100mm | Overall height 1,250mm | Overall height 1,400mm |

Fuse cover



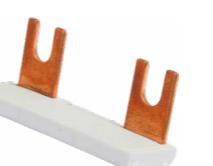
Installation boxes

| Type | SIAD-2 | SIAD-3 |
|--------------|------------|------------|
| Execution | Fuse cover | Fuse cover |
| Item no. | 7110049 | 7110050 |
| SU / CB / PL | 1 / 1 / - | 1 / 1 / - |
| Material | PS | PS |
| suitable for | 2-rows | 3-rows |

Clamp technology



| Type | PDB160 | PDB210 | PDB220 | PDB270 | PDB400 | PDB490 |
|-------------------|--|--|---|---|--|---|
| Execution | 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 ² 1x phase rail fork M6 or 1x 1.5 to 16mm ² (Circular conductor) 3x 1.5 - 10mm ² (Circular conductor) 2x 1.5 to 25mm ² (Circular conductor) | 1x 4 - 35 mm ² (Circular conductor) 1x phase rail fork M6 or 1x 1.5 to 16mm ² (Circular conductor) 3x 1.5 to 16mm ² (Circular conductor) 2x 1.5 to 25mm ² (Circular conductor) | 1x 10 - 70mm ² (Circular conductor) 1x flat conductor 15mm wide 2 - 5mm thick 2x 4 - 35mm ² (Circular conductor) 3x 25 mm ² (Circular conductor) 2x 35 mm ² (Circular conductor) | 1x 16 - 95mm ² (Circular conductor) 1x flat conductor 24 mm wide 3-5mm thick 2x 35 mm ² (Circular conductor) 8x 2.5 to 25mm ² (Circular conductor) 3x 25 mm ² (Circular conductor) | 1x 35-120mm ² (Circular conductor) 1x flat conductor 24 mm wide 3-5mm thick 2x 35 mm ² (Circular conductor) 3x 25 mm ² (Circular conductor) 4x 16 mm ² (Circular conductor) | 1x 95 - 185 mm ² (Circular conductor) 1x flat conductor 24 mm wide 3-5mm thick 2x 35 mm ² (Circular conductor) 3x 25 mm ² (Circular conductor) 4x 16 mm ² (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 |
|--------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Execution | 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 |

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems

f-tronic Experts

Clamp technology



| Type | HLAK1p25gr | HLAK1p25bl | HLAK1p25gnge | HLAK1p25br | HLAK1p25sw |
|-----------------|--|--|--|--|--|
| Execution | 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 |
| Clamping points | 2x ≤ 25 mm ² 2x ≤ 16 mm ² | 2x ≤ 25 mm ² 2x ≤ 16 mm ² | 2x ≤ 25 mm ² 2x ≤ 16 mm ² | 2x ≤ 25 mm ² 2x ≤ 16 mm ² | 2x ≤ 25 mm ² 2x ≤ 16 mm ² |
| Connections | 25 mm ² |
| suitable for | CU conductor |

Clamp technology



| Type | HLAK1p70gr | HLAK1p70bl | HLAK1p70gnge | HLAK1p70br | HLAK1p70sw |
|-----------------|--|--|--|--|--|
| Execution | 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 |
| Clamping points | 2x ≤ 70 mm ² 2x ≤ 50 mm ² | 2x ≤ 70 mm ² 2x ≤ 50 mm ² | 2x ≤ 70 mm ² 2x ≤ 50 mm ² | 2x ≤ 70 mm ² 2x ≤ 50 mm ² | 2x ≤ 70 mm ² 2x ≤ 50 mm ² |
| Connections | 70 mm ² | 2x ≤ 50 mm ² | 70 mm ² | 70 mm ² | 70 mm ² |
| suitable for | CU conductor |



| Type | HLAK3p25gr | HLAK4p25gr | HLAK4p25grgn | HLAK4p25grbl | HLAK5p25gr | HLAK5p25grblgn |
|-----------------|--|--|--|--|--|--|
| Execution | 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 |
| Clamping points | 6x ≤ 25 mm ² 6x ≤ 16 mm ² | 8x ≤ 25 mm ² 8x ≤ 16 mm ² | 8x ≤ 25 mm ² 8x ≤ 16 mm ² | 8x ≤ 25 mm ² 8x ≤ 16 mm ² | 10x ≤ 25 mm ² 10x ≤ 16 mm ² | 10x ≤ 25 mm ² 10x ≤ 16 mm ² |
| Connections | 25 mm ² | 25 mm ² |
| suitable for | CU conductor | CU conductor |

| Type | UVB100gr | UVB100bl | UVB100gnge |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Execution | 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 terminal points | 2x 2.5 to 25mm ² | 2x 2.5 to 25mm ² | 2x 2.5 to 25mm ² |
| Distributor terminal points | 6x 1.5 to 10mm ² | 6x 1.5 to 10mm ² | 6x 1.5 to 10mm ² |
| suitable for | CU conductor | CU conductor | CU conductor |

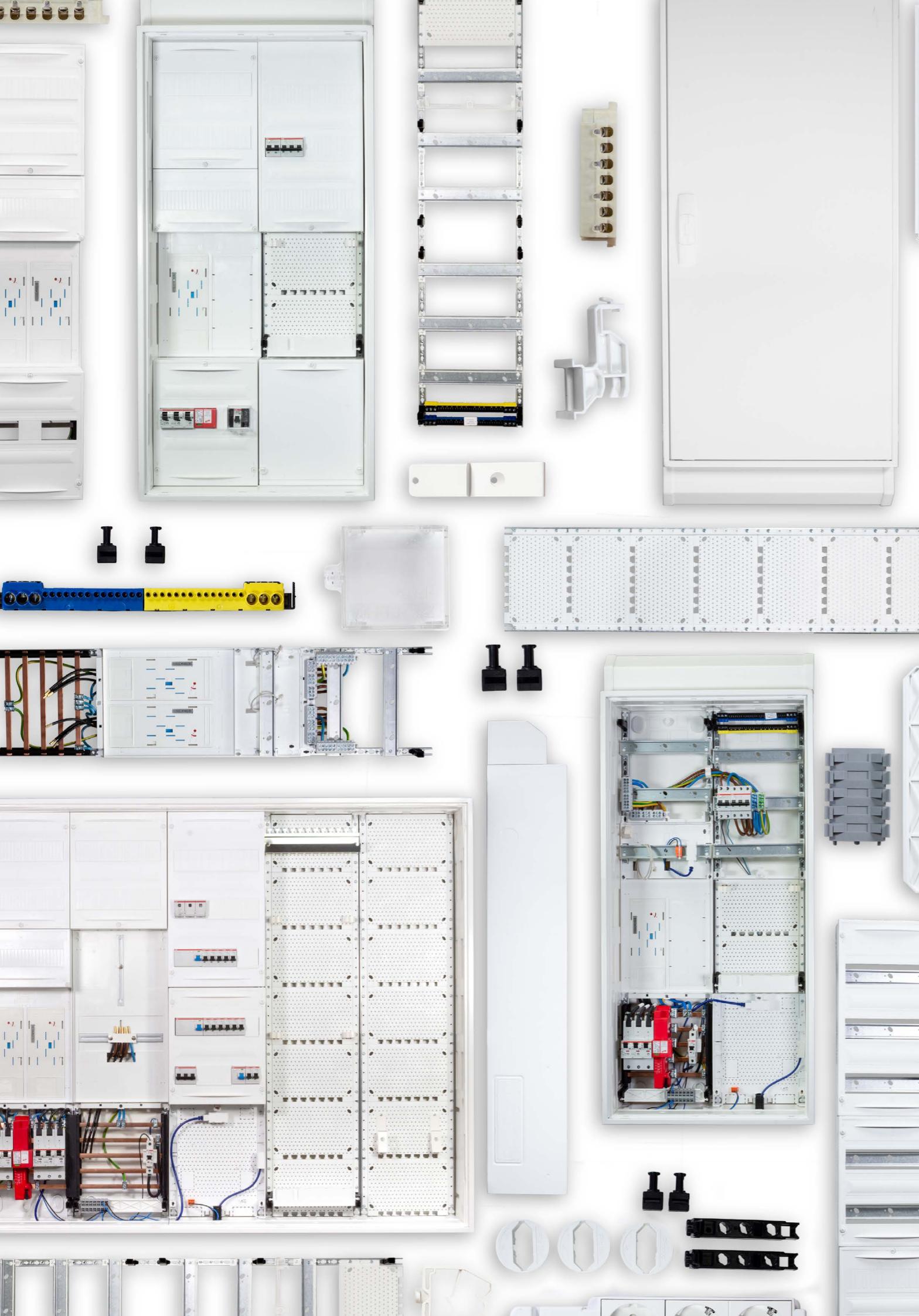


| Type | HLAK1p35gr | HLAK1p35bl | HLAK1p35gnge | HLAK1p35br | HLAK1p35sw |
|-----------------|--|--|--|--|--|
| Execution | Main branch terminal |
| Item No. | 7110195 | 7110196 | 7110197 | 7110198 | 7110199 |
| SU / CB / PL | 5 / 60 / 2,880 | 5 / 60 / 2,880 | 5 / 60 / 2,880 | 5 / 60 / 2,880 | 3 / 36 / 1,728 |
| Colour | grey | blue | green/yellow | brown | black |
| Number of pins | 1 | 1 | 1 | 1 | 1 |
| Clamping points | 2x ≤ 35 mm ² 2x ≤ 25 mm ² | 2x ≤ 35 mm ² 2x ≤ 25 mm ² | 2x ≤ 35 mm ² 2x ≤ 25 mm ² | 2x ≤ 35 mm ² 2x ≤ 25 mm ² | 2x ≤ 35 mm ² 2x ≤ 25 mm ² |
| Connections | 35 mm ² |
| suitable for | CU conductor |



| Type | HLAK1p35Dgr | HLAK1P35DbI | HLAK1p35Dgnge | HLAK1p35Dbr | HLAK1P35Dsw |
|-----------------|--|--|--|--|--|
| Execution | 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 |
| Clamping points | 4x ≤ 35 mm ² 4x ≤ 25 mm ² | 4x ≤ 35 mm ² 4x ≤ 25 mm ² | 4x ≤ 35 mm ² 4x ≤ 25 mm ² | 4x ≤ 35 mm ² 4x ≤ 25 mm ² | 4x ≤ 35 mm ² 4x ≤ 25 mm ² |
| Connections | 35 mm ² |
| suitable for | CU conductor |





Meter cabinet systems

The intelligence centre in the house

With the f-tronic® meter cabinet systems, we are completely oriented towards the needs of the customers - the building owners and the installers. With our assemblies and complete cabinets, we offer the customer standardised solutions for easy use. "For the practitioner from the practitioner" - precisely with this in mind, we have made the meter cabinets much simpler for the practitioner on site. Of course in the well-known f-tronic® quality "Made in Germany".

Numerous highlights ensure quick and convenient installation - such as click screws for quick installation of hoods or the bayonet locking system holding the dome for easy re-siting of the plug-in/screw clamps. And the screwless mounting system for the installation panels also simplifies installation. With the cable entry flange, the cables in the meter cabinets are not only optimally sealed, but are also always easy to assign thanks to the labelled entries. The new head and foot sections offer greater stability and make it easier to align the cabinet thanks to the integrated wall compensation screw. In addition, the integrated through-wiring channel has been improved to facilitate wiring within the cabinet. With its newly designed mounting plate and new cover, the completely renewed APZ space offers the best prerequisite for standard-compliant design of the interface between the house transfer point for communication technology (HÜP) and the meter position. The revised door hinge offers a secure hold thanks to the rotary latch and the adjustment screw simplifies the alignment of the door. This sets new standards in the production of our meter cabinet systems.

The abundance of high-quality highlights represents the step towards a new generation of meter cabinets.

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- Meter connection columns 145

Installation boxes

Fire protection systems

Fastening systems

Distribution boards

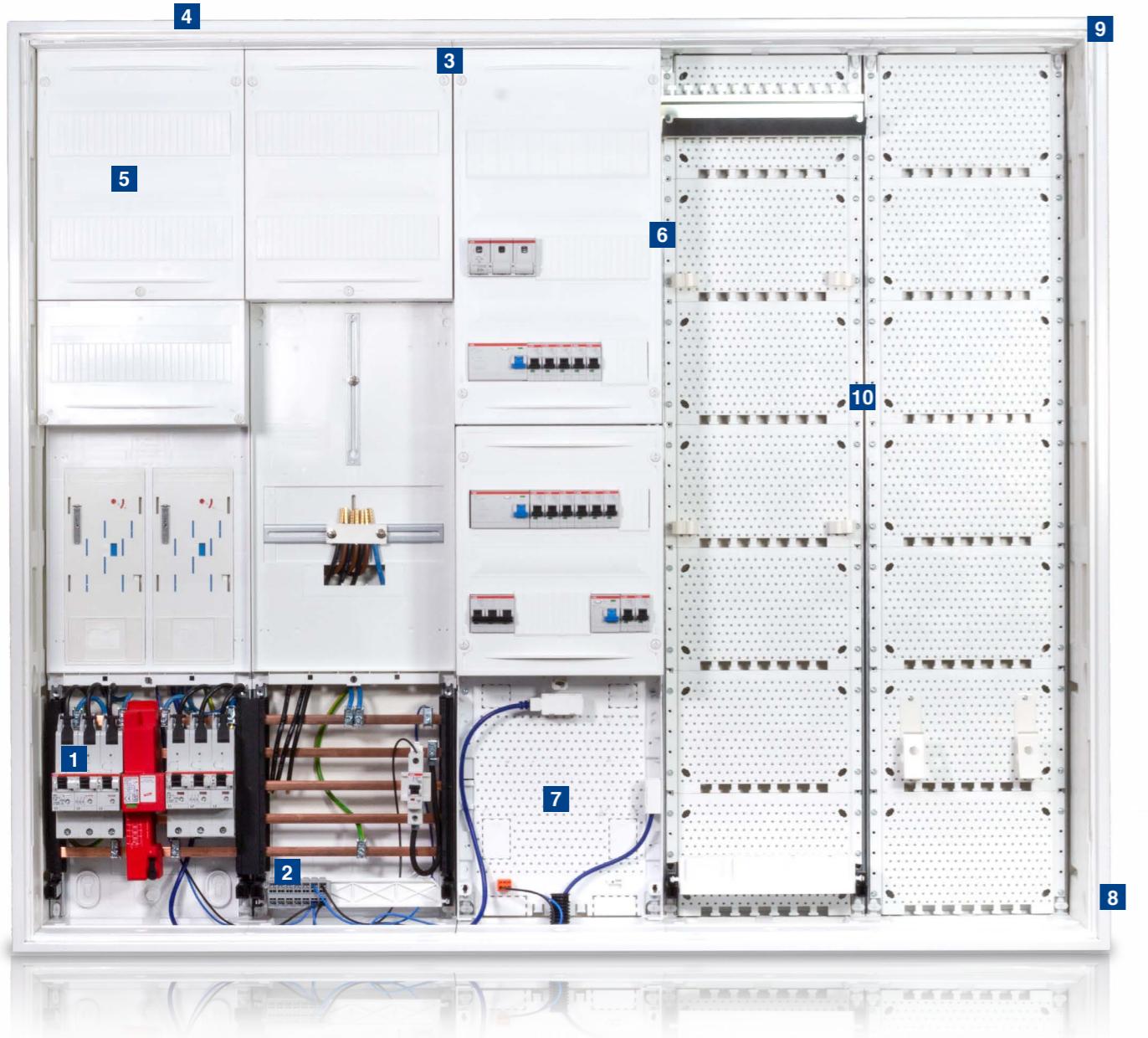
Meter cabinet systems

f-tronic Experts

Meter cabinet highlights

The meter cabinet

Highlights



Meter cabinet systems

Meter cabinet highlights

1 Space in the connection room on the mains side (NAR)

The NAR has full 12 modules. Accordingly, there is enough space for 2 SLS switches and a surge protector.



3 Integrated through a wiring channel

There are through-wiring ducts at the top and bottom between the individual panels. The channels enormously facilitate wiring within the cabinet.



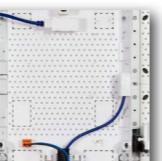
5 Wall compensation and higher strength

A wall compensating screw makes it easier to align the meter cabinet. The new head and foot section offers four adjustable installation depths of the interior and additionally higher strength.



7 APZ space

Prepared according to standards. The new APZ place offers mounting places for the APL box and the patch connector, a holding point for an empty pipe M25 (to the house transfer point (HÜP)) and a parking position for the plug of the power supply.



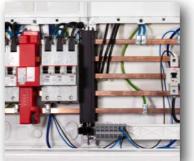
9 More stability

Sheet steel housing, fully fabricated, and the reinforced door offer enormous stability.



2 Additional space for the DIN rail

In the NAR, there is additional space for a rail (for example, to install the control line cross-wiring).



4 Entrance flange

2 components of the entrance flange are located at the top and bottom of the housing with push-out membranes with pre-formed entries for different cable cross-sections.



6 DIN rail

The standard 3-stage removable protective rail offers maximum flexibility for your installations.



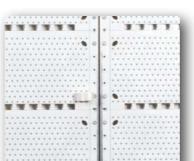
8 Door hinge

Combination of rotary latch for a secure hold and adjustment screw for easy adjustment of the door stop.



10 Communications field

With a plastic plate for flexible installation of communication devices, optionally equipped with e.g. outlet, patch panel for 12 modules, multimedia console, 19 inch holders and device clamp.



Meter cabinet 2.0

Flexible and independent

Assemblies for self-assembly

- Meter, distribution and communication fields in the storage system
- Can be stocked by wholesalers, flexible use for installers
- High-quality processed empty housing made of robust sheet steel
- Installation heights 1100 mm and 1400 mm
- Up to 5-field with protection class IP31/43 or IP54
- Meter fields eHZ and 3.HZ
- Distribution, communication, combination, tariff and reserve fields
- Panels can be easily fixed in the housing with a 1/4 turn quick-release fastener



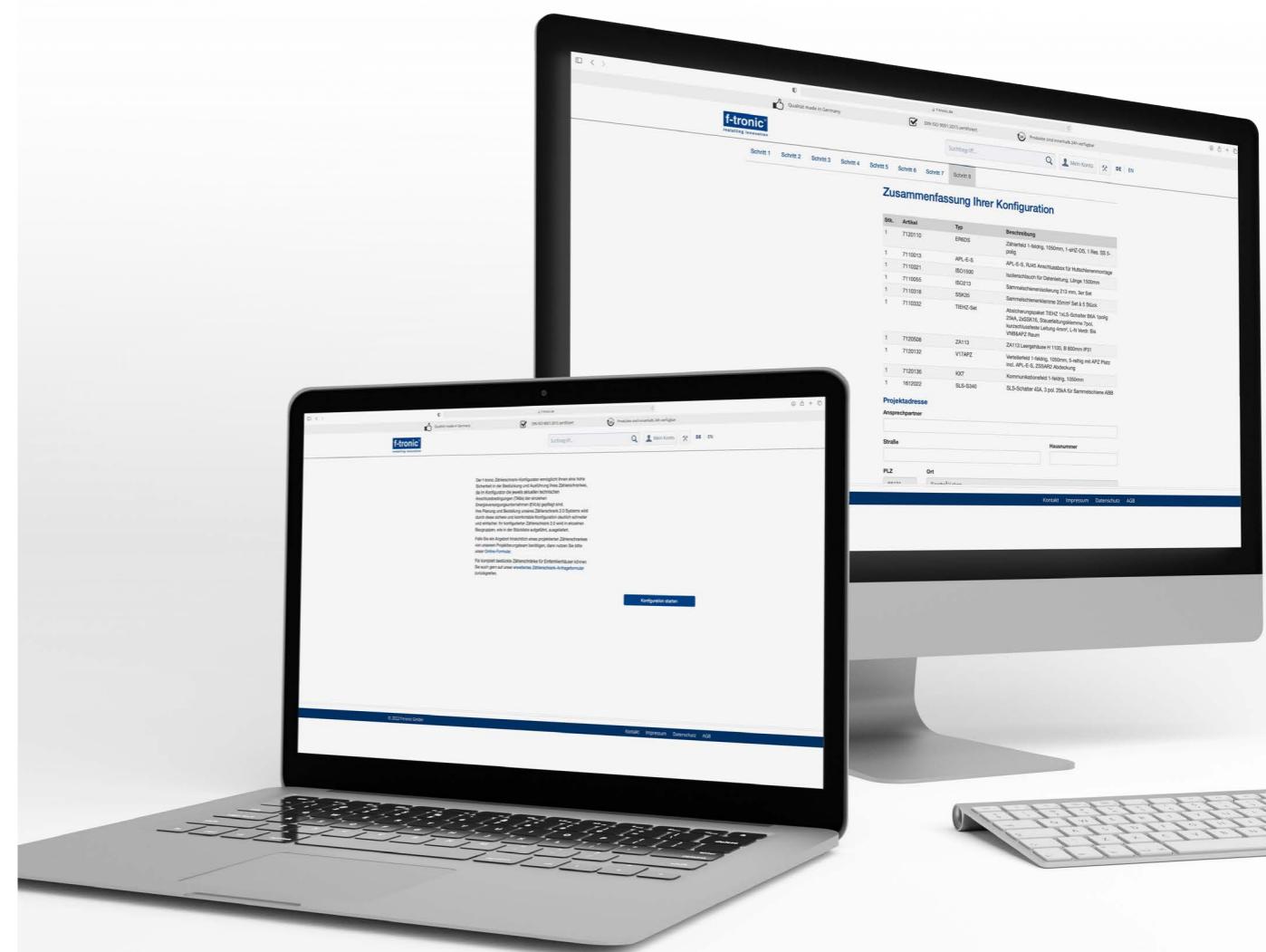
Meter cabinet systems // Meter cabinet 2.0

Meter cabinet configurator

Fast and secure

Your planning aid

- Online configurator for simple, uncomplicated meter cabinet configuration
- Optimal for use with our meter cabinet 2.0 system
- Simple and uncomplicated procedure
- Location and time-independent through online availability
- Simple assembly of required modules by the installer or wholesaler
- Direct extraction of a list of the desired components for quick quotation generation
- High level of safety for the installer by maintaining the current technical connection conditions (TAB) of the individual energy supply companies (EVU) in Germany
- No more need to deal with the TCRs of the individual DNOs
- Configurator automatically selects the right equipment
- Planning and ordering significantly accelerated by secure and convenient software solution



Complete meter cabinets

For standard applications

Prefabricated complete cabinets

- 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



Meter cabinet systems // Complete meter cabinets

Complete transformer cabinets

Transformer cabinets

For more power

- 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



Meter cabinet systems // Complete transformer cabinets



Meter connection columns

JUPITER

Strong in safety and technology

1 Complete housing

Stable housing in one piece

2 No tools

Simple click system enables tool-free disassembly of the door and the adjusting plates

3 Protection

The side trap guard for example, repels crawling animals

4 Stability

The door handle system is persuasive, thanks to its high stability

5 Safety

No fibre chipping during assembly

6 Time savings

Flange for cable entry helps you achieve a faster installation, due to the puncture membrane

7 Mounting of back wall

All components are mounted on a mounting plate

8 Product protection

The modern, profiled surface of the housing prevents unwanted signage

9 Space allowance

The door opening angle of up to 180° makes your installation easier

10 Easy to install

Easily accessible screws for securing the cover



Meter connection columns

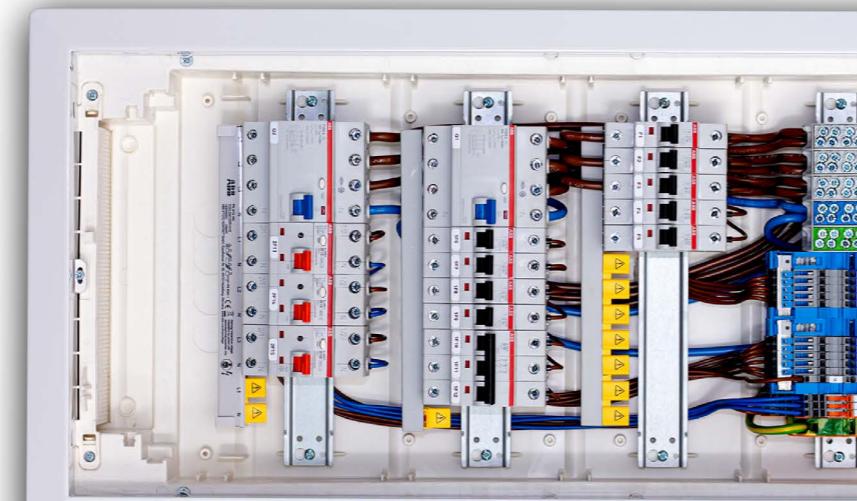
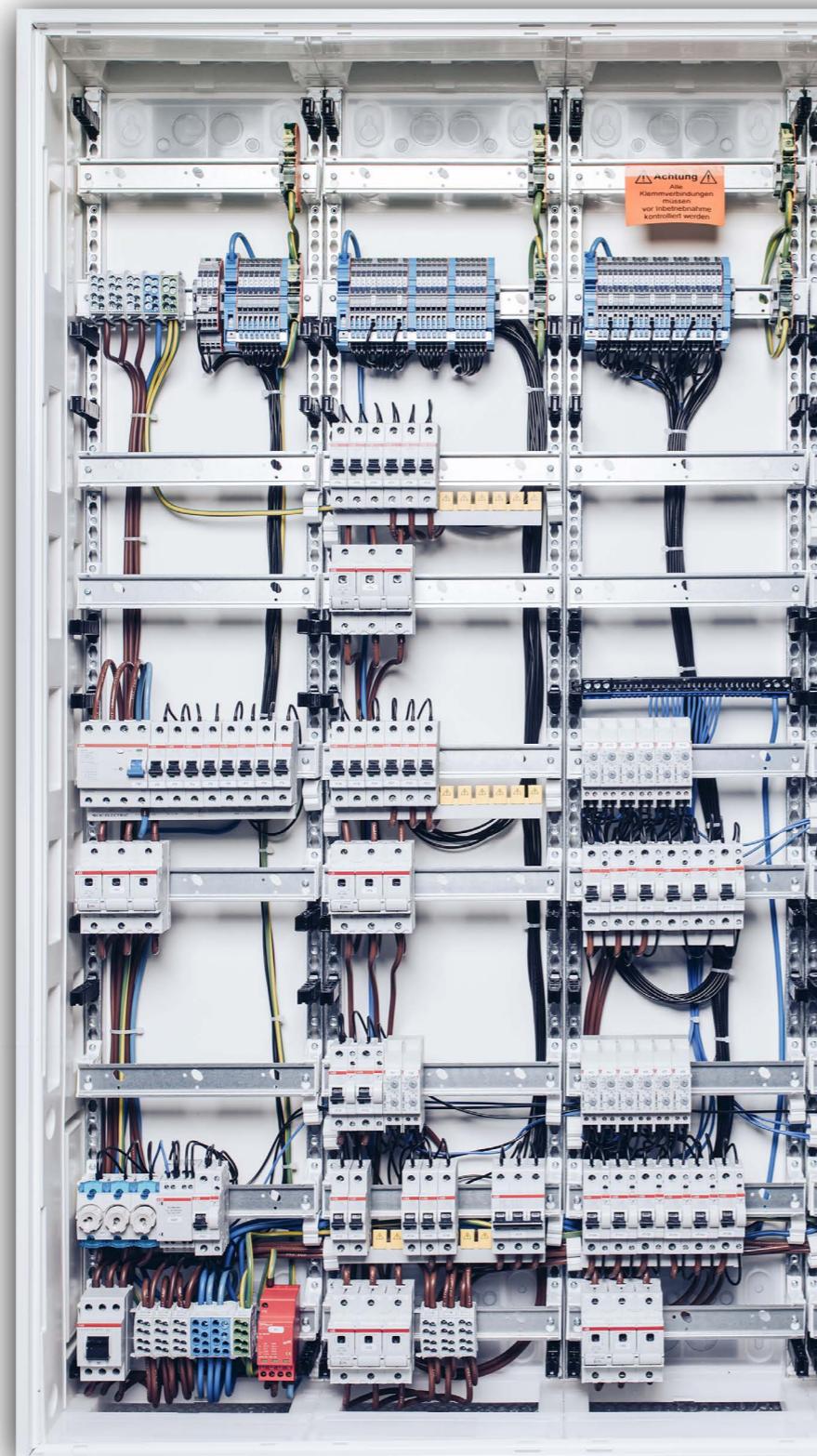
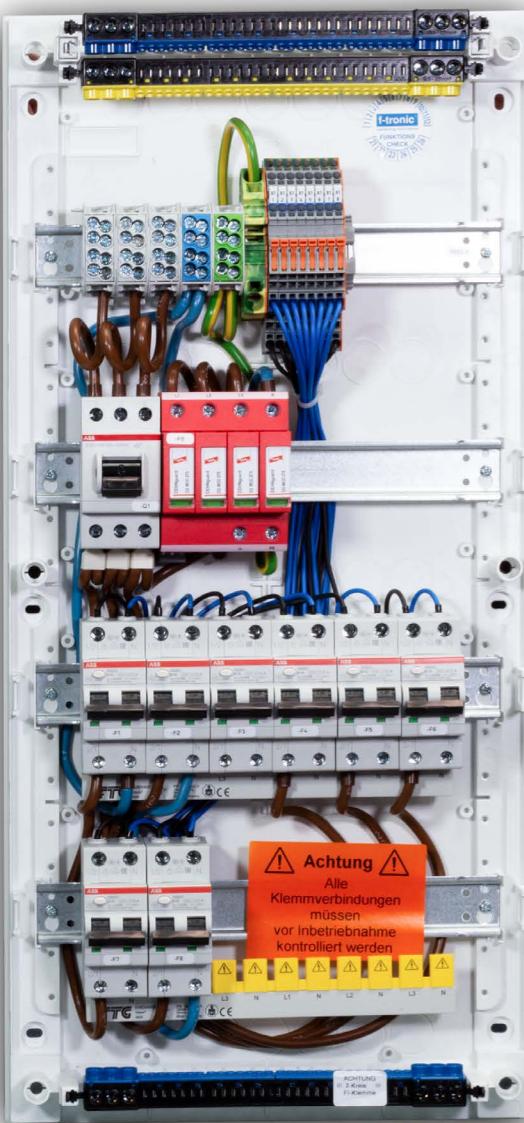
Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems

f-tronic Experts



f-tronic Experts

The all-round carefree package

Do you have so many orders, that you can not accept them all? No problem! Save your valuable time and let f-tronic® work for you.

With **f-tronic Experts**, we offer building owners and installers an all-round carefree package when it comes to meter cabinet systems and distribution boards. On a project-related basis, our team of experts facilitates the customer's work from planning to expansion and pre-wiring of the systems. Especially in the current times of shortage of skilled workers and resources, supportive and time-saving solutions are indispensable. Let our project planning team put together your meter cabinet and have it delivered, pre-assembled and documented in accordance with your requirements or project.

We will plan the right cabinet for your project. To do this, simply contact our project team and provide all the required information (installation site for the system, number of meter locations, size of the terminal compartment, etc.). We are also happy to plan the systems with complete wiring and documentation. The cabinets are completely wired and labelled by f-tronic® - and then delivered directly to your project. You mount the system as a complete system and you can take it into operation immediately. We offer our smallest products - the small installation distributors - not only project-related and expanded, but also in the 2-step delivery form. This simplifies the workflow and reduces the risk of loss and theft for the installer.

No matter how - you can save valuable time in planning, documentation and installation with the services of **f-tronic Experts**.

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- Custom transformer cabinets 149
- Custom field distributors 150
- Custom distribution cabinets 151
- Custom small distributors 152
- Small distributors assembly supply format 153

Custom meter cabinets

Customised for your project

Pre-assembled or ready for connection

- Optimally planned meter cabinets according to your requirements
- Project-specific
- Incl. Documentation (layout sketch)
- Expansion with high-quality brand components
- Saves you time and effort
- Planning according to current TCRs of the energy supply companies (DNOs)
- Available as eHZ or 3.HZ version
- Installed heights from 950 mm to 1400 mm possible
- Sturdy sheet steel housing with modular installation system
- Delivered pre-wired and ready-to-connect



f-tronic Experts // Custom meter cabinets

Custom transformer cabinets

More power

Completely customised

- 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
- Delivered pre-wired and ready-to-connect



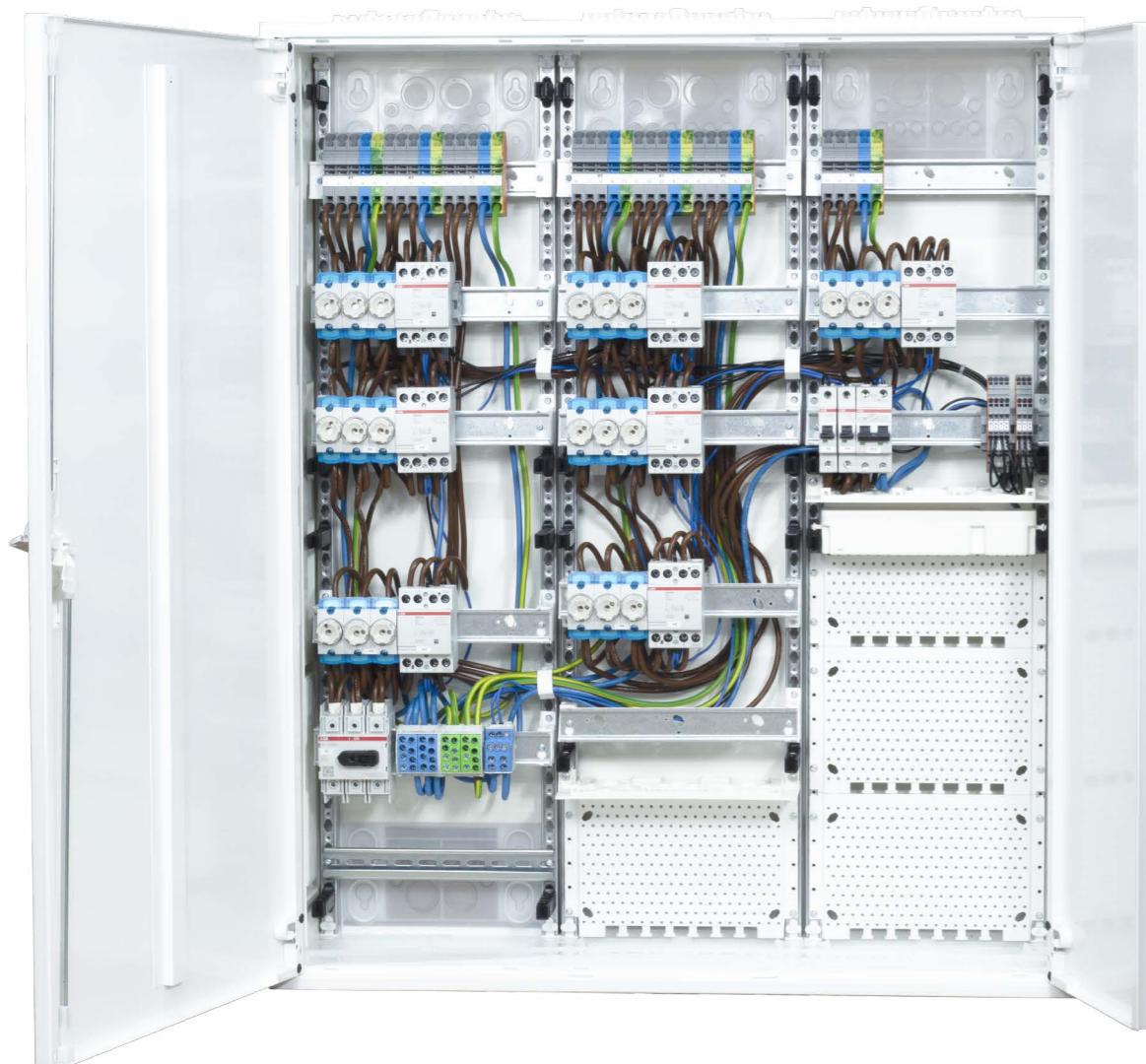
f-tronic Experts // Custom transformer cabinets

Custom field distributors

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-field 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



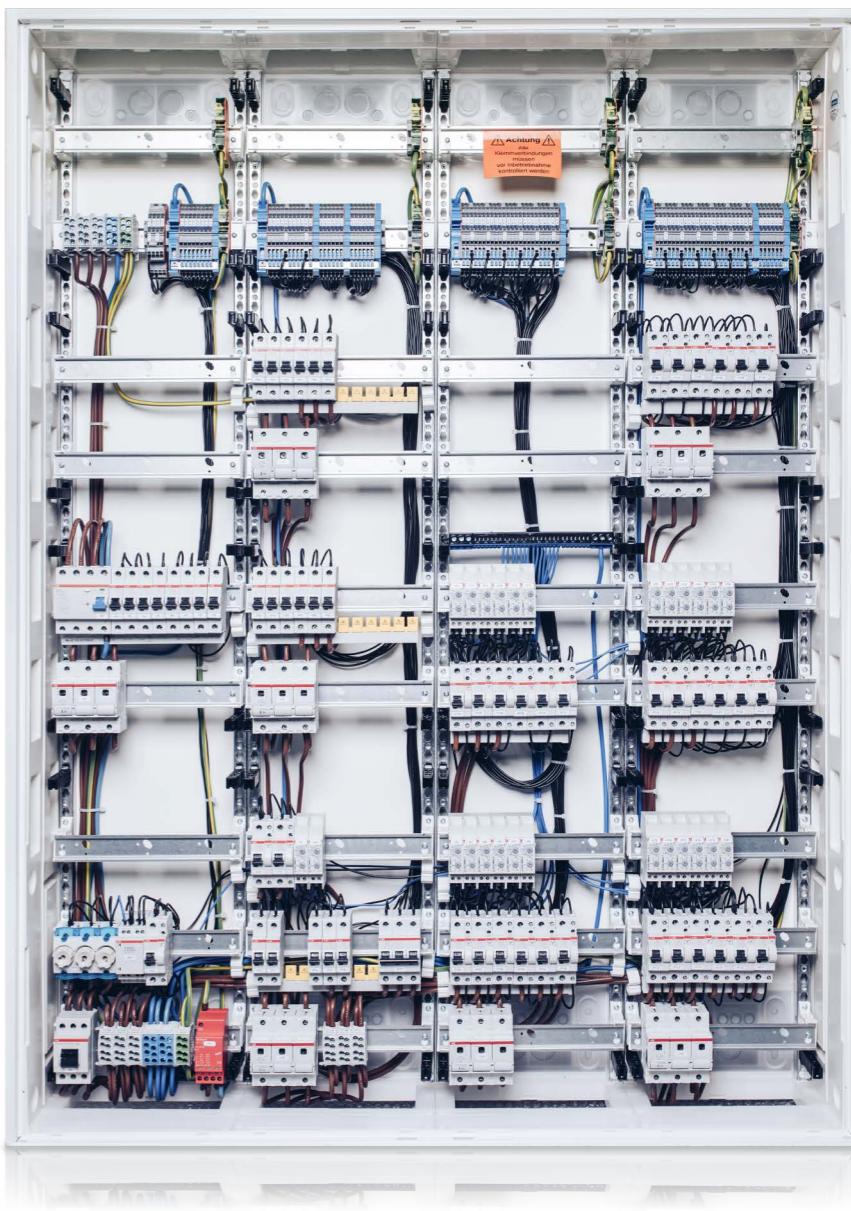
f-tronic Experts // Custom field distributors

Custom distribution cabinets

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-field 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



f-tronic Experts // Custom distribution cabinets

Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems

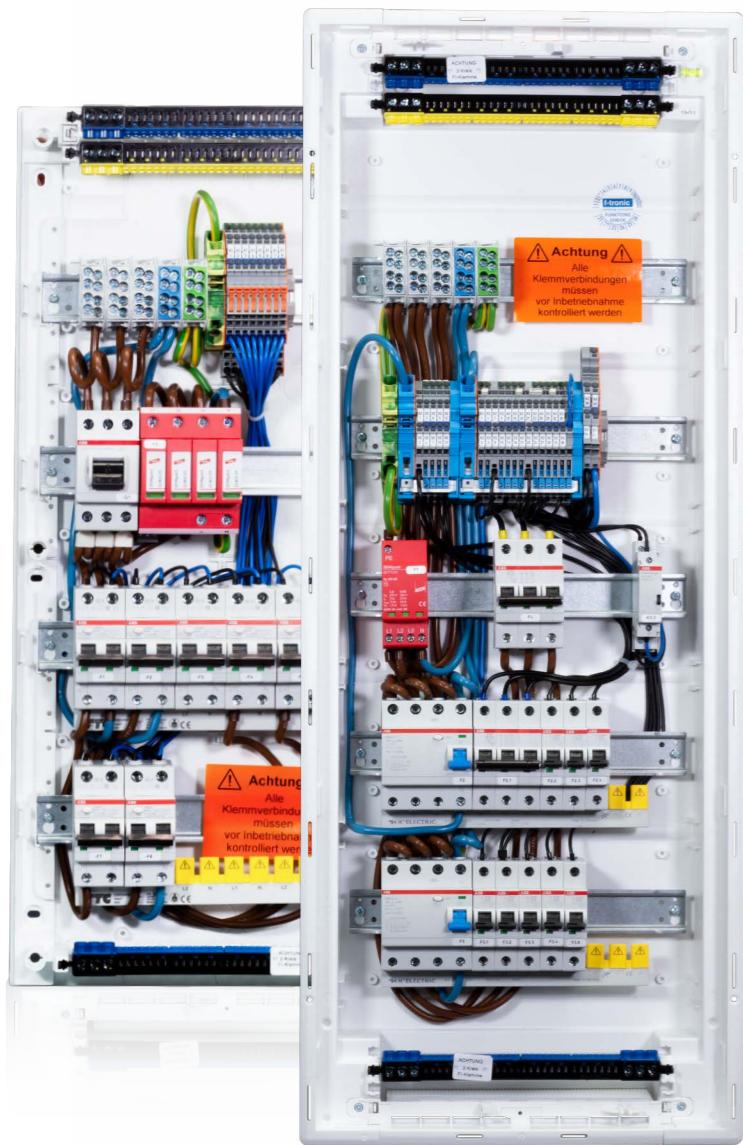
f-tronic Experts

Custom small distributors

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/FM combination, hollow wall, flush-mounted and surface-mounted small distribution boards
- Expansion with high-quality brand components



f-tronic Experts // Custom small distributors

Small distributors assembly supply format

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



f-tronic Experts // Small distributors assembly supply format

Installation boxes

Fire protection systems

Fastening systems

Distribution boards

Meter cabinet systems

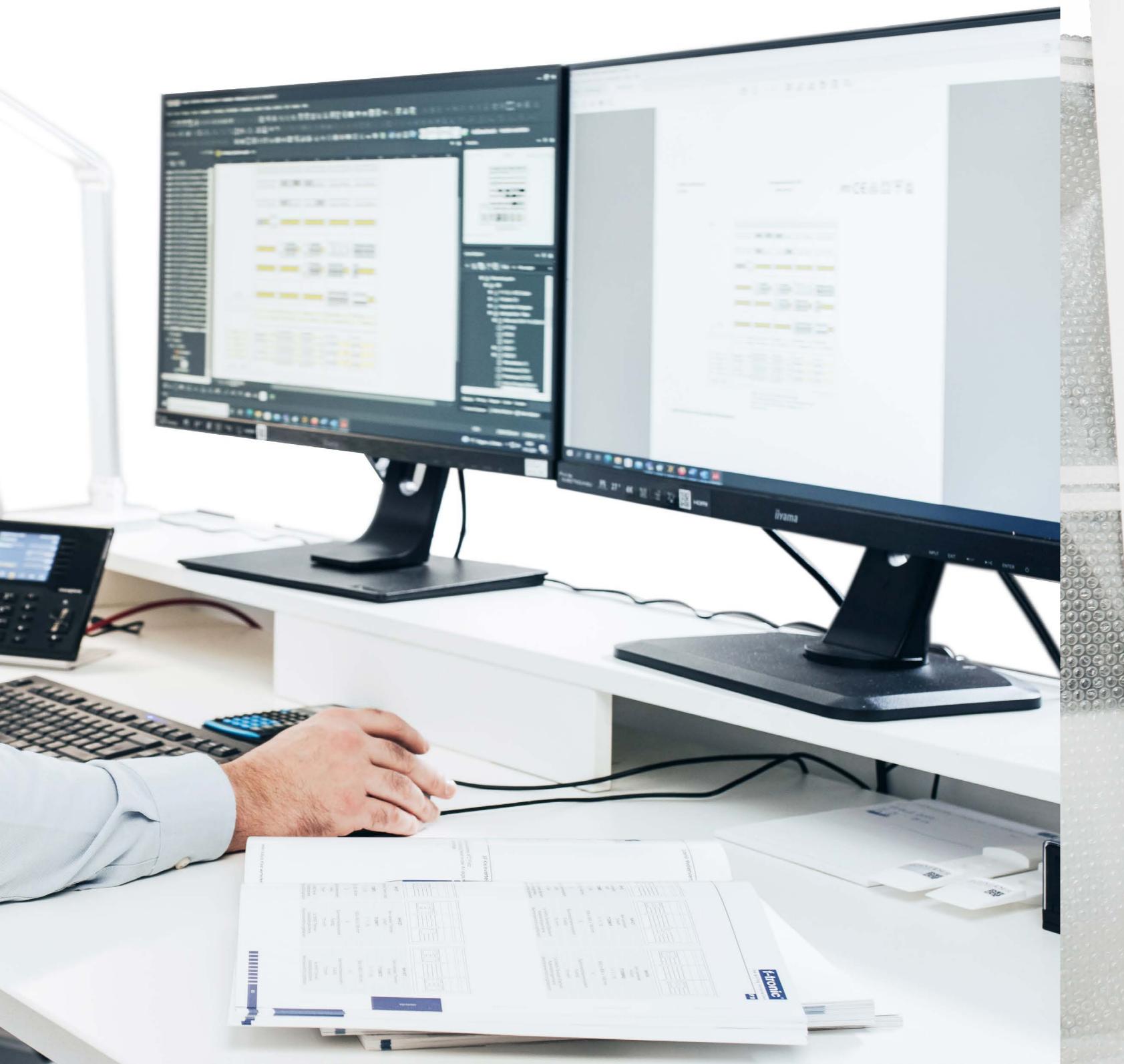
f-tronic Experts

The Experts

Project development by professionals

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

You can find the contact details of our Experts Team on page 167.



Legend**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.

Legend**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.



Register according to item number

**Register
according to
item number**

| Item No. | Type | Page | Item No. | Type | Page | Item No. | Type | Page | Item No. | Type | Page | Item No. | Type | Page |
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