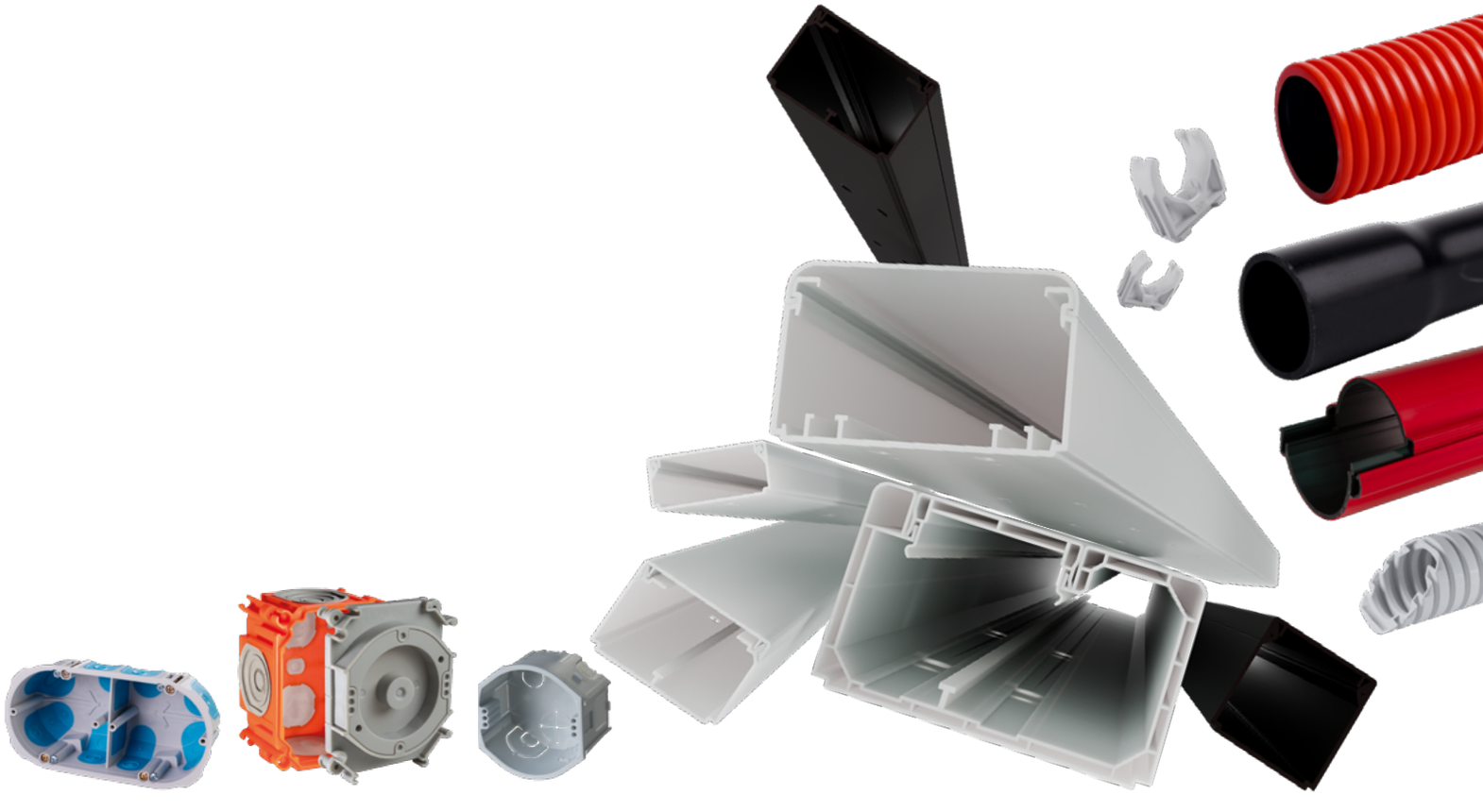
KOPOS

WIRING MATERIALS

# WIRING MATERIALS

ENG - 2026 / 2027

KOPOS



# You stand for our success

New technologies guarantee the improvement and innovation of our products. For you.

## KOPOS KOLÍN a.s.

KOPOS KOLÍN a.s. is one of the leading Czech manufacturers of electrical installation materials, with a tradition spanning more than 100 years. Building on this heritage, the company combines a modern approach, innovation, and a strong emphasis on quality.

Today, KOPOS offers more than 5,000 products covering the comprehensive needs of modern electrical installations. Its portfolio includes solutions for routing, installation, and protection of electrical wiring systems – from installation boxes, trunkings, channels, and conduits to cable support systems, fire-resistant installations, and specialized radiation-shielding components used, for example, in the nuclear energy sector.

KOPOS products are designed with a focus on functionality, safety, and long service life, always reflecting the real needs of customers. Quality is one of the key pillars of the company's philosophy, demonstrated not only by decades of experience but also by the trust of customers in the Czech Republic and abroad.

All products comply with strict European standards and undergo regular testing in accredited laboratories. The company operates an integrated management system and holds ISO 9001, ISO 14001, and ISO 50001 certifications, as well as the Czech Quality label and the Safe Enterprise award.

KOPOS also places strong emphasis on environmental responsibility and sustainability. Halogen-free materials and environmentally friendly lead-free plastic compounds are part of the company standard. A major step in the field of energy management is the company's own photovoltaic power plant, which since the turn of 2023/2024 has covered approximately 10% of its annual electricity consumption.

Thanks to its in-house development, toolmaking facilities, and network of subsidiaries and business partners, KOPOS products are available to customers all over the world.

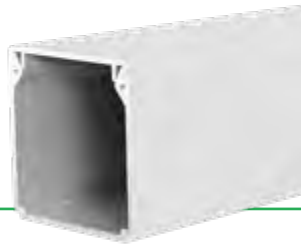


# CATALOG CONTENTS

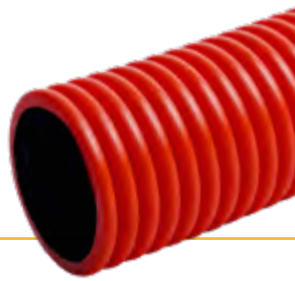

WIRING BOXES
AND ACCESSORIES



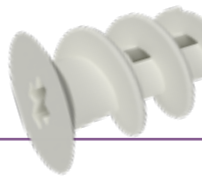
WIRING TRUNKINGS
AND ACCESSORIES



WIRING PIPES
AND ACCESSORIES



FIXING
MATERIAL

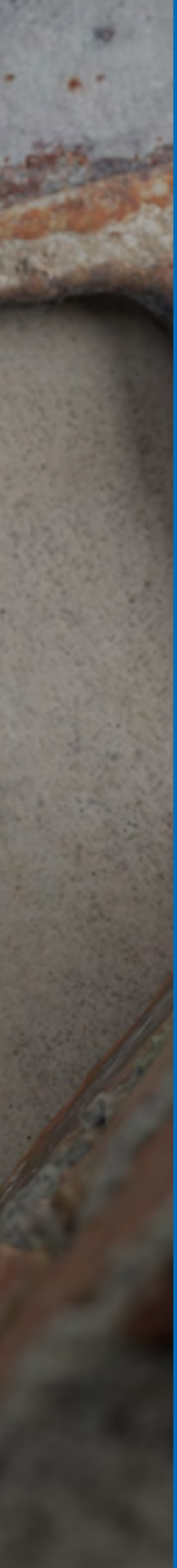


TECHNICAL
INFORMATION



LIST OF
PRODUCTS





# WIRING BOXES AND ACCESSORIES


BOXES UNDER PARGET WITH ACCESSORIES ..... 5

BOXES INTO THERMAL INSULATION WITH ACCESSORIES ..... 29

BOXES FOR HOLLOW WALLS WITH ACCESSORIES ..... 43

BOXES WITH IP PROTECTION WITH ACCESSORIES ..... 63

OTHER ACCESSORIES FOR BOXES ..... 81

MULTI-PURPOSE BOXES ..... 89

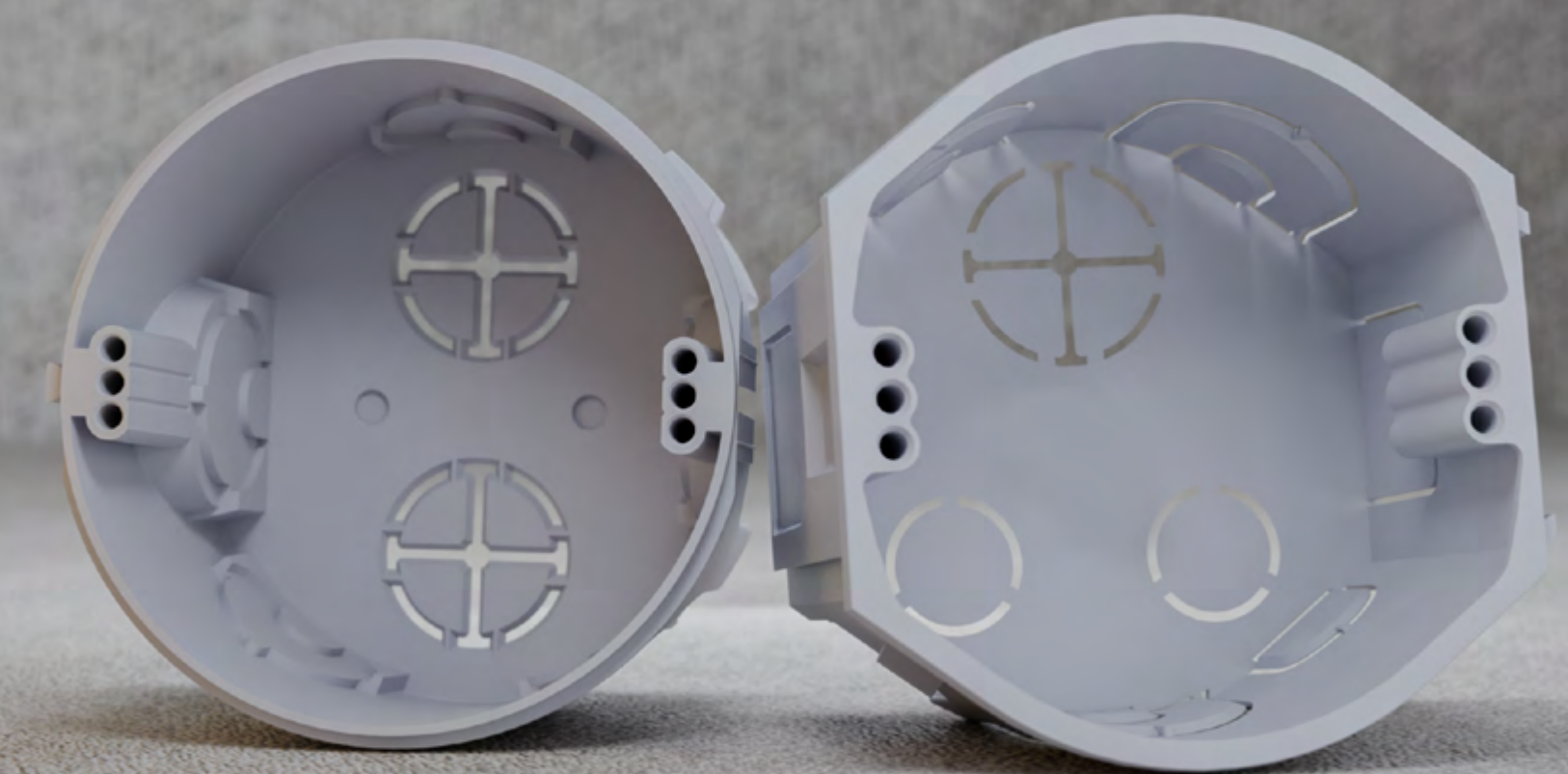
FLOOR BOXES WITH ACCESSORIES ..... 93

SYSTEM FOR CONCRETE INSTALLATION WITH ACCESSORIES ..... 113

WIRING BOXES

# UNDER PARGET

## CHOOSE YOUR WAY



KP 68

KP 68-45

www.kopos.com

# WIRING BOXES - UNDER PARGET

In accordance with the standards ČSN EN IEC 60670-1, 2nd edition, and ČSN EN 60670-1—Boxes and complete enclosures for electrical accessories for house and similar fixed electrical installations.

Material: Rigid, self-extinguishing polyvinyl chloride (PVC) with a temperature range of -5 °C to +60 °C.
Self-extinguishing polycarbonate (PC-ABS) with a temperature range of -5 °C to +60 °C.
The material is flame-retardant and halogen-free. It is used in environments where there is a greater need to protect people and equipment.
These electrical junction boxes differ from standard models only in the material used, which is indicated by the letters "HF" at the end of the model number.

According to the requirements of ČSN EN 60670-1 § 18, the boxes comply with the excessive-heat resistance test as well as the test with flaming loop with temperature 850 °C. In addition to the requirements, a needle burner flame test according to ČSN EN 60695-11-5 was performed with a satisfactory result.

In accordance with ČSN EN 332312, 2nd edition, KOPOS KOLÍN a.s., as the manufacturer, recommends installing double injection boxes on and within building materials classified as fire reaction classes A1–F, as defined in ČSN EN 13501-1.

In accordance with ČSN EN 332312, 2nd edition, KOPOS KOLÍN a.s., as the manufacturer, recommends installing single-injection boxes on and within building materials classified as fire reaction classes A1–D, as defined in ČSN EN 13501-1.

The boxes are designed for distribution system with voltage up to 400 V and maximum current 16 A.

The boxes fitted with the appropriate cover or device with IP30 or higher protection meet IP30 protection (KP 68/D, KPR 68/D).

CE **All boxes, accessories and terminal plates are in compliance with EU directions.**

All under parget boxes
are also available on our website.

## ICONS - LEGEND

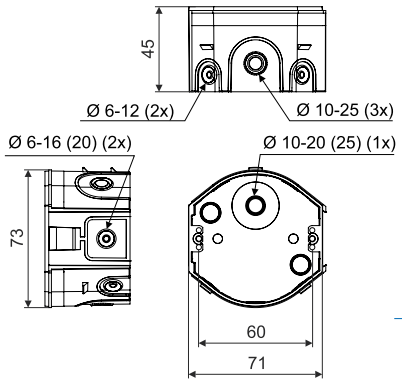
| | | | |
|---|---|---|---|
| MAT | material | | product for sound insulation walls |
| | temperature resistance, scope of application (°C) | | length (mm) |
| | flaming loop test (°C) | IK | mechanical protection |
| | fire reaction class of underlying material | | dimensions - width, height, depth (mm) |
| | self-extinguishing | | number of conductors x diameter (mm2), load-current capacity (A) |
| | spacing when joining two boxes (mm) | | milled (drilled) hole diameter (mm) |
| | allows to install double-socket | | package (pcs) |
| IP | level of protection - IP classification | | tools for installation |
| HF | halogen-free material | | allows installing wall socket 400 V / 16 A (32 A) |

## KP 68/D - device box



| MAT | | | | | | | IP |
|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 71 | | IP30 |

- compatible with the KPR 68/D box
- more space for electrical wiring
- after removing the pre-marked part of the membrane entry and inserting the cable or conduit, the penetration remains airtight
- suitable for low-energy or passive houses
- IP30 protection rating when fitted with an appropriate cover or device with a protection rating equal to or higher than IP30
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| **KP 68/D_KA** | boxes loosely inserted into the carton, device screws included | 100 | 8595568932327 |

ACCESSORIES



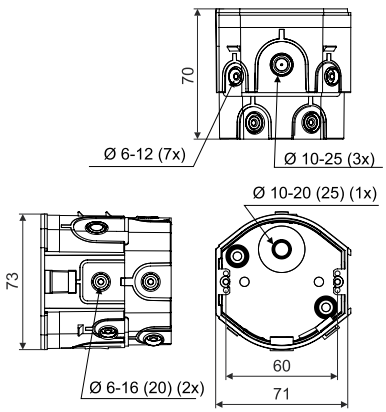
**V 68** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **FR 68 SDS ø 80 mm** pg. 87

## KPR 68/D - device box



| MAT | | | | | | | IP |
|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 71 | | IP30 |

- easy installation of devices with great depth
- compatible with the KP 68/D box
- more space for electrical wiring
- after removing the pre-marked part of the membrane entry and inserting the cable or conduit, the penetration remains airtight
- suitable for low-energy or passive houses
- IP30 protection rating when fitted with an appropriate cover or device with a protection rating equal to or higher than IP30
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| **KPR 68/D_KA** | boxes loosely inserted into the carton, device screws included | 66 | 8595568932334 |

ACCESSORIES



**V 68** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **FR 68 SDS ø 80 mm** pg. 87

material | temperature resistance | self-extinguishing | for mounting a double-socket | IP protection
fire reaction class of underlying material | flaming loop test | spacing | package | tools for installation

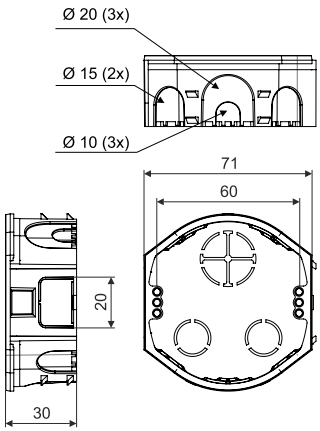
## KP 68-30 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- compatible with the KU 68-45, KPR 68-70 and KP 68-45 boxes
- more space for electrical wiring
- suitable for installation in thin outer corner as well
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KP 68-30_KA** | boxes loosely inserted into the carton, device screws included | 150 | 8595568938497 |




ACCESSORIES



**V 68** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **FR 68 SDS ø 80 mm** pg. 87

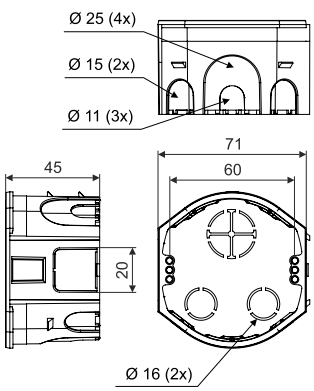
## KP 68-45 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- compatible with the KP 68-30, KU 68-45, KPR 68-70 boxes
- more space for electrical wiring
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KP 68-45_KA** | boxes loosely inserted into the carton, device screws included | 100 | 8595568939678 |




ACCESSORIES



**V 68** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **FR 68 SDS ø 80 mm** pg. 87

material | temperature resistance | self-extinguishing | for mounting a double-socket | tools for installation
fire reaction class of underlying material | flaming loop test | spacing | package

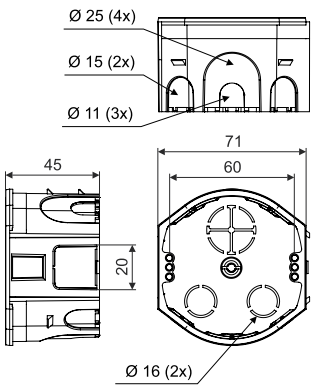
## KU 68-45 - universal box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- compatible with the KPR 68-70, KP 68-30 and KP 68-45 boxes
- more space for electrical wiring
- European Industrial design protection and European Utility models protection
- direct replacement for the box KU 68-1901

| item | desc. | | EAN |
|---|---|---|---|
| **KU 68-45_KA** | boxes loosely inserted into the carton, device screws included | 100 | 8595568936233 |




ACCESSORIES



**V 68** pg. 25 | **KO 68** pg. 24 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **TN 68** pg. 25 | **FR 68 SDS ø 80 mm** pg. 87

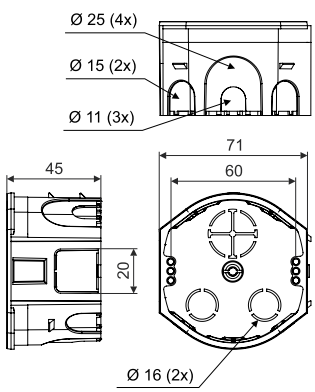
## KU 68-45/HF - halogen-free universal box



MAT | PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71 | HF

- compatible with the KPR 68-70/HF box
- more space for electrical wiring
- for premises with increased need for protection of persons and property
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KU 68-45/HF_HA** | packed in shrink foil, screws included | 8; 96 | 8595568936417 |




ACCESSORIES



**V 68HF** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **FR 68 SDS ø 80 mm** pg. 87

material | temperature resistance | self-extinguishing | for mounting a double-socket | halogen-free material
fire reaction class of underlying material | flaming loop test | spacing | package | tools for installation

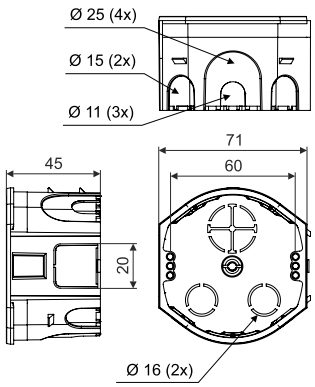
## KU 68-45/V - junction box with a cover



| MAT | | | | |
|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. |

- for electrical wiring routes branching
- easy-to-install cover, even without tools
- European Industrial design protection and European Utility models protection
- direct replacement for the box KU 68-1902

| item | desc. | | EAN |
|---|---|---|---|
| **KU 68-45/V_KA** | boxes and a covers loosely packed in a carton | 80 | 8595568936257 |




ACCESSORIES



**ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **TN 68** pg. 25 | **FR 68 SDS ø 80 mm** pg. 87

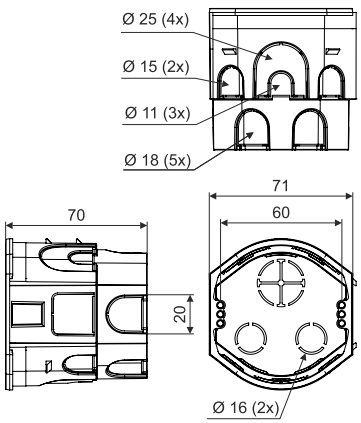
## KPR 68-70 - device box



| MAT | | | | | | |
|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71 | |

- compatible with the KU 68-45, KP 68-30 and KP 68-45 boxes
- more space for electrical wiring
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KPR 68-70_KA** | boxes loosely inserted into the carton, device screws included | 66 | 8595568936240 |




ACCESSORIES



**V 68** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **FR 68 SDS ø 80 mm** pg. 87

material | temperature resistance | self-extinguishing | for mounting a double-socket | tools for installation
fire reaction class of underlying material | flaming loop test | spacing | package

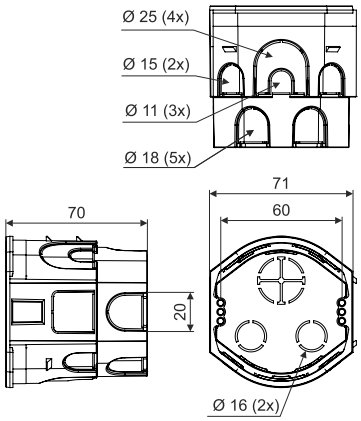
## KPR 68-70/HF - halogen-free device box



MAT | PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71 | HF

- for premises with increased need for protection of persons and property
- compatible with the KU 68-45/HF box
- more space for electrical wiring
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KPR 68-70/HF_HA** | boxes loosely inserted into the carton, device screws included | 8; 48 | 8595568936424 |




ACCESSORIES



| V 68HF | ZV 68 | TYP0... | NR... | FR 68 SDS ø 80 mm |
|---|---|---|---|---|
| pg. 25 | pg. 21 | pg. 84 | pg. 23 | pg. 87 |

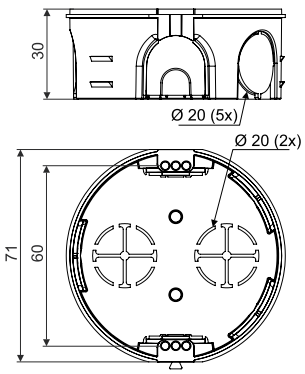
## KP 68/2 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- connection of up to three boxes in and row is recommended
- compatible with the KP 68 and KPR 68 boxes
- suitable for installation in thin outer corners

| item | desc. | | EAN |
|---|---|---|---|
| **KP 68/2_KA** | boxes loosely inserted into the carton, device screws included | 150 | 8595057600089 |




ACCESSORIES



| V 68 | ZV 68 | TYP0... | NR... | FR 68 SDS ø 80 mm |
|---|---|---|---|---|
| pg. 25 | pg. 21 | pg. 84 | pg. 23 | pg. 87 |

material | temperature resistance | self-extinguishing | for mounting a double-socket | halogen-free material
fire reaction class of underlying material | flaming loop test | spacing | package | tools for installation

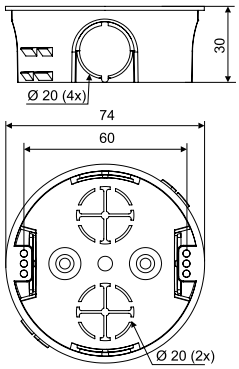
## KP 68/2HF - halogen-free device box



MAT | PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | HF

- for premises with increased need for protection of persons and property
- devices are fixed using pan-head screws Ø 2.9 × 6.5 mm
- the V 68HF cover is fixed using Ø 2.9 × 9.5 mm countersunk screws

| item | desc. | | EAN |
|---|---|---|---|
| **KP 68/2HF_FA** | packed in shrink foil, screws included | 10; 120 | 8595057634923 |




ACCESSORIES



**V 68HF** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **FR 68 SDS ø 80 mm** pg. 87

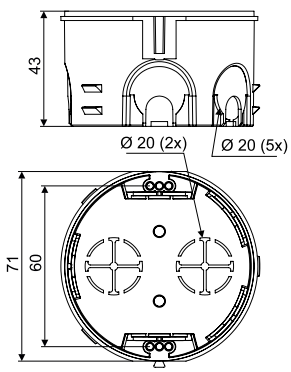
## KP 68 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- connection of up to three boxes in and row is recommended
- compatible with the KP 68/2 and KPR 68 boxes
- universal box for most devices

| item | desc. | | EAN |
|---|---|---|---|
| **KP 68_KA** | boxes loosely inserted into the carton, device screws included | 100 | 8595568910592 |




ACCESSORIES



**V 68** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **FR 68 SDS ø 80 mm** pg. 87

material | temperature resistance | self-extinguishing | for mounting a double-socket | halogen-free material
fire reaction class of underlying material | flaming loop test | spacing | package | tools for installation

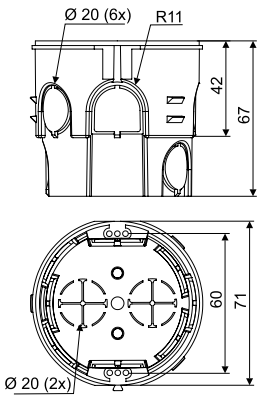
## KPR 68 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- easy installation of devices with great depth
- connection of up to three boxes in and row is recommended
- possibility to easily clamp under the device using screwless terminals
- compatible with the KP 68/2 and KP 68 boxes

| item | desc. | | EAN |
|---|---|---|---|
| **KPR 68_KA** | packed in a pack of 10 pieces in shrink foil, packages placed in a carton | 10; 100 | 8595057648302 |




ACCESSORIES



**V 68** pg. 25 | **ZV 68** pg. 21 | **TYP0...** pg. 84 | **NR...** pg. 23 | **FR 68 SDS ø 80 mm** pg. 87

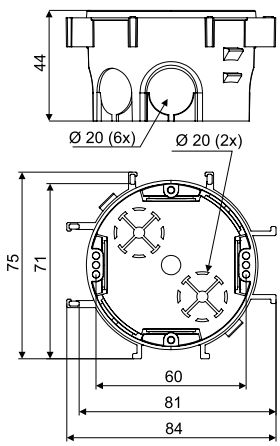
## KP 67/2 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71/81

- for modern installations in combined frames
- vertical and horizontal connection with a spacing of 71 or 81 mm
- possibility of connecting up to 5 boxes side by side
- with the DR18 spacer, the boxes are suitable for devices with greater width

| item | desc. | | EAN |
|---|---|---|---|
| **KP 67/2_KA** | boxes loosely inserted into the carton, device screws included | 90 | 8595057615496 |




ACCESSORIES



**V 68** pg. 25 | **DR18** pg. 22 | **TYP0...** pg. 84 | **NR...** pg. 23

material | temperature resistance | self-extinguishing | for mounting a double-socket | tools for installation
fire reaction class of underlying material | flaming loop test | spacing | package

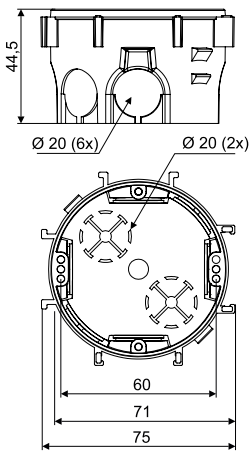
## KP 67/3 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- possibility to connect up to 5 boxes vertically and horizontally
- suitable for 2x double frame
- with the DR18 spacer, the boxes are suitable for devices with greater width

| item | desc. | | EAN |
|---|---|---|---|
| **KP 67/3_KA** | boxes loosely inserted into the carton, device screws included | 100 | 8595057650558 |




ACCESSORIES


V 68 pg. 25


DR18 pg. 22


TYP0... pg. 84


NR... pg. 23

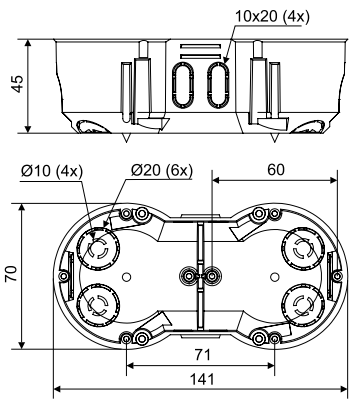
## KP 64/2 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- for modern installations in combined frames
- significant rigidity makes device installation easier

| item | desc. | | EAN |
|---|---|---|---|
| **KP 64/2_KA** | two boxes packed in shrink foil and covered with label, device screws included in the bag, packages placed in a carton | 2; 50 | 8595057632707 |

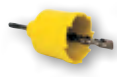



ACCESSORIES


VKP 64/2L pg. 26


TYP0... pg. 84


NR... pg. 23


FR 68 SDS ø 80 mm pg. 87

material | temperature resistance | self-extinguishing | for mounting a double-socket | tools for installation
fire reaction class of underlying material | flaming loop test | spacing | package

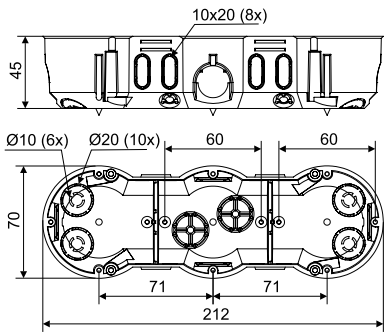
## KP 64/3 - device box



| MAT | | | | |
|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. |

- for modern installations in combined frames
- significant rigidity makes device installation easier

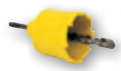
| item | desc. | | EAN |
|---|---|---|---|
| **KP 64/3_KA** | two boxes packed in shrink foil and covered with label, device screws included in the bag, packages placed in a carton | 2; 32 | 8595057632714 |




ACCESSORIES


TYP0...
pg. 84


NR...
pg. 23


FR 68 SDS
ø 80 mm
pg. 87

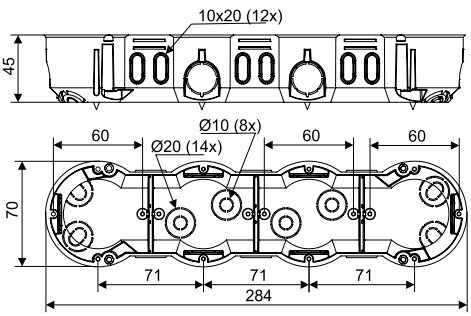
## KP 64/4 - device box



| MAT | | | | |
|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. |

- for modern installations in combined frames
- significant rigidity makes device installation easier

| item | desc. | | EAN |
|---|---|---|---|
| **KP 64/4_KA** | two boxes packed in shrink foil and covered with label, device screws included in the bag, packages placed in a carton | 2; 28 | 8595057632721 |




ACCESSORIES


TYP0...
pg. 84


NR...
pg. 23


FR 68 SDS
ø 80 mm
pg. 87

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
package
tools for installation

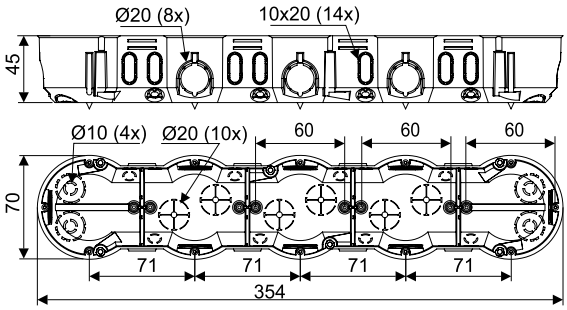
## KP 64/5 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- for modern installations in combined frames
- significant rigidity makes device installation easier

| item | desc. | | EAN |
|---|---|---|---|
| **KP 64/5_KA** | two boxes packed in shrink foil and covered with label, device screws included in the bag, packages placed in a carton | 2; 16 | 8595057657212 |




ACCESSORIES


TYP0...
pg. 84


NR...
pg. 23


FR 68 SDS
ø 80 mm
pg. 87

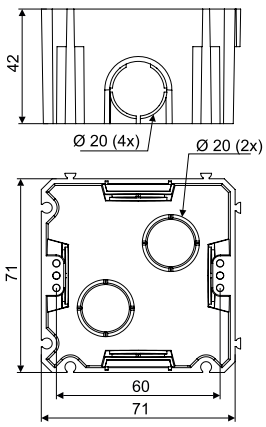
## KP 67X67 - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- possibility to connect up to 5 boxes vertically and horizontally
- suitable for 2x double frame
- square shape increases the mounting volume of the box
- spacer for a spacing of 83 mm

| item | desc. | | EAN |
|---|---|---|---|
| **KP 67X67_KA** | boxes loosely inserted into the carton, device screws included | 100 | 8595057600072 |




ACCESSORIES


DR42
pg. 22


TYP0...
pg. 84

material | temperature resistance | self-extinguishing | spacing
fire reaction class of underlying material | flaming loop test | package | for mounting a double-socket

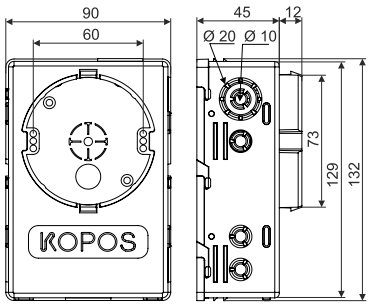
## KUH 1 - universal box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- more space in the box allows the insertion of active elements under the device
- possibility to insert the terminal S-66 directly under the device
- suitable for modern electrical system with higher space requirements

| item | desc. | | EAN |
|---|---|---|---|
| **KUH 1_KA** | boxes packed individually in shrink foil, installation screws included | 1; 35 | 8595057688445 |




ACCESSORIES



V 68 pg. 25 | ZV 68 pg. 21 | S-66 pg. 83 | TYP0... pg. 84 | NR... pg. 23

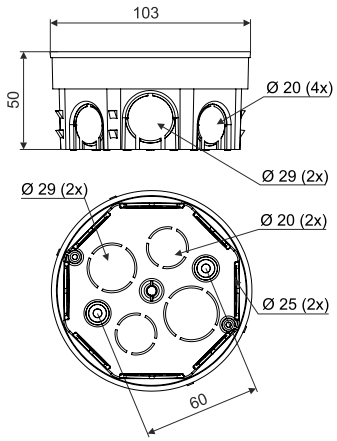
## KO 97/5 - junction box with a cover KO 97 V



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- a large number of passages to make larger installations
- projections against ripping the box out of the wall
- sufficient space for terminal plate and circuit connection

| item | desc. | | EAN |
|---|---|---|---|
| **KO 97/5_KA** | boxes with attached covers placed in a cardboards separately | 90 | 8595057600164 |




ACCESSORIES



ZV 97 pg. 21 | SP-96 pg. 83 | TYP0... pg. 84 | TN 97 pg. 25

material | temperature resistance | self-extinguishing | for mounting a double-socket
fire reaction class of underlying material | flaming loop test | package

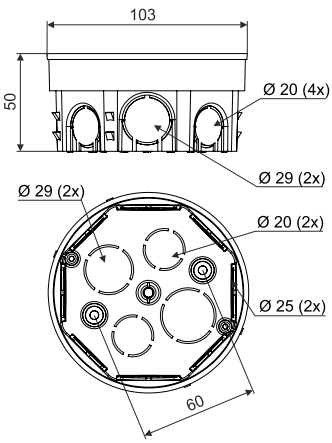
## KR 97/5 - junction box with a cover KO 97 V and a terminal plate SP-96



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- a large number of passages to make larger installations
- projections against ripping the box out of the wall
- the box is fitted with an terminal plate SP-96

| item | desc. | | EAN |
|---|---|---|---|
| **KR 97/5_KA** | terminal plate SP-96 screwed into the box, covers included and each box placed into a carton | 80 | 8595057600256 |




ACCESSORIES



**ZV 97** pg. 21 | **TYP0...** pg. 84 | **TN 97** pg. 25

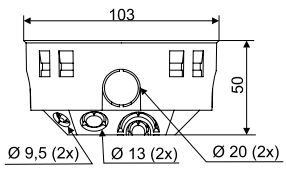
## KOM 97HF - halogen-free box with a cover KO 97 V/1 HF

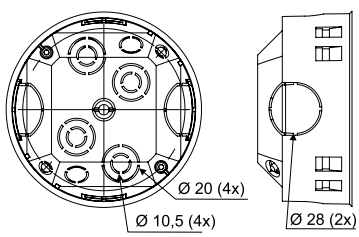


MAT | PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | HF

- for premises with increased need for protection of persons and property
- a large number of passages to make larger installations
- projections against ripping the box out of the wall
- sufficient space for terminal plate and circuit connection

| item | desc. | | EAN |
|---|---|---|---|
| **KOM 97HF_FA** | boxes and a covers packed loosely in cardboards | 40 | 8595057635012 |



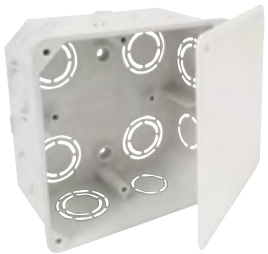

ACCESSORIES



**ZV 97** pg. 21 | **SP-96** pg. 83 | **TYP0...** pg. 84

material | temperature resistance | self-extinguishing | halogen-free material
fire reaction class of underlying material | flaming loop test | package

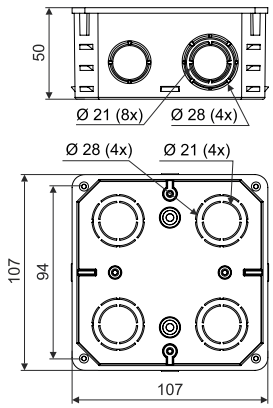
## KO 100 - box with a cover KO 100 V



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- a large number of passages for inserting cables and pipes

| item | desc. | | EAN |
|---|---|---|---|
| **KO 100_KA** | individual boxes with a cover individually packed in shrink foil and provided with a label, screws inserted in package | 1; 74 | 8595057600133 |




ACCESSORIES


SP-96
pg. 83


TYP0...
pg. 84

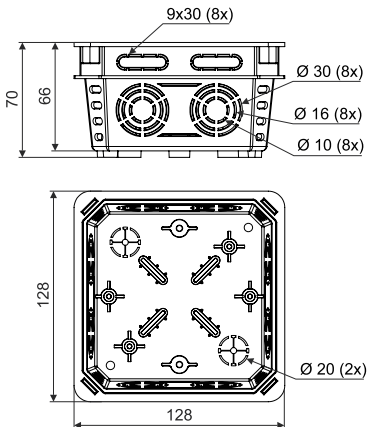
## KO 100 E - box with a cover V 100 E



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- a large number of passages for inserting cables and pipes
- possibility to install the support trunking TS35
- possibility to set the cover in and horizontal position
- possibility to break the sidewall for easier cable handling

| item | desc. | | EAN |
|---|---|---|---|
| **KO 100 E_KA** | individual boxes with a cover individually packed in shrink foil and provided with a label, screws inserted in package | 1; 42 | 8595057612655 |




ACCESSORIES


SP-96
pg. 83


EPS 3
pg. 85


TYP0...
pg. 84


TS35
pg. 215

material | temperature resistance | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

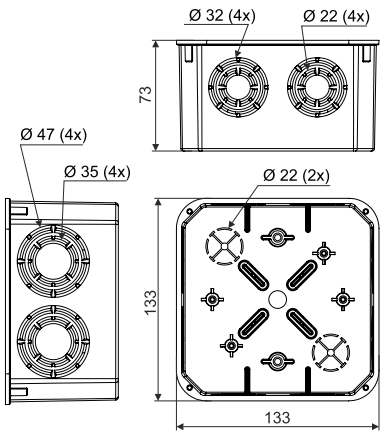
## KO 125 - box with a cover KO 125 V



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- a large number of passages for inserting cables and pipespossibility to install the support trunking TS35

| item | desc. | | EAN |
|---|---|---|---|
| **KO 125_KA** | individual boxes with a cover individually packed in shrink foil and provided with a label, screws inserted in package | 1; 34 | 8595057600140 |




ACCESSORIES



SP-96 pg. 83 | EPS 3 pg. 85 | TYP0... pg. 84 | TS35 pg. 215

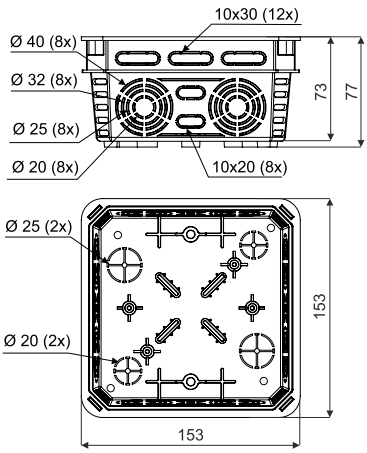
## KO 125 E - box with a cover V 125/1



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- a large number of passages for inserting cables and pipespossibility to install the support trunking TS35
- possibility to set the cover in and horizontal position
- possibility to break the sidewall for easier cable handling

| item | desc. | | EAN |
|---|---|---|---|
| **KO 125 E_KA** | individual boxes with a cover individually packed in shrink foil and provided with a label, screws inserted in package | 1; 20 | 8595057612587 |




ACCESSORIES



SP-96 pg. 83 | EPS 3 pg. 85 | TYP0... pg. 84 | TS35 pg. 215

material | temperature resistance | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

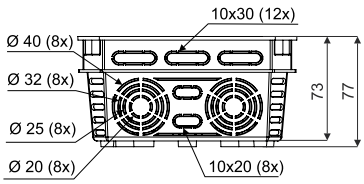
## KO 125 E/EQ02 - box with a cover V 125/1 and an equipotential terminal

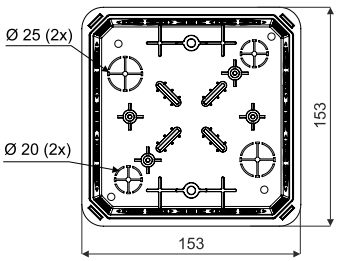


MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- equipotential terminal plates for 5 wires of 25 mm and 1 flat wire of 30x4 mm
- a large number of passages for inserting cables and pipes
- possibility to set the cover in and horizontal position
- possibility to break the sidewall for easier cable handling

| item | desc. | | EAN |
|---|---|---|---|
| **KO 125 E/EQ02_KA** | individual boxes with a cover and terminal block packed separately in shrink foil and provided with a label, screws inserted in package | 1; 20 | 8595568909169 |




## KT 250 - junction box

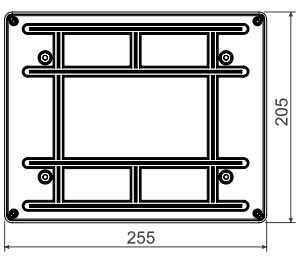


MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- boxes for communication and power distribution
- possibility to install support trunking TS35 and equipotential
- terminal plate
- suitable for surface mounting - cover follows the size of the box
- boxes without preformed passages

| item | desc. | | EAN |
|---|---|---|---|
| **KT 250_KB** | individual boxes with a cover packed in shrink foil and provided with a label and placed in a carton | 1; 11 | 8595057600294 |




ACCESSORIES


PPK...
pg. 67


SP-96
pg. 83


TYP0...
pg. 84


TS35
pg. 215

material | temperature resistance | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

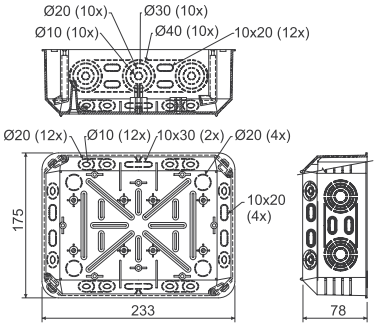
## KT 250/1 - box with a cover VKT 250/L



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- a large number of passages for inserting cables and pipes
- possibility to install support trunking TS35 and equipotentia
- vertical alignment of the cover is possible using oval mounting holes in the box
- possibility to break the sidewall for easier cable handling

| item | desc. | | EAN |
|---|---|---|---|
| **KT 250/1_KB** | individual boxes with a cover packed in shrink foil and provided with a label and placed in a carton | 1; 12 | 8595057632738 |




ACCESSORIES


SP-96
pg. 83


EPS...
pg. 85


TYP0...
pg. 84


TS35
pg. 215

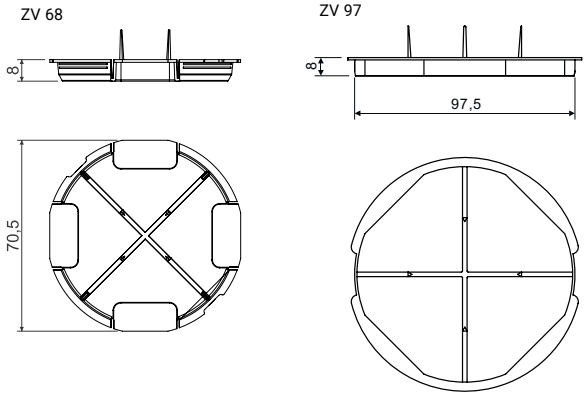
## ZV 68; ZV 97 - blind cover



MAT | PE | -5 - +60°C | HF

- for covering boxes before plastering, with the cover removed afterwards

| item | desc. | | EAN |
|---|---|---|---|
| **ZV 68_AB** | for boxes of series KU, KP 68 | 10; 480 | 8595057600591 |
| **ZV 97_AB** | for boxes of series KO, KR 97 | 10; 220 | 8595057600607 |




material | temperature resistance | self-extinguishing | halogen-free material
fire reaction class of underlying material | flaming loop test | package

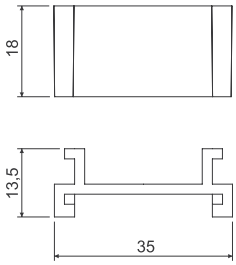
## **DR18** - compensating spacer



MAT PVC | -5 - +60°C | A1 - F | 30 sec.

- to increase the spacing between the boxes KP 67/2, KP 67/3 by 10 mm
- for mounting of devices with individual frames side by side

| item | desc. | | EAN |
|---|---|---|---|
| **DR18_HB** | packed loose in a PE bag | 10; 1800 | 8595057612570 |



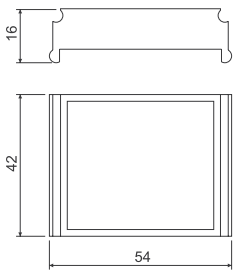

## **DR42** - compensating spacer



MAT PVC | -5 - +60°C | A1 - F | 30 sec.

- to increase the spacing between the boxes KP 67X67 by 12 mm (to 83 mm)
- for mounting of devices with individual frames of Classic, Tango, Swing, Time series by ABB

| item | desc. | | EAN |
|---|---|---|---|
| **DR42_HB** | packed loose in a PE bag | 250; 500 | 8595057600508 |




material | temperature resistance | self-extinguishing
fire reaction class of underlying material | package

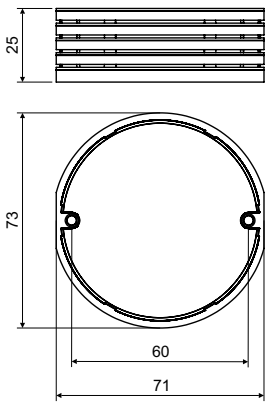
## NR 5X5 - extension frame



MAT | PP | -5 - +60°C | 850°C | A1 - F | 30 sec. | 71 | HF

- extension frame for boxes installed below plaster or tiling level, suitable for KU, KP and KUH series
- can also be used for multiple boxes KP 64/2, 3, 4, 5
- five mounting frames in one, easy separation by 5 mm

| item | desc. | | EAN |
|---|---|---|---|
| **NR 5X5_ZB** | packed in shrink foil | 4; 184 | 8595568932280 |



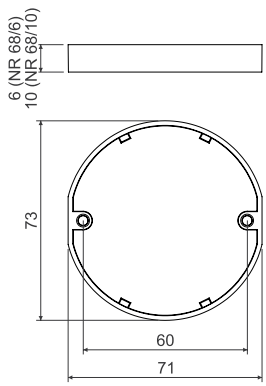

## NR 68/6; NR 68/10 - extension frame



MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 71

- for single-installed KU, KP and KUH series boxes installed below plaster or tiling level
- can also be used for multiple boxes KP 64/2, 3, 4, 5

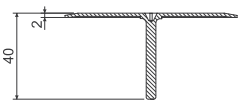
| item | desc. | | EAN |
|---|---|---|---|
| **NR 68/6_ZB** | packed in shrink foil, height 6 mm | 10; 750 | 8595057619036 |
| **NR 68/10_ZB** | packed in shrink foil, height 10 mm | 10; 420 | 8595057619043 |

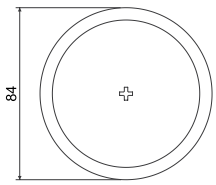



material | temperature resistance | self-extinguishing | halogen-free material
fire reaction class of underlying material | flaming loop test | package | spacing

## KO 68 - cover





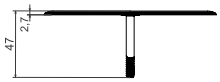

MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

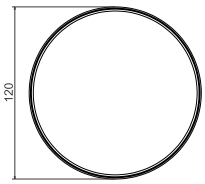
- for the final covering of box KU 68-45

| item | desc. | | EAN |
|---|---|---|---|
| **KO 68_HB** | covers are packed in a bag, the bag is put in a carton | 100 | 8595057600539 |

## KO 97 V - cover





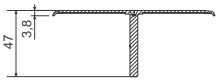

MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

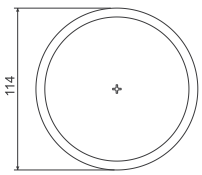
- for the final covering of distribution and joint boxes KO 97/5, KR 97/5, KO 97/LD
- the cover is provided with a rim, which allows seamless covering of electrical installation boxes installed under plaster or hollow walls

| item | desc. | | EAN |
|---|---|---|---|
| **KO 97 V_HB** | covers are packed in a bag, the bag is put in a carton | 40 | 8595057600546 |

## KO 97 V/1 HF - halogen-free cover






MAT | PC-ABS | -5 - +60 | 850°C | A1 - D | 30 sec. | HF

- for premises with increased need for protection of persons and property
- for the final covering of box KOM 97HF
- the cover is provided with edge that allows trouble-free covering of wiring boxes installed in concrete or hollow walls

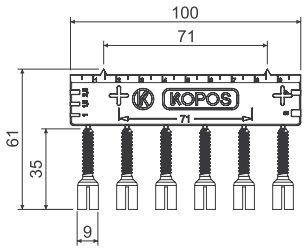
| item | desc. | | EAN |
|---|---|---|---|
| **KO 97 V/1 HF_HB** | covers are packed in a bag, the bag is put in a carton | 40 | 8595057633971 |

## TN... - extending piece



MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

- for extending the central fixing pin of cover caps in cases of overly recessed boxes
- the pin can be shortened to the required length
- attached ruler is used to measure the spacing of 71 mm
- notches for identifying conductor cross-sections
- 1 piece contains a plate of 6 adjusting pins



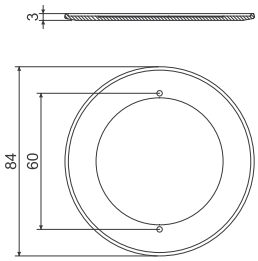

| item | | desc. | | EAN |
|---|---|---|---|---|
| **TN 68_KB** | grey | for boxes KU 68-45 | 10; 800 | 8595057698512 |
| **TN 97_HB** | white | for boxes KO 97/5, KR 97/5, KO 97/LD | 10; 800 | 8595057698529 |

## V 68 - cover



MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

- to cover the boxes with fixing spacing of 60 mm using fastening screws. 2.9x13Z
- for boxes: KP 68/D, KPR 68/D, KP 68-30, KP 68-45, KU 68-45, KPR 68-70, KP 68/2, KP 68, KPR 68KP 67/2, KP 67/3, KUH 1



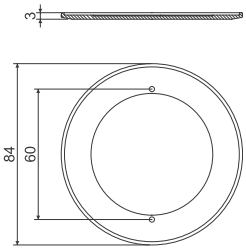

| item | desc. | | EAN |
|---|---|---|---|
| **V 68_HA** | the cevers are packed in the bag, the bag is put in the carton | 100; 400 | 8595057600577 |

## V 68HF - halogen-free cover



MAT | PC-ABS | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

- for premises with increased need for protection of persons and property
- to cover the boxes with fixing spacing of 60 mm using fastening screws 2.9x13Z




| item | desc. | | EAN |
|---|---|---|---|
| **V 68HF_HB** | cevers in a pack of 10 pcs, sealed in shrink foil | 10; 100 | 8595057634114 |

material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package | halogen-free material

## cover

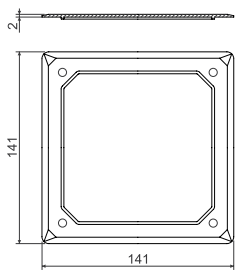


MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

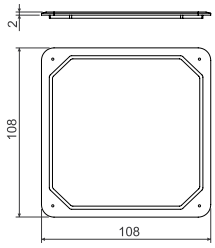
- mounting screws 2.9x13Z must be purchased separately

| item | desc. | | EAN |
|---|---|---|---|
| **V 100 E_HB** | for boxes KO 100 E | 10; 100 | 8595057617353 |
| **KO 100 V_HB** | for boxes KO 100 | 10; 140 | 8595057600515 |
| **KO 125 V_HB** | for boxes KO 125 | 10; 130 | 8595057600522 |
| **V 125/1_HB** | for boxes KO 125 E | 10; 180 | 8595057668669 |
| **KT 250 V_HB** | for boxes KT 250 | 5; 35 | 8595057600553 |
| **VKT 250/L_HB** | for boxes KT 250/1 | 5; 45 | 8595057669147 |
| **VKP 64/2L_HB** | for boxes KP 64/2 | 10; 450 | 8595057655164 |

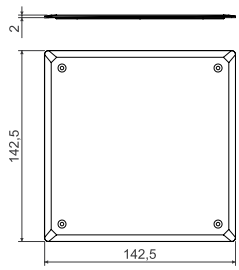
V 100 E



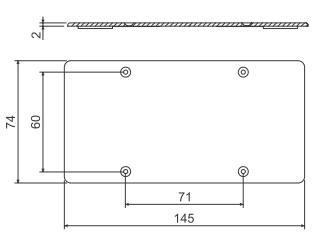

KO 100 V



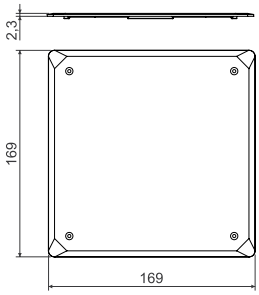

KO 125 V



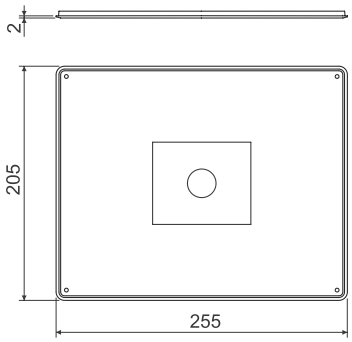

VKP 64/2L



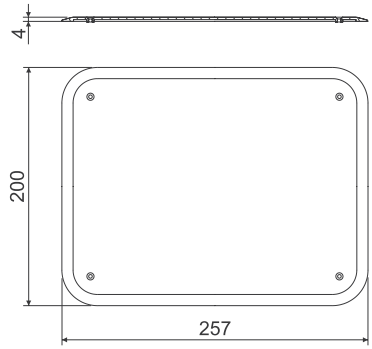

V 125/1




KT 250 V



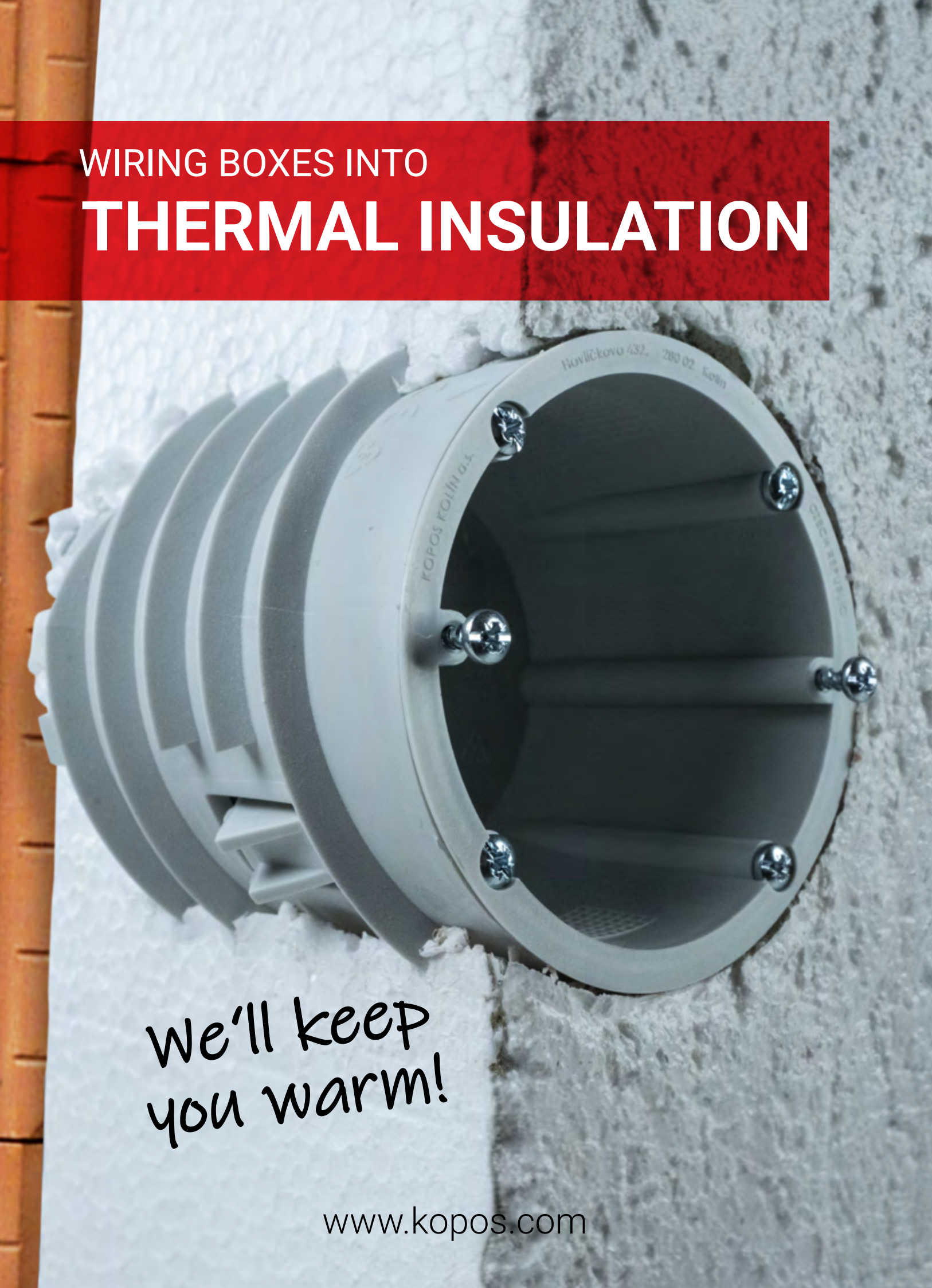

VKT 250/L




material | temperature resistance | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

WIRING BOXES INTO

# THERMAL INSULATION




*We'll keep you warm!*

www.kopos.com

# **WIRING BOXES** - INTO THERMAL INSULATION

In accordance with the standards ČSN EN IEC 60670-1, 2nd edition, and ČSN EN 60670-1—Boxes and complete enclosures for electrical accessories for house and similar fixed electrical installations.

Material: Self-snuffing polypropylene (PP) with temperature resistance from -25 °C to +60 °C is used for KEZ, KEZ 300, KEZ-3, MDZ, MDZ 300, MDZ XL and MDZ XL 300.
Self-snuffing polypropylene (PP) and polycarbonate (PC-ABS) with temperature resistance from -25°C to 60°C is used for boxes KUZ.

According to the requirements of ČSN EN 60670-1 § 18, the boxes comply with the excessive-heat resistance test as well as the test with flaming loop with temperature 850 °C. In addition to the requirements, a needle burner flame test according to ČSN EN 60695-11-5 was performed with a satisfactory result.

According to ČSN EN 332312 ed. 2, the company KOPOS KOLÍN a.s. as manufacturer recommends the assembly of boxes on and into building materials with fire reaction class from A1 to F, in accordance with ČSN EN 13501-1.

The boxes are designed for distribution system with voltage up to 400 V.

CE **All boxes, accessories and terminal plates are in compliance with EU directions.**

All insulation boxes are also available on our website.



## KEFZ 80/VDZ - wiring box for final insulation with a drill

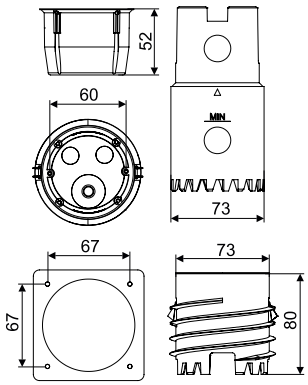


MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- for the installation of devices in insulated facades of buildings from an insulation layer thickness of 80 mm
- suitable for facade polystyrenes and mineral wool
- the package includes a hand drill set, screw carrier, electrical installation box, assembly instructions and the appropriate screws
- to install more boxes, it is possible to order one KEFZ 80/VDZ set and hereinafter just KEFZ 80
- robust construction

| item | desc. | | EAN |
|---|---|---|---|
| **KEFZ 80/VDZ_KB** | individual sets packed in individual cartons | 1 | 8595568936271 |






## KEFZ 80 - wiring box for final insulation

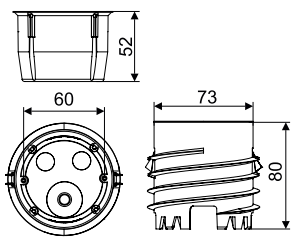


MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- for the installation of devices in insulated facades of buildings from an insulation layer thickness of 80 mm
- suitable for facade polystyrenes and mineral wool
- the package includes a screwdriver, electrical installation box, mounting instructions and related screws
- for the first installation recommended set KEFZ 80 / VDZ with manual drilling assembly and KEFZ 80
- robust construction

| item | desc. | | EAN |
|---|---|---|---|
| **KEFZ 80_KB** | individual boxes packed in a separate carton | 1 | 8595568936288 |






material | temperature resistance | self-extinguishing | for mounting a double-socket
fire reaction class of underlying material | flaming loop test | package

## KEZ - installation box into thermal insulation

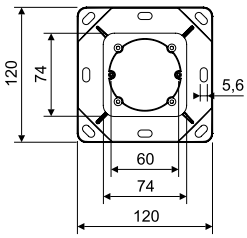


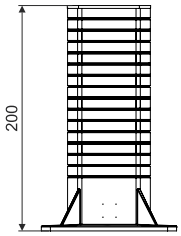
MAT PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- for device installation in insulated building facades with a thickness from 50 - 200 mm
- eliminates thermal bridging
- the package includes a support tube, box, internal and external insulation, quality wall plugs and screws for mounting
- when installing on a rough surface, it is recommended to seal the device with silicone

| item | desc. | | EAN |
|---|---|---|---|
| **KEZ_KB** | individual boxes packed in a separate carton | 1 | 8595057698499 |








## KEZ 300 - installation box into thermal insulation

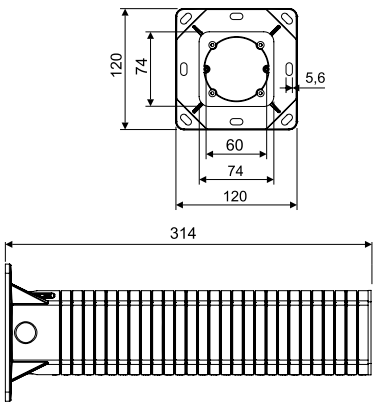


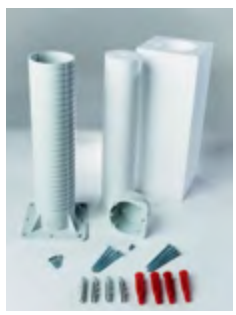
MAT PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- for device installation in insulated building facades with a thickness from 50 - 300 mm
- eliminates thermal bridging
- the package includes a support tube, box, internal and external insulation, quality wall plugs and screws for mounting
- when installing on a rough surface, it is recommended to seal the device with silicone

| item | desc. | | EAN |
|---|---|---|---|
| **KEZ 300_KB** | individual boxes packed in a separate carton | 1 | 8595568930798 |

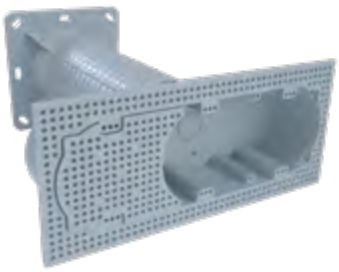




material | temperature resistance | self-extinguishing | for mounting a double-socket
fire reaction class of underlying material | flaming loop test | package

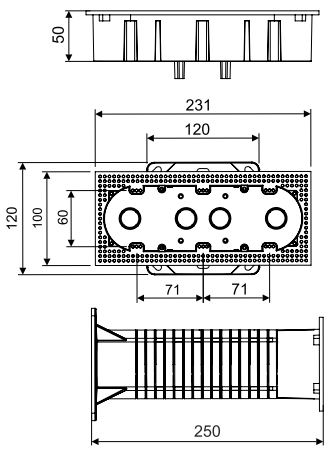
## **KEZ-3** - multiple electroinstallation box into thermal insulation



| MAT | | | | |
|---|---|---|---|---|
| PP | -25 - +60°C | 850°C | A1 - F | 30 sec. |

montage video

- for installation of two to three devices in heated facades of 100 - 250 mm thickness
- we recommend verifying the sealing of low-cover triframes by suppliers of devices for IP44
- suitable triple frames with IP44 - ABB Levit, Zoni, Tango, Legrand Valera Life IP44, Schneider Elso Fashion IP44
- eliminates thermal bridging
- the package includes a support tube, triple box, blanking plug, dividing partition, internal and external insulation and quality wall plugs, screws for mounting and a partition for separating multiple circuits
- when installing on a rough surface, it is recommended to seal the device with silicone




| item | desc. | | EAN |
|---|---|---|---|
| **KEZ-3_KB** | individual boxes packed in a separate carton | 1 | 8595568910561 |

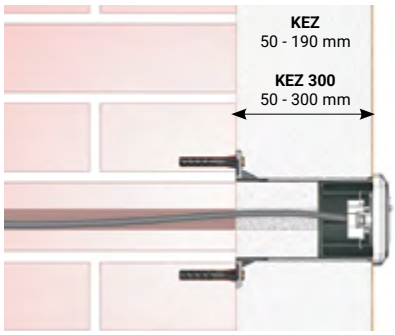


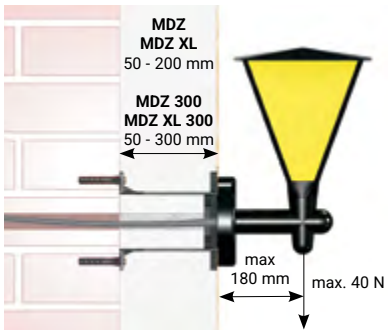




## Assembling system into thermal insulation






**KEZ, KEZ 300 - electroinstallation box into thermal insulation**



**MDZ, MDZ 300 - mounting desk into thermal insulation**



**KEZ-3 - multiple electroinstallation box into thermal insulation**



**MDZ XL, MDZ XL 300 - mounting desk into thermal insulation**



There is necessary to cut the carrier including inserted insulation before installation depending on layer thickness insulation. The carrier is fixed to the wall with twists and dowels depending on type of the wall surface. For installation of 400 V plug we recommend to fasten the carrier with chemical anchors. The finally installation of box or mounting plate should be done by 4 added screws.

## MDFZ 80/VDZ - mounting plate for final insulation with a drill

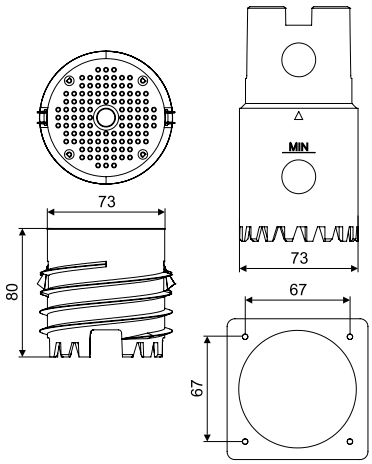


MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- for the installation of smaller electrical devices (motion sensors, cameras, etc.) even into the finally heated facades of buildings from the thickness of the insulating layer 80 mm
- the mounting plate is suitable for facade polystyrenes and mineral wool
- maximum load 15N
- the package includes a manual drilling set, mounting plate carrier, mounting plate, assembly instructions and appropriate screws
- to install more plates, it is possible to order one MDFZ 80/VDZ set and hereinafter just MDFZ 80
- robust construction

| item | desc. | | EAN |
|---|---|---|---|
| **MDFZ 80/VDZ_KB** | individual sets packed in individual cartons | 1 | 8595568936295 |






## MDFZ 80 - mounting plate for final insulation

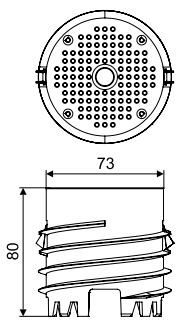


MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- for the installation of smaller electrical devices (motion sensors, cameras, etc.) on insulated building facades with an insulation layer thickness of min. 80 mm
- the mounting plate is suitable for facade polystyrenes and mineral wool
- possibility to install even in the finished manufactured warm facades
- maximum load 15N
- the package includes a mounting plate carrier, mounting plate, assembly instructions and appropriate screws
- for the first installation, it is necessary to buy the MDFZ 80/VDZ set, which also contains a manual drilling set
- robust construction

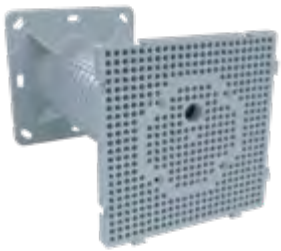
| item | desc. | | EAN |
|---|---|---|---|
| **MDFZ 80_KB** | individual mounting plates are packed in separate cardboards | 1 | 8595568936301 |






material | temperature resistance | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

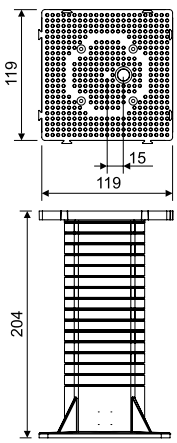
## MDZ - mounting plate for final insulation



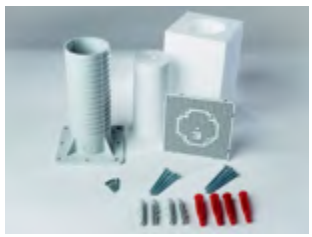
MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- for the installation of electrical devices (outdoor lights, motion sensors, 400 V sockets, etc.) on thermally insulated buildings facades with a thickness from 50 to 200 mm
- eliminates thermal bridging
- load of 40 N at a distance of 180 mm from the wall
- possibility to create areas of any size when using multiple mounting plates
- the package includes a support tube, mounting plate including a central support cover, internal and external insulation and quality wall plugs, screws and support cover for mounting
- suitable for mounting plates 4 to 5 mm diameter screws

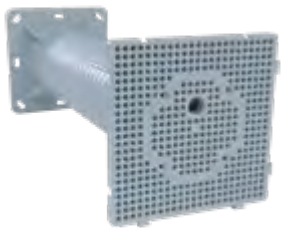



| item | desc. | | EAN |
|---|---|---|---|
| **MDZ_KB** | individual mounting plates are packed in separate cardboards | 1 | 8595057698505 |





## MDZ 300 - mounting plate for final insulation

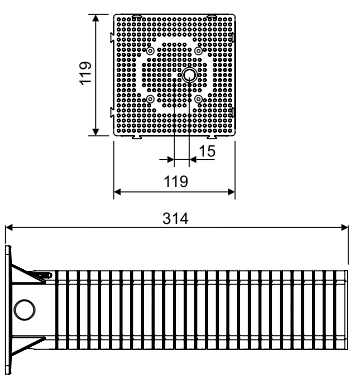


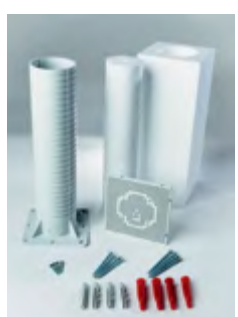
MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- Extended assembly for installation of electrical equipment (outdoor lights, motion sensors, 400 V sockets, etc.) on insulated facades of buildings with a thickness of 50 - 300 mm
- eliminates thermal bridging
- load of 40 N at a distance of 180 mm from the wall
- possibility to create areas of any size when using multiple mounting plates
- the package includes a support tube, mounting plate including a central support cover, internal and external insulation and quality wall plugs, screws and support cover for mounting
- suitable for mounting plates 4 to 5 mm diameter screws

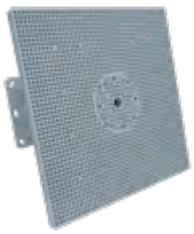
| item | desc. | | EAN |
|---|---|---|---|
| **MDZ 300_KB** | individual mounting plates are packed in separate cardboards | 1 | 8595568930804 |



material | temperature resistance | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

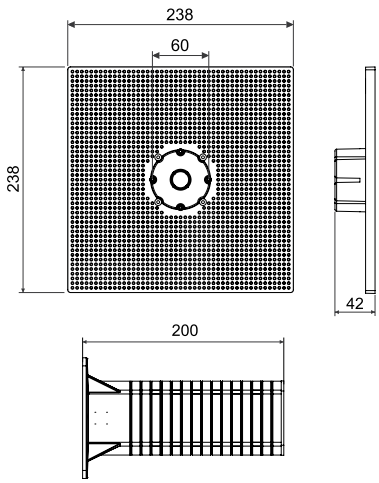
## **MDZ XL** - mounting plate for final insulation



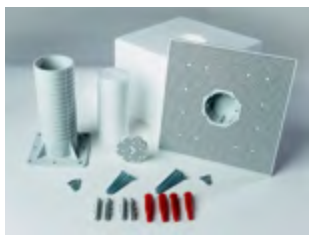
MAT PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- for the installation of electrical devices (outdoor lights, motion sensors, 400 V sockets, etc.) on thermally insulated buildings facades with a thickness from 50 to 200 mm
- eliminates thermal bridging
- load of 40 N at a distance of 180 mm from the wall
- 4 times larger area than standard MDZ
- the package includes a support tube, mounting plate including a central support cover internal and external insulation and quality wall plugs, screws
- and support cover for mountingscrews with a diameter of 4 to 5 mm are suitable for the mounting desk
- the mounting desk has a clamping area




| item | desc. | | EAN |
|---|---|---|---|
| **MDZ XL_KB** | individual mounting plates are packed into a carton | 1 | 8595568930491 |





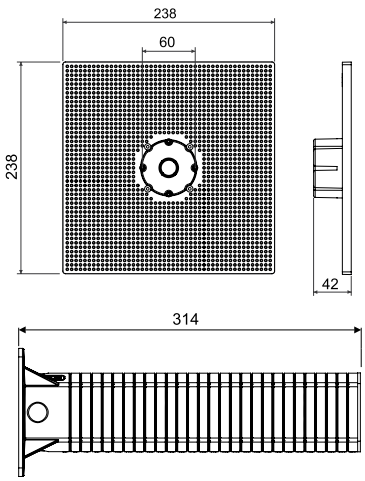
## **MDZ XL 300** - mounting plate for final insulation



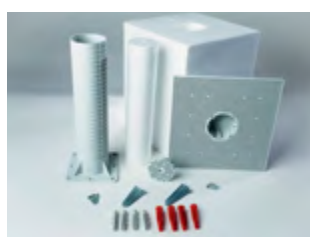
MAT PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

montage video

- extended assembly for installation of electrical equipment (outdoor lights, motion sensors, 400 V sockets, etc.) on insulated facades of buildings with a thickness of 50 - 300 mm
- eliminates thermal bridging
- load of 40 N at a distance of 180 mm from the wall
- 4 times larger area than standard MDZ
- the package includes a support tube, mounting plate including a central support cover, internal and external insulation and quality wall plugs, screws
- and support cover for mountingscrews with a diameter of 4 to 5 mm are suitable for the mounting desk
- the mounting desk has a clamping area



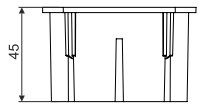

| item | desc. | | EAN |
|---|---|---|---|
| **MDZ XL 300_KB** | individual mounting plates are packed in separate cardboards | 1 | 8595568930811 |

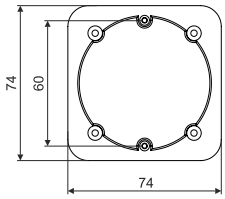


material | temperature resistance | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

## ND KEZ - spare part wiring box for thermal insulation





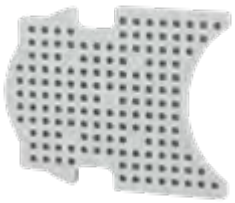



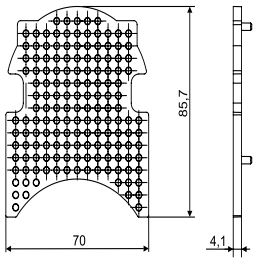

MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

- the spare part wiring box for thermal insulation is an individual wiring box, normally supplied with the KEZ and KEZ-3 set
- the box must be used in combination with the supporting tube only, by means of standard assembly procedure
- the separate use of this spare part, without the supporting tube, is not possible
- four self-tapping screws for fixing the box to the tube are normally supplied with the spare part

| item | desc. | | EAN |
|---|---|---|---|
| **ND KEZ_KB** | individual boxes packed in shrink foil, screws included | 1; 36 | 8595568925275 |

## ND KEZ-3/Z - spare plug for electrical installation box for thermal insulation



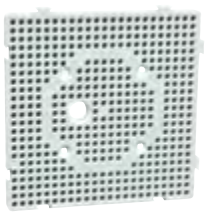


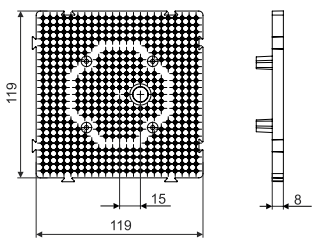

MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

- spare part KEZ-3 / Z_KB is a separate blanking plug
- use only according to the installation instructions box KEZ-3, for blinding one or both extreme positions
- the blanking plug is not load-bearing, it is only used to cover the edge positions

| item | desc. | | EAN |
|---|---|---|---|
| **ND KEZ-3/Z_KB** | individual plugs wrapped in foil | 1; 30 | 8595568934956 |

## ND MDZ - spare part mounting desk for thermal insulation






MAT | PP | -25 - +60°C | 850°C | A1 - F | 30 sec.

- the spare part mounting desk for thermal insulation is an individual plate, normally supplied with the MDZ set
- use only in combination with the supporting tube in the usual assembly procedure
- the separate use of this spare part, without the supporting tube, is not possible
- four self-tapping screws for fixing of the plate to the tube are normally supplied with the spare part

| item | desc. | | EAN |
|---|---|---|---|
| **ND MDZ_KB** | individual mounting plates packed in shrink foil, screws included | 1; 30 | 8595568925282 |

material | temperature resistance | self-extinguishing | for mounting a double-socket
fire reaction class of underlying material | flaming loop test | package

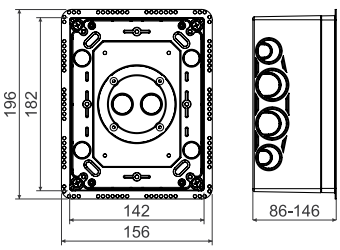
## KUZ-V - universal box to thermal insulation with a cover

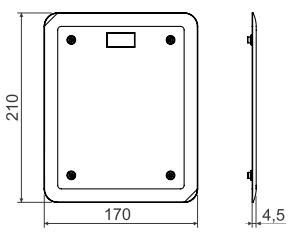


MAT | PC-ABS | -25 - +60°C | 850°C | A1 - F | 30 sec. | IP30 (44) | HF | ČESKÁ KVALITA

montage video

- for installation to facades with thermal insulation with a thickness from 80 to 140 mm, or as boxes under parget
- use as a junction box, for lightning rod measuring clamp and other applications according to the customer
- adjustable depth of the box
- to achieve IP44 protection it is necessary to use the attached seal
- the configuration includes a box and a flat cover + stainless steel screws + seal
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| KUZ-V_KB | individual boxes packed in a separate carton | 1 | 8595568923660 |

ACCESSORIES


S-KSK 2
pg. 66


TS35
pg. 215


TYP0...
pg. 84

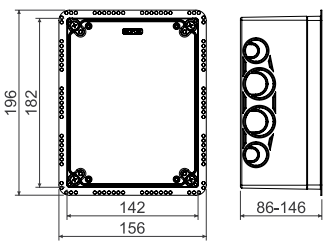
## KUZ-VO - universal box to thermal insulation with an opening cover

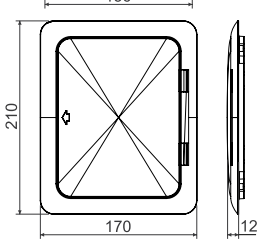


MAT | PC-ABS | -25 - +60°C | 850°C | A1 - F | 30 sec. | IP30 (44) | HF | ČESKÁ KVALITA

montage video

- for installation to facades with thermal insulation with a thickness from 80 to 140 mm, or as boxes under parget
- use as a junction box, for lightning rod measuring clamp and other applications according to the customer
- adjustable depth of the box
- to achieve IP44 protection it is necessary to use the attached seal
- possibility to install 400 V / 16 A socket using PN KUZ
- the configuration includes a box and an opening cover, inner mounting desk and stainless steel screws + seal
- European Industrial design protection and European Utility models protection

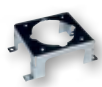



| item | desc. | | EAN |
|---|---|---|---|
| KUZ-VO_KB | individual boxes packed in a separate carton | 1 | 8595568923677 |

ACCESSORIES


TS35
pg. 215


PN KUZ
pg. 39


TYP0...
pg. 84

material | temperature resistance | self-extinguishing | IP protection
fire reaction class of underlying material | flaming loop test | package | halogen-free material

## KUZ-VI - universal box to thermal insulation with a tube and a cover

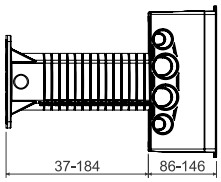


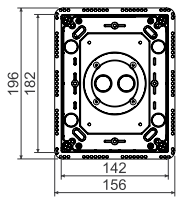
MAT | -25 - +60°C | 850°C | A1 - F | 30 sec. | IP30 (44) | HF | ČESKÁ KVALITA

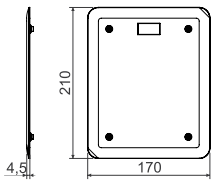
tube - PP
box - PC-ABS

montage video

- for installation of electrical equipment, distribution boxes and other applications according to the customer in a warm facades of buildings thickness 120 - 330 mm
- eliminates thermal bridging
- adjustable depth of the box
- to achieve IP44 protection it is necessary to use the attached seal
- the configuration includes a box, a tube, external and internal insulation, assembly set insert, flat cover and stainless steel screws + seal
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| KUZ-VI_KB | individual boxes packed in a separate carton | 1 | 8595568923684 |



ACCESSORIES



S-KSK 2 pg. 66 | TS35 pg. 215 | TYP0... pg. 84

## KUZ-VOI - universal box to thermal insulation with a tube and an opening cover

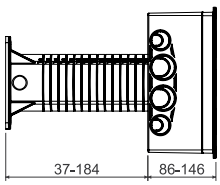


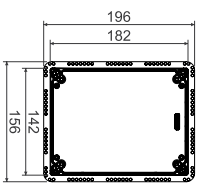
MAT | -25 - +60°C | 850°C | A1 - F | 30 sec. | IP30 (44) | HF | ČESKÁ KVALITA

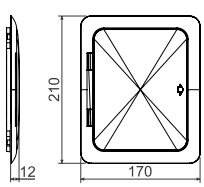
tube - PP
box - PC-ABS

montage video

- for installation of electrical equipment, distribution boxes and other applications according to the customer in a warm facades of buildings thickness 120 - 330 mm
- eliminates thermal bridging
- adjustable depth of the box
- to achieve IP44 protection it is necessary to use the attached seal
- possibility to install 400 V / 16 A socket using PN KUZ
- the configuration includes a box, a tube, external and internal insulation, assembly set insert, opening cover, mounting desk desk and stainless steel screws + seal
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| KUZ-VOI_KB | individual boxes packed in a separate carton | 1 | 8595568923691 |



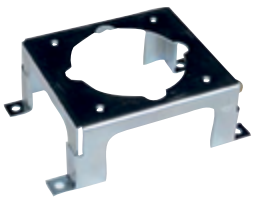
ACCESSORIES



TS35 pg. 215 | PN KUZ pg. 39 | TYP0... pg. 84

material | temperature resistance | self-extinguishing | IP protection
fire reaction class of underlying material | flaming loop test | package | halogen-free material

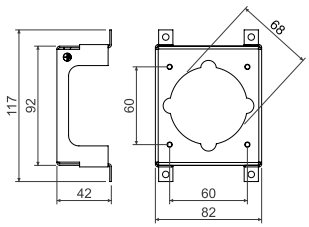
## PN KUZ - device carrier for three-phase sockets



MAT

steel

- the device holder for the assembly of built-in 400 V (16 A) sockets
- installation under the assembly plate supplied with the KUZ-VO and KUZ-VOI sets
- contains a screw M4X6 and a lock washer for grounding
- spacing for socket mounting is 60 mm
- surface finish ZNCR
- during installation it is necessary to remove mounting posts in box KUZ
- suitable devices: SEZ IEN 1653, SEZ IEN 1643, with set depth of box KUZ min. 105 mm - MENNEKES TYP 1385, BALS TYP 132001, ABB 416RU6




| item | desc. | | EAN |
|---|---|---|---|
| **PN KUZ_S** | packed 1 pc in foil | 1 | 8595568923844 |

## Mounting the KUZ system to thermal insulation - three-phase sockets



**KUZ-VI - universal box to thermal insulation with a cover**



**KUZ-V - universal box to thermal insulation with a tube and a cover**



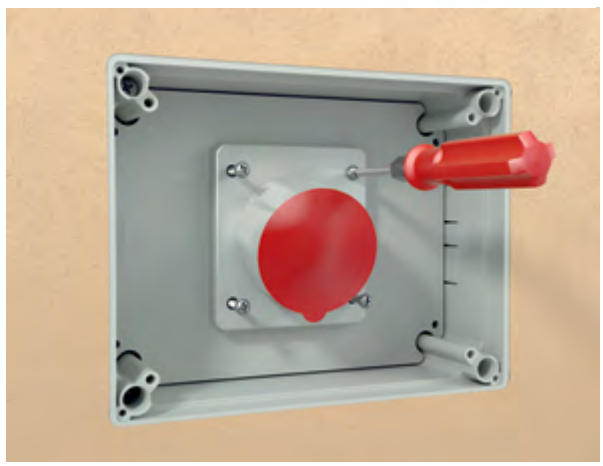
**KUZ-VO - universal box to thermal insulation with an opening cover**



**KUZ-VOI - universal box to thermal insulation with a tube and an opening cover**







material

package

allows installing wall socket 400 V

## V 180 - cover for boxes KUZ-V and KUZ-VI

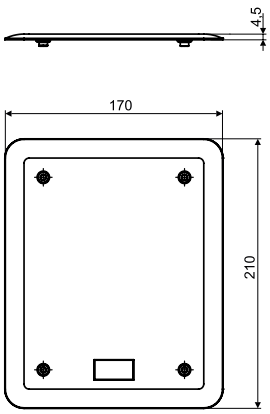


MAT | -25 - +60°C | 850°C | A1 - F | 30 sec.

PC-ABS

- for final covering of boxes KUZ-V, KUZ-VI and KO 180/LD
- the package includes stainless steel screws for installing the cover and seals to IP44

| item | desc. | | EAN |
|---|---|---|---|
| **V 180_HB** | individual covers wrapped in foil | 1; 25 | 8595568934000 |




## VO 180 - opening cover for boxes KUZ-VO and KUZ-VOI

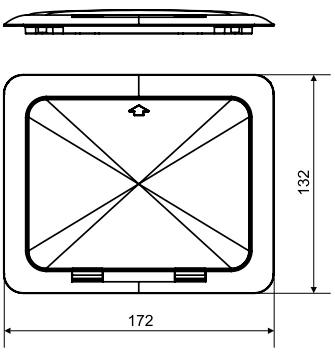


MAT | -25 - +60°C | 850°C | A1 - F | 30 sec.

PC-ABS

- for final covering of boxes KUZ-VO and KUZ-VOI
- the package includes stainless steel screws for installing the cover and seals to IP44

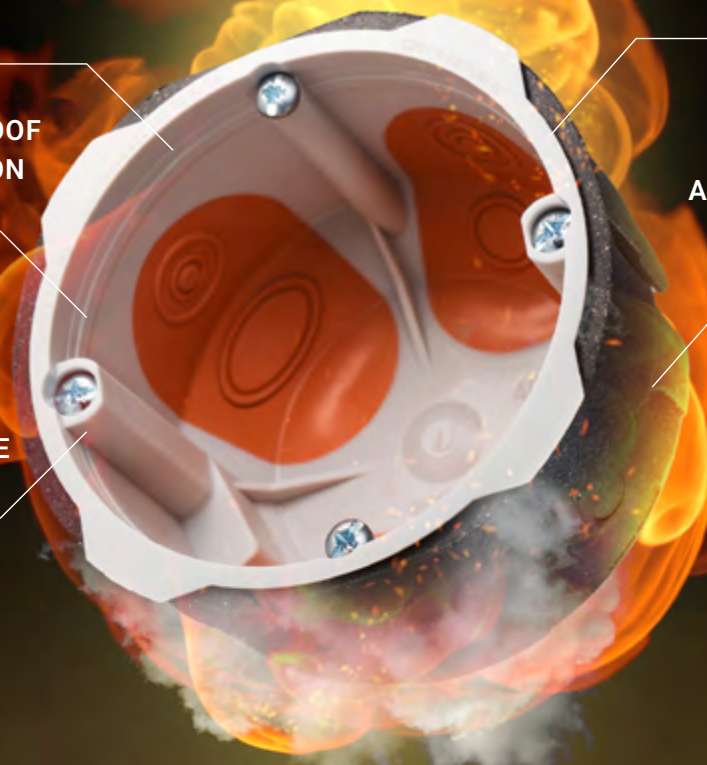
| item | desc. | | EAN |
|---|---|---|---|
| **VO 180_KB** | individual covers wrapped in foil | 1; 14 | 8595568933997 |




material | temperature resistance | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

# KPZ

## FIRE RESISTANT DEVICE BOX



HALOGEN FREE MATERIAL

SUITABLE FOR SOUNDPROOF WALLS WITH ATTENUATION UP TO 69 DB

MOUNTING AND DEVICE SCREWS INCLUDED IN THE BOX

DRILL DIAMETER FOR INSTALLATION 73 MM

FOAMING MATERIAL TO ENSURE INTEGRITY AND EI 90 INSULATION IN CASE OF FIRE

MULTIPLE VARIANTS

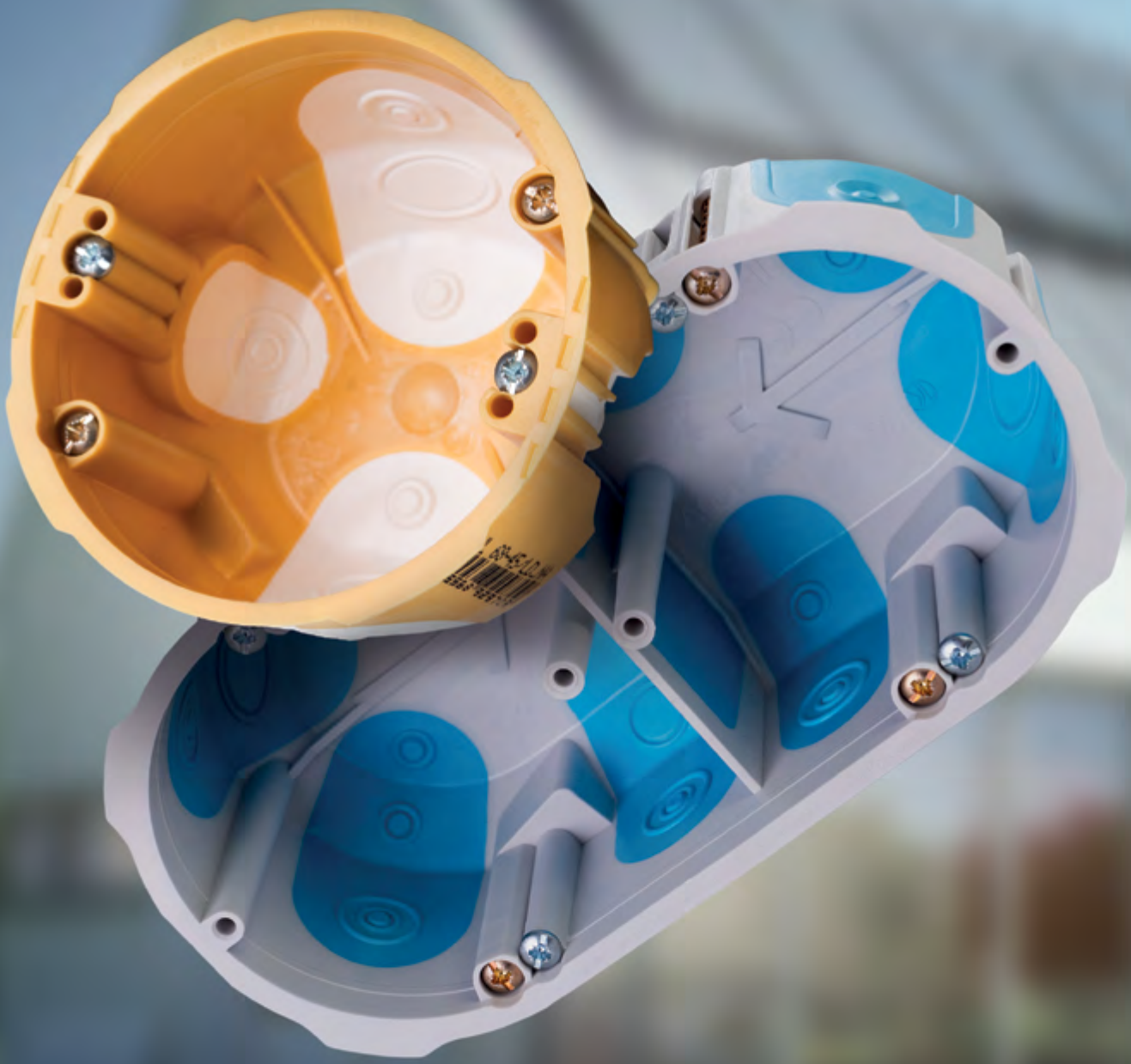
All KPZ boxes are available in the Cable management systems / Fire resistant systems) catalogue or on our website.

CLICK HERE

www.kopos.com

WIRING BOXES

# FOR HOLLOW WALLS



www.kopos.com

# **WIRING BOXES** - FOR HOLLOW WALLS

According to standards ČSN EN IEC 60670-1 ed. 2 and ČSN EN 60670-1 - Boxes and complete covers for electrical accessories for home and similar fixed electrical installations.

Material: Hard self-adhesive polyvinyl chloride (PVC) with temperature resistance of -5 °C to + 60 °C.
Self-adhesive polycarbonate (PC-ABS) with temperature resistance of -5 °C to + 60 °C (for cover V 180 with temperature resistance of -25 to + 60 °C).
Self-adhesive polypropylene (PP) with temperature resistance -5 to + 60 °C. The material is resistant to flame spread and does not contain halogens. It is used in an environment with a higher interest in protecting people and equipment. The electronic wiring boxes differ from the commonly produced types only by the material used, which is indicated by the letters HF at the end of the type number.

According to the requirements of ČSN EN 60670-1 § 18, the boxes comply with the excessive-heat resistance test as well as the test with flaming loop with temperature 850 °C.

In addition to the requirements, a needle burner flame test according to ČSN EN 60695-11-5 was performed with a satisfactory result.

Instrument and universal boxes are designed for distribution system with voltage 400 V and with maximum current 16 A. Boxes fitted with an appropriate cover or device with IP30 protection or higher meet IP30 protection.

The KOPOS KOLÍN company, as the manufacturer, recommends using the KI 68 L/1 box and its modification for installation into construction materials with class A - C3 in compliance with the formerly vacover standard ČSN 73 0862.

For all the products in the product line for hollow walls, we recommend using set of cutters supplied by us, see page pg. 87.

CE **All boxes, accessories and terminal plates are in compliance with EU directions.**

All boxes for hollow walls on our website.



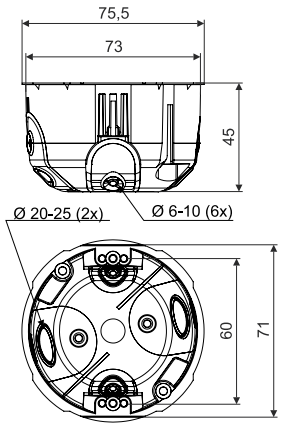
## KUL 68-45/LD - universal box



| MAT | | | | | | IP | |
|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 71 | IP30 | 69 dB |

montage video

- triple device column for easy device alignment
- after tearing out the pre-molded membrane entry and inserting a cable or conduit, airtightness of the passage and soundproofing with an attenuation of up to 69 dB are ensured
- mounting bolts feature double-threaded design for quick installation, the box includes plastic feet
- when mounting, it is not necessary to countersink the plasterboard edge
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- after tearing off the pre-marked part of the box rim, boxes with a 71 mm center-to-center distance can be connected using the SKLD 2 connector (not included in the package)
- European Industrial design protection



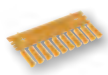

| item | desc. | | EAN |
|---|---|---|---|
| KUL 68-45/LD_NA | box is equipped with screws for mounting in plasterboard and device screws | 100 | 8595568929709 |

ACCESSORIES


V 68
pg. 25


S-66
pg. 83


TYP0...
pg. 84


SKLD 2
pg. 56


PATKA CR+3X...
pg. 82

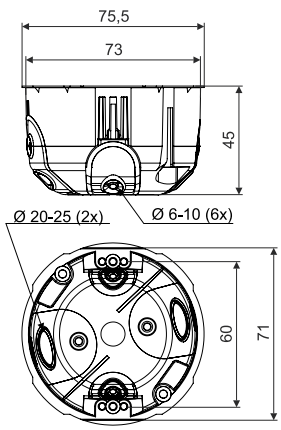

VPTU; VPT 68 Ø 73 mm
pg. 86

## KUL 68-45/LD2 - universal box with a cover V 68



| MAT | | | | | IP | |
|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB |

- after tearing out the pre-molded membrane entry and inserting a cable or conduit, airtightness of the passage and soundproofing with an attenuation of up to 69 dB are ensured
- mounting bolts feature double-threaded design for quick installation, the box includes plastic feet
- the IP30 protection complys a box fitted with a cover
- when mounting, it is not necessary to countersink the plasterboard edge




| item | desc. | | EAN |
|---|---|---|---|
| KUL 68-45/LD2_NA | the box is fitted with screws for fixing onto plasterboard, the cover is screwed onto the box | 100 | 8595568930644 |

ACCESSORIES


S-66
pg. 83


TYP0...
pg. 84


PATKA CR+3X...
pg. 82


VPTU; VPT 68 Ø 73 mm
pg. 86

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
package
spacing
for mounting a double-socket
product with sound attenuation
IP protection
tools for installation

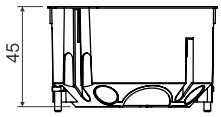
## KU 68 LD/1HF - halogen-free universal box

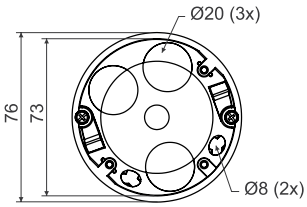


MAT PP | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | HF

- for premises with increased need for protection of persons and property
- after piercing with a sharp object, or tearing out the pre-molded membrane entry and inserting a cable or conduit, airtightness of the passage is ensured
- mounting screws are fitted with a a triple thread for quick installation
- when mounting, it is not necessary to countersink the plasterboard edge

| item | desc. | | EAN |
|---|---|---|---|
| **KU 68 LD/1HF_HA** | the box is equipped with mounting screws and device srews | 90 | 8595568910585 |




ACCESSORIES


**V 68HF**
pg. 25


**S-66**
pg. 83


**TYP0...**
pg. 84


**MP3-3CH_ZNCR + M3X..-3CH**
pg. 82


**VPTU; VPT 68 Ø 73 mm**
pg. 86

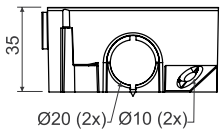
## KU 68/71L1 - universal box

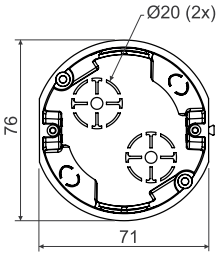


MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 71 | IP30

- possibility of connecting up to 3 boxes side-by-side and connecting conductors with simple insulation
- integrated tip to mark the centre of drilling
- connectable with the box KPR 68/71L
- mounting screws are fitted with a a triple thread for quick installation
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- when mounting, it is not necessary to countersink the plasterboard edge

| item | desc. | | EAN |
|---|---|---|---|
| **KU 68/71L1_NA** | boxes fitted with screws for mounting into double wall, device screws packed separately | 120 | 8595057688414 |




ACCESSORIES


**V 68**
pg. 25


**S-66**
pg. 83


**TYP0...**
pg. 84

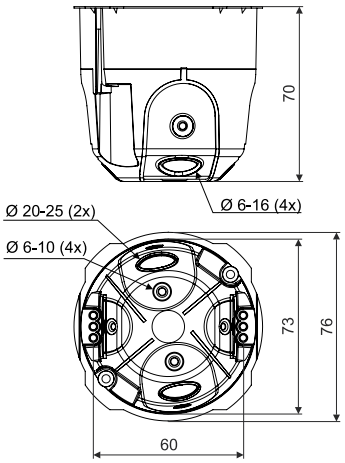

**MP3-3CH_ZNCR + M3X..-3CH**
pg. 82


**VPTU; VPT 68 Ø 73 mm**
pg. 86

material | temperature resistance | self-extinguishing | spacing | halogen-free material | tools for installation
fire reaction class of underlying material | flaming loop test | package | for mounting a double-socket | IP protection

## KPRL 68-70/LD - device box






| MAT | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 71 | | IP30 | 69 dB |

montage video

- triple device column for easy device alignment
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- both mounting and device screws have a double-lead thread for quick installation, and the box includes plastic feet
- when mounting, it is not necessary to countersink the plasterboard edge
- the package includes connectors that allow coupling boxes with a 71 mm spacing; when connecting, the pre-marked part of the box rim must be removed
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- after tearing off the pre-marked part of the box rim, boxes with a 71 mm center-to-center distance can be connected using the SKLD 2 connector
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KPRL 68-70/LD_NA** | packed in 8-pc packages in schrink foil, pacpcs aligned in cardboards, box is equipped with screws for mounting in plasterboard and device screws | 8; 96 | 8595568925879 |

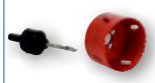
ACCESSORIES


**V 68**
pg. 25


**TYP0...**
pg. 84


**SKLD 2**
pg. 56


**PATKA CR+3X..**
pg. 82


**VPTU; VPT 68 Ø 73 mm**
pg. 86

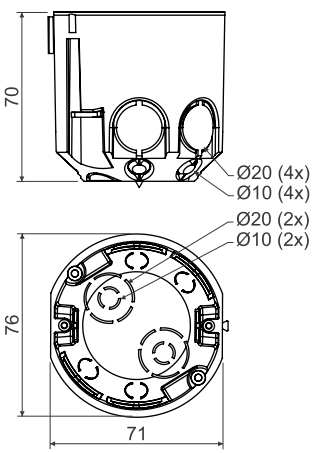
## KPR 68/71L - device box



| MAT | | | | | | | IP |
|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 71 | | IP30 |

- easy installation of devices with great depth
- possibility to insert terminal S-66
- Integrated tip to mark the centre of drilling
- jointed boxes can be interconnected using single insulated wires
- mounting screws are fitted with a a triple thread for quick installatio
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- when mounting, it is not necessary to countersink the plasterboard edge

| item | desc. | | EAN |
|---|---|---|---|
| **KPR 68/71L_NA** | individual boxes are fitted with mounting screws, device screws are packed separately | 60 | 8595057687929 |




ACCESSORIES


**V 68**
pg. 25


**S-66**
pg. 83


**TYP0...**
pg. 84


**MP3-3CH_ZNCR + M3X..-3CH**
pg. 82


**VPTU; VPT 68 Ø 73 mm**
pg. 86

material
fire reaction class of underlying material
spacing
temperature resistance
flaming loop test
self-extinguishing
package
tools for installation
for mounting a double-socket
IP protection
product with sound attenuation

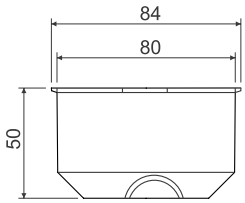
# KI 68 L/1 - junction box

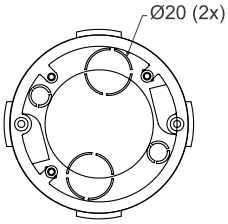


MAT PVC | -5 - +60°C | 850°C | A - C3 | 30 sec. | IP30

- according to the formerly vacover standard ČSN 730862
- special added outer sheat
- mounting screws are fitted with a a triple thread for quick installation
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection

| item | desc. | | EAN |
|---|---|---|---|
| **KI 68 L/1_NA** | individual boxes are fitted with mounting screws, device screws are packed separately | 80 | 8595057600119 |




ACCESSORIES



**V 68**
pg. 25



**S-66**
pg. 83



**TYP0...**
pg. 84



**MP3-3CH_ZNCR + M3X..-3CH**
pg. 82



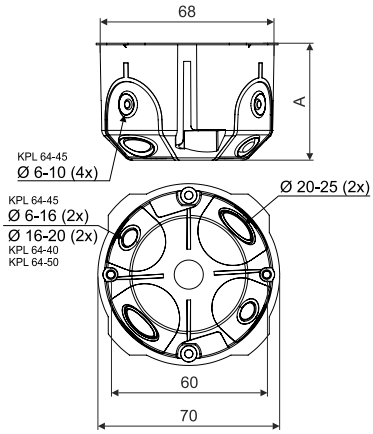
**VPTU; VPT 68 Ø 73 mm**
pg. 86

## KPL 64-../LD - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB

- installation box in the hole is made by tightening mounting screwshen installing on a rough surface, it is recommended to seal the device with silicone
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- the fixing screws as well as the device screws are double-threaded for quick installation; the box has plastic flanges
- when mounting, it is not necessary to countersink the plasterboard edge
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- KPL 64-45/LD protected by European industrial design trademark




| item | desc. | A mm | | EAN |
|---|---|---|---|---|
| **KPL 64-40/LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, loosely packed in a carton | 40 | 110 | 8595568924605 |
| **KPL 64-45/LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, loosely packed in a carton | 45 | 100 | 8595568930835 |
| **KPL 64-50/LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, loosely packed in a carton | 50 | 110 | 8595568925299 |

ACCESSORIES


**V 68**
pg. 25


**TYP0...**
pg. 84


**PATKA CR+3X..**
pg. 82

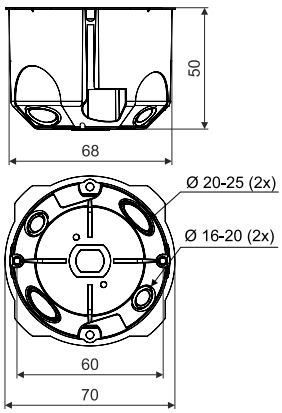

**VPTU; VPT 64 Ø 68 mm**
pg. 86

## KPL 64-50/LD HF - halogen-free device box



MAT | PP | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB | HF

- for premises with increased need for protection of persons and property
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- the fixing screws as well as the device screws are double-threaded for quick installation; the box has plastic flanges
- when mounting, it is not necessary to countersink the plasterboard edge
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection




| item | desc. | | EAN |
|---|---|---|---|
| **KPL 64-50/LD HF_KA** | box is equipped with screws for mounting in plasterboard and device screws, loosely packed in a carton | 110 | 8595568937643 |

ACCESSORIES


**V 68HF**
pg. 25


**TYP0...**
pg. 84


**PATKA CR+3X..**
pg. 82


**VPTU; VPT 64 Ø 68 mm**
pg. 86

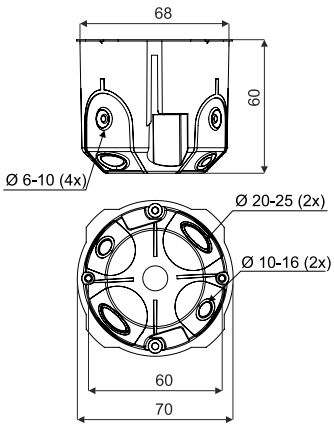
material | temperature resistance | self-extinguishing | halogen-free material | IP protection
fire reaction class of underlying material | flaming loop test | package | product with sound attenuation | tools for installation

## KPRL 64-60/LD - device box



| MAT | | | | | | |
|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB |

- iinstallation box in the hole is made by tightening mounting screwshen installing on a rough surface, it is recommended to seal the device with silicone
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- the fixing screws as well as the device screws are double-threaded for quick installation; the box has plastic flanges
- when mounting, it is not necessary to countersink the plasterboard edge
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| **KPRL 64-60/LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, loosely packed in a carton | 84 | 8595568929921 |

ACCESSORIES



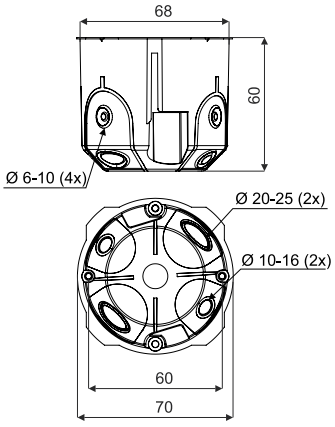
**V 68** pg. 25 | **TYP0...** pg. 84 | **PATKA CR+3X..** pg. 82 | **VPTU; VPT 64 Ø 68 mm** pg. 86

## KPRL 64-60/LD HF - halogen-free device box



| MAT | | | | | | | |
|---|---|---|---|---|---|---|---|
| PP | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB | HF |

- for premises with increased need for protection of persons and property
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- the fixing screws as well as the device screws are double-threaded for quick installation; the box has plastic flanges
- when mounting, it is not necessary to countersink the plasterboard edge
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection




| item | desc. | | EAN |
|---|---|---|---|
| **KPRL 64-60/LD HF_KA** | box is equipped with screws for mounting in plasterboard and device screws, loosely packed in a carton | 84 | 8595568937674 |

ACCESSORIES



**V 68HF** pg. 25 | **TYP0...** pg. 84 | **PATKA CR+3X..** pg. 82 | **VPTU; VPT 64 Ø 68 mm** pg. 86

material | temperature resistance | self-extinguishing | halogen-free material | IP protection
fire reaction class of underlying material | flaming loop test | package | product with sound attenuation | tools for installation

## KPL 64-../2LD - device box

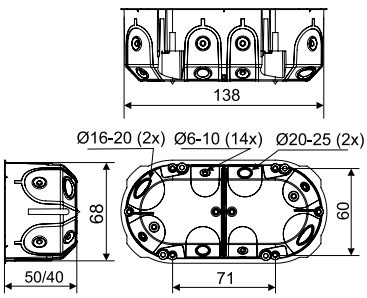


MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB

PVC

montage video

- for modern installations in combined frames
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- two tips on the external side indicate the drilling points
- mounting bolts feature double-threaded design for quick installation
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30
- protection.when mounting, it is not necessary to countersink the plasterboard edge
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| **KPL 64-50/2LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, pack loosely in a box | 40 | 8595568926968 |
| **KPL 64-40/2LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, pack loosely in a box, the box is equipped with a removable outer corner | 50 | 8595568924612 |

ACCESSORIES

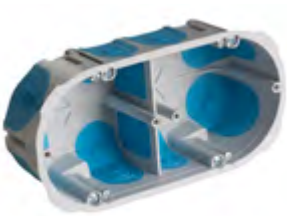

**VKP 64/2L**
pg. 59


**TYP0...**
pg. 84


**PATKA CR+3X..**
pg. 82


**VPTU; VPT 64 Ø 68 mm**
pg. 86

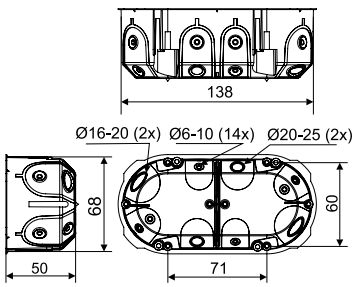
## KPL 64-50/2LD HF - halogen-free device box



MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB | HF

PP

- for premises with increased need for protection of persons and property
- for modern installations in combined frames
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- two tips on the external side indicate the drilling points
- mounting bolts feature double-threaded design for quick installation
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- when mounting, it is not necessary to countersink the plasterboard edge
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| **KPL 64-50/2LD HF_KA** | box is equipped with screws for mounting in plasterboard and device screws, pack loosely in a box | 40 | 8595568937650 |

ACCESSORIES


**TYP0...**
pg. 84


**PATKA CR+3X..**
pg. 82


**VPTU; VPT 64 Ø 68 mm**
pg. 86

material | temperature resistance | self-extinguishing | halogen-free material | IP protection
fire reaction class of underlying material | flaming loop test | package | product with sound attenuation | tools for installation

## KPL 64-../3LD - device box

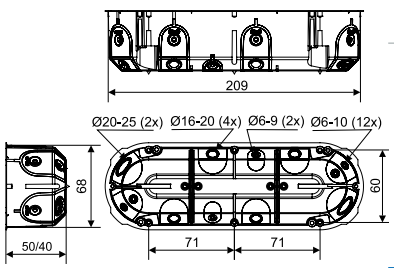


MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB

PVC

montage video

- for modern installations in combined frames
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- three tips on the external side indicate the drilling pointsy
- mounting bolts feature double-threaded design for quick installation
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- when mounting, it is not necessary to countersink the plasterboard edge
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| **KPL 64-50/3LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, loosely packed in a carton | 30 | 8595568927705 |
| **KPL 64-40/3LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, pack loosely in a box, the box is equipped with a removable outer corner | 36 | 8595568932372 |

ACCESSORIES


**TYP0...** pg. 84


**PATKA CR+3X..** pg. 82


**VPTU; VPT 64 Ø 68 mm** pg. 86

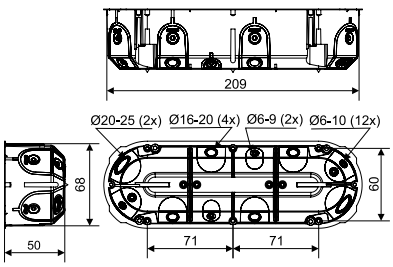
## KPL 64-50/3LD HF - halogen-free device box



MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB | HF

PP

- for premises with increased need for protection of persons and property
- for modern installations in combined frames
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- three tips on the external side indicate the drilling pointsy
- mounting bolts feature double-threaded design for quick installation
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- when mounting, it is not necessary to countersink the plasterboard edge
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| **KPL 64-50/3LD HF_KA** | box is equipped with screws for mounting in plasterboard and device screws, pack loosely in a box | 30 | 8595568937667 |

ACCESSORIES


**TYP0...** pg. 84


**PATKA CR+3X..** pg. 82


**VPTU; VPT 64 Ø 68 mm** pg. 86

material | temperature resistance | self-extinguishing | halogen-free material | IP protection
fire reaction class of underlying material | flaming loop test | package | product with sound attenuation | tools for installation

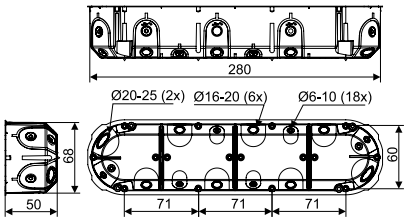
## KPL 64-50/4LD - device box



| MAT | | | | | IP | |
|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB |

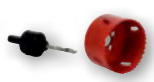
- for modern installations in combined frames
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- four tips on the external side indicate the drilling points
- mounting bolts feature double-threaded design for quick installation
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- when mounting, it is not necessary to countersink the plasterboard edge
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KPL 64-50/4LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, pack loosely in the carton | 25 | 8595568931948 |




ACCESSORIES





**TYP0...** pg. 84 | **PATKA CR+3X..** pg. 82 | **VPTU; VPT 64 Ø 68 mm** pg. 86

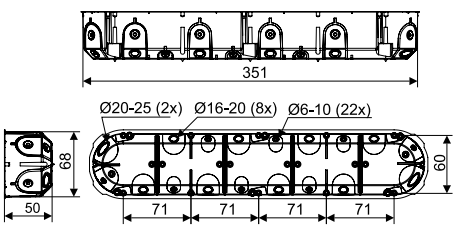
## KPL 64-50/5LD - device box



| MAT | | | | | IP | |
|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB |

- for modern installations in combined frames
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- five tips on the external side indicate the drilling points
- mounting bolts feature double-threaded design for quick installation
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection
- when mounting, it is not necessary to countersink the plasterboard edge
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KPL 64-50/5LD_NA** | box is equipped with screws for mounting in plasterboard and device screws, pack loosely in the carton | 14 | 8595568934246 |




ACCESSORIES





**TYP0...** pg. 84 | **PATKA CR+3X..** pg. 82 | **VPTU; VPT 64 Ø 68 mm** pg. 86

material | temperature resistance | self-extinguishing | IP protection | tools for installation
fire reaction class of underlying material | flaming loop test | package | product with sound attenuation

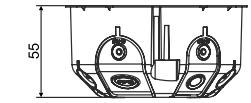
## KO 97/LD - junction box with a cover KO 97 V

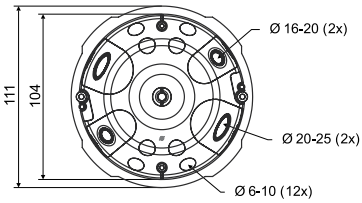


| MAT | | | | | IP | |
|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB |

- sufficient space to create larger electrical installations
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- when mounting, it is not necessary to countersink the plasterboard edge
- mounting bolts feature double-threaded design for quick installation
- European Industrial design protection and European Utility models protection

| item | desc. | | EAN |
|---|---|---|---|
| **KO 97/LD_NA** | the box is equipped with screws for mounting in plasterboard and with the enclosed covers inserted separately into the carton | 72 | 8595568932594 |




ACCESSORIES


SP-96
pg. 83


TYP0...
pg. 84


PATKA CR+3X..
pg. 82


VPTU; VPT 97
Ø 105 mm
pg. 86

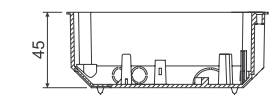
## KO 110/L - junction box with a cover V 110 L and a partition

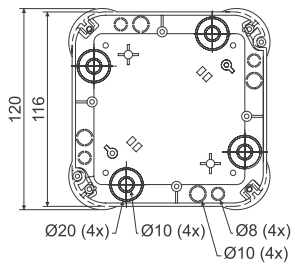


| MAT | | | | | IP |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 |

- the box can be used with an S-96, SP-96 terminal strip or with two S-66 terminal strips, separated by a partition
- possibility to connect two different circuits of up to 400 V separated by a partition
- mounting screws are fitted with a a triple thread for quick installation
- outer side of the bottom contains holes for marking drill holes
- the IP30 protection complys a box fitted with a cover

| item | desc. | | EAN |
|---|---|---|---|
| **KO 110/L_NA** | cover screws inserted together with partition into box, each box with a cover sealed in shrink foil | 1; 28 | 8595057611672 |



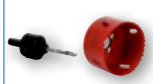




ACCESSORIES


SP-96
pg. 83


TYP0...
pg. 84


MP3-3CH_ZNCR
+ M3X..-3CH
pg. 82


VPTU; VPT 40
Ø 40 mm
pg. 86

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
package
IP protection
product with sound attenuation
tools for installation

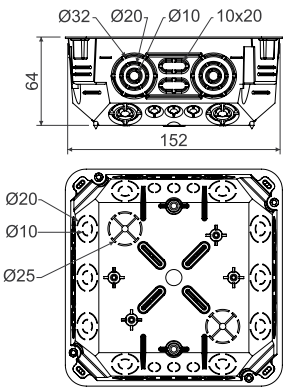
## KO 125/1L - box with a cover V 125/1



MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30

PVC

- possibility to install the support trunking TS35
- possibility to set the cover in and horizontal position
- possibility to break the sidewall for easier cable handling
- outer side of the bottom contains holes for marking drill holes
- mounting screws are fitted with a a triple thread for quick installation
- the IP30 protection complys a box fitted with a cover




| item | desc. | | EAN |
|---|---|---|---|
| KO 125/1L_NA | the screws for fixing the cover and the screws for fixing to plasterboard are installed in the box, individual boxes together with the cover are packed in shrink wrap | 1; 27 | 8595057668652 |

ACCESSORIES


SP-96
pg. 83


EPS 3
pg. 85


TYP0...
pg. 84


TS35
pg. 215


MP3-3CH_ZNCR + M3X..-3CH
pg. 82


VPTU; VPT 40 Ø 40 mm
pg. 86

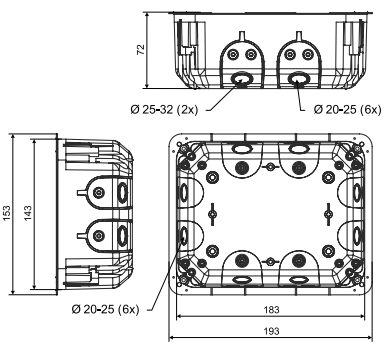
## KO 180/LD - box with a cover V 180



MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | 69 dB

PVC

- possibility to install the support trunking TS35
- outer side of the bottom contains holes for marking drill holes
- possibility of marking the hole for installation using protrusions on the rim of the box
- after tearing out the pre-molded membrane entry and inserting the cable or pipes, airtightness of the penetration and soundproofing with an attenuation of up to 69 dB are ensured
- when mounting, it is not necessary to countersink the plasterboard edge
- the mounting screws are provided with a double thread for quick installation
- European Industrial design protection and European Utility models protection




| item | desc. | | EAN |
|---|---|---|---|
| KO 180/LD_NA | installed mounting screws and feets, inserted stainless steel screws for fixing the cover, individual box together with the cover sealed in shrink foil | 1; 20 | 8595568932600 |

ACCESSORIES


TYP0...
pg. 84


TS35
pg. 215


PATKA CR+3X..
pg. 82


VPTU; VPT 40 Ø 40 mm
pg. 86

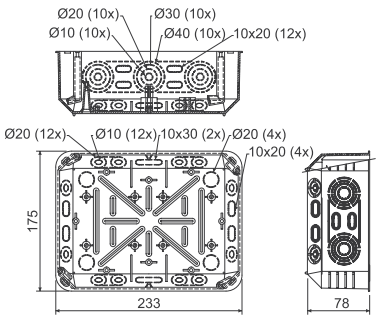
material | temperature resistance | self-extinguishing | IP protection | tools for installation
fire reaction class of underlying material | flaming loop test | package | product with sound attenuation

## KT 250/L - box with a cover VKT 250/L



| MAT | | | | | IP |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 |

- possibility to install the support trunking TS35
- possibility to set the cover in and horizontal position
- possibility to break the sidewall for easier cable handling
- outer side of the bottom contains holes for marking drill holes
- mounting screws are fitted with a a triple thread for quick installation
- the IP30 protection complys a box fitted with a cover




| item | desc. | | EAN |
|---|---|---|---|
| **KT 250/L_NB** | the screws for fixing the cover and the screws for fixing to plasterboard are installed in the box, individual boxes together with the cover are packed in shrink wrap | 1; 12 | 8595057618640 |

ACCESSORIES



**SP-96**
pg. 83



**EPS 3**
pg. 85



**TYP0...**
pg. 84



**TS35**
pg. 215



**MP3-3CH_ZNCR + M3X..-3CH**
pg. 82



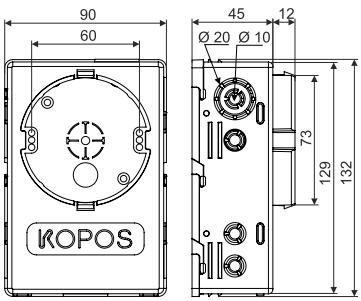
**VPTU; VPT 40 Ø 40 mm**
pg. 86

## KUH 1/L - universal box



| MAT | | | | | | IP |
|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | | IP30 |

- installation on the reverse side of double wall with a thickness of 12.5 mm using the included screws
- more space in the box allows the insertion of active elements under the device
- possibility to insert the terminal S-66 directly under the device
- suitable for modern electrical system with higher space requirements
- the IP30 protection a box fitted with an appropriate cover or a device with a higher or equal IP30 protection




| item | desc. | | EAN |
|---|---|---|---|
| **KUH 1/L_NA** | inserted into each box are installation and device screws, each box is individually wrapped in shrink foil | 1; 35 | 8595057687950 |

ACCESSORIES



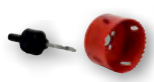
**V 68**
pg. 25



**S-66**
pg. 83



**TYP0...**
pg. 84



**VPTU; VPT 68 Ø 73 mm**
pg. 86

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
package
IP protection
for mounting a double-socket
tools for installation

## Assembling procedures and examples of using the KUH 1/L box

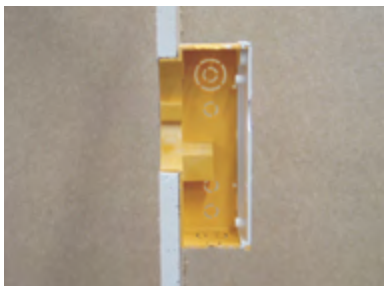
1) Drilling the hole with Ø73.5 mm in the plaster wall by drill VDS 68 (see page pg. 87).



2) Inserting the KUH 1/L box into the prepared hole. Covering the box with the bottom plate.



3) Side view (in sectional view) of box inserted from the back side of the plaster board.



4) Self-drilling screw fastening of the box. Detail of separate space for screw.



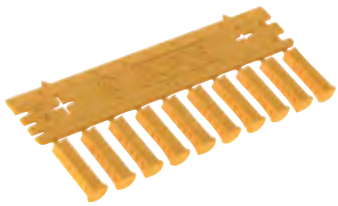
5) Examples of using the box (in sectional view): e.g. inserting of over-voltage protection, clamping by using of screwless terminals, using of the S-66 terminal plate.







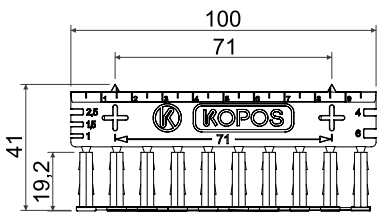
## SKLD 2 - KUL box coupling



| MAT | | | | |
|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. |

- connection piece for KUL 68-45/LD, KPRL 68-70/LD boxes
- 1 pc includes 10 pcs
- the enclosed ruler is used to measure the 71 mm distance
- grooves on a ruler can be used to identify cable cross-sections

| item | desc. | | EAN |
|---|---|---|---|
| **SKLD 2_NB** | packed in 10 pcs of platinum, one tray includes 10 pcs of couplings | 10; 1120 | 8595568930828 |



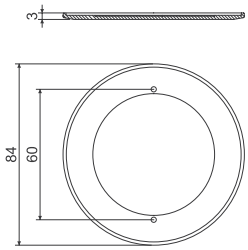





material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
package

## V 68 - cover





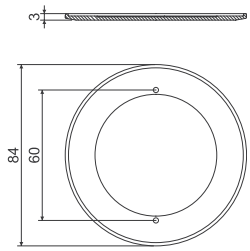

MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

- to cover the boxes with fixing spacing of 60 mm using fastening screws 2.9x13Z
- for boxes: KUL 68-45/LD, KU 68/71 L1, KPRL 68-70/LD, KPR 68/71L, KI 68 L/1, KPL 64-40(45,50)/LD , KPRL 64-60/LD, KUH 1/L

| item | desc. | | EAN |
|---|---|---|---|
| **V 68_HA** | covers are packed in a bag, the bag is put in a carton | 100; 400 | 8595057600577 |

## V 68HF -halogen-free cover





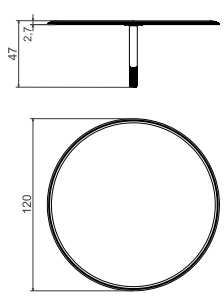

MAT | PC-ABS | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

- for premises with increased need for protection of persons and property
- to cover the boxes with fixing spacing of 60 mm using fastening screws 2.9x13Z

| item | desc. | | EAN |
|---|---|---|---|
| **V 68HF_HB** | covers in a pack of 10 pcs, sealed in shrink foil | 10; 100 | 8595057634114 |

## KO 97 V - cover






MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

- for the final covering of distribution and joint boxes KO 97/5, KR 97/5, KO 97/LD
- the cover is provided with a rim, which allows seamless covering of electrical installation boxes installed under plaster or hollow walls

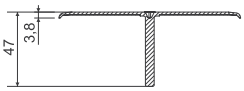
| item | desc. | | EAN |
|---|---|---|---|
| **KO 97 V_HB** | covers are packed in a bag, the bag is put in a carton | 40 | 8595057600546 |

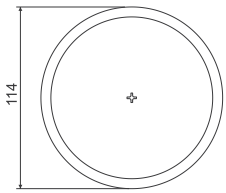
## KO 97 V/1HF - halogen-free cover



MAT | PC-ABS | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

- for premises with increased need for protection of persons and property
- for the final covering of the box KOM 97HF
- the cover is equipped with a rim for seamless covering of electrical installation boxes installed under plaster or for hollow walls




| item | desc. | | EAN |
|---|---|---|---|
| **KO 97 V/1HF_HB** | covers are packed in a bag, the bag is put in a carton | 40 | 8595057633971 |

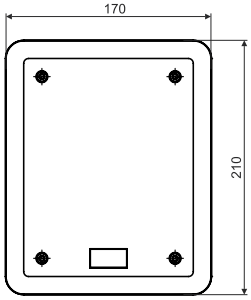
## V 180 - cover for boxes KUZ-V and KUZ-VI



MAT | PC-ABS | -25- +60 | 850°C | A1 - F | 30 sec. | HF

- for final covering of KUZ-V, KUZ-VI and KO 180/LD
- the package includes stainless steel screws for installing the cover and seals to IP44




| item | desc. | | EAN |
|---|---|---|---|
| **V 180_HB** | individual covers wrapped in foil, 25 packaged covers in a carton | 1; 25 | 8595568934000 |

## cover

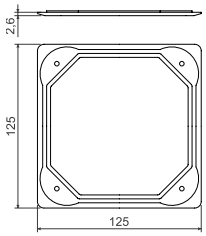


| MAT | | | | |
|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. |

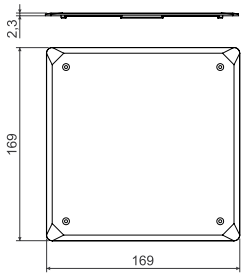
- mounting screws 2.9x13Z must be purchased separately

| item | desc. | | EAN |
|---|---|---|---|
| **V 110 L_HB** | for boxes KO 110/L | 10; 120 | 8595057612129 |
| **V 125/1_HB** | for boxes KO 125 E a KO 125/1L | 10; 180 | 8595057668669 |
| **VKP 64/2L_HB** | for boxes KPL 64-50/2LD | 10; 450 | 8595057655164 |
| **VKT 250/L_HB** | for boxes KT 250/L | 5; 45 | 8595057669147 |

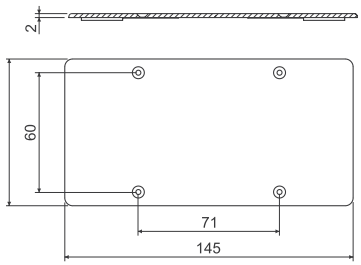
**V 110 L**



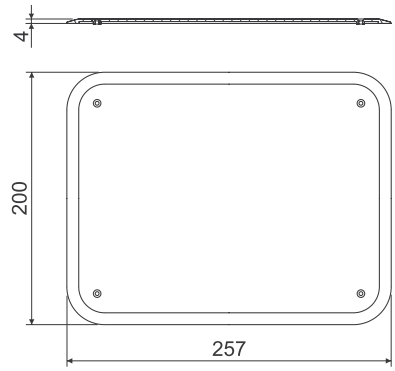

**V 125/1**




VKP 64/2L




VKT 250/L




material
fire reaction class of underlying material
teplotn
flaming loop test
self-extinguishing
package



A SOLUTION FOR EVERY INTERIOR

# CHOOSE YOUR COLOUR

CLICK HERE

All trunking boxes can be found in this catalogue on page 165, or on our website.

www.kopos.com



# WIRING BOXES WITH IP PROTECTION

www.kopos.com

# **WIRING BOXES** - WITH IP PROTECTION

According to standards ČSN EN IEC 60670-1 ed. 2 and ČSN EN 60670-1 - Boxes and complete covers for electrical accessories for home and similar fixed electrical installations.

Material: Self-extinguishing polypropylene (PP) and thermoplastic elastomer (TPE) with temperature resistance of -25 °C to +60 °C are used in the KKD series boxes.
Self-extinguishing polypropylene (PP) and polyamide (PA) with temperature resistance of -25 to +60 °C is used in the KSK series boxes.
Self-extinguishing polypropylene (PP) and polyethylene (PE) with a temperature resistance of -5 °C to +60 °C is used for boxes 8130 and 8135.
An AL alloy with a temperature resistance of -25 to +70 °C is used for boxes 71xx and 72xx.

Boxes meet the requirements of ČSN EN IEC 60670-1 ed.2 Art. 18 regarding resistance to excessive heat and glowing hot-wire ignition at 850 °C (boxes 003.CS.K and 005.CS.K at 750 °C). Beyond these requirements, KSK boxes also undergo a needle-flame test according to ČSN EN 60695-11-5 with satisfactory results.

According to ČSN EN 332312 ed. 2, KOPOS KOLÍN a.s., as the manufacturer, recommends mounting boxes on and in building materials of fire reaction class A1 to F, in accordance with ČSN EN 13501-1, for boxes of the KSK and KKD series.
Boxes 003.CS.K and 005.CS.K can only be used on building materials of fire reaction class A1.
Boxes 71xx and 72xx are suitable for mounting on building materials of fire reaction class A1 to C or D.
In combination with a 5 mm thick thermally insulating non-combustible pad, mounting on building materials can be performed without restriction of fire reaction class A1 – F for boxes 8130, 8135, 003.CS.K, 005.CS.K, 71xx, and 72xx.

In the case of mounting on building materials of fire reaction class A2 to C or D according to ČSN EN 13501-1, the boxes are intended for distribution systems with a voltage up to 400 V and a maximum current of 16 A.
When mounted on building materials of fire reaction class A1 or with a thermally insulating pad, boxes of the KSK and KKD series are intended for distribution systems with a voltage of 1000 V (boxes 8130, 8135, 003.CS.K, 005.CS.K, 71xx, and 72xx for distribution systems with a voltage of 500 V).

The material of the boxes (excluding boxes 8130 and 8135) does not contain halogens. The boxes can be used in environments where there is a higher interest in protecting people and equipment.

CE **All boxes, accessories and terminal plates are in compliance with EU directions.**

All boxes with IP protection are also available on our website.



## KSK 80 - box with IP protection

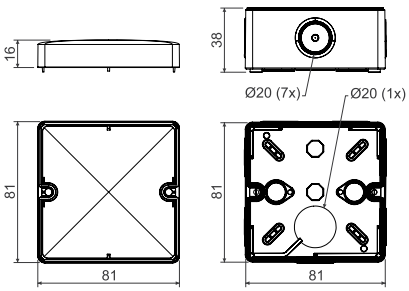


| MAT | | | | | | |
|---|---|---|---|---|---|---|
| PP | -25 - +60°C | 850°C | A1 - F | 30 sec. | IP66 | |

cover - PA

montage video

- made of UV stable material
- integrated passages for mounting on base
- intended for direct installation on the surface without having to support with insulating pad
- option to install special terminal plate (S-KSK 1)
- integrated O-ring to install cable glands
- European Utility models protection




| item | | desc. | | EAN |
|---|---|---|---|---|
| **KSK 80_KA** | light grey RAL 7035 | plugs and cover screwsinserted in the box, each box packed in shrink foil | 1; 60 | 8595568910608 |
| **KSK 80_FA** | black | plugs and cover screwsinserted in the box, each box packed in shrink foil | 1; 60 | 8595568930910 |

ACCESSORIES



| PPK... | S-66 | S-KSK 1 | TYP0... |
|---|---|---|---|
| pg. 67 | pg. 83 | pg. 66 | pg. 84 |

## KSK 100 - box with IP protection

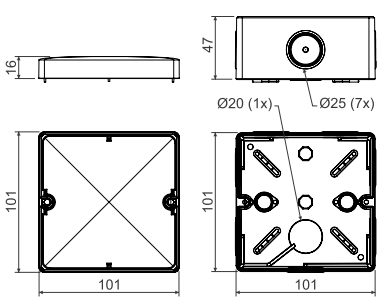


| MAT | | | | | | |
|---|---|---|---|---|---|---|
| PP | -25 - +60°C | 850°C | A1 - F | 30 sec. | IP66 | |

cove - PA

montage video

- made of UV stable material
- integrated passages for mounting on base
- intended for direct installation on the surface without having to support with insulating pad
- option to install special terminal plate (S-KSK 1)
- Integrated O-ring to install cable glands
- a modification of this box is also supplied as fire-resistant, see the catalog page Cable management systems/ Fire resistant systems
- European Utility models protection




| item | | desc. | | EAN |
|---|---|---|---|---|
| **KSK 100_KA** | light grey RAL 7035 | plugs and cover screwsinserted in the box, each box packed in shrink foil | 1; 30 | 8595568910615 |
| **KSK 100_FA** | black | plugs and cover screwsinserted in the box, each box packed in shrink foil | 1; 30 | 8595568930927 |

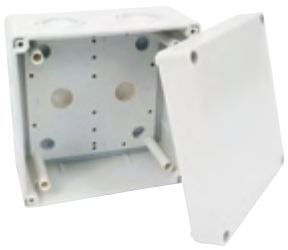
ACCESSORIES



| PPK... | S-66 | S-KSK 1 | TYP0... |
|---|---|---|---|
| pg. 67 | pg. 83 | pg. 66 | pg. 84 |

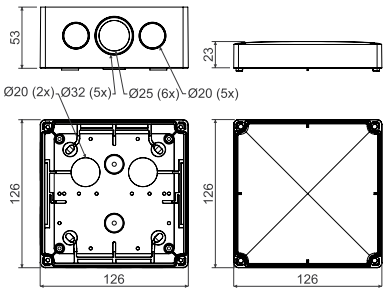
material | temperature resistance | self-extinguishing | halogen-free material | color
fire reaction class of underlying material | flaming loop test | package | IP protection

## KSK 125 - box with IP protection



| MAT | | | | | | |
|---|---|---|---|---|---|---|
| PP | -25 - +60°C | 850°C | A1 - F | 30 sec. | IP66 | |
| cove - PA | | | | | | |

- made of UV stable material
- integrated passages for mounting on base
- intended for direct installation on the surface without having to support with insulating pad
- option to install special terminal plate (S-KSK 2)
- integrated O-ring to install cable glands
- a modification of this box is also supplied as fire-resistant, see the catalog page Cable management systems/ Fire resistant systems
- European Utility models protection



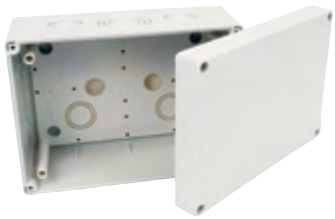

| item | | desc. | | EAN |
|---|---|---|---|---|
| KSK 125_KA | light grey RAL 7035 | plugs and cover screwsinserted in the box, each box packed in shrink foil | 1; 36 | 8595568919670 |

ACCESSORIES



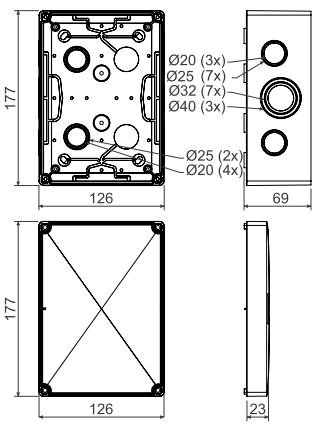
| PPK... | SP-96 | S-KSK 2 | TYP0... | TS35 |
|---|---|---|---|---|
| pg. 67 | pg. 83 | pg. 66 | pg. 84 | pg. 215 |

## KSK 175 - box with IP protection



| MAT | | | | | | |
|---|---|---|---|---|---|---|
| PP | -25 - +60°C | 850°C | A1 - F | 30 sec. | IP66 | |
| cove - PA | | | | | | |

- made of UV stable material
- integrated passages for mounting on base
- intended for direct installation on the surface without having to support with insulating pad
- option to install special terminal plate (S-KSK 2)
- integrated O-ring to install cable glands
- a modification of this box is also supplied as fire-resistant, see the catalog page Cable management systems/ Fire resistant systems
- European Utility models protecton



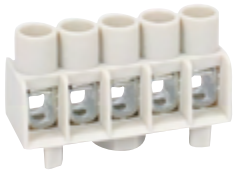

| item | | desc. | | EAN |
|---|---|---|---|---|
| KSK 175_KA | light grey RAL 7035 | plugs and cover screwsinserted in the box, each box packed in shrink foil | 1; 22 | 8595568919687 |

ACCESSORIES



| PPK... | SP-96 | S-KSK 2 | TYP0... | TS35 |
|---|---|---|---|---|
| pg. 67 | pg. 83 | pg. 66 | pg. 84 | pg. 215 |

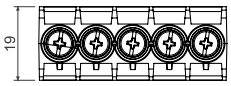
## S-KSK 1 - terminal plate

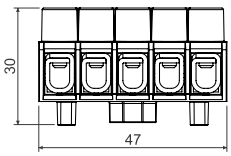


| MAT | | | | | |
|---|---|---|---|---|---|
| PP | -40 - +85°C | 850°C | A1 - F | 30 sec. | HF |

- suitable for boxes KSK 80 and KSK 100
- branching terminal plate are composed of five separate terminals
- each terminal is intended for 4 wires of cross section 1.5 – 2.5 mm² or 3 wires of cross section 4 mm²
- enables easy assembly to the box bottom
- designed for maximum voltage of 500 V
- tested according to ČSN EN 60998-1

| item | desc. | | EAN |
|---|---|---|---|
| **S-KSK 1_KB** | 10 pcs of terminal plates are packed in shrink wrap | 10; 460 | 8595568919656 |

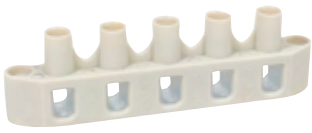






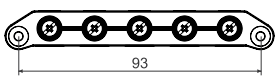

## S-KSK 2 - terminal plate

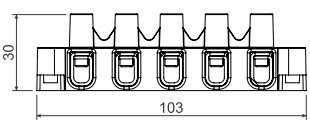


| MAT | | | | | |
|---|---|---|---|---|---|
| PP | -40 - +85°C | 850°C | A1 - F | 30 sec. | HF |

- suitable for boxes KSK 125 and KSK 175
- branching terminal plate are composed of five separate terminals
- each terminal is intended for 4 wires of cross section 2.5 – 4 mm² or 3 wires of cross section 6 mm²
- allows mounting to posts inside boxes or to the box bottom – installation is done using screws that are included
- designed for maximum voltage of 500 V
- tested according to ČSN EN 60998-1

| item | desc. | | EAN |
|---|---|---|---|
| **S-KSK 2_KB** | 10 pcs of terminal plates are packed in shrink wrap | 10; 200 | 8595568919663 |





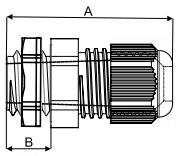

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
package
halogen-free material

## **PPK...** - sealing grommet



MAT PA 66, TPE | -40 - +85°C | IP68 | HF

- gland with metric thread
- including fastening nut and rubber seal
- increased resistance to loosening
- optimal cable strain relief
- large variable sealing range




| item | | desc. | A (mm) | B (mm) | cable diameter | weight (g) | | EAN |
|---|---|---|---|---|---|---|---|---|
| **PPK 16E_KA** | light grey | sealing grommet for cables M16 | 43 | 15,5 | 5-10 | 11 | 50 | 8595568945884 |
| **PPK 20_KA** | light grey | sealing grommet for cables M20 | 48 | 15 | 10-14 | 16 | 50 | 8595568945891 |
| **PPK 25_KA** | light grey | sealing grommet for cables M25 | 51 | 15 | 13-18 | 26 | 50 | 8595568945907 |
| **PPK 32_KA** | light grey | sealing grommet for cables M32 | 53 | 15 | 18-25 | 43 | 25 | 8595568945914 |
| **PPK 40_KA** | light grey | sealing grommet for cables M40 | 60 | 18 | 22-32 | 78 | 10 | 8595568945921 |
| **PPK 16E_FA** | black | sealing grommet for cables M16 | 43 | 15,5 | 5-10 | 11 | 50 | 8595568945938 |
| **PPK 20_FA** | black | sealing grommet for cables M20 | 48 | 15 | 10-14 | 16 | 50 | 8595568945945 |
| **PPK 25_FA** | black | sealing grommet for cables M25 | 51 | 15 | 13-18 | 26 | 50 | 8595568945952 |
| **PPK 32_FA** | black | sealing grommet for cables M32 | 53 | 15 | 18-25 | 43 | 25 | 8595568945969 |
| **PPK 40_FA** | black | Sealing grommet for cables M40 | 60 | 18 | 22-32 | 78 | 10 | 8595568945976 |

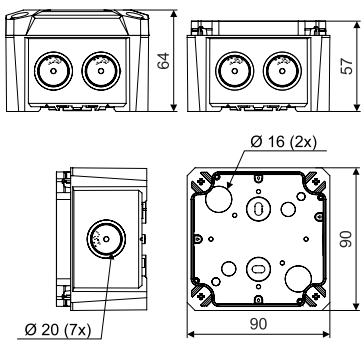

NEW BOXES
DIAMOND®
www.kopos.com

## KKD 90 - KOPOS DIAMOND box



| MAT | | | | IP | IK | HF |
|---|---|---|---|---|---|---|
| PP, TPE | -25 - +60°C | 850°C | A1 - F | IP66 | IK07 | |

- box designed for distribution systems with voltages up to 1000 V
- made of UV-resistant material
- integrated seal in the openings for mounting to the base material
- perfect sealing of cables and pipes
- 7x passage in the wall Ø20 mm, 2x passage in the bottom Ø16 mm
- designed for direct installation on the surface without the need for an insulating pad
- a cover fixed with bayones
- possibility of placing a seal on a closed box




| item | | desc. | | EAN |
|---|---|---|---|---|
| **KKD 90_KA** | light grey RAL 7035 | sealing plugs, external handle of the box and string to hold the cover are inserted into the box, the box is covered with a cover, wrapped in foil | 1; 45 | 8595568944993 |

ACCESSORIES


TS KKD...
pg. 73


PPK...
pg. 72

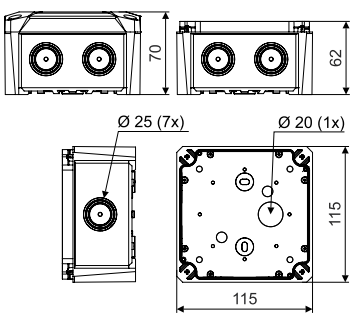

TYP0...
pg. 84

## KKD 115 - KOPOS DIAMOND box



| MAT | | | | IP | IK | HF |
|---|---|---|---|---|---|---|
| PP, TPE | -25 - +60°C | 850°C | A1 - F | IP66 | IK07 | |

- box designed for distribution systems with voltages up to 1000 V
- made of UV-resistant material
- integrated seal in the openings for mounting to the base material
- perfect sealing of cables and pipes
- 7x passage in the wall max. Ø25 mm, 1x passage in the bottom max. Ø20 mm
- designed for direct installation on the surface without the need for an insulating pad
- a cover fixed with bayones
- possibility of placing a seal on a closed box




| item | | desc. | | EAN |
|---|---|---|---|---|
| **KKD 115_KA** | light grey RAL 7035 | sealing plugs, external handle of the box and string to hold the cover are inserted into the box, the box is covered with a cover, wrapped in foil | 1; 24 | 8595568945006 |

ACCESSORIES


TS KKD...
pg. 73


PPK...
pg. 72


TYP0...
pg. 84

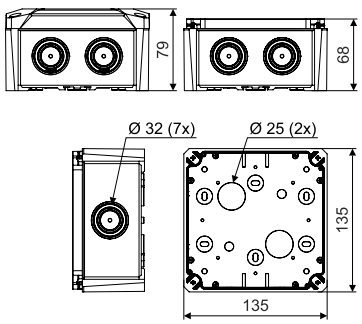
material
fire reaction class of underlying material
temperature resistance
flaming loop test
mechanical protection
package
IP protection
color
halogen-free material

## KKD 135 - KOPOS DIAMOND box



| MAT | | | | IP | IK | HF |
|---|---|---|---|---|---|---|
| PP, TPE | -25 - +60°C | 850°C | A1 - F | IP66 | IK07 | |

- box designed for distribution systems with voltages up to 1000 V
- made of UV-resistant material
- integrated seal in the openings for mounting to the base material
- perfect sealing of cables and pipes
- 7x passage in the wall max. Ø32 mm, 2x passage in the bottom max. Ø25 mm
- designed for direct installation on the surface without the need for an insulating pad
- a cover fixed with bayones
- possibility of placing a seal on a closed box




| item | | desc. | | EAN |
|---|---|---|---|---|
| KKD 135_KA | light grey RAL 7035 | sealing plugs, external handle of the box and string to hold the cover are inserted into the box, the box is covered with a cover, wrapped in foil | 1; 14 | 8595568945013 |

ACCESSORIES


TS KKD...
pg. 73


PPK...
pg. 72

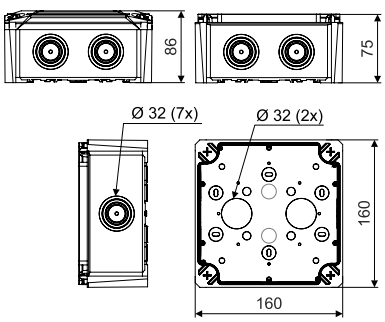

TYP0...
pg. 84

## KKD 160 - KOPOS DIAMOND box



| MAT | | | | IP | IK | HF |
|---|---|---|---|---|---|---|
| PP, TPE | -25 - +60°C | 850°C | A1 - F | IP66 | IK07 | |

- box designed for distribution systems with voltages up to 1000 V
- made of UV-resistant material
- iintegrated seal in the openings for mounting to the base material
- perfect sealing of cables and pipes
- 7x passage in the wall max. Ø32 mm, 2x passage in the bottom max. Ø32 mm
- designed for direct installation on the surface without the need for an insulating pad
- a cover fixed with bayones
- possibility of placing a seal on a closed box




| item | | desc. | | EAN |
|---|---|---|---|---|
| KKD 160_KA | light grey RAL 7035 | sealing plugs, external handle of the box and string to hold the cover are inserted into the box, the box is covered with a cover, wrapped in foil | 1; 9 | 8595568945020 |

ACCESSORIES


TS KKD...
pg. 73


PPK...
pg. 72


TYP0...
pg. 84

material
fire reaction class of underlying material
temperature resistance
flaming loop test
mechanical protection
package
IP protection
color
halogen-free material

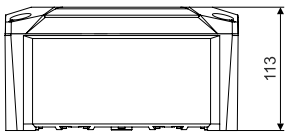
## KKD 200 - KOPOS DIAMOND box

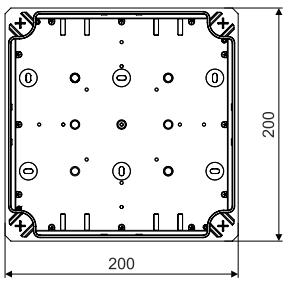


MAT | -25 - +60°C | 850°C | A1 - F | IP66 | IK07 | HF

PP, TPE

- box designed for distribution systems with voltages up to 1000 V
- made of UV-resistant material
- solid walls without pre-marked entries, suitable for using PPK.. sealing grommet (pg. 72)
- designed for direct installation on the surface without the need for an insulating pad
- a cover fixed with bayones
- possibility of placing a seal on a closed box




| item | | desc. | | EAN |
|---|---|---|---|---|
| **KKD 200_KA** | light grey RAL 7035 | sealing plugs, external handle of the box and string to hold the cover are inserted into the box, the box is covered with a cover, wrapped in foil | 1; 8 | 8595568945037 |

ACCESSORIES


TS KKD...
pg. 73


PPK...
pg. 72


TYP0...
pg. 84

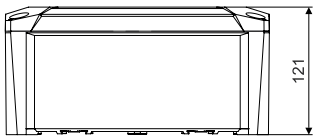
## KKD 250 - KOPOS DIAMOND box

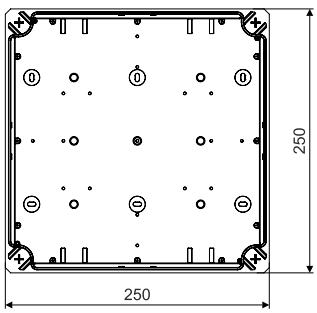


MAT | -25 - +60°C | 850°C | A1 - F | IP66 | IK07 | HF

PP, TPE

- box designed for distribution systems with voltages up to 1000 V
- made of UV-resistant material
- solid walls without pre-marked entries, suitable for using PPK.. sealing grommet (pg. 72)
- designed for direct installation on the surface without the need for an insulating pad
- a cover fixed with bayones
- possibility of placing a seal on a closed box
- on sale in the second half of 2026




| item | | desc. | | EAN |
|---|---|---|---|---|
| **KKD 250_KA** | light grey RAL 7035 | sealing plugs, external handle of the box and string to hold the cover are inserted into the box, the box is covered with a cover, wrapped in foil | 1; 6 | 8595568945044 |

ACCESSORIES


TS KKD...
pg. 73


PPK...
pg. 72


TYP0...
pg. 84

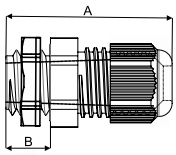
material | temperature resistance | mechanical protection | IP protection | halogen-free material
fire reaction class of underlying material | flaming loop test | package | color

## **PPK...** - sealing grommet



MAT PA 66, TPE | -40 - +85°C | IP68 | HF

- gland with metric thread
- including fastening nut and rubber seal
- increased resistance to loosening
- optimal cable strain relief
- large variable sealing range




| item | | desc. | A (mm) | B (mm) | cable diameter | weight (g) | | EAN |
|---|---|---|---|---|---|---|---|---|
| **PPK 16E_KA** | light grey | sealing grommet for cables M16 | 43 | 15,5 | 5-10 | 11 | 50 | 8595568945884 |
| **PPK 20_KA** | light grey | sealing grommet for cables M20 | 48 | 15 | 10-14 | 16 | 50 | 8595568945891 |
| **PPK 25_KA** | light grey | sealing grommet for cables M25 | 51 | 15 | 13-18 | 26 | 50 | 8595568945907 |
| **PPK 32_KA** | light grey | sealing grommet for cables M32 | 53 | 15 | 18-25 | 43 | 25 | 8595568945914 |
| **PPK 40_KA** | light grey | sealing grommet for cables M40 | 60 | 18 | 22-32 | 78 | 10 | 8595568945921 |
| **PPK 16E_FA** | black | sealing grommet for cables M16 | 43 | 15,5 | 5-10 | 11 | 50 | 8595568945938 |
| **PPK 20_FA** | black | sealing grommet for cables M20 | 48 | 15 | 10-14 | 16 | 50 | 8595568945945 |
| **PPK 25_FA** | black | sealing grommet for cables M25 | 51 | 15 | 13-18 | 26 | 50 | 8595568945952 |
| **PPK 32_FA** | black | sealing grommet for cables M32 | 53 | 15 | 18-25 | 43 | 25 | 8595568945969 |
| **PPK 40_FA** | black | Sealing grommet for cables M40 | 60 | 18 | 22-32 | 78 | 10 | 8595568945976 |

## TS KKD... - metal support rail



MAT steel

1mm

- intended for attaching devices to KKD electrical installation boxes
- for attaching rails, screws 3.9x6.5 must be used

| item | desc. | surface finish | mm | EAN |
|---|---|---|---|---|
| **TS KKD 90_S** | holes for direct attachment to the box KKD 90 | Sendzimir | 35x7,5x70 | 8595568949578 |
| **TS KKD 115_S** | holes for direct attachment to the box KKD 115 | | 35x7,5x95 | 8595568949585 |
| **TS KKD 135_S** | holes for direct attachment to the box KKD 135 | | 35x7,5x115 | 8595568949592 |
| **TS KKD 160_S** | holes for direct attachment to the box KKD 160 | | 35x7,5x135 | 8595568949608 |
| **TS KKD 200_S** | holes for direct attachment to the box KKD 200 | | 35x7,5x170 | 8595568949615 |
| **TS KKD 250_S** | holes for direct attachment to the box KKD 250 | | 35x7,5x220 | 8595568949622 |

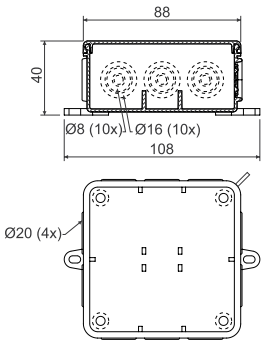
## 8130 - box



| MAT | MAT | | | | | IP | IK |
|---|---|---|---|---|---|---|---|
| PP cover | PE body | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP54 | IK06 |

- for installation in environments with increased humidity and dust
- inlets for cables or pipes of 16 and 20 mm in accordance with EN 60423
- possibility to install on materials of fire classes A1 to D

| item | | desc. | | EAN |
|---|---|---|---|---|
| **8130_HA** | white RAL 9003 | boxes packed loosely in cardboards | 1; 60 | 8595057697300 |
| **8130_KA** | light grey RAL 7035 | boxes packed loosely in cardboards | 1; 60 | 8595057619050 |




ACCESSORIES



TYP.. pg. 84 | TYP0... pg. 84

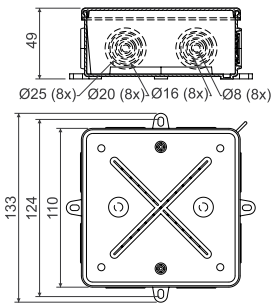
## 8135 - box



| MAT | MAT | | | | | IP | IK |
|---|---|---|---|---|---|---|---|
| PP cover | PE body | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP54 | IK06 |

- for installation in environments with increased humidity and dust
- inlets for cables or pipes of 16, 20 and 25 mm in accordance with EN 60423
- possibility to install on materials of fire classes A1 to D

| item | | desc. | | EAN |
|---|---|---|---|---|
| **8135_HA** | white RAL 9003 | boxes packed loosely in cardboards | 1; 30 | 8595057697317 |
| **8135_KA** | light grey RAL 7035 | boxes packed loosely in cardboards | 1; 30 | 8595057616493 |




ACCESSORIES



SP-96 pg. 83 | TYP.. pg. 84 | TYP0... pg. 84

material | temperature resistance | self-extinguishing | IP protection | mechanical protection
fire reaction class of underlying material | flaming loop test | package | color

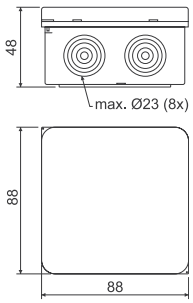
## **003.CS.K** - box with IP protection



MAT PP cover | MAT PE body | -25 - +60 | 750°C | A1 | IP65 | HF

- equipped with an eyelet for sealing
- to install on materials with fire classes A2-D, use a thermally insulating pad
- 8x passages with max. Ø 23 mm

| item | | desc. | | EAN |
|---|---|---|---|---|
| **003.CS.K_KB** | light grey RAL 7035 | boxes packed loosely in cardboards | 1; 66 | 8595057624658 |




ACCESSORIES



**TYP0...**
pg. 84

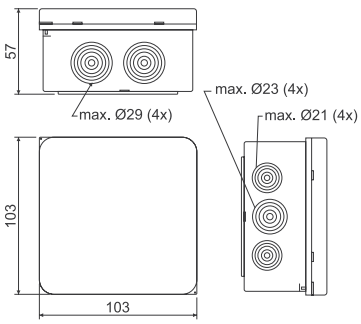
## **005.CS.K** - box with IP protection



MAT PP cover | MAT PE body | -25 - +60 | 750°C | A1 | IP65 | HF

- equipped with an eyelet for sealing
- to install on materials with fire classes A2-D, use a thermally insulating pad
- 12 inlets - 4x passages with Ø 21 mm; 4x passages with Ø 23 mm; 4x passages with Ø 29 mm

| item | | desc. | | EAN |
|---|---|---|---|---|
| **005.CS.K_KB** | light grey RAL 7035 | boxes packed loosely in cardboards | 1; 30 | 8595057624665 |




ACCESSORIES



**TYP0...**
pg. 84

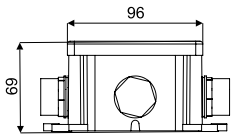
## **7116 B** - box with a cover and a protective terminal
## **7116 C** - box with a cover

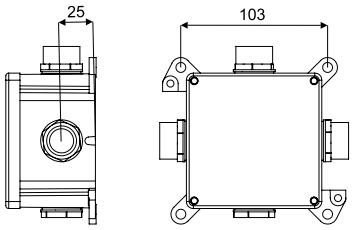


| MAT | | | IP | IK |
|---|---|---|---|---|
| AL | -25 - +70°C | A1 - D | IP54 | IK10 |

- boxes for wiring with steel threaded or metal flexible pipes
- three glands and one plug evenly placed on the sides of the box
- terminal plate is not included in the box
- 7116 B: fitted with a clamp for installation in TNS networks
- 7116 C: without a protective terminal for installation in TNC nets

| item | desc. | | EAN |
|---|---|---|---|
| **7116 B_P16** | glands for threaded pipes P16 | 1; 12 | 8595057604124 |
| **7116 B_M20** | glands for threaded pipes M20 | 1; 12 | 8595057689527 |
| **7116 C_P16** | glands for threaded pipes P16 | 1; 12 | 8595057604131 |
| **7116 C_M20** | glands for threaded pipes M20 | 1; 12 | 8595057689534 |




ACCESSORIES



P-16
pg. 78



TYP0...
pg. 84

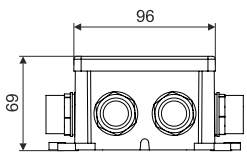
## **7216 B** - box with a cover and a protective terminal
## **7216 C** - box with a cover

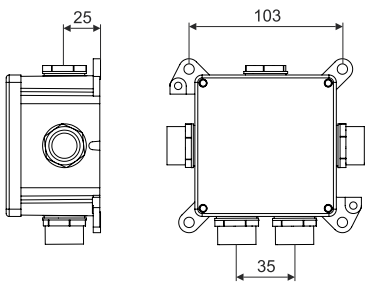


| MAT | | | IP | IK |
|---|---|---|---|---|
| AL | -25 - +70°C | A1 - D | IP54 | IK10 |

- boxes for wiring with steel threaded or metal flexible pipes
- four glands and one plug evenly placed on the sides of the box
- terminal plate is not included in the box
- 7216 B: fitted with a clamp for installation in TNS networks
- 7216 C: without a protective terminal for installation in TNC nets

| item | desc. | | EAN |
|---|---|---|---|
| **7216 B_P16** | glands for threaded pipes P16 | 1; 12 | 8595057604186 |
| **7216 B_M20** | glands for threaded pipes M20 | 1; 12 | 8595057689541 |
| **7216 C_P16** | glands for threaded pipes P16 | 1; 12 | 8595057604193 |
| **7216 C_M20** | glands for threaded pipes M20 | 1; 12 | 8595057689558 |




ACCESSORIES



P-16
pg. 78



TYP0...
pg. 84

material
fire reaction class of underlying material
temperature resistance
mechanical protection
IP protection
package

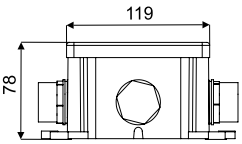
## **7121 B** - box with a cover and a protective terminal
## **7121 C** - box with a cover

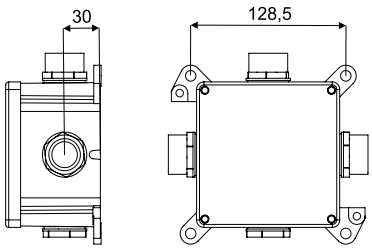


MAT AL | -25 - +70°C | A1 - D | IP54 | IK10

- boxes for wiring with steel threaded or metal flexible pipes
- three glands and one plug evenly placed on the sides of the box
- terminal plate is not included in the box
- 7121 B: fitted with a clamp for installation in TNS networks
- 7121 C: without a protective terminal for installation in TNC nets

| item | desc. | | EAN |
|---|---|---|---|
| **7121 B_P21** | glands for threaded pipes P21 | 1; 12 | 8595057604155 |
| **7121 B_M25** | glands for threaded pipes M25 | 1; 12 | 8595057689565 |
| **7121 C_P21** | glands for threaded pipes P21 | 1; 12 | 8595057604162 |
| **7121 C_M25** | glands for threaded pipes M25 | 1; 12 | 8595057689572 |




ACCESSORIES



**P-16**
pg. 78



**TYP0...**
pg. 84

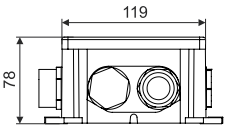
## **7221 B** - box with a cover and a protective terminal
## **7221 C** - box with a cover

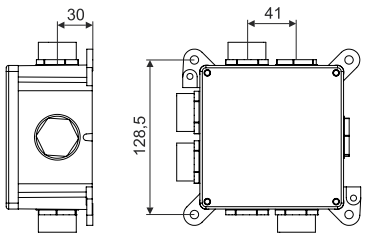


MAT AL | -25 - +70°C | A1 - D | IP54 | IK10

- boxes for wiring with steel threaded or metal flexible pipes
- four glands and three plugs evenly placed on the sides of the box
- terminal plate is not included in the box
- 7221 B: fitted with a clamp for installation in TNS networks
- 7221 C: without a protective terminal for installation in TNC nets

| item | desc. | | EAN |
|---|---|---|---|
| **7221 B_P21** | glands for threaded pipes P21 | 1; 12 | 8595057604216 |
| **7221 B_M25** | glands for threaded pipes M25 | 1; 12 | 8595057689589 |
| **7221 C_P21** | glands for threaded pipes P21 | 1; 12 | 8595057604223 |




ACCESSORIES



**P-16**
pg. 78



**TYP0...**
pg. 84

material | temperature resistance | IP protection
fire reaction class of underlying material | mechanical protection | package

## P-16; P-21 - sealing cork



MAT AL

-25 - +70°C

- P-16: to seal unused inlets of metal boxes 7116 and 7216
- P-21: to seal unused inlets of metal boxes 7121 and 7221

| item | desc. | | EAN |
|---|---|---|---|
| **P-16_XX** | plug with armoured P16 thread and seal | 10; 500 | 8595057632660 |
| **P-21_XX** | plug with armoured P21 thread and seal | 10; 400 | 8595057632677 |



# ACCESSORIES

## FOR WIRING BOXES

www.kopos.com

# **WIRING BOXES** - ACCESSORIES

In accordance with the standards ČSN EN IEC 60670-1, 2nd edition, and ČSN EN 60670-1—Boxes and complete enclosures for electrical accessories for house and similar fixed electrical installations.

Terminal plates are resistant to excessive heat and burning in compliance with ČSN EN 60998-1:97 and ČSN EN 60998-2-1:97, and passed the flaming loop test 850 °C.

CE **All boxes, accessories and terminal plates are in compliance with EU directions.**

All accessories for electrical installation boxes are also available on our website.





## Fixing material for wiring boxes


MP3-3CH


PATKA CR


3X20V-2CH


3X35V-2CH


2.9X13Z


M3X..-3CH


2.9X...
3.0X16

- fixing material used for wiring boxes

| item | desc. | | EAN |
|---|---|---|---|
| **2.9X13V_ZNCR** | for mounting boxes KU, KP, semicircular head with cross groove | 50; 4000 | 8595057619371 |
| **2.9X13Z_ZNCR** | for mounting the covers eg V 68 V 68, countersunk head with cross groove | 50; 4000 | 8595057619388 |
| **2.9X16_ZNCR** | for mounting terminal plates S-66, S-96, SP-96 | 50; 3000 | 8595057619395 |
| **2.9X22_ZNCR** | for mounting extension frames NRT, NR 2ZT, NR 80/R | 50; 2500 | 8595057619401 |
| **3.0X16_ZNCR** | for mounting devices into wiring boxes into concrete | 50; 3000 | 8595057619418 |
| **M3X40-3CH_ZNCR** | for mounting boxes into hollow walls, a triple thread significantly accelerates the mounting of the box | 50; 1000 | 8595057651470 |
| **M3X45-3CH_ZNCR** | for mounting hollow wall boxes KPRL 68/71L, a triple thread significantly accelerates the mounting of boxes | 50; 1000 | 8595057651487 |
| **MP3-3CH_ZNCR** | metal foot for mounting hollow wall boxes, a triple thread significantly accelerates the mounting of the box, foot shape ensures a firm fit in drywall | 50; 3000 | 8595057651494 |
| **PATKA CR_KA** | plastic flap into boxes into hollow walls | 50; 1800 | 8595568930996 |
| **3X20V-2CH_ZNCR** | device screw in membrane boxes into hollow walls and boxes under parget | 50; 2100 | 8595568930972 |
| **3X35V-2CH_ZNCR** | mounting bolt into membrane boxes into hollow walls | 50; 1500 | 8595568930989 |

package

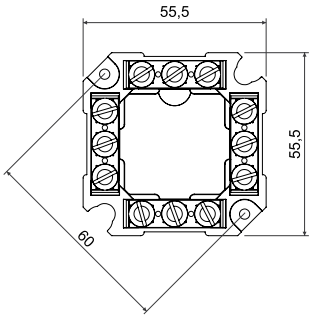
## S-66 - terminal plate



MAT | -30 - +105°C | 850°C | A1 - F | 30 sec. | HF

PA

- intended to universal distribution and device boxes with fixing spacing of 60 mm ( E.g. LK… etc.)
- four separate fields for connecting up to three conductors of up to 4 mm² in diameter
- for voltages of up to 500 V




| item | desc. | | EAN |
|---|---|---|---|
| **S-66_FB** | packed in shrink foil | 10; 160 | 8595057614734 |

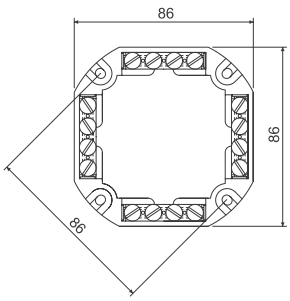
## S-96 - terminal plate



MAT | -30 - +105°C | 850°C | A1 - F | 30 sec. | HF

PA

- intended into distribution boxes with fixing spacing of 86 mm (KR 97, KR 97/5)
- four separate fields for connecting up to four conductors of up to 4 mm² in diameter
- for voltages of up to 500 V




| item | desc. | | EAN |
|---|---|---|---|
| **S-96_FB** | packed in shrink foil | 10; 120 | 8595057614741 |

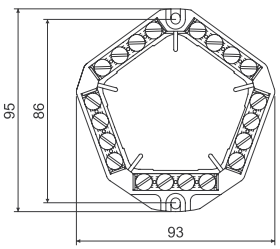
## SP-96 - terminal plate



MAT | -30 - +105°C | 850°C | A1 - F | 30 sec. | HF

PA

- intended into distribution boxes with fixing spacing of 86 mm (KR 97, KR 97/5, KO 97/LD)
- five separate fields for connecting up to four conductors of up to 4 mm² in diameter
- for voltages of up to 500 V




| item | desc. | | EAN |
|---|---|---|---|
| **SP-96_FB** | packed in shrink foil | 10; 180 | 8595057614758 |

material | temperature resistance | halogen-free material | self-extinguishing
fire reaction class of underlying material | flaming loop test | package

## TYP... - mutlipolar terminal plate



-30 - +105°C | 850°C | A1 - F | 30 sec.

| item | | desc. | MAT | mm | pcs | mm² | V | A | | EAN |
|---|---|---|---|---|---|---|---|---|---|---|
| TYP210_FA | ● black | packed in cardboards | PP | 12 x 16 x 95 | 12 | 2,5 | 450 | 24 | 100 | 8595057613539 |
| TYP210_HA | ○ white | packed in cardboards | PA6 | | | | | | 100 | 8595057614321 |
| TYP310_FA | ● black | packed in cardboards | PP | 17 x 18 x 107 | 12 | 4 | 450 | 32 | 100 | 8595057613553 |
| TYP310_HA | ○ white | packed in cardboards | PA6 | | | | | | 100 | 8595057614345 |
| TYP412_FA | ● black | packed in cardboards | PP | 17 x 19 x 119 | 12 | 6 | 450 | 41 | 100 | 8595057613577 |
| TYP412_HA | ○ white | packed in cardboards | PA6 | | | | | | 100 | 8595057614369 |
| TYP512_FA | ● black | packed in cardboards | PP | 21 x 21 x 142 | 12 | 10 | 750 | 57 | 100 | 8595057613591 |
| TYP512_HA | ○ white | packed in cardboards | PA6 | | | | | | 100 | 8595057614383 |
| TYP612_FA | ● black | packed in cardboards | PP | 22 x 22 x 154 | 12 | 16 | 750 | 76 | 50 | 8595057613607 |
| TYP612_HA | ○ white | packed in cardboards | PA6 | | | | | | 50 | 8595057614390 |

## TYP0... - screwless terminal plate



MAT | PC/PA 66 | -30 - +105°C | 30 sec.

- maximum working load of 24 A
- terminals are intended for full Cu conductors
- for wires with cross-section from 1.0 mm² to 2.5 mm²
- for voltages of up to 450 V
- colour-coding stripe

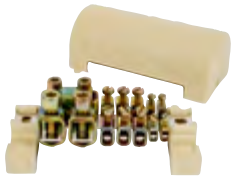
| item | | mm | pcs | mm² | | EAN |
|---|---|---|---|---|---|---|
| TYP015_XX | ● grey/transparent | 21,1 x 9,5 x 19,3 | 5 | 1,0 - 2,5 | 100 | 8595057613614 |
| TYP016_XX | ● orange/transparent | 13,8 x 9,5 x 19,3 | 3 | 1,0 - 2,5 | 100 | 8595057613621 |
| TYP017_XX | ● red/transparent | 10,5 x 9,5 x 19,3 | 2 | 1,0 - 2,5 | 100 | 8595057613638 |
| TYP018_XX | ● yellow/transparent | 17,6 x 9,5 x 19,3 | 4 | 1,0 - 2,5 | 100 | 8595057613645 |

## EPS 2 - equipotential terminal plate

without cover



with cover



| MAT | | | | |
|---|---|---|---|---|
| PA6 | -30 - +105°C | 850°C | A1 - F | 30 sec. |

- used for main connection according to ČSN 1-35 2000-4-41
- use only for bonding the zero potential, cannot be used as a phase connection etc.
- can be used in the box KO 125 E - the box is specially adapted for mounting
- possibility to install also in boxes KT 250/1 and KT 250/L

| item | desc. | max. dimension (mm) | pcs | mm² | | EAN |
|---|---|---|---|---|---|---|
| **EPS 2_XX** | without cover | 126 x 60 x 50 (62 at unscrewed screws)) | 4<br>6<br>2<br>1 | 2,5 - 6<br>4 - 16<br>10 - 95<br>30 x 4 (belt) | 1 | 8595057618374 |
| **EPS 2_X1** | with cover | | | | 1 | 8595057687806 |

## EPS 3 - equipotential terminal plate



| MAT | | | | |
|---|---|---|---|---|
| PA6 | -25 - +55°C | 850°C | A1 - F | 30 sec. |

- used for main connection according to ČSN 1-35 2000-4-41
- use only for bonding the zero potential, cannot be used as a phase connection etc.
- usable for the KO 100 E box and larger boxes

| item | desc. | max. dimension (mm) | pcs | mm² | | EAN |
|---|---|---|---|---|---|---|
| **EPS 3_XX** | without cover | 104 x 60 x 40 (48 at unscrewed screws) | 8<br>6 | 0,75 - 10<br>1,5 - 16 | 1 | 8595057668676 |

material
fire reaction class of underlying material
temperature resistance
flaming loop test
package
dimensions - width, height, depth
number of conductors x diameter (mm2), load-current capacity (A)
self-extinguishing

## VPTU - universal carrier



- in combination with other components, it is used for drill assembly
- minimum diameter of chuck and of drilling machine is 11 mm

| item | mm | | EAN |
|---|---|---|---|
| **VPTU_XX** | 6 | 1 | 8595057616141 |

## VPT... - saw-drill



- designed for precise holes for mounting boxes into hollow walls made of drywall
- drill size is designed for specific types of boxes

| item | mm | | EAN |
|---|---|---|---|
| **VPT 40_XX** | 40 | 1 | 8595057616097 |
| **VPT 64_XX** | 68 | 1 | 8595057616103 |
| **VPT 68_XX** | 73 | 1 | 8595057616110 |
| **VPT 79_XX** | 79,5 | 1 | 8595057616127 |
| **VPT 97_XX** | 105 | 1 | 8595057616134 |

## Parts needed for setting up the drill

| universal carrier | saw-dril | | | | | for boxes |
|---|---|---|---|---|---|---|
| **VPTU** | **VPT 40** | **VPT 64** | **VPT 68** | **VPT 79** | **VPT 97** | |
| X | X | | | | | KT 250/L, KO 110/L, KO 125/1L, KO 180/LD |
| X | | | | | X | KO 97/LD |
| X | | | X | | | KUL 68-45/LD, KUL 68-45/LD2, KU 68 LD/1HF, KUH 1/L, KPR 68/71L, KPRL 68-70/LD, KU 68/71L1, KPZ-1, KPZ 68-45, KPZ 68-60, KPZ 68-50/2, KPZ 68-50/3 |
| X | | X | | | | KPL 64-45/LD, KPL 64-50/LD, KPRL 64-60/LD, KPL 64-50/2LD, KPL 64-50/3LD, KPL 64-50/4LD, KPL 64-50/5LD, KP 64/LD HF, KPL 64-40/LD, KPL 64-50/LD HF, KPRL 64-60/LD HF, KPL 64-50/2LD HF, KPL 64-50/3LD HF |
| X | | | | X | | KI 68 L/1 |

milled (drilled) hole diameter (mm)
package

## VDS 68 - drill for hollow walls



- complete set for the most common wiring boxes
- minimum diameter of drilling machine chuck is 11 mm

| item | mm | parts of configuration | for boxes | | EAN |
|---|---|---|---|---|---|
| **VDS 68_XX** | 73 | VPTU + VPT 68 | KUL 68-45/LD, KUL 68-45/LD2, KUH 1/L, KU 68 LD/1HF, KPR 68/71L, KU 68/71L1, KPRL 68-70/LD, KPZ-1, KPZ 68-45, KPZ 68-60, KPZ 68-50/2, KPZ 68-50/3 | 1 | 8595057658967 |

## FR 68 SDS - non-hammered masonry cutter



- cutter intended for **non-impact** drilling in brickwork or aerated cement
- SDS plus clamping system
- for boxes KU 68, KP 68, a KP 64/...

| item | mm | for boxes | | EAN |
|---|---|---|---|---|
| **FR 68 SDS_XX** | 80 | KU 68, KP 68, KP 64/... | 1 | 8595057615915 |

milled (drilled) hole diameter (mm)
package

# BOXES
# MULTI-PURPOSE







www.kopos.com

# **WIRING BOXES** - MULTI-PURPOSE BOXES

In accordance with the standards ČSN EN IEC 60670-1, 2nd edition, and ČSN EN 60670-1—Boxes and complete enclosures for electrical accessories for house and similar fixed electrical installations.

Material: Self-extinguishing PC-ABS with temperature resistance -5 to +60°C.

The system of KOPOBOX MINI boxes conforms to the requirements of ČSN EN 60670-1, Art. 18 and it conforms to the proof Test against excessive heat and burning by glowing loop of temperature 850 °C.

According to ČSN EN 332312 ed. 2, the company KOPOS KOLÍN a.s. as manufacturer recommends the assembly of boxes on and into building materials with fire reaction class from A1 to F, in accordance with ČSN EN 13501-1.

The boxes are designed for distribution system with voltage up to 500 V.

The material is resistant against spread of flame and doesn't contain halogens. The Boxes can be used at environment of higher interest for protection of persons and equipment.

CE **All boxes, accessories and terminal plates are in compliance with EU directions.**

All multipurpose boxes also on our website.



## KOPOBOX MINI B - a multi-purpose device box assembly

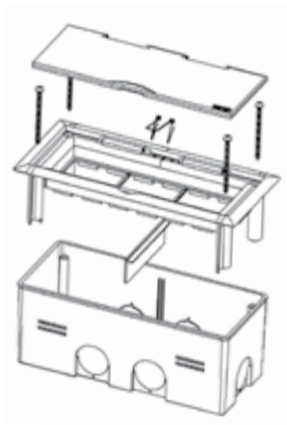


MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP20 | HF

PC-ABS

montage video

- the dimension of completed assembly: 175 x 80 x 68 mm
- the configuration is intended for assembling to/under parget or to concrete floors
- during the completion the assembling box is subsequently shouldered by KOPOBOX MINI box frame
- prior to installation of assembling box there is necessary to insert the distance rail, which is replaced upon the plaster induration
- it enables the assembling of modular devices of 3 pcs 45x45, or 6 pcs 22,5x45 or their combination
- suitable for QUADRO devices (pg. 203, 204) tailor-made for KOPOS products
- installation of devices made by ABB, Legrand, PEHA, Simon connect, Schneider Electric
- max. load: 1000 N to total surface of cover (cover + frame)



| item | | desc. | | EAN |
|---|---|---|---|---|
| **KOPOBOX MINI B_HB** | white RAL 9003 | the color of perspective parts (cover + frame) | 1; 30 | 8595568920065 |
| **KOPOBOX MINI B_KB** | light grey RAL 7035 | the color of perspective parts (cover + frame) | 1; 30 | 8595568920072 |

## KOPOBOX MINI L - a multi-purpose device box assembly

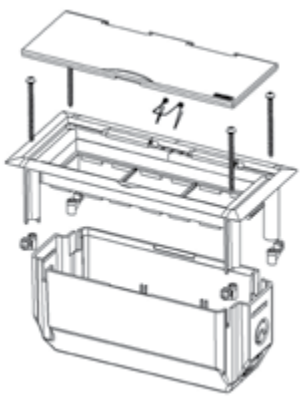


MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP20 | HF

PC-ABS

montage video

- the dimension of completed assembly: 175 x 80 x 75 mm
- opening dimensions for cutting: 163 x 67 mm
- the configuration is intended for assembling to furniture, into the hollow walls or to double floors
- box KOPOBOX MINI L there is possible to assemble to the thickness of the despcs from 9 till 38 mm
- fast assembling by help of fixation lugs
- the bottom cover box enables the fixation of cables against their rapture
- KOPOBOX MINI L enables the assembling of modular devices of 3 pcs 45x45 or 6 pcs 22,5x45 or their combination
- suitable for QUADRO devices (pg. 203, 204) tailor-made for KOPOS products
- installation of devices made by ABB, Legrand, PEHA, Simon connect, Schneider Electric



| item | | desc. | | EAN |
|---|---|---|---|---|
| **KOPOBOX MINI L_HB** | white RAL 9003 | the color of perspective parts (cover + frame) | 1; 30 | 8595568920041 |
| **KOPOBOX MINI L_KB** | light grey RAL 7035 | the color of perspective parts (cover + frame) | 1; 30 | 8595568920058 |
| **KOPOBOX MINI L_N1B** | titanium, upon request | the color of perspective parts (cover + frame) | 1; 30 | 8595568921895 |

## KOPOBOX MINI P - a multi-purpose device box assembly



MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP20 | HF

PC-ABS

montage video

- the dimension of completed assembly: 175 x 80 x 50 mm
- the configuration is intended for assembling into the parapet trunkings PK 110X65 D, PK 130X65 D, PK 170X65 D, PK 210X70 D, PK 110X65 D HF a PK 170X65 D HF
- fast assembling by help of fixation lugs
- KOPOBOX MINI P enables the assembling of modular devices of 3 pcs 45x45 or 6 pcs 22,5x45 or their combination
- suitable for QUADRO devices (pg. 203, 204) tailor-made for KOPOS products
- installation of devices made by ABB, Legrand, PEHA, Simon connect, Schneider Electric



| item | | desc. | | EAN |
|---|---|---|---|---|
| **KOPOBOX MINI P_HB** | white RAL 9003 | the color of perspective parts (cover + frame) | 1; 50 | 8595568920089 |





material | temperature resistance | self-extinguishing | IP protection | color
fire reaction class of underlying material | flaming loop test | halogen-free material | package

# KOPOBOX®

## SOLUTIONS FOR YOUR FLOOR









www.kopos.com

# WIRING BOXES - FLOOR BOXES

In accordance with the standards ČSN EN IEC 60670-1, 2nd edition, and ČSN EN 60670-1—Boxes and complete enclosures for electrical accessories for house and similar fixed electrical installations.

Material: Self-extinguishing halogen-free polyamide (PA), halogen-free polyethylene (PE). Temperature resistance is -5 to +60 °C.

Universal box KUP - halogen-free Acrylonitrile Butadiene Styrene (ABS) material, compliant flaming loop test with a temperature of 650°C.
The box, according to the requirements of ČSN EN 60670-1, clause 18, complies with the test for resistance to excessive heat and fire, flaming loop test with a temperature of 850 °C.

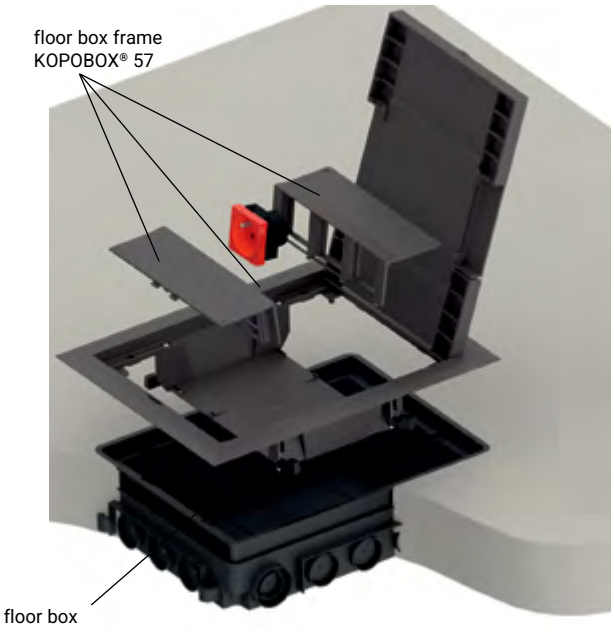
Beyond the requirements, a needle flame test according to ČSN EN 60695-11-5 was performed with a satisfactory result. The assemblies are intended for use in cast concrete floors, with an IP30 rating. The boxes are designed for distribution with voltages up to 500 V.

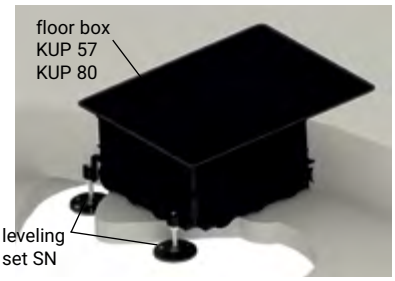
CE **All boxes, accessories and terminal plates are in compliance with EU directions.**

All floor boxes are also available on our website.



## KOPOBOX® 57 - floor box assembly for 6 modular devices - use in concrete floor




The complete set of a floor box composed of KOPOBOX® 57 and KUP 57 or KUP 80 is designated for the assembly of the modular devices 45 x 45 mm. The mounting feet (designed for doubled floors) are not used during the installation of the box KOPOBOX® 57 into KUP.

Instructions for the assembly of KOPOBOX® 57:
Installation box KUP 57 is suitable for the concrete layers from 57 mm up to 75 mm, KUP 80 is suitable for the concrete layers from 80 up to 95 mm. There is necessary to fix the installation box on the background surface. The height of the box can be adjusted by raising of insertion in range from 57 up to 75 mm (KUP 57) or from 80 up to 95 mm (KUP 80) with screws.

In case of concrete layer higher than 75 mm (KUP 57) or 95 mm (KUP 80) is necessary to use and levelling set SN (4 pcs) anchored to the surface. The leveling set enable to increase the height of the box for concreting by up to 35 mm.

Universal KUP boxes are designed for installation of electrical pipes or floor ducts PUK 38X150 S1. Every single input together with raising insertion for height setting must be sealed to avoid breaking the concrete into the box.

During concreting it is necessary to use the cover plate (part of the package KUP) against filling the box with concrete mixture. After hardening of the concrete mixture to remove the cover boards of floor box KUP. Floor box KUP after laying the final coverings fitted with a frame KOPOBOX® 57. Fixing frame KOPOBOX® 57 is using the enclosed screw diameter 3,9x13. In case of higher floor covering use the included screws diameter 3,9x19. Into frame KOPOBOX® 57 are installed holders of the devices and implement the electrical modular devices.

KOPOBOX® 57 is mainly designed for cables with direct plugs. Use of cables with indirect plugs is limited. Use of adapters and chargers is limited by their size.
It is possible to install QUADRO modular devices in the system (pg. 203, 204), or devices with compatible construction, e.g. those made by ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric.

The cover of the frame is determined for floor covering with highest layer of 7 mm. Considering IP30, the box is not suitable to be moistened with the floor cleaning machines. Recommended floor covering are carpets or floating wooden floors. Floor boxes KOPOBOX® are designed for a maximum load of 1500 N.

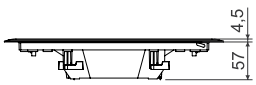
See assembly video at www.kopos.com

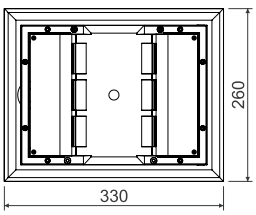
## KOPOBOX 57 - floor box frame

| MAT | | | | | IP | HF |
|---|---|---|---|---|---|---|
| PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | |



- designed for installation into the universal floor box KUP 57 or KUP 80
- reinforcement of the cover by the sheet ensures its high mechanical strength while maintaining the possibility of inserting the final floor covering at a height of max. 7 mm
- the cover has 2 tilt flaps enabling the outlet of the cables from the box
- included are screws for attaching the frame to the floor box KUP
- KOPOBOX® comes in dark grey as a standard
- for orders over 500 pieces we can supply different RAL colour (except for actual device carriers).
- the frame is separately applied for double floors with a thickness of 10-40 mm, the proposition of hole to insert the floor box is 218 x 288 mm




| item | | | | EAN |
|---|---|---|---|---|
| **KOPOBOX 57_LB** | ● | dark grey RAL 7012 | 1 | 8595057690721 |

ACCESSORIES



**QP, QS**
pg. 203, 204



**QD**
pg. 205

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
halogen-free material
IP protection
package
color

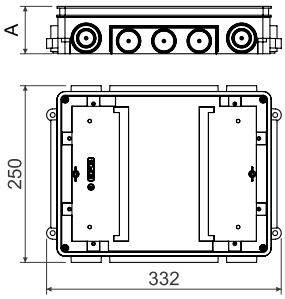
## **KUP** - universal floor box



MAT | -5 - +60°C | 650°C | A1 | 30 sec. | HF

ABS

- for installation into a concrete floor with subsequent fitting of a KOPOBOX® floor box after the concrete mix has hardened
- KUP 57 is designed for a concrete layer of 57 - 75 mm. KUP 80 is designed for concrete layer 80 - 95 mm
- the desired height of the box is adjusted by raising the internal insert using screws in the corners of the box
- with a SN-leveling set, it is possible to increase the height for concreting by up to 35 mm
- the box is designed for wiring pipes and PUK floor canal
- the package includes a cover plate to prevent the box from being poured over with concrete




| item | A mm | | | EAN |
|---|---|---|---|---|
| **KUP 57_FB** | 57 - 75 | ● black | 1 | 8595057690745 |
| **KUP 80_FB** | 80 - 95 | ● black | 1 | 8595057690752 |

## **SN** - leveling set

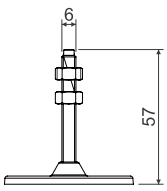


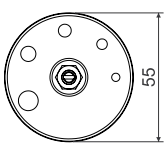
MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

PE

- to set the exact height of the universal box KUP 57 or KUP 80 when pouring into concrete floors
- it allows to raise the height of the concrete by up to 35 mm
- to prevent wash-up with concrete, fix the box using M6 nuts - included in the package
- the leveling set includes 4 adjustable elements (in each corner of the KUP box)
- groove for screwing allowing comfortable and precise height adjustment

| item | desc. | | EAN |
|---|---|---|---|
| **SN_XX** | the package includes 4 pieces - for all corners of the box | 1; 90 | 8595057690844 |

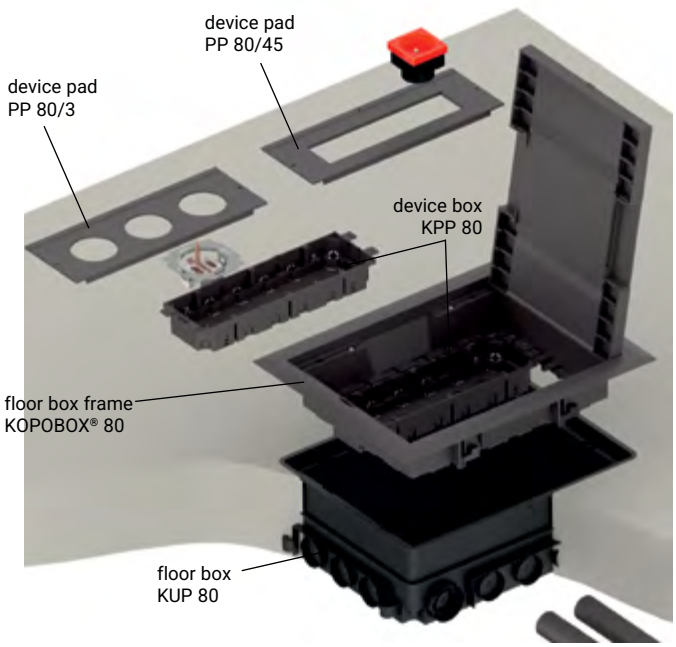


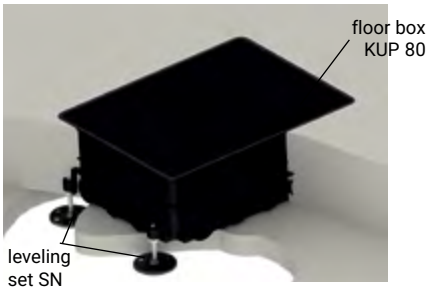






material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | halogen-free material | package

## KOPOBOX® 80 - floor box assembly for 6 classic or 8 modular devices - use in concrete floor




The complete set of the floor box composed of KOPOBOX® 80 and KUP 80 is designated for the installation of classic and also modular devices.
The selection of the type of devices being installed is given by the type of the devices underlay. The mounting feet (designed for doubled floors) are not used during the installation of the box KOPOBOX® 80 into KUP 80.

Instructions for the assembly of KOPOBOX® 80:
Installation box KUP 80 is suitable for the concrete layers from 80 mm up to 95 mm. There is necessary to fix the installation box on the background surface. The height of the box can be adjusted by raising of insertion in range from 80 up to 95 mm with screws.

In case of concrete layer higher than 95 mm there is necessary to use and levelling set SN (4 pcs) anchored to the surface. The leveling set enable to increase the height of the box for concreting by up to 35 mm.
KUP 80 boxes are designed for installation of electrical pipes or floor ducts PUK 38X150 S1. Every single input together with raising insertion for height setting must be sealed to avoid breaking the concrete into the box.

During placement of concrete it is necessary to use and cover board (included KUP 80) to prevent the box from being filled with concrete. After the concrete mix hardens and the cover board is removed the floor box KUP 80 is fitted with and frame of the floor box KOPOBOX® 80. Subsequently the device boxes KPP 80 are inserted to the frame. On the base of installed apparatus, PP 80 device pad should be used.

Modular devices (max. 8 modular devices 45x45):
- installation into KPP 80 + PP 80/45,
- installation directly on PP 80/45, while using the cross-piece PKUP

Classic devices (max. 6 classic devices):
- installation into KPP 80 + PP 80/3 for the non-fitted assembly openings use the end cap ZPP

KOPOBOX® 80 is mainly designed for cables with indirect plugs. Use of cables with direct plugs is limited and use of adapters and chargers is limited.
It is possible to install QUADRO modular devices in the system (pg. 203, 204), or devices with compatible construction, e.g. those made by ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric.

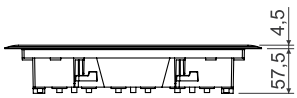
The cover of the frame is determined for floor covering with highest layer of 7 mm. Considering IP30, the box is not suitable to be moistened with the floor cleaning machines. Recommended floor covering are carpets or floating wooden floors. Floor boxes KOPOBOX® are designed for a maximum load of 1500 N.
See assembly video at www.kopos.com

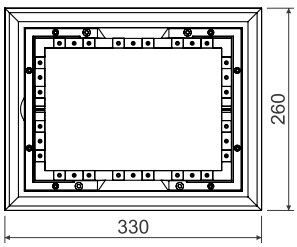
## KOPOBOX 80 - floor box frame



MAT | PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | HF

- designed for installation into the universal floor box KUP 80
- included are screws for attaching the frame to the floor box KUP
- for orders over 500 pieces we can supply different RAL colour
- the cover has 2 tilt flaps enabling the outlet of the cables from the box
- reinforcement of the cover by the sheet ensures its high mechanical strength while maintaining the possibility of inserting the final floor covering at a height of max. 7 mm
- KOPOBOX® comes in dark grey as a standard
- the frame is separately applied for double floors with a thickness of 10-40 mm, the proposition of hole to insert the floor box is 218 x 288 mm




| item | | | | EAN |
|---|---|---|---|---|
| **KOPOBOX 80_LB** | ● | dark grey RAL 7012 | 1 | 8595057690738 |

ACCESSORIES



| QP, QS | QD | KPP 80 | PP 80/45/6 | PP 80/. |
|---|---|---|---|---|
| pg. 203, 204 | pg. 205 | pg. 97 | pg. 101 | pg. 98 |

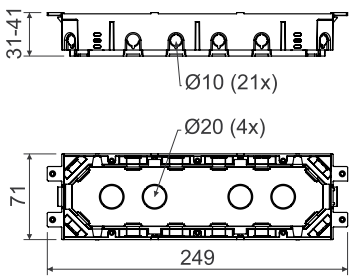
## KPP 80 - device floor box



MAT | PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

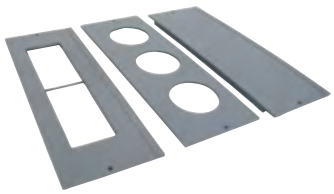
- universal device box for mounting into KOPOBOX® 80 (max. 2 pcs)
- device screws, cable link screws and cable fixing linpcs are included
- depth of the box is adjustable by changing the position of the bottom

| item | | | | EAN |
|---|---|---|---|---|
| **KPP 80_LB** | ● | dark grey | 1; 42 | 8595057690769 |



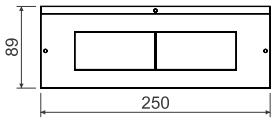

material | temperature resistance | self-extinguishing | color | IP protection
fire reaction class of underlying material | flaming loop test | halogen-free material | package

## PP 80/... - device pad



MAT PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

- device plate is installed into the floor box KOPOBOX® 80 frame
- installation is recommended together with the device box KPP 80
- when installing multiple modular devices, it is appropriate to remove the inner partition
- external dimensions of other device pads are identical with the drawing



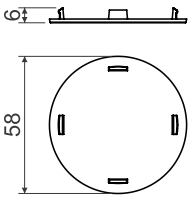

| item | | desc. | | EAN |
|---|---|---|---|---|
| **PP 80/0_LB** | dark grey | full plate for covering the unoccupied parts of box KOPOBOX® | 1; 100 | 8595057690783 |
| **PP 80/3_LB** | dark grey | plate for mounting up to 3 pcs of standard devices | 1; 100 | 8595057690790 |
| **PP 80/45_LB** | dark grey | serve for assembly of up to 4 pcs modular devices | 1; 100 | 8595057690806 |

## ZPP - end cap



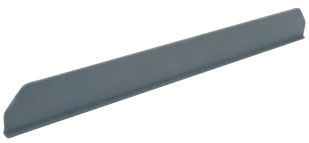
MAT PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

- to blind vacant holes on the device pad PP 80/3



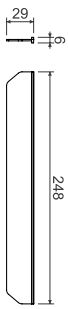

| item | | EAN |
|---|---|---|
| **ZPP_LB** | dark grey | 10 ; 1800 | 8595057690820 |

## PKUP - partition wall



MAT PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

- to divide the interior of KOPOBOX® 80




| item | | EAN |
|---|---|---|
| **PKUP_LB** | dark grey | 10; 480 | 8595057690837 |

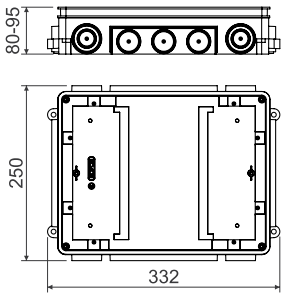
material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | halogen-free material | package

## KUP 80 - universal floor box



| MAT | | | | |
|---|---|---|---|---|
| ABS | -5 - +60°C | 650°C | A1 | 30 sec. |

- for installation into a concrete floor of 80-95 mm height with subsequent fitting of a KOPOBOX® floor box after the concrete mix has hardened
- adjusting the box height by increasing the inner insert using screws in the corners of the box
- with a SN-leveling set, it is possible to increase the height for concreting by up to 35 mm
- the box is designed for wiring pipes and PUK floor canal
- the package includes a cover plate to prevent the box from being poured over with concrete




| item | | | EAN |
|---|---|---|---|
| **KUP 80_FB** | black | 1 | 8595057690752 |

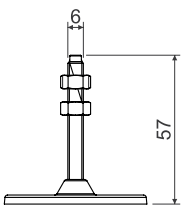
## SN - leveling set

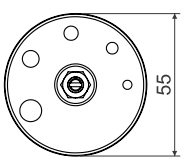


| MAT | | | | |
|---|---|---|---|---|
| PE | -5 - +60°C | 850°C | A1 - F | 30 sec. |

- to set the exact height of the universal box KUP 57 or KUP 80 when pouring into concrete floors
- it allows to raise the height of the concrete by up to 35 mm
- to prevent wash-up with concrete, fix the box using M6 nuts - included in the package
- the leveling set includes 4 adjustable elements
- groove for screwing allowing comfortable and precise height adjustment

| item | desc. | | EAN |
|---|---|---|---|
| **SN_XX** | the package includes 4 pieces - for all corners of the box | 1; 90 | 8595057690844 |

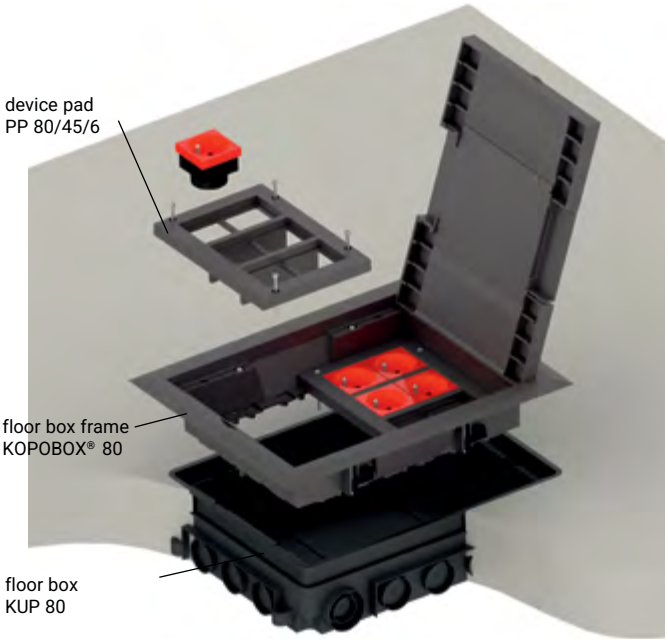


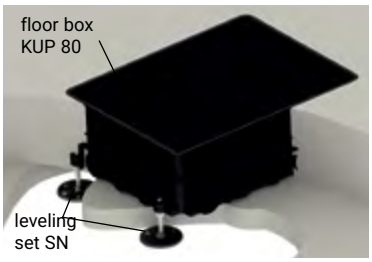






material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
halogen-free material
color
package

## KOPOBOX® 80 - floor box assembly for 12 modular devices - use in concrete floor




The complete set of the floor box composed of KOPOBOX® 80 and KUP 80 is designated for the installation of classic and also modular devices 45x45. The mounting feet (designed for doubled floors) are not used during the installation of the box KOPOBOX® 80 into KUP 80.

Instructions for the assembly of KOPOBOX® 80:
Installation box KUP 80 is suitable for the concrete layers from 80 mm up to 95 mm. There is necessary to fix the installation box on the background surface. The height of the box can be adjusted by raising of insertion in range from 80 up to 95 mm with screws.

In case of concrete layer higher than 95 mm there is necessary to use and levelling set SN (4 pcs) anchored to the surface. The leveling set enable to increase the height of the box f or concreting by up to 35 mm.

Universal KUP boxes are designed for installation of electrical pipes or floor ducts PUK 38X150 S1. Every single input together with raising insertion for height setting must be sealed to avoid breaking the concrete into the box.

During placement of concrete it is necessary to use and a cover board (included KUP 80) to prevent the box from being filled with concrete. After the concrete mix hardens and the cover board is removed the floor box KUP 80 is fitted with and frame of the floor box KOPOBOX® 80. Afterwards, the PP 80/45/6 (max. 2 pieces) device pads are installed in the frame for the installation of modular devices 45x45 (max. 12 modules).

KOPOBOX® 80 is mainly designed for cables with indirect plugs. Use of cables with direct plugs is limited and use of adapters and chargers is limited.

It is possible to install QUADRO modular devices in the system (pg. 203, 204), or devices with compatible construction, e.g. those made by ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric.

The cover of the frame is determined for floor covering with highest layer of 7 mm. Considering IP30, the box is not suitable to be moistened with the floor cleaning machines. Recommended floor covering are carpets or floating wooden floors.

Floor boxes KOPOBOX® are designed for a maximum load of 1500 N.

See assembly video at www.kopos.com

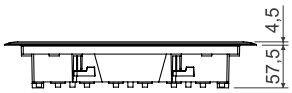
## KOPOBOX 80 - floor box frame

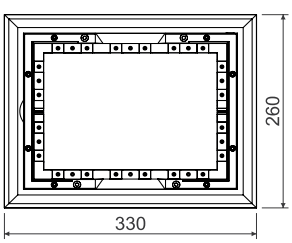


| MAT | | | | | IP | HF |
|---|---|---|---|---|---|---|
| PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | |

montage video

- designed for installation into the universal floor box KUP 80
- reinforcement of the cover by the sheet ensures its high mechanical strength while maintaining the possibility of inserting the final floor covering at a height of max. 7 mm
- the cover has 2 tilt flaps enabling the outlet of the cables from the box
- Included are screws for attaching the frame to the floor box KUP
- KOPOBOX® comes in dark grey as a standard
- for orders over 500 pieces we can supply different RAL colour
- the frame is separately applied for double floors with a thickness of 10-40 mm, the proposition of hole to insert the floor box is 218 x 288 mm




| item | | | | EAN |
|---|---|---|---|---|
| **KOPOBOX 80_LB** | ● | dark grey RAL 7012 | 1 | 8595057690738 |

ACCESSORIES

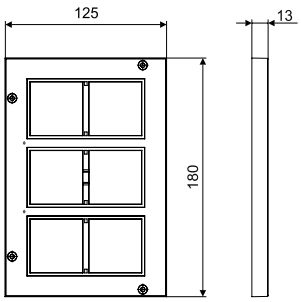


| QP, QS | QD | KPP 80 | PP 80/45/6 | PP 80/. |
|---|---|---|---|---|
| pg. 203, 204 | pg. 205 | pg. 97 | pg. 101 | pg. 98 |

material | temperature resistance | self-extinguishing | color | IP protection
fire reaction class of underlying material | flaming loop test | halogen-free material | package

## PP 80/45/6 - device pad






MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

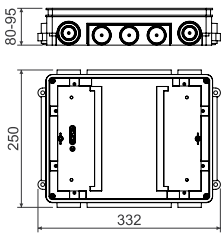
PA

- for installation in the frame of the KOPOBOX® 80 ( max. 2 pieces )
- when installing double modular devices, it is advisable to remove the inner partition
- the pack includes 1 PP 80/45/6 device pad, 2 separating partitions and 4 mounting screws

| item | | | | EAN |
|---|---|---|---|---|
| **PP 80/45/6_LB** | ● | dark grey RAL 7012 | 1; 66 | 8595568930781 |

## KUP 80 - universal floor box






MAT | -5 - +60°C | 650°C | A1 | 30 sec. | HF

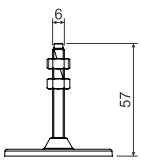
ABS

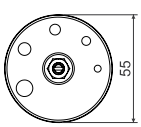
- for installation into a concrete floor of 80-95 mm height with subsequent fitting of a KOPOBOX® floor box after the concrete mix has hardened
- adjusting the box height by increasing the inner insert using screws in the corners of the box
- with a SN-leveling set, it is possible to increase the height for concreting by up to 35 mm
- the box is designed for wiring pipes and PUK floor canal
- the package includes a cover plate to prevent the box from being poured over with concrete

| item | | | | EAN |
|---|---|---|---|---|
| **KUP 80_FB** | ● | black | 1 | 8595057690752 |

## SN - leveling set






MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

PE

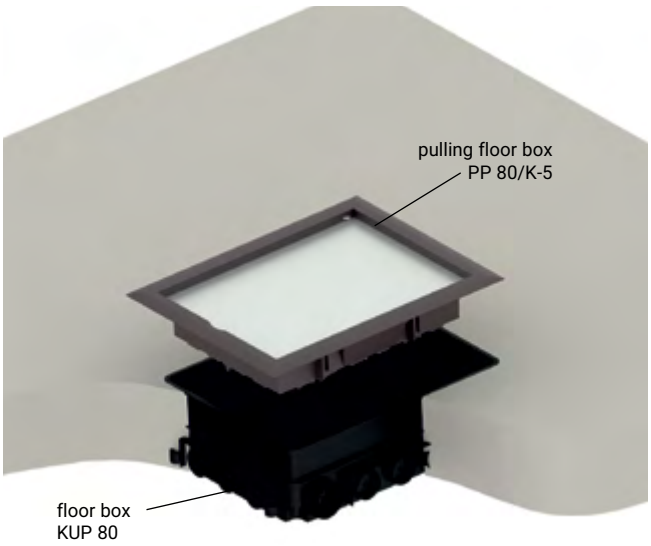
- to set the exact height of the universal box KUP 57 or KUP 80 when pouring into concrete floors
- it allows to raise the height of the concrete by up to 35 mm
- to prevent wash-up with concrete, fix the box using M6 nuts - included in the package
- the leveling set includes 4 adjustable elements
- groove for screwing allowing comfortable and precise height adjustment

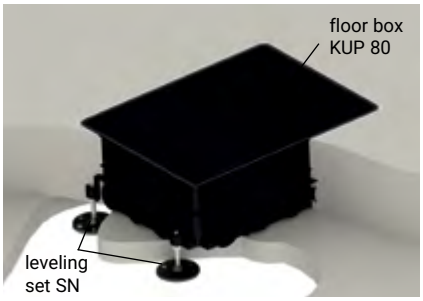
| item | desc. | | EAN |
|---|---|---|---|
| **SN_XX** | the package includes 4 pieces - for all corners of the box | 1; 90 | 8595057690844 |



material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | halogen-free material | package

## PP 80/K-5 - pulling floor box assembly (blind cover)




The complete assembly of the PP 80/K-5 and KUP 80 pulling floor boxes is designed for concrete floors where there is a need for branching or crossing.

Instructions for the assembly of PP 80/K-5:
Installation box KUP 80 is suitable for the concrete layers from 80 mm up to 95 mm. There is necessary to fix the installation box on the background surface. The height of the box can be adjusted by raising of insertion in range from 80 up to 95 mm with screws.

In case of concrete layer higher than 95 mm there is necessary to use and levelling set SN (4 pcs) anchored to the surface. The leveling set enable to increase the height of the box for concreting by up to 35 mm.

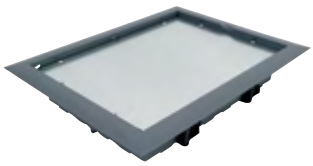
Universal KUP boxes are designed for installation of electrical pipes or floor ducts PUK 38X150 S1. Every single input together with raising insertion for height setting must be sealed to avoid breaking the concrete into the box.

During placement of concrete it is necessary to use and a cover board (included KUP 80) to prevent the box from being filled with concrete. After hardening the concrete mixture and removing the cover plate, the floor box KUP 80 is fitted with a PP 80/K-5 stretch floor box.

The pulling floor box is designed for floor coverings with a maximum height of 8 mm. Considering IP30, the box is not suitable to be moistened with the floor cleaning machines. Recommended floor covering are carpets or floating wooden floors.

Floor boxes KOPOBOX® are designed for a maximum load of 1500 N.

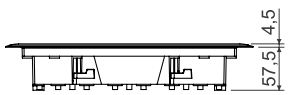
## PP 80/K-5 - pulling floor box

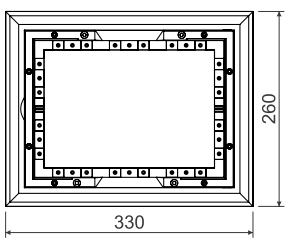


MAT | PA
-5 - +60°C
850°C
A1 - F
30 sec.
IP30
HF

- designed for installation into the floor box KUP 80
- use as a blind cover for pulling, branching or crossing the box cables is not intended for installation of devices
- additional installation of the devices is only possible when replacing the junction box behind the KOPOBOX® floor box
- after installing the box, the final floor covering of a maximum height of 8 mm
- the proposition of hole to insert the floor box is 218 x 288 mm

| item | | | | EAN |
|---|---|---|---|---|
| **PP 80/K-5_LB** | ● | dark grey RAL 7012 | 1 | 8595057699571 |



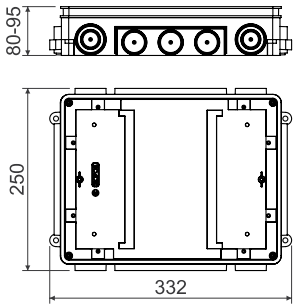

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
halogen-free material
color
package
IP protection

## KUP 80 - universal floor box



| MAT | | | | |
|---|---|---|---|---|
| ABS | -5 - +60°C | 650°C | A1 | 30 sec. |

- for installation in a concrete floor with a height of 80 - 95 mm with subsequent installation of the KOPOBOX® floor box after the concrete mixture has hardened
- the desired height of the box is adjusted by raising the internal insert using screws in the corners of the box
- with a SN-leveling set, it is possible to increase the height for concreting by up to 35 mm
- the box is designed for wiring pipes and PUK floor canal
- the package includes a cover plate to prevent the box from being poured over with concrete



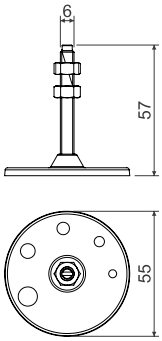

| item | | | | EAN |
|---|---|---|---|---|
| **KUP 80_FB** | ● | black | 1 | 8595057690752 |

## SN - leveling set



| MAT | | | | |
|---|---|---|---|---|
| PE | -5 - +60°C | 850°C | A1 - F | 30 sec. |

- to set the exact height of the universal box KUP 57 or KUP 80 when pouring into concrete floors
- it allows to raise the height of the concrete by up to 35 mm
- to prevent wash-up with concrete, fix the box using M6 nuts - included in the package
- the leveling set includes 4 adjustable elements
- groove for screwing allowing comfortable and precise height adjustment

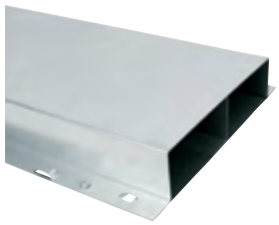



| item | desc. | | EAN |
|---|---|---|---|
| **SN_XX** | the package includes 4 pieces - for all corners of the box | 1; 90 | 8595057690844 |



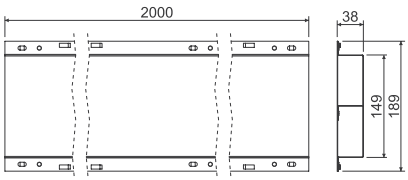
material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
halogen-free material
color
package

## PUK 38X150 S1 - floor trunking



- for individual KUP 57 or KUP 80 boxes connection
- outputs on the channel prepared for conductive connection using a PLUK or PLUK1 connecting cable
- when using the SN leveling kit with KOPOBOX® boxes, it is necessary to shim the floor channel appropriately, or to use electrical conduits for the connection

| item | desc. | | EAN |
|---|---|---|---|
| **PUK 38X150 S1_S** | galvanized Sendzimir | 2; 180 | 8595568904416 |

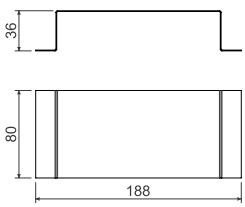



## SPUK - coupling floor trunking



- the overlap joints of floor channels
- prevents ingress of concrete into channels
- attached to the floor with screws or gun nails

| item | desc. | | EAN |
|---|---|---|---|
| **SPUK_S** | galvanized Sendzimir | 1; 10 | 8595568904423 |

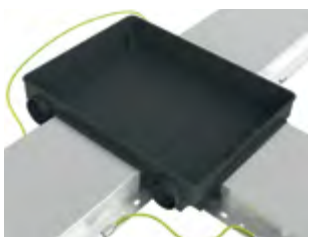


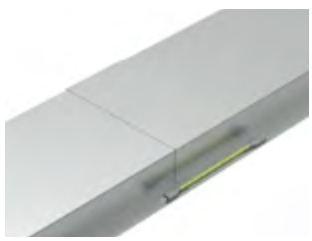

## PLUK - connecting string



- provides a conductive bonding of floor channels

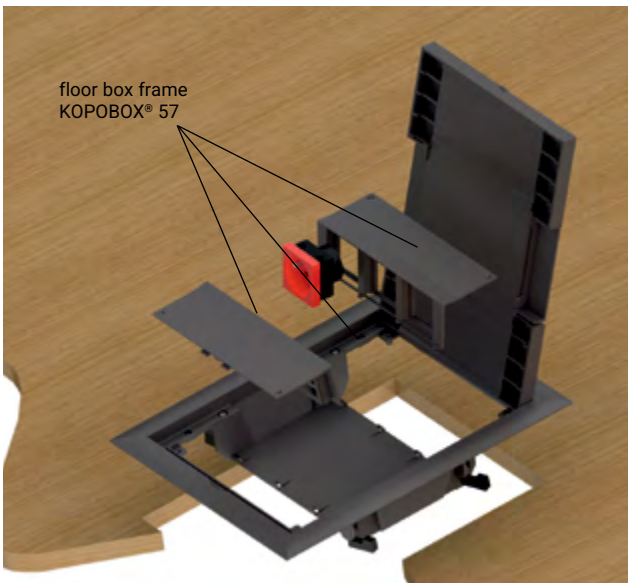
| item | desc. | | EAN |
|---|---|---|---|
| **PLUK_XX** | length 250 mm, to connect channels when coming out at an angle of 90° | 1; 10 | 8595568904430 |
| **PLUK 1_XX** | length 550 mm, to connect channels when coming out at an angle of 180° | 1; 10 | 8595568904447 |





package

## KOPOBOX® 57 - floor box assembly for 6 modular devices - use in raised floor




KOPOBOX® 57 is designed for the installation of modular devices measuring 45 x 45 mm. The installation of classic devices is not possible in this frame. However, it allows installation in floors from a depth of 56 mm. The device pad for modular devices is already included in the KOPOBOX® 57 frame and does not need to be ordered separately.

The paper template in the frame package serves to mark and subsequently cut the opening in the floor. The inner perforated template allows for cutting the floor covering to the frame cover. The inserted frame is secured by rotating the foot screws until the feet firmly clamp the frame to the floor. After inserting the device pad, the electrical installation of modular devices is carried out.

The cover can be fitted with floor covering up to a maximum height of 7 mm. Considering the IP 30 protection rating, the box is not intended for machine wet cleaning. Recommended floor coverings include carpets or floating floors.

KOPOBOX® 57 is primarily intended for the installation of cables with straight plugs. The use of cables with angled plugs is possible with limitations. The use of adapters designed for powering devices is limited by their specific size.

It is possible to install QUADRO modular devices (pg. 203, 204), into the system, or devices of similar construction from companies such as ABB, PEHA, Legrand, OBO Bettermann, and Schneider Electric Altira.

The system is designed for distribution with a voltage of 500 V.

The KOPOBOX® floor boxes are designed for a maximum load of 1500 N.

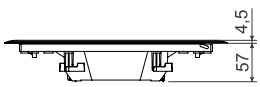
## KOPOBOX 57 - floor box frame

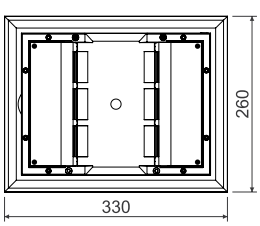


MAT | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | HF

PA

- reinforcement of the cover by the sheet ensures its high mechanical strength while maintaining the possibility of inserting the final floor covering at a height of max. 7 mm
- the cover has 2 tilt flaps enabling the outlet of the cables from the box
- included are screws for attaching the frame to the floor box KUP
- KOPOBOX® comes in dark grey as a standard
- for orders over 500 pieces we can supply different RAL colour (except for actual device carriers)
- the frame is separately applied for double floors with a thickness of 10-40 mm, the proposition of hole to insert the floor box is 218 x 288 mm




| item | | | EAN |
|---|---|---|---|
| **KOPOBOX 57_LB** | dark grey RAL 7012 | 1 | 8595057690721 |

ACCESSORIES



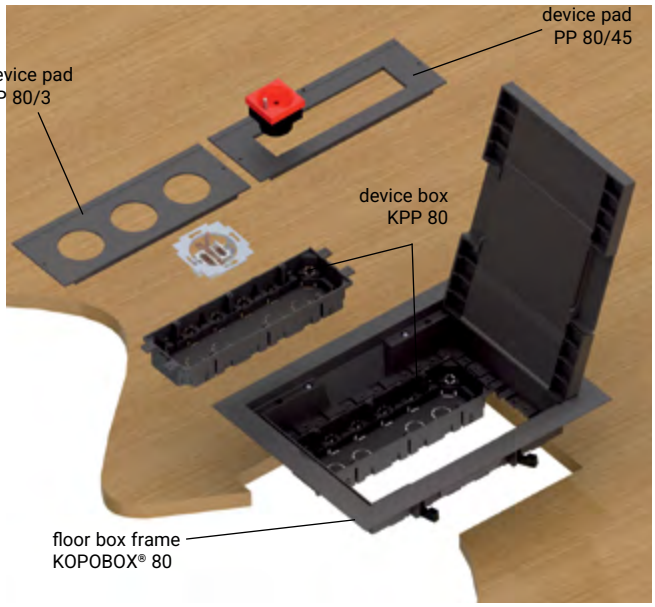
QP, QS
pg. 203, 204



QD
pg. 205

material | temperature resistance | self-extinguishing | color | IP protection
fire reaction class of underlying material | flaming loop test | halogen-free material | package

## KOPOBOX® 80 - floor box assembly for 6 classic or 8 modular devices - use in raised floor




KOPOBOX® 80 allows the installation of both classic and modular devices (the choice is made by selecting the appropriate device pad). The frame can be used from a floor depth of 78 mm. For the KOPOBOX® 80 frame, device pads must be ordered according to the chosen type of devices.

The paper template in the frame package is used to mark and subsequently cut the opening in the floor. The inner perforated template allows for cutting the floor covering to the frame cover. The inserted frame is secured by rotating the foot screws until the feet firmly clamp the frame to the floor. The KPP 80 box, with the corresponding knock-out conduits, is inserted into the frame, and the cables are secured against mechanical stress using the brackets (part of the package).

The KPP 80 box is fitted with device pads according to the type of devices chosen, and the devices are then connected.

The cover can be fitted with floor covering up to a maximum height of 7 mm. Considering the IP30 protection rating, the box is not intended for machine wet cleaning. Recommended floor coverings include carpets or floating floors.

Modular devices:
- installation into KPP 80 + PP 80/45
- installation directly on PP 80/45, while using the cross-piece PKUP

Classic devices:
- installation into KPP 80 + PP 80/3 for the non-fitted assembly openings use the end cap ZPP

KOPOBOX® 80 is mainly designed for cables with indirect plugs. Use of cables with direct plugs is limited and use of adapters and chargers is limited

It is possible to install QUADRO modular devices in the system (pg. 203, 204) or devices with compatible construction, e.g. those made by ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric.

This system is designed for distribution with a voltage of 500 V.

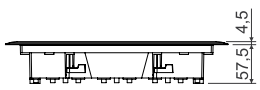
The KOPOBOX® floor boxes are designed to withstand a maximum load of 1500 N.

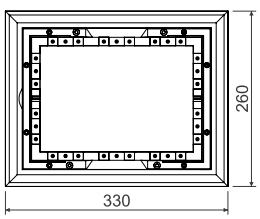
## KOPOBOX 80 - floor box frame



| MAT | | | | | IP | HF |
|---|---|---|---|---|---|---|
| PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | |

- reinforcement of the cover by the sheet ensures its high mechanical strength while maintaining the possibility of inserting the final floor covering at a height of max. 7 mm
- the cover has 2 tilt flaps enabling the outlet of the cables from the box
- included are screws for attaching the frame to the floor box KUP
- KOPOBOX® comes in dark grey as a standard
- for orders over 500 pieces we can supply different RAL colour (except for actual device carriers)
- the frame is separately applied for double floors with a thickness of 10-40 mm, the proposition of hole to insert the floor box is 218 x 288 mm




| item | | | | EAN |
|---|---|---|---|---|
| **KOPOBOX 80_LB** | ● | dark grey RAL 7012 | 1 | 8595057690738 |

ACCESSORIES



| QP, QS | QD | KPP 80 | PP 80/45/6 | PP 80/. |
|---|---|---|---|---|
| pg. 203, 204 | pg. 205 | pg. 107 | pg. 110 | pg. 107 |

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
halogen-free material
color
package
IP protection

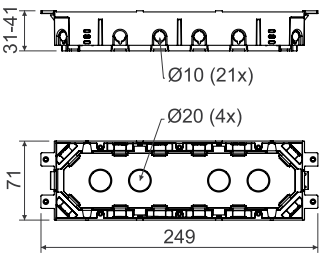
## KPP 80 - device floor box



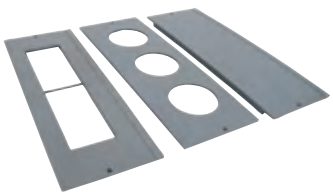
| MAT | | | | |
|---|---|---|---|---|
| PA | -5 - +60°C | 850°C | A1 - F | 30 sec. |

- universal device box for mounting into KOPOBOX® 80 (max. 2 pcs)
- device screws, cable link screws and cable fixing linpcs are included
- depth of the box is adjustable by changing the position of the bottom

| item | | | | EAN |
|---|---|---|---|---|
| **KPP 80_LB** | ● | dark grey | 1; 42 | 8595057690769 |



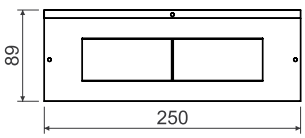

## PP 80/... - device pad



| MAT | | | | |
|---|---|---|---|---|
| PA | -5 - +60°C | 850°C | A1 - F | 30 sec. |

- device plate is installed into the floor box KOPOBOX® 80 frame
- installation is recommended together with the device box KPP 80
- when installing multiple modular devices, it is appropriate to remove the inner partition
- external dimensions of other device pads are identical with the drawing

| item | | | desc. | | EAN |
|---|---|---|---|---|---|
| **PP 80/0_LB** | ● | dark grey | full plate for covering the unoccupied parts of KOPOBOX® | 1; 100 | 8595057690783 |
| **PP 80/3_LB** | ● | dark grey | plate for mounting up to 3 pcs of standard devices, | 1; 100 | 8595057690790 |
| **PP 80/45_LB** | ● | dark grey | serve for assembly of up to 4 QUADRO modular devices | 1; 100 | 8595057690806 |



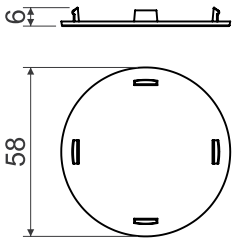
## ZPP - end cap



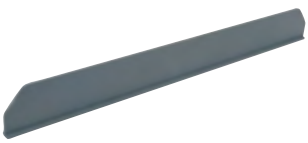
MAT | PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

- to blind vacant holes on the device pad PP 80/3

| item | | | EAN |
|---|---|---|---|
| **ZPP_LB** | dark grey | 10 ; 1800 | 8595057690820 |



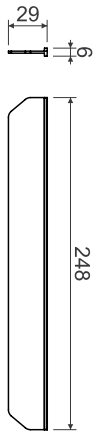

## PKUP - partition wall



MAT | PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF

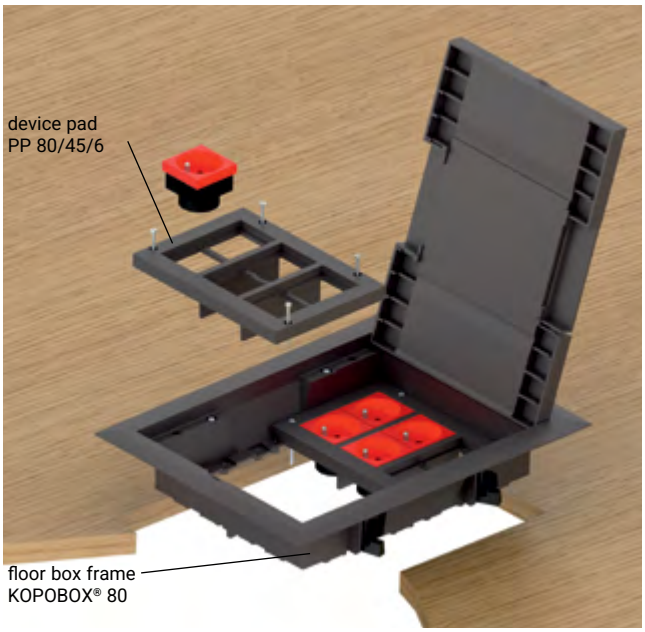
- to divide the interior of KOPOBOX® 80

| item | | | EAN |
|---|---|---|---|
| **PKUP_LB** | dark grey | 10; 480 | 8595057690837 |




material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | halogen-free material | package

# KOPOBOX® 80 - floor box assembly for 12 modular devices - use in raised floor




The KOPOBOX® 80 floor box assembly with the PP 80/45/6 device bases is designed for installing 45x45 modular devices. This setup can be utilized in floors as shallow as 78 mm.

The paper template included in the frame packaging is used for marking and subsequently cutting an opening in the floor. An inner perforated template allows for cutting the floor covering to fit into the frame cover.

The frame is inserted into the floor opening and secured by rotating the foot screws until the feet firmly clamp the frame to the floor. Subsequently, PP 80/45/6 device bases (max. 2 pcs) are placed into the frame for the installation of 45x45 modular devices (max. 12 modules).

KOPOBOX® 80 is primarily intended for use with cables featuring angled plugs. While using cables with straight plugs or adapters is possible, it comes with certain limitations.

It is possible to install QUADRO modular devices in the system (pg. 203, 204), or devices with compatible construction, e.g. those made by ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric Altira.

The cover of the floor frame is designed for floor coverings with a maximum height of 7 mm. Due to the IP30 protection rating, the box is not suitable for machine wet cleaning. Recommended floor coverings include carpets or floating floors.

This system is designed for distribution with a voltage of 500 V.

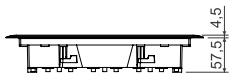
The KOPOBOX® floor boxes are designed to withstand a maximum load of 1500 N.

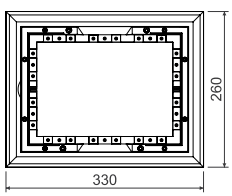
## KOPOBOX 80 - floor box frame



| MAT | | | | | IP | HF |
|---|---|---|---|---|---|---|
| PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | IP30 | |

- reinforcement of the cover by the sheet ensures its high mechanical strength while maintaining the possibility of inserting the final floor covering at a height of max. 7 mm
- the cover has 2 tilt flaps enabling the outlet of the cables from the box
- included are screws for attaching the frame to the floor box KUP
- KOPOBOX® comes in dark grey as a standard
- for orders over 500 pieces we can supply different RAL colour (except for actual device carriers)
- the frame is separately applied for double floors with a thickness of 10-40 mm, the proposition of hole to insert the floor box is 218 x 288 mm.




| item | | | | EAN |
|---|---|---|---|---|
| **KOPOBOX 80_LB** | ● | dark grey RAL 7012 | 1 | 8595057690738 |

ACCESSORIES



| QP, QS | QD | KPP 80 | PP 80/45/6 | PP 80/. |
|---|---|---|---|---|
| pg. 203, 204 | pg. 205 | pg. 107 | pg. 110 | pg. 107 |

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
halogen-free material
color
package
IP protection

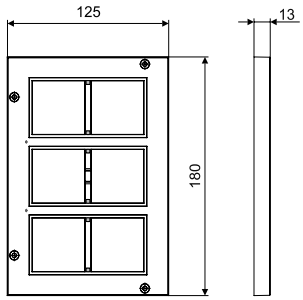
## **PP 80/45/6** - device pad



| MAT | | | | | |
|---|---|---|---|---|---|
| PA | -5 - +60°C | 850°C | A1 - F | 30 sec. | HF |

- for installation into the floor box frame KOPOBOX® 80 (max. 2 pcs)
- when installing double modular devices, it is advisable to remove the inner partition
- the pack includes 1 pc PP 80/45/6 device pad, 2 pcs separating partitions and 4 pcs mounting screws

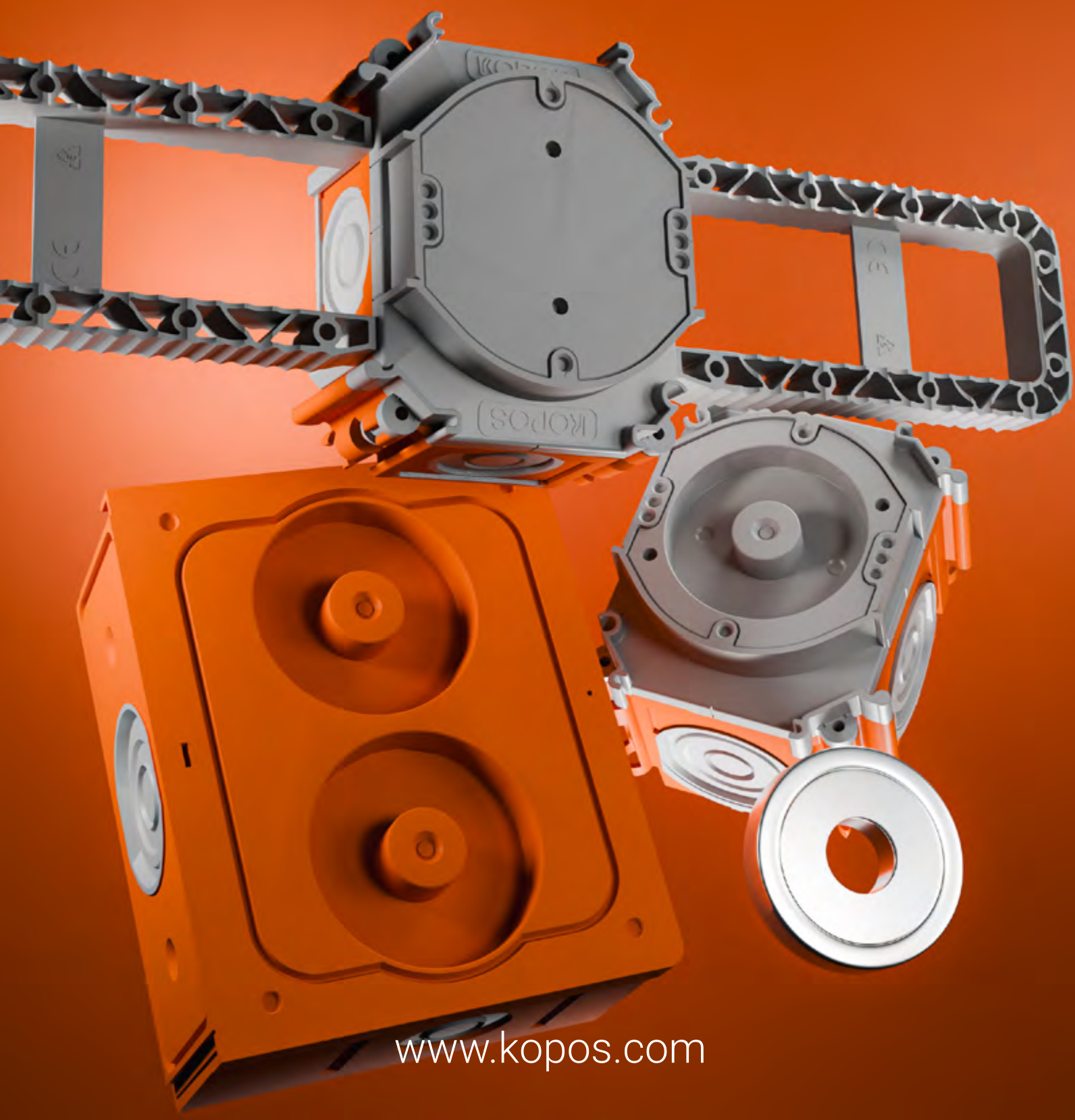
| item | | | EAN |
|---|---|---|---|
| **PP 80/45/6_LB** | dark grey RAL 7012 | 1; 66 | 8595568930781 |




material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
halogen-free material
color
package

WIRING BOXES

# FOR CONCRETE INSTALLATION



www.kopos.com

# **WIRING BOXES** - SYSTEM FOR CONCRETE

In accordance with the standards ČSN EN IEC 60670-1, 2nd edition, and ČSN EN 60670-1—Boxes and complete enclosures for electrical accessories for house and similar fixed electrical installations.

Material: Halogen-free polyethylene (PE), halogen-free polypropylene (PP),
Halogen-free polyamide (PA). Temperature resistance during installation -5 to +60 °C.
Temperature during the casting process up to +90 °C.

The boxes comply with the requirements of ČSN EN IEC 60670-1 ed.2 including the test of resistance to excessive heat and burning with a hot loop with a temperature of 650 °C, the polyethylene used is not self-extinguishing.

These boxes are intended for electrical distribution systems with a voltage of up to 500 V.

CE **All boxes, accessories and terminal plates are in compliance with EU directions.**

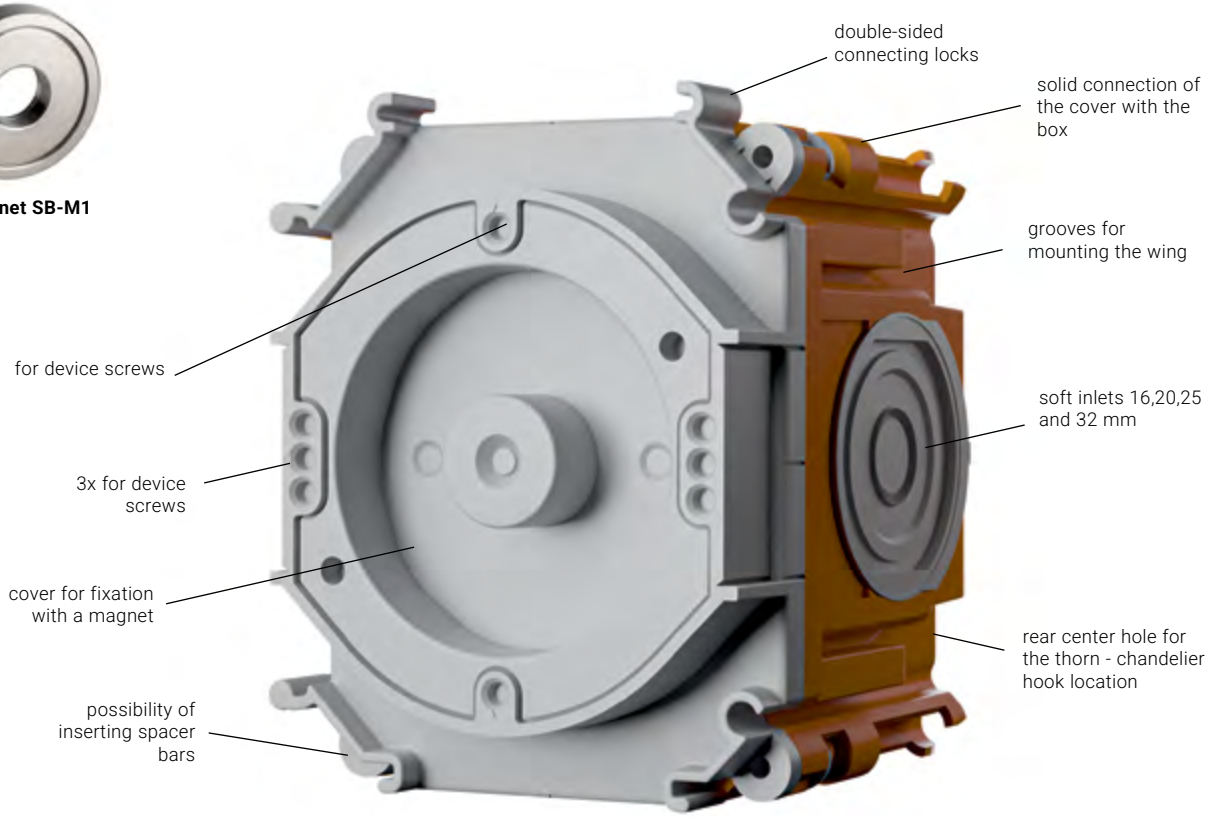
All boxes for cast concrete are also available on our website.



## System for cast concrete installation - magnet fixing



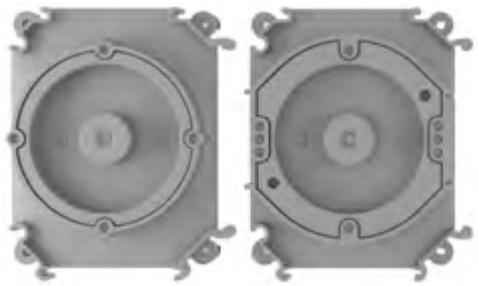
**magnet SB-M1**



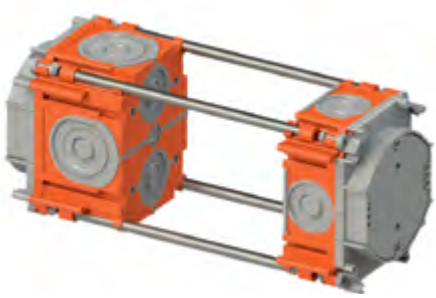

- fixing boxes using a magnet (suitable for the production of prefabricated elements)
- four types of device boxes
- sealed double-injection design
- 71 mm spacing for combined frames and 90 mm spacing for individual devices
- halogen-free material



length of spacer bars = thickness of the wall to be built - 45 mm



**SB-KP 60...** **SB-KP 68...**



length of spacer bars = thickness of the wall to be built - 70 mm

## SB-KP 60-50/M - device box for cast concrete installation, magnet fix

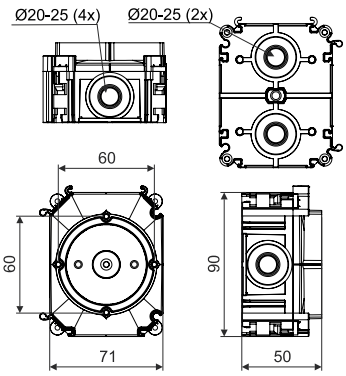


MAT | PP + TPE | -25 - +60 (90)°C | 650°C | A1 | 71/90 | HF

montage video

- device box for cast concrete installation depth 50 mm
- box cover designed for the SB-M1 magnet use to fix the box to the metal formwork
- possibility of fixing the box cover with nails or screws on wooden formwork
- possibility of fixing the box to the reinforcement with SB-MK 1 mounting wings (not included)
- possibility of using the box for double-sided mounting - using 6 mm KBP-8 steel bars (not included)

| item | desc. | | EAN |
|---|---|---|---|
| **SB-KP 60-50/M_AB** | 5 pcs of boxes with a covers in shrink wrap | 5; 60 | 8595568938602 |




ACCESSORIES



| V 68 | SB-M1 | SB-MK 1 | SB-MK 1 | KBP-8 | SB-ST 1 | SB-H 50 | NR 5X5 | NRB 60.. |
|---|---|---|---|---|---|---|---|---|
| pg. 122 | pg. 124 | pg. 123 | pg. 122 | pg. 124 | pg. 123 | pg. 123 | pg. 23 | pg. 124 |

## SB-KP 60-70/M - device box for cast concrete installation, magnet fix

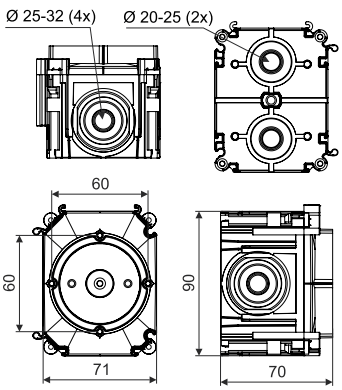


MAT | PP + TPE | -25 - +60 (90)°C | 650°C | A1 | 71/90 | HF

montage video

- device box for cast concrete installation depth 70 mm
- box cover designed for the SB-M1 magnet use to fix the box to the metal formwork
- possibility of fixing the box cover with nails or screws on wooden formwork
- possibility of fixing the box to the reinforcement with SB-MK 1 mounting wings (not included)
- possibility of using the box for double-sided mounting - using 6 mm KBP-8 steel bars (not included)

| item | desc. | | EAN |
|---|---|---|---|
| **SB-KP 60-70/M_AB** | 5 pcs of boxes with a covers in shrink wrap | 5; 30 | 8595568938619 |




ACCESSORIES



| V 68 | SB-M1 | SB-MK 1 | SB-MK 1 | KBP-8 | SB-ST 1 | SB-H 50 | NR 5X5 | NRB 60.. |
|---|---|---|---|---|---|---|---|---|
| pg. 122 | pg. 124 | pg. 123 | pg. 122 | pg. 124 | pg. 123 | pg. 123 | pg. 23 | pg. 124 |

## SB-KP 68-50/M - device box for cast concrete installation

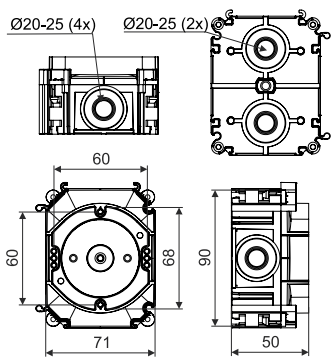


MAT | PP + TPE | -25 - +60 (90)°C | 650°C | A1 | 71/90 | HF

montage video

- device box for cast concrete installation depth 50 mm
- box cover designed for the SB-M1 magnet use to fix the box to the metal formwork
- possibility of fixing the box cover with nails or screws on wooden formwork
- possibility of fixing the box to the reinforcement with SB-MK 1 mounting wings (not included)
- possibility of using the box for double-sided mounting - using 6 mm KBP-8 steel bars (not included)

| item | desc. | | EAN |
|---|---|---|---|
| **SB-KP 68-50/M_AB** | 5 pcs of boxes with a covers in shrink wrap | 5; 60 | 8595568938640 |




ACCESSORIES



| V 68 | SB-M1 | SB-MK 1 | SB-MK 1 | KBP-8 | SB-ST 1 | SB-H 50 | NR 5X5 | NRB 60.. |
|---|---|---|---|---|---|---|---|---|
| pg. 122 | pg. 124 | pg. 123 | pg. 122 | pg. 124 | pg. 123 | pg. 123 | pg. 23 | pg. 124 |

## SB-KP 68-70/M - device box for cast concrete installation

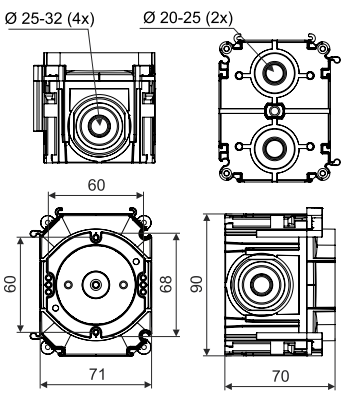


MAT | PP + TPE | -25 - +60 (90)°C | 650°C | A1 | 71/90 | HF

montage video

- device box for cast concrete installation depth 70 mm
- box cover designed for the SB-M1 magnet use to fix the box to the metal formwork
- possibility of fixing the box cover with nails or screws on wooden formwork
- possibility of fixing the box to the reinforcement with SB-MK 1 mounting wings (not included)
- possibility of using the box for double-sided mounting - using 6 mm KBP-8 steel bars (not included)

| item | desc. | | EAN |
|---|---|---|---|
| **SB-KP 68-70/M_AB** | 5 pcs of boxes with a covers in shrink wrap | 5; 30 | 8595568938657 |



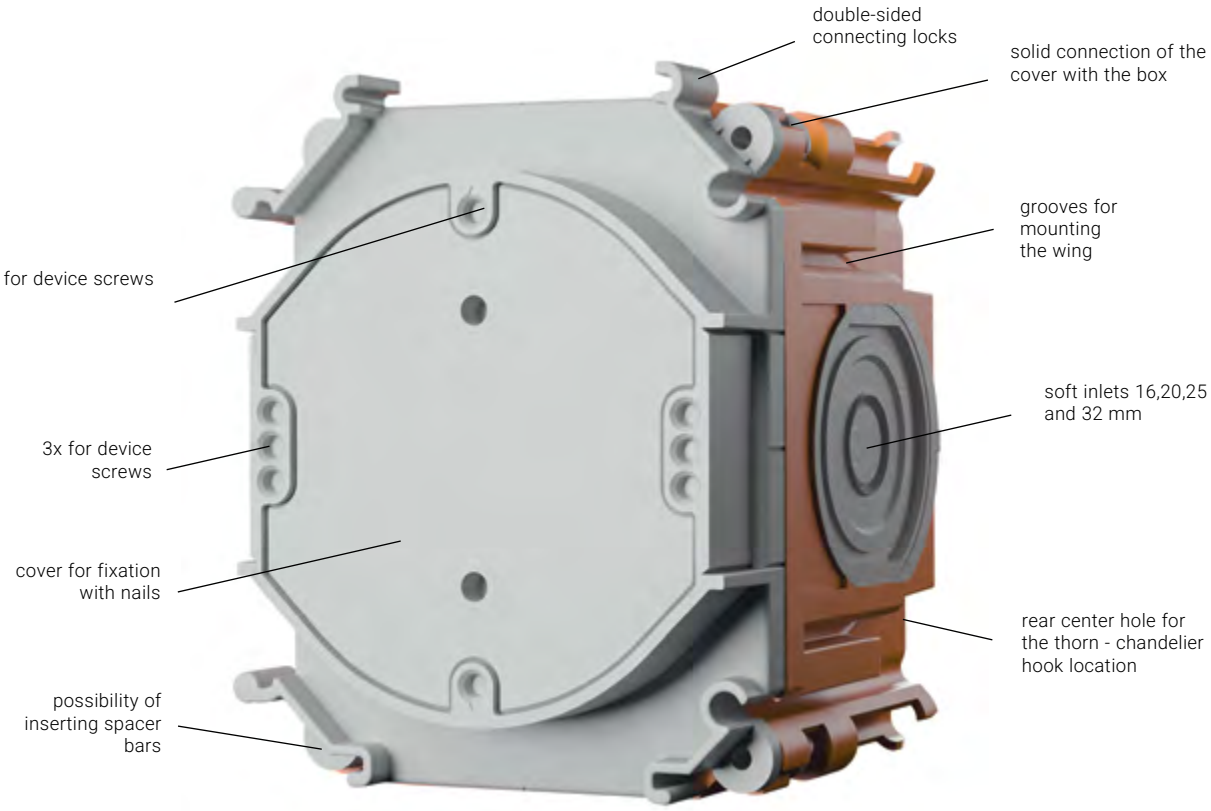

ACCESSORIES



| V 68 | SB-M1 | SB-MK 1 | SB-MK 1 | KBP-8 | SB-ST 1 | SB-H 50 | NR 5X5 | NRB 60.. |
|---|---|---|---|---|---|---|---|---|
| pg. 122 | pg. 124 | pg. 123 | pg. 122 | pg. 124 | pg. 123 | pg. 123 | pg. 23 | pg. 124 |

material | temperature resistance | for mounting a double-socket | spacing
fire reaction class of underlying material | flaming loop test | halogen-free material | package

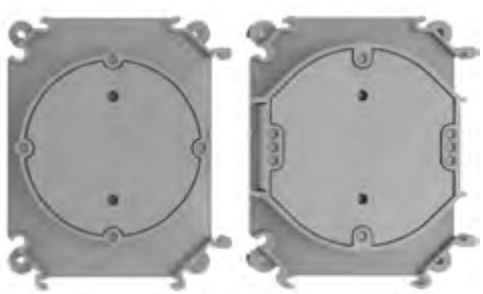
## System for cast concrete installation - fixing with nails



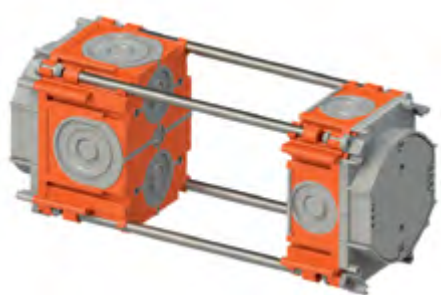

- fixing boxes using nails (suitable for the production of site concrete - monolithic construction)
- four types of device boxes
- sealed double-injection design
- 71 mm spacing for combined frames and 90 mm spacing for individual devices
- halogen-free material



length of spacer bars = thickness of the wall to be built - 45 mm



**SB-KP 60...** **SB-KP 68...**



length of spacer bars = thickness of the wall to be built - 70 mm



example of an assembly for direct mounting into a fitting using mounting wings

## SB-KP 60-50/L - device box for cast concrete installation, nail fix

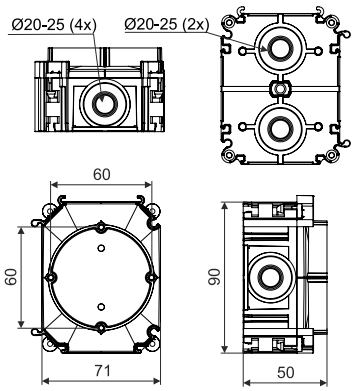


MAT | PP + TPE | -25 - +60 (90)°C | 650°C | A1 | 71/90 | HF

montage video

- device box for cast concrete installation depth 50 mm
- box cover adapted for nailing or screwing to wooden formwork
- possibility of fixing the box cover with glue from a hot melt gun
- possibility of fixing the box to the reinforcement with SB-MK 1 mounting wings (not included)
- possibility of using the box for double-sided mounting - using 6 mm KBP-8 steel bars (not included)

| item | desc. | | EAN |
|---|---|---|---|
| **SB-KP 60-50/L_AB** | 5 pcs of boxes with a covers in shrink wrap | 5; 60 | 8595568938626 |




ACCESSORIES



| V 68 | SB-MK 1 | SB-MK 1 | KBP-8 | SB-ST 1 | SB-H 50 | NR 5X5 | NRB 60.. |
|---|---|---|---|---|---|---|---|
| pg. 122 | pg. 123 | pg. 122 | pg. 124 | pg. 123 | pg. 123 | pg. 23 | pg. 124 |

## SB-KP 60-70/L - device box for cast concrete installation, nail fix

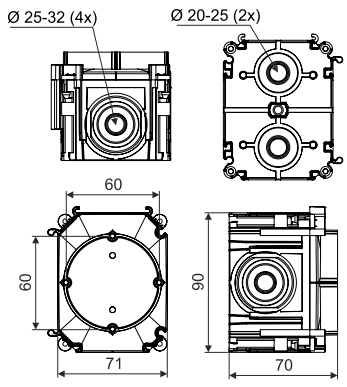


MAT | PP + TPE | -25 - +60 (90)°C | 650°C | A1 | 71/90 | HF

montage video

- device box for cast concrete installation depth 70 mm
- box cover adapted for nailing or screwing to wooden formwork
- possibility of fixing the box cover with glue from a hot melt gun
- possibility of fixing the box to the reinforcement with SB-MK 1 mounting wings (not included)
- possibility of using the box for double-sided mounting - using 6 mm KBP-8 steel bars (not included)

| item | desc. | | EAN |
|---|---|---|---|
| **SB-KP 60-70/L_AB** | 5 pcs of boxes with a covers in shrink wrap | 5; 30 | 8595568938633 |




ACCESSORIES



| V 68 | SB-MK 1 | SB-MK 1 | KBP-8 | SB-ST 1 | SB-H 50 | NR 5X5 | NRB 60.. |
|---|---|---|---|---|---|---|---|
| pg. 122 | pg. 123 | pg. 122 | pg. 124 | pg. 123 | pg. 123 | pg. 23 | pg. 124 |

material | temperature resistance | package | spacing
fire reaction class of underlying material | flaming loop test | halogen-free material

## SB-KP 68-50/L - device box for cast concrete installation, nail fix

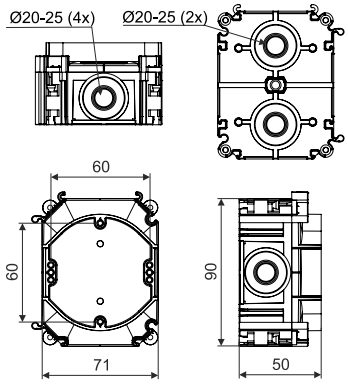


MAT | PP + TPE | -25 - +60 (90)°C | 650°C | A1 | 71/90 | HF

montage video

- device box for cast concrete installation depth 50 mm
- box cover adapted for nailing or screwing to wooden formwork
- possibility of fixing the box cover with glue from a hot melt gun
- possibility of fixing the box to the reinforcement with SB-MK 1 mounting wings (not included)
- possibility of using the box for double-sided mounting - using 6 mm KBP-8 steel bars (not included)

| item | desc. | | EAN |
|---|---|---|---|
| **SB-KP 68-50/L_AB** | 5 pcs of boxes with a covers in shrink wrap | 5; 60 | 8595568938664 |




ACCESSORIES



| V 68 | SB-MK 1 | SB-MK 1 | KBP-8 | SB-ST 1 | SB-H 50 | NR 5X5 | NRB 60.. |
|---|---|---|---|---|---|---|---|
| pg. 122 | pg. 123 | pg. 122 | pg. 124 | pg. 123 | pg. 123 | pg. 23 | pg. 124 |

## SB-KP 68-70/L - device box for cast concrete installation, nail fix

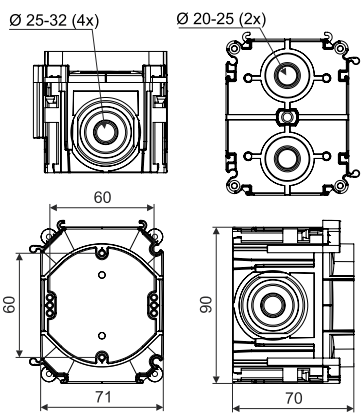


MAT | PP + TPE | -25 - +60 (90)°C | 650°C | A1 | 71/90 | HF

montage video

- device box for cast concrete installation depth 70 mm
- box cover adapted for nailing or screwing to wooden formwork
- possibility of fixing the box cover with glue from a hot melt gun
- possibility of fixing the box to the reinforcement with SB-MK 1 mounting wings (not included)
- possibility of using the box for double-sided mounting - using 6 mm KBP-8 steel bars (not included)

| item | desc. | | EAN |
|---|---|---|---|
| **SB-KP 68-70/L_AB** | 5 pcs of boxes with a covers in shrink wrap | 5; 30 | 8595568938671 |



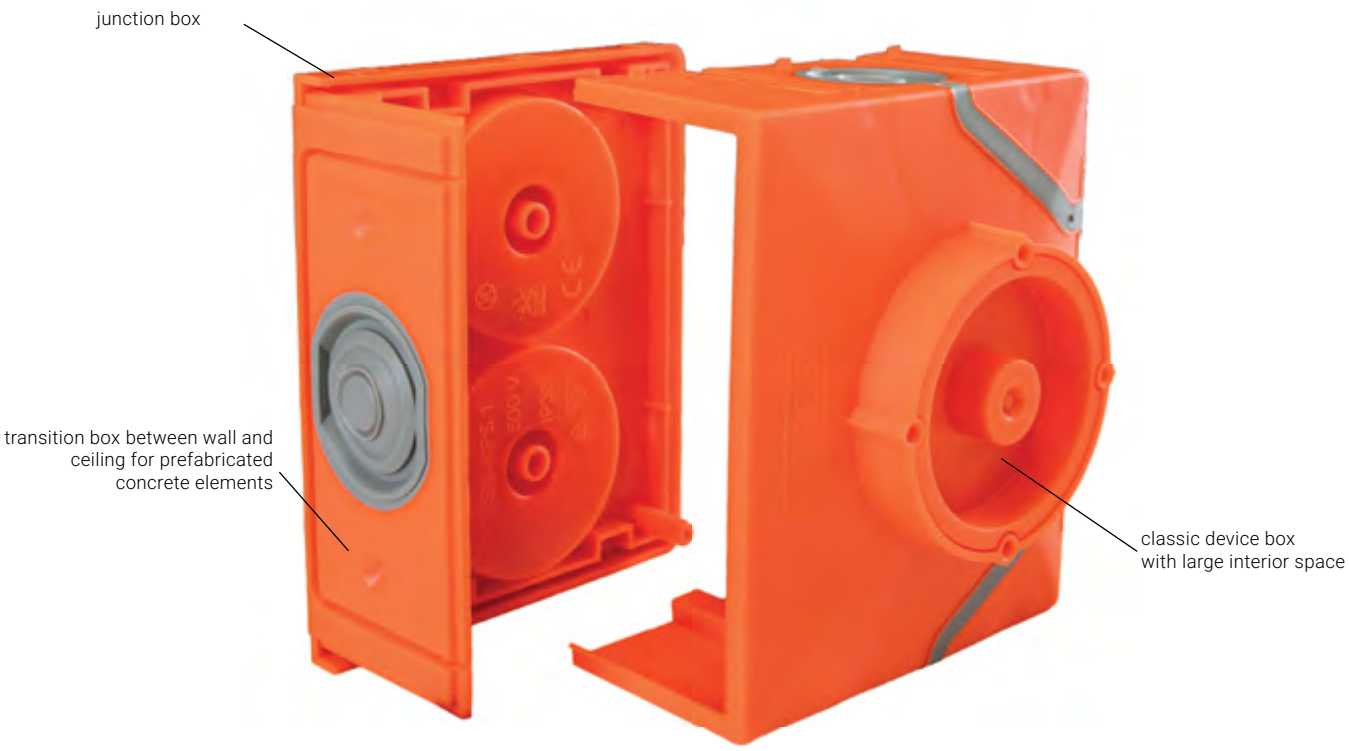

ACCESSORIES



| V 68 | SB-MK 1 | SB-MK 1 | KBP-8 | SB-ST 1 | SB-H 50 | NR 5X5 | NRB 60.. |
|---|---|---|---|---|---|---|---|
| pg. 122 | pg. 123 | pg. 122 | pg. 124 | pg. 123 | pg. 123 | pg. 23 | pg. 124 |

material | temperature resistance | for mounting a double-socket | spacing
fire reaction class of underlying material | flaming loop test | halogen-free material | package

## System for cast concrete installation - 1 box 3 usage options




- the collection box consists of two parts that snap together
- possibility of fixation using a magnet, nail and mounting wings
- membrane passages for installation of pipes ø 20-25 mm and ø 25-32 mm



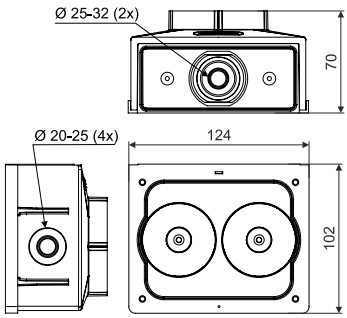
## SB-KPS 1 - device box/ concrete collection box



MAT | PP + TPE
-25 - +60 (90)°C
650°C
A1
HF

montageni videa

- collection box for cast concrete
- this serves as a transition box between a wall and a ceiling in prefabricated concrete elements, or as a classic device box with a large internal space, or as a larger junction box
- the box consists of two parts that snap together
- it allows for fixation to metal formwork using SB-M1 holding magnets, direct nailing to the formwork, or using SB-MK 1 mounting wings on the rebar (before snapping the box parts together)
- the box features membrane entries for installing pipes of ø 20-25 mm and ø 25-32 mm, while maintaining installation tightness




| item | desc. | | EAN |
|---|---|---|---|
| **SB-KPS 1_AB** | each box wrapped in shrink foil | 1; 20 | 8595568942159 |

ACCESSORIES


**SB-MK 1**
pg. 123


**SB-VKPS 1**
pg. 121


**V 68**
pg. 122

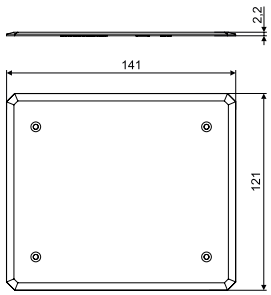
## SB-VKPS 1 - cover



MAT | PC-ABS
-25 - +60
650°C
A1
HF

- for final covering of the SB-KPS 1 junction box

| item | desc. | | EAN |
|---|---|---|---|
| **SB-VKPS 1_HB** | covers wrapped in shrink foil and placed in a carton | 5; 190 | 8595568942166 |




ACCESSORIES


**2,9x13Z**
pg. 82

material
fire reaction class of underlying material
temperature resistance
flaming loop test
package
halogen-free material

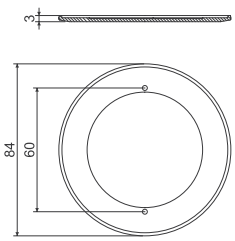
## V 68 - cover



| MAT | | | | |
|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. |

- to cover the boxes with fixing spacing of 60 mm using fastening screws 2.9x13Z

| item | desc. | | EAN |
|---|---|---|---|
| **V 68_HA** | covers are packed in a bag, the bag is put in a carton | 100; 400 | 8595057600577 |



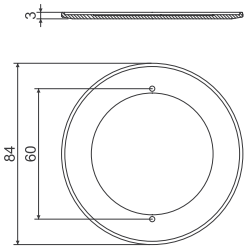

## V 68HF - halogen-free cover



| MAT | | | | | HF |
|---|---|---|---|---|---|
| PC-ABS | -5 - +60°C | 850°C | A1 - F | 30 sec. | |

- for premises with increased need for protection of persons and property
- to cover the boxes with fixing spacing of 60 mm using fastening screws 2.9x13Z

| item | desc. | | EAN |
|---|---|---|---|
| **V 68HF_HB** | covers in packaging of 10 pcs, sealed in shrink foil | 10; 100 | 8595057634114 |



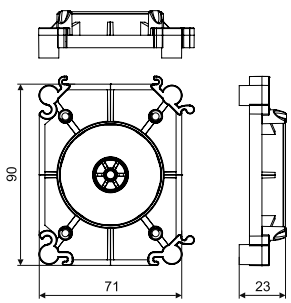

## SB-P 1 - support



| MAT | | | | | HF |
|---|---|---|---|---|---|
| PP | -25 - +60 (90)°C | 650°C | A1 | 71/90 | |

- support for cast-in-place concrete for splitting the box between opposing formwork
- support adapted for the insertion of the SB-M1 adhesion magnet for fixing the box to the metal formwork
- possibility of fixing with nails or screws on wooden formwork
- allows fixing of the opposite box with 6mm KBP-8 steel bars (not included)

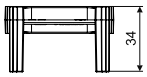
| item | desc. | | EAN |
|---|---|---|---|
| **SB-P 1_KB** | 5pcs packed in plastic bag | 5; 110 | 8595568938718 |

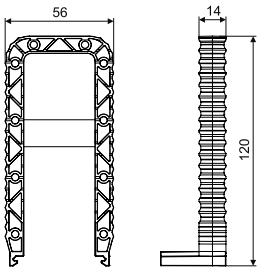



material
temperature resistance
package
spacing
fire reaction class of underlying material
flaming loop test
halogen-free material
self-extinguishing

## SB-MK 1 - mounting wings






MAT | -25 - +60 (90)°C | 650°C | A1 | HF

PP

- for direct fixing of boxes to steel fittings
- can be mounted on all sides of SB-KP boxes
- ensures the springing of the inserted assembly in the range of 15 to 30 mm or 30 to 50 mm, depending on the chosen orientation of the wing in the box
- fixing of the mounting wings with wires or by using tightening strips
- recommendation of 2 wings per box

| item | desc. | | EAN |
|---|---|---|---|
| **SB-MK 1_KB** | 10 mounting wings in shrink wrap | 10; 210 | 8595568938725 |

## SB-H - ceiling hook

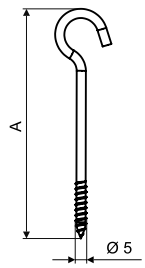


MAT | -25 - +60 °C | HF

hook: steel

**cover: PVC**

- two lengths of the hook according to the chosen depth of the box
- cover, insulating sleeve and screws included
- maximum load 25 kg




| item | desc. | A (mm) | | EAN |
|---|---|---|---|---|
| **SB-H 50_XX** | ceiling hook for 50 mm deep boxes, 5 pcs packed in a plastic bag | 50 | 5; 50 | 8595568938695 |
| **SB-H 70_XX** | ceiling hook for 70 mm deep boxes, 5 pcs packed in a plastic bag | 70 | 5; 50 | 8595568938701 |

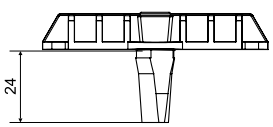
## SB-ST 1 - ceiling hook support

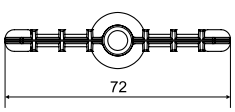


MAT | -25 - +60 °C | 650°C | A1 | HF

PA

- ceiling hook support for light fixture
- can be installed in all box variants for cast concrete installation by screwing into the bottom before concreting
- maximum load 25 kg




| item | desc. | | EAN |
|---|---|---|---|
| **SB-ST 1_KB** | 5pcs packed in plastic bag | 5; 60 | 8595568938688 |

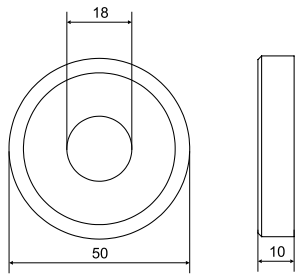
## SB-M1 - magnet



MAT

steel

- adhesion magnet for installation on steel formwork
- force 500 N




| item | desc. | | EAN |
|---|---|---|---|
| **SB-M1_XX** | packed 1pc per carton | 1; 15 | 8595568937384 |

## KBP-8 - steel rod



MAT

steel

3000

- to bracing the boxes between formwork walls when pouring concrete
- use together with covers and supports - see assembly diagrams
- the rod must be cut to length - determining the length is specified for each assembly

| item | desc. | | EAN |
|---|---|---|---|
| **KBP-8_ZA** | steel rod Ø 6 mm | 3; 30 | 8595057610231 |

## NRB 60... - extension frame into concrete



MAT

PE

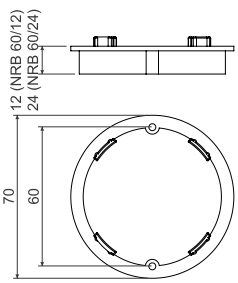
-5 - +60 (90)°C

650°C

A1

HF

- to adjust the box height when applying plaster




| item | desc. | | EAN |
|---|---|---|---|
| **NRB 60/12_AB** | packed in bags of 10 pieces | 10; 340 | 8595057616455 |
| **NRB 60/24_AB** | packed in bags of 10 pieces | 10; 160 | 8595057616462 |

material
fire reaction class of underlying material
temperature resistance
flaming loop test
package
halogen-free material
length (mm)

## BV... - bushing for pipes

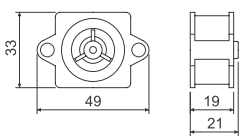


MAT PP | -5 - +60 (90)°C | 650°C | A1 | HF

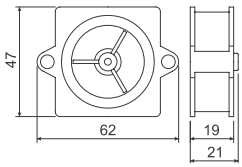
- the glands are fixed to the formwork using nails
- after hardening of the concrete mixture, formwork is removed together with front cover
- to introduce the pipe, use BK-type fittings as per pipe dimension:

  BV 1620 - fittings BK 16, BK 20
  BV 2532 - fittings BK 25, BK 32, BK 16 CSN, BK 23

BV 1620




BV 2532



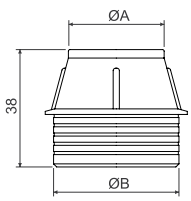

| item | desc. | | EAN |
|---|---|---|---|
| **BV 1620_KA** | for dimensioned pipes EN 16, 20 | 40; 560 | 8595057621985 |
| **BV 2532_KA** | for dimensioned pipes EN 25, 32 and ČSN 16, 23 | 40; 280 | 8595057621992 |

## BK... - ending for pipes



MAT PE | -5 - +60 (90)°C | 650°C | A1 | HF

- for insertion of pipes LPE-1 (pg. 234, 235) into the BV glands



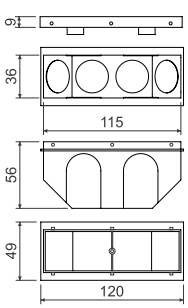

| item | desc. | A (mm) | B (mm) | | EAN |
|---|---|---|---|---|---|
| **BK 16_AA** | for dimensioned pipes EN 16 | 19 | 27 | 40; 600 | 8595057621688 |
| **BK 16 CSN_AA** | for dimensioned pipes ČSN 16 | 24 | 40 | 40; 320 | 8595057629165 |
| **BK 20_AA** | for dimensioned pipes EN 20 | 23 | 27 | 40; 560 | 8595057621718 |
| **BK 23_AA** | for dimensioned pipes ČSN 23 | 30 | 40 | 40; 280 | 8595057629158 |
| **BK 25_AA** | for dimensioned pipes EN 25 | 28 | 40 | 40; 320 | 8595057621701 |
| **BK 32_AA** | for dimensioned pipes EN 32 | 35 | 40 | 40; 280 | 8595057621695 |

## KBS-120 - spacer into concrete



MAT PE | -5 - +60 (90)°C | 650°C | A1 | HF

- for outlet of multiple wiring into one place (e.g. at the location of future distribution systems)
- box cover is fixed to the formwork using nails or screws
- after solidification, remove the front rip-out part of the cover




| item | desc. | | EAN |
|---|---|---|---|
| **KBS-120_AB** | packed in shrink foil | 10; 60 | 8595057624269 |

material | temperature resistance | package
fire reaction class of underlying material | flaming loop test | halogen-free material



# WIRING TRUNKINGS AND ACCESSORIES


WIRING TRUNKINGS ..... 131

WIRING TRUNKINGS - ACCESSORIES ..... 165

PARAPET TRUNKINGS ..... 184

PARAPET TRUNKINGS - ACCESSORIES ..... 203

DISTRIBUTION TRUNKINGS ..... 216

# WIRING AND PARAPET TRUNKINGS AND ACCESSORIES

Produced in compliance with ČSN EN 50 085-1 (ČSN 37 0100) and further applicable standards, specifications, and approved documentation.

The trunkings passed the resistance test to spread of flame in compliance with ČSN EN 50085-1 §13 and ČSN 33 2312 ed. 2. According to ČSN EN 33 2312 ed. 2, the company KOPOS KOLÍN a.s. as manufacturer recommends the assembly of boxes on and into building materials with fire reaction class from A1 to F, in accordance with ČSN EN 13501-1.

The trunkings are resistant to aggressive and chemical environment (see page pg. 292). The trunkings are not resistant to UV rays and they are not suitable for the outside environment.

Covering grade up to IP 40. When the trunkings are fitted with a cover or device that has higher or equal protection IP 40, it applies for the trunkings as well. Only for low voltage use.

The trunking covers are manufactured together with the trunking and must be also assembled together with the trunking. All trunking have holes at the bottom for fixing.

Trunkings and accessories for trunking distribution frame are usually supplied in a white colour RAL 9003.
Selected trunkings are offered in other colors or imitation of a wood. The colour shades of trunkings of individual lots may vary.
The trunkings are supplied as standard in a length of 2 meters with a tolerance of ± 0.5% at 20 °C.

Electro-installation trunking (insertive, rectangular, halogen-free) and parapet canals with accesories can be installed in zones with explosion hazard of flammable gases (zone 2) and with the risk of explosion of flammable dusts (zone 22), installation must comply with EN 60079-14. For the storage, EN 64 0090 applies.

According to the requirements of ČSN EN 60670-1 § 18, the boxes comply with the excessive-heat resistance test as well as the test with flaming loop with temperature 850 °C. According to ČSN EN 332312 ed. 2, the company KOPOS KOLÍN a.s. as manufacturer recommends the assembly of boxes on and into building materials with fire reaction class from A1 to C or D, in accordance with ČSN EN 13501-1.

The boxes are designed for distribution system with voltage up to 400 V and with maximum current 16 A. In combination with heat-insulating pad (see page pg. 178) with thickness of 5 mm made of material with reaction to fire class A1 - F the installation on flammable surfaces may be carried out without any limitation.

**All trunkings and respective accessories are in compliance with EU directions.**

**All trunkings and respective accessories (except for shielding channels and support trunkings) are in compliance with German electrical standard.**

All wiring and parapet trunkings, are also available on our website.

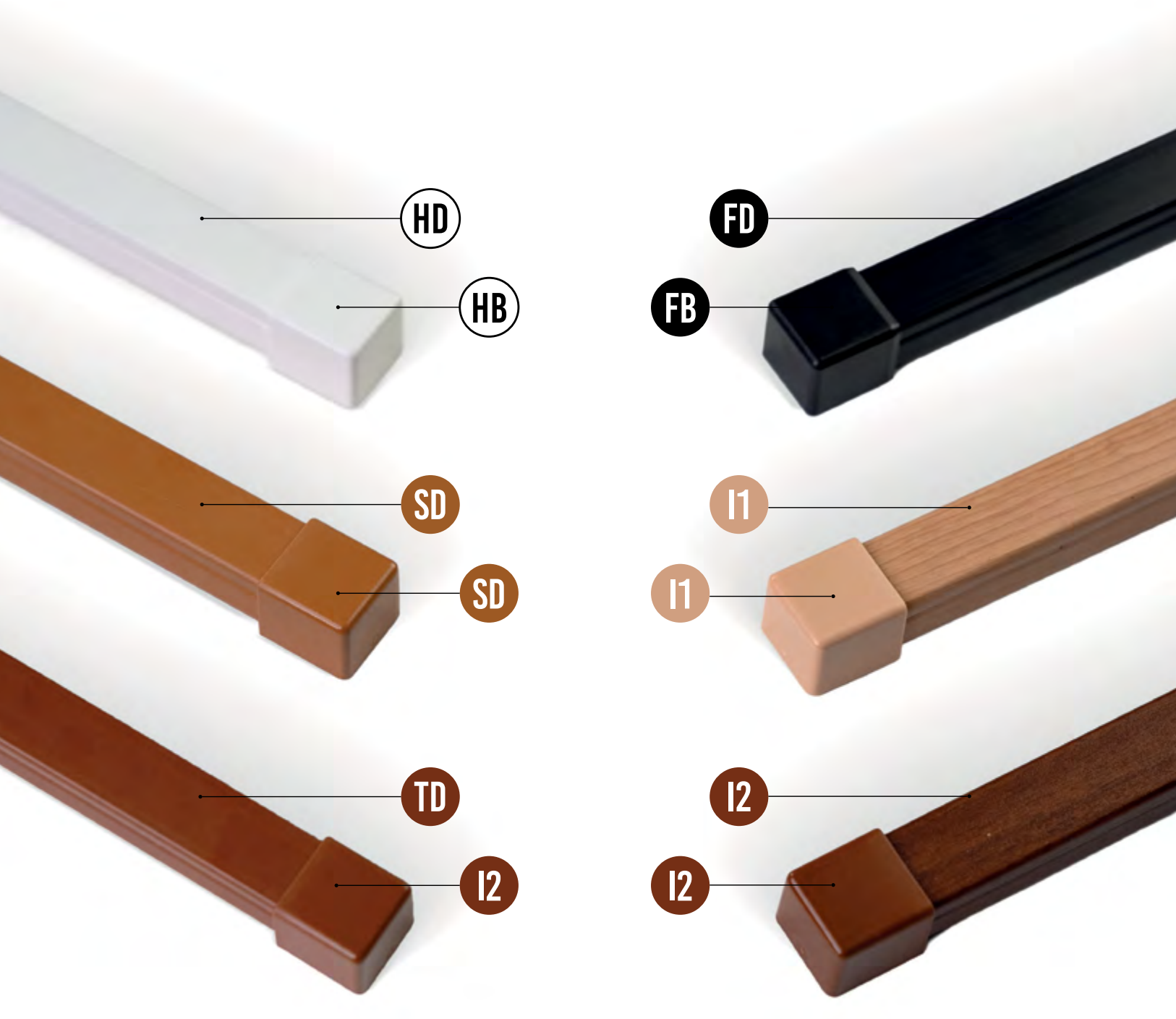
## ICONS - LEGEND

| | | | | | |
|---|---|---|---|---|---|
| | temperature resistance, scope of application (°C) | | area with a risk of explosion | | color |
| | flaming loop test (°C) | IP | level of protection - IP classification | MAT | material |
| | fire reaction class of underlying material | IK | mechanical protection | | package (m) |
| E | impact strength (J)<br>very low = 0,5 J; low = 1 J; medium = 2 J | | protective foil | | antibacteriality |
| | allows to install double-socket | HF | halogen-free material | | self-extinguishing |
| | spacing when joining two boxes (mm) | | outer dimensions - width, height (mm) | | outside diameter (mm) |
| | allows installing wall socket 400 V / 16 A (32 A) | | inner dimensions - width, height (mm) | | inside area (mm2) |

## Meaning of used configurations

| trunking | end | connecting | bending | branching | inner corner | outer corner | end left | end right |
|---|---|---|---|---|---|---|---|---|
| **LV 18X13_SD** | 8731_SD | 8732_SD | 8733_SD | 8734_SD | 8735_SD | 8736_SD | - | - |
| **LV 18X13_TD** | 8731_I2 | 8732_I2 | 8733_I2 | 8734_I2 | 8735_I2 | 8736_I2 | - | - |
| **LHD 20X20_I1** | 8621_I1 | 8622_I1 | 8623_I1 | 8624_I1 | 8625_I1 | 8626_I1 | - | - |
| **LHD 20X20_I2** | 8621_I2 | 8622_I2 | 8623_I2 | 8624_I2 | 8625_I2 | 8626_I2 | - | - |
| **LHD 20X20_SD** | 8621_SD | 8622_SD | 8623_SD | 8624_SD | 8625_SD | 8626_SD | - | - |
| **LHD 20X20_TD** | 8621_I2 | 8622_I2 | 8623_I2 | 8624_I2 | 8625_I2 | 8626_I2 | - | - |
| **LHD 40X20_I1** | 8631_I1 | 8632_I1 | 8633_I1 | 8634_I1 | 8635_I1 | 8636_I1 | - | - |
| **LHD 40X20_I2** | 8631_I2 | 8632_I2 | 8633_I2 | 8634_I2 | 8635_I2 | 8636_I2 | - | - |
| **LHD 40X20_SD** | 8631_SD | 8632_SD | 8633_SD | 8634_SD | 8635_SD | 8636_SD | - | - |
| **LHD 40X20_TD** | 8631_I2 | 8632_I2 | 8633_I2 | 8634_I2 | 8635_I2 | 8636_I2 | - | - |
| **LHD 40X40_SD** | 8641_SD | 8642_SD | 8643_SD | 8644_SD | 8645_SD | 8646_SD | - | - |
| **LHD 40X40_TD** | 8641_I2 | 8642_I2 | 8643_I2 | 8644_I2 | 8645_I2 | 8646_I2 | - | - |
| **LP 35_I1** | - | - | - | - | 8865_I1 | 8866_I1 | 8861 L_I1 | 8861 P_I1 |
| **LP 35_I2** | - | - | - | - | 8865_I2 | 8866_I2 | 8861 L_I2 | 8861 P_I2 |
| **LP 35_SD** | - | - | - | - | 8865_SD | 8866_SD | 8861 L_SD | 8861 P_SD |
| **LP 35_TD** | - | - | - | - | 8865_I2 | 8866_I2 | 8861 L_I2 | 8861 P_I2 |

**The covers with type I2 are suitable to trunkings with type TD.**



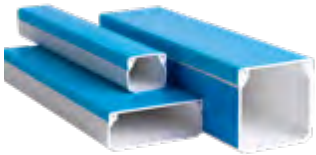


WIRING

# TRUNKINGS

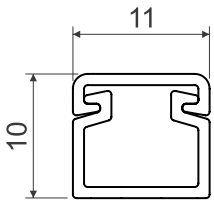
www.kopos.com

## Protective foil



- protection against damage during the transport and installation
- easily removable film after installation
- cover coated for square trunkings up to LHD 40X40
- coever and sides coated for square trunkings larger than LHD 40X40

## LV 11X10 - insertion trunkings




| MAT | | | | | E | | | IP | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 50 mm$^2$ | | IP20 | | |

- the smallest dimension of trunkings produced in KOPOS KOLÍN a.s.
- due to its dimensions, it is supplied without accessories

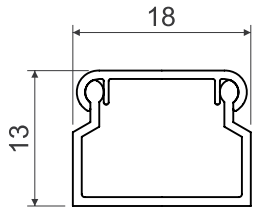
| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LV 11X10_HD** | white | 2 | 150 | carton | 8595057608504 | - |
| **LV 11X10_P2** | white | 2 | 150 | carton | 8595057690936 | self-adhesive tape |



material
fire reaction class of underlying material
antibacteriality
temperature resistance
flaming loop test
self-extinguishing
package
IP protection
color
impact strength
inside area
area with a risk of explosion
protective foil

# LV 18X13 - insertion trunkings

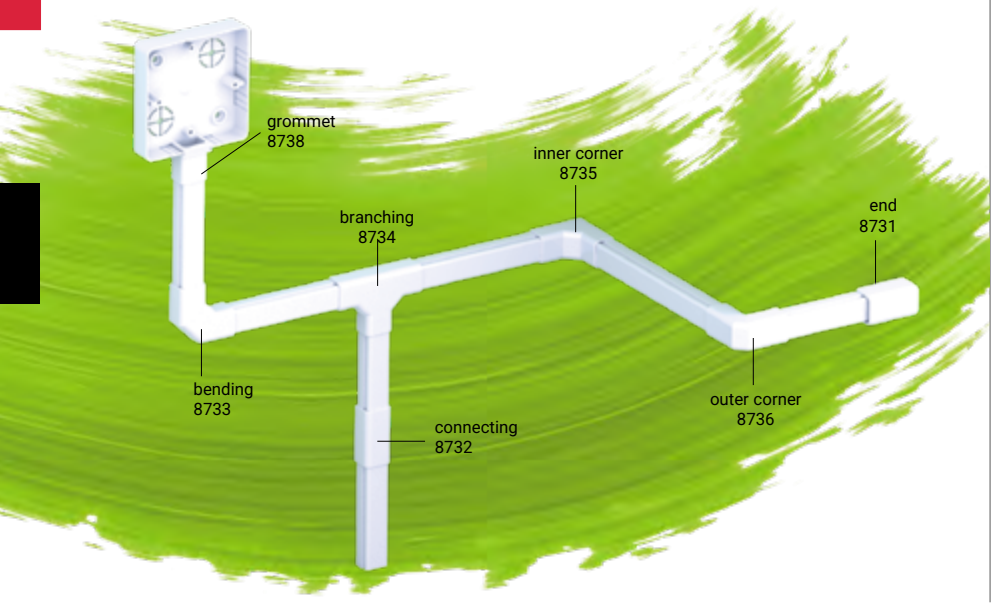





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 145 mm² | IP40

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| LV 18X13_HC | white | 2 | 176 | foil | 8595057601659 | without protective foil |
| LV 18X13_HD | white | 2 | 70 | carton | 8595057608511 | with protective foil |
| LV 18X13_P2 | white | 2 | 70 | carton | 8595057690943 | self-adhesive tape |
| LV 18X13_SD | light wood | 2 | 70 | carton | 8595568903068 | - |
| LV 18X13_TD | dark wood | 2 | 70 | carton | 8595568903075 | - |

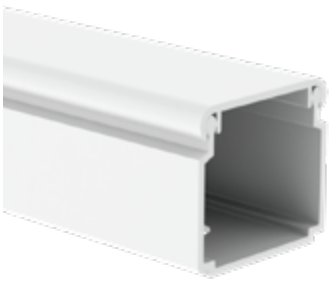


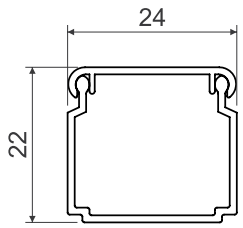

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8731_HB** | 10 | 8595057609303 |
| | **8731_I2** | 1 | 8595568906779 |
| | **8731_SD** | 1 | 8595568906762 |
| **connecting** | | | |
| | **8732_HB** | 10 | 8595057610330 |
| | **8732_I2** | 1 | 8595568909213 |
| | **8732_SD** | 1 | 8595568909206 |
| **bending** | | | |
| | **8733_HB** | 10 | 8595057610392 |
| | **8733_I2** | 1 | 8595568905499 |
| | **8733_SD** | 1 | 8595568905505 |
| **branching** | | | |
| | **8734_HB** | 10 | 8595057609327 |
| | **8734_I2** | 1 | 8595568909657 |
| | **8734_SD** | 1 | 8595568909640 |
| **inner corner** | | | |
| | **8735_HB** | 10 | 8595057610651 |
| | **8735_I2** | 1 | 8595568909633 |
| | **8735_SD** | 1 | 8595568909626 |
| **outer corner** | | | |
| | **8736_HB** | 10 | 8595057609341 |
| | **8736_I2** | 1 | 8595568909619 |
| | **8736_SD** | 1 | 8595568909602 |
| **grommet** | | | |
| | **8737_HB** | 10 | 8595057612143 |
| | intended for transition to trunking box LK 80X16 T pg. 167, 176,177 | | |
| **grommet** | | | |
| | **8738_HB** | 10 | 8595057615311 |
| | intended for transition to trunking box LK 80X20... pg. 171 | | |
| **grommet** | | | |
| | **8739_HB** | 10 | 8595057611252 |
| | **8739_I2** | 1 | 8595568909107 |
| | **8739_SD** | 1 | 8595568909138 |
| | intended for transition to trunking box LK 80X28... pg. 165, 166, 168-171, 174-176 | | |
| **raised grommet** | | | |
| | **8739 Z_HB** | 10 | 8595057614406 |
| | intended for transition to trunking box LK 80x28...with PI insulation pad pg. 165, 166, 168-171, 174-176, 178 | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# LV 24X22 - insertion trunkings

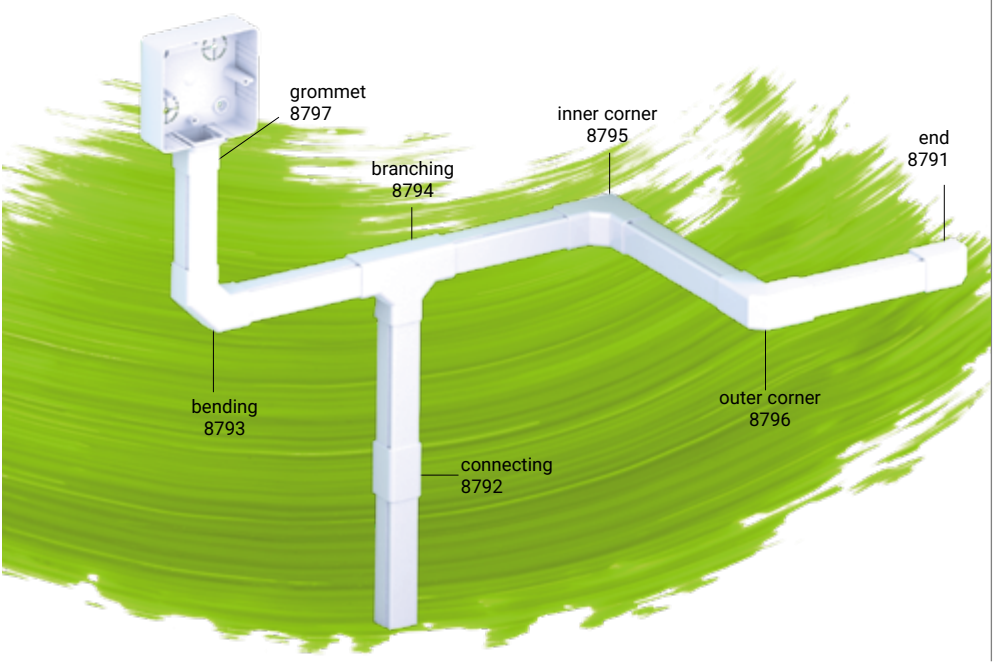





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 400 mm² | IP40

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **LV 24X22_HC** | ◯ white | 2 | 96 | foil | 8595057601673 | without protective foil |
| **LV 24X22_HD** | ◯ white | 2 | 40 | carton | 8595057609532 | with protective foil |
| **LV 24X22_P2** | ◯ white | 2 | 30 | carton | 8595057690950 | self-adhesive tape |



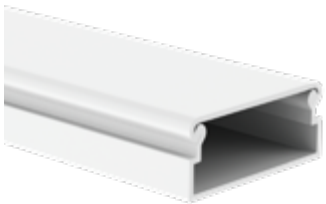

## Accessories

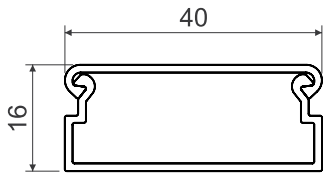
| item | | | EAN |
|---|---|---|---|
| **end** | **8791_HB** | 10 | 8595057651609 |
| **connecting** | **8792_HB** | 10 | 8595057651616 |
| **bending** | **8793_HB** | 10 | 8595057651623 |
| **branching** | **8794_HB** | 10 | 8595057651630 |
| **inner corner** | **8795_HB** | 10 | 8595057651647 |
| **outer corner** | **8796_HB** | 10 | 8595057651654 |
| **grommet** | **8797_HB** | 10 | 8595057651661 |

intended for transition to trunking box LK 80X28... pg. 165, 166, 168-171, 174-176

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# LV 40X15 - insertion trunkings

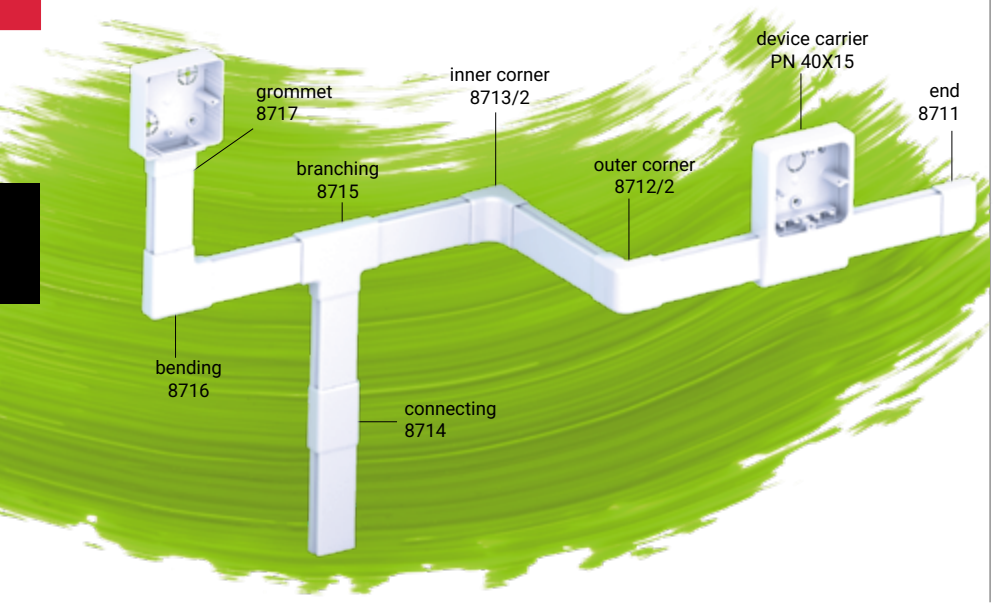




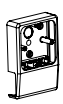

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 540 mm² | IP40

- designedfor wall or ceiling mounting
- PN 40X15 device carrier for installing classic devices

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **LV 40X15_HD** | white | 2 | 30 | carton | 8595057609433 | with protective foil |
| **LV 40X15_P2** | white | 2 | 30 | carton | 8595057690967 | self-adhesive tape |

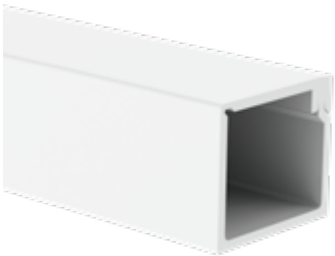


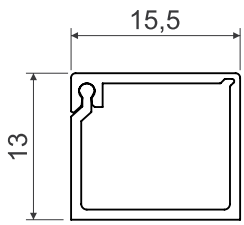

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8711_HB** | 10 | 8595057608696 |
| **connecting** | | | |
|  | **8714_HB** | 10 | 8595057611849 |
| **bending** | | | |
|  | **8716_HB** | 10 | 8595057611559 |
| **branching** | | | |
|  | **8715_HB** | 10 | 8595057610040 |
| **inner corner** | | | |
|  | **8713/2_HB** | 10 | 8595057610354 |
| **outer corner** | | | |
|  | **8712/2_HB** | 10 | 8595057610613 |
| **raised grommet** | | | |
|  | **8717_HB** | 10 | 8595057610620 |
| intended for transition to trunking box LK 80X16 (pg. 167, 176-178)... with PI insulation pad | | | |
| **grommet** | | | |
|  | **8719_HB** | 10 | 8595057608719 |
| intended for transition to trunking box LK 80X28... pg. 165, 166, 168-171, 174-176 | | | |
| **raised grommet** | | | |
|  | **8719 Z_HB** | 10 | 8595057614420 |
| intended for transition to trunking box LK 80X28 ( pg. 165, 166, 168-171, 174-177)... with PI insulation pad | | | |
| **device carrier** | | | |
|  | **PN 40X15_HB** | 10 | 8595057610569 |
| more information on pg. 179 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# LZ 15X12 - snap-on trunking





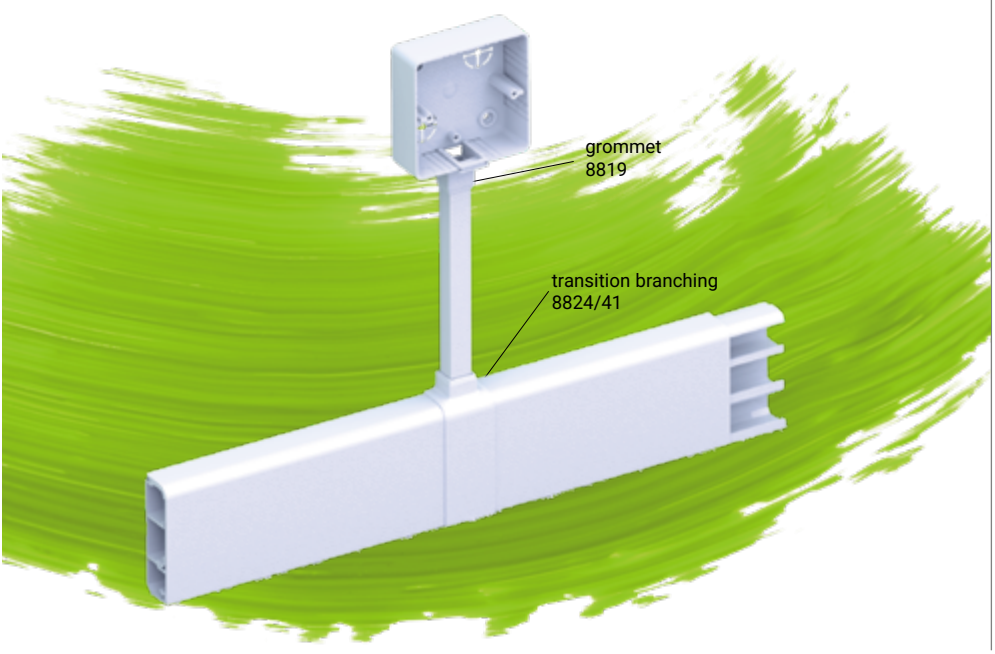

PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 140 mm² | IP40

- one side of the cover is part of the trunking body, the other snaps into the lock
- double lock increasing the rigidity of the trunking and ensuring a firmer fixation of the cover

| item | | L m | m | desc. | EAN |
|---|---|---|---|---|---|
| **LZ 15X12_HD** | white | 2 | 96 | carton | 8595057612426 |

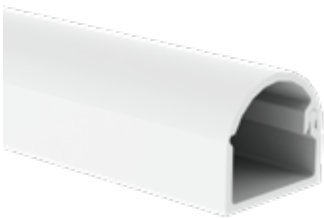
## Accessories

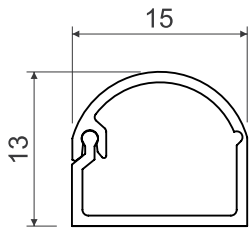
| item | | EAN |
|---|---|---|
| **grommet** | | |
|  **8819_HB** | 10 | 8595057612679 |
| intended for transition to trunking box LK 80X28... pg. **165, 166, 168-171, 174-176** | | |
| **transition branching** | | |
|  **8824/41_HB** | 10 | 8595057612693 |
| intended for transition to trunking LP 80X25... pg. **162** | | |




material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# LZK 15X12 - snap-on trunking round





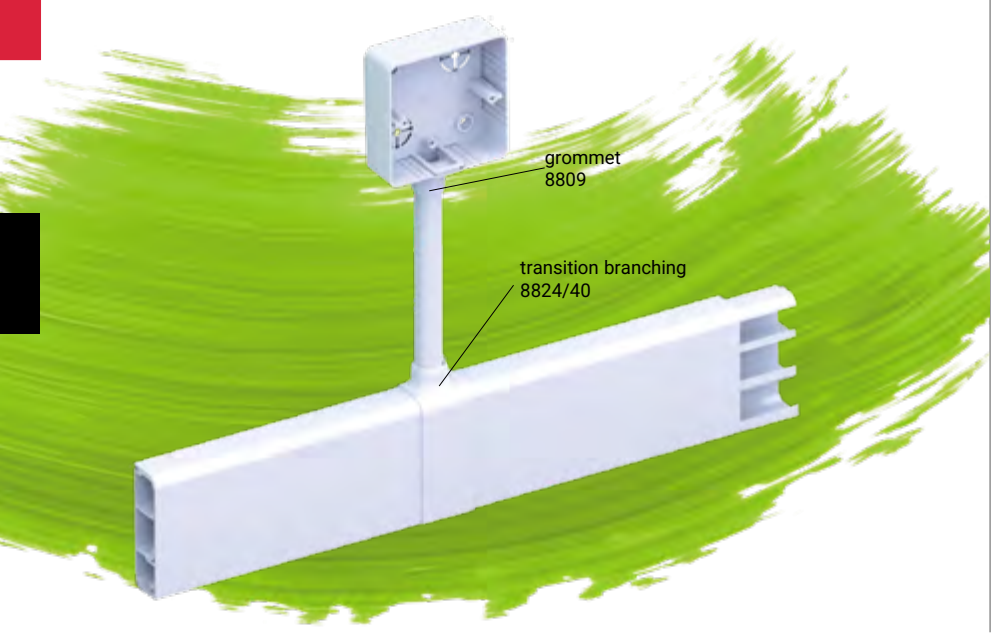

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 120 mm² | IP40

- one side of the cover is part of the trunking body, the other snaps into the lock
- double lock increasing the rigidity of the trunking and ensuring a firmer fixation of the cover
- **European Industrial design protection**

| item | | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **LZK 15X12_HD** | ◯ | white | 2 | 96 | carton | 8595057620551 | - |
| **LZK 15X12_P2** | ◯ | white | 2 | 96 | carton | 8595057690998 | self-adhesive tape |

## Accessories

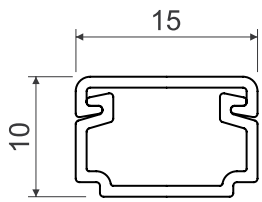
| item | | EAN |
|---|---|---|
| **grommet** | | |
|  **8809_HB** | 10 | 8595057612686 |
| intended for transition to trunking box LK 80X28... pg. 165, 166, 168-171, 174-176 | | |
| **transition branching** | | |
|  **8824/40_HB** | 10 | 8595057612709 |
| intended for transition to trunking LP 80X25... pg. 162 | | |




material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# LH 15X10 - square trunking





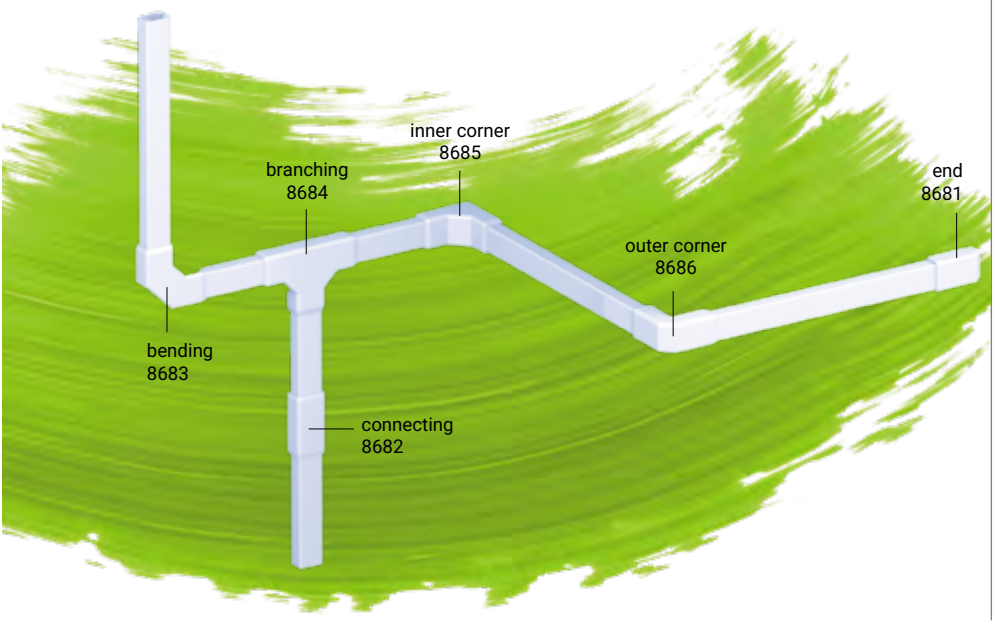

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 104 mm² | IP40 | IK06

- designedfor wall or ceiling mounting

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LH 15X10_HC** | ◯ white | 2 | 176 | foil | 8595057616516 | without protective foil |
| **LH 15X10_HD** | ◯ white | 2 | 128 | carton | 8595057621374 | wit protective foil |
| **LH 15X10_P2** | ◯ white | 2 | 128 | carton | 8595057690974 | self-adhesive tape |

## Accessories

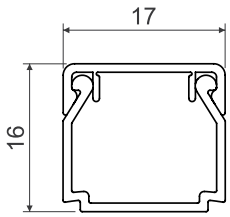
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8681_HB** | 10 | 8595057616813 |
| **connecting** | | | |
|  | **8682_HB** | 10 | 8595057616806 |
| **bending** | | | |
|  | **8683_HB** | 10 | 8595057616790 |
| **branching** | | | |
|  | **8684_HB** | 10 | 8595057616783 |
| **inner corner** | | | |
|  | **8685_HB** | 10 | 8595057616776 |
| **outer corner** | | | |
|  | **8686_HB** | 10 | 8595057616769 |




material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LHD 17X17 - square trunking

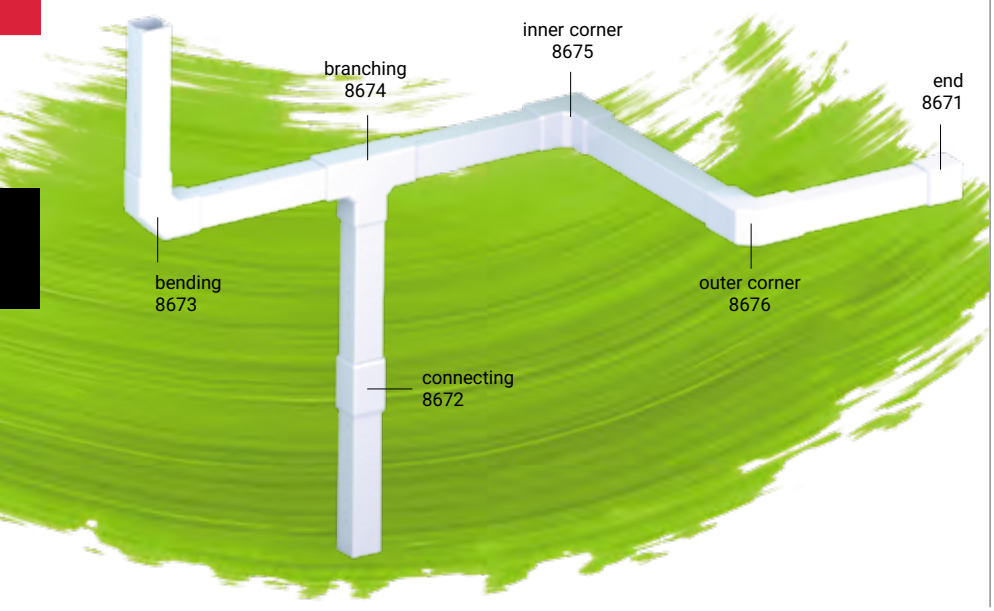





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 190 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **LHD 17X17_HC** | ◯ white | 2 | 176 | foil | 8595057616530 | without protective foil |
| **LHD 17X17_HD** | ◯ white | 2 | 70 | carton | 8595057619920 | protective foil |
| **LHD 17X17_P2** | ◯ white | 2 | 70 | carton | 8595057691001 | self-adhesive tape |



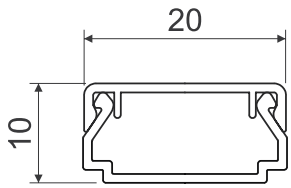

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | **8671_HB** | 10 | 8595057616752 |
| **connecting** | **8672_HB** | 10 | 8595057616745 |
| **bending** | **8673_HB** | 10 | 8595057616738 |
| **branching** | **8674_HB** | 10 | 8595057616714 |
| **inner corner** | **8675_HB** | 10 | 8595057616721 |
| **outer corner** | **8676_HB** | 10 | 8595057616707 |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LHD 20X10 - square trunking

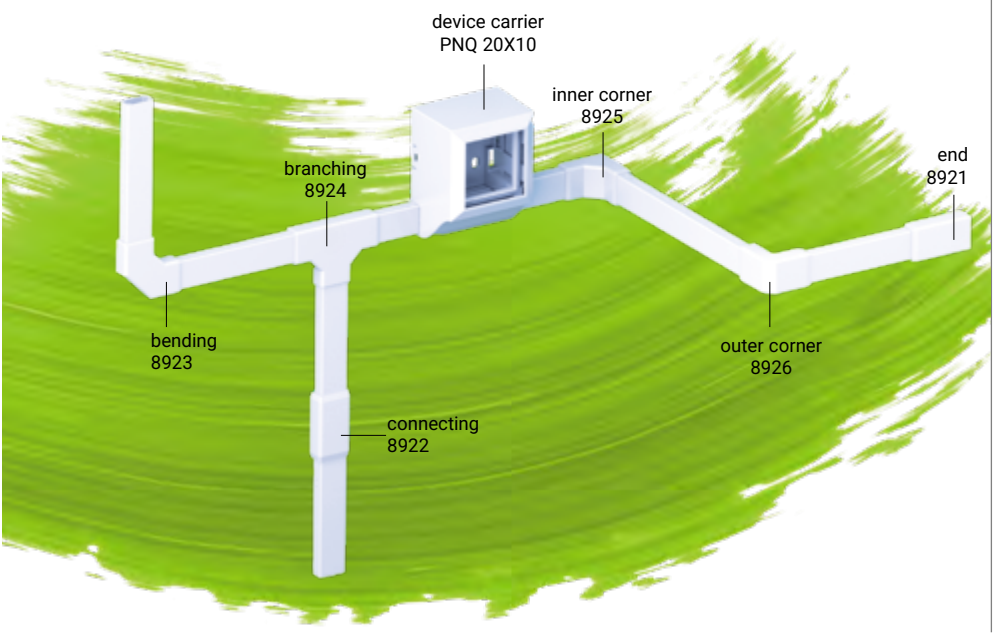





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 140 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- color variants of the trunkings are intended for interior use

| item | | | L m | L m | L desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **LHD 20X10_HD** | ○ | white | 2 | 96 | carton | 8595057620582 | with protective foil |
| **LHD 20X10_P2** | ○ | white | 2 | 96 | carton | 8595057691018 | self-adhesive tape |
| **LHD 20X10_FD** | ● | black | 2 | 96 | carton | 8595568935175 | with protective foil |




## Accessories

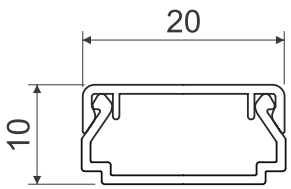
| item | | | | EAN |
|---|---|---|---|---|
| **end** | | | | |
|  | ○ | **8921_HB** | 10 | 8595057619975 |
| | ● | **8921_FB** | 10 | 8595568935182 |
| **connecting** | | | | |
|  | ○ | **8922_HB** | 10 | 8595057619982 |
| | ● | **8922_FB** | 10 | 8595568935199 |
| **bending** | | | | |
|  | ○ | **8923_HB** | 10 | 8595057619999 |
| | ● | **8923_FB** | 10 | 8595568935205 |
| **branching** | | | | |
|  | ○ | **8924_HB** | 10 | 8595057620001 |
| | ● | **8924_FB** | 10 | 8595568935212 |
| **inner corner** | | | | |
|  | ○ | **8925_HB** | 10 | 8595057620018 |
| | ● | **8925_FB** | 10 | 8595568935229 |
| **outer corner** | | | | |
|  | ○ | **8926_HB** | 10 | 8595057620025 |
| | ● | **8926_FB** | 10 | 8595568935236 |
| **device carrier QUADRO** | | | | |
|  | ○ | **PNQ 20X10_HB** | 82 | 8595568927194 |

more information on pg. 179

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LHD 20X10HF - halogen-free square trunking

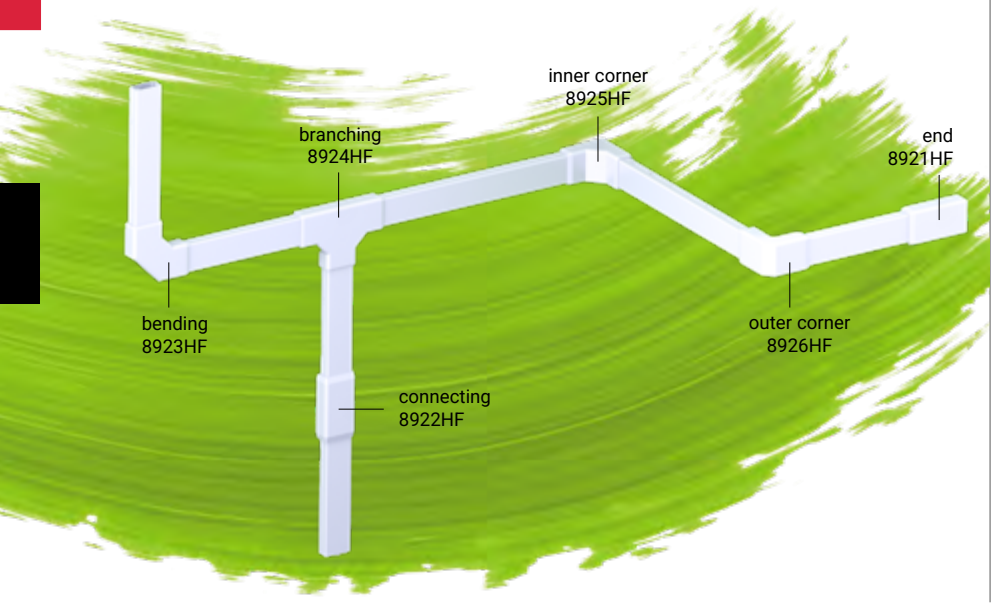





MAT PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 0,5 J | 140 mm² | IP40 | IK06 | HF

- halogen-free, suitable for environments with a higher concentration of people
- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **LHD 20X10HF_HD** | ○ | white | 2 | 60 | carton | 8595057697744 | with protective foil |
| **LHD 20X10HF_FD** | ● | black | 2 | 60 | carton | 8595568938527 | with protective foil |

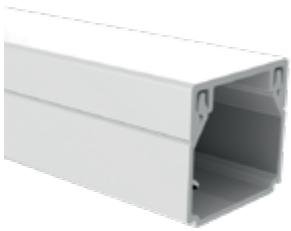


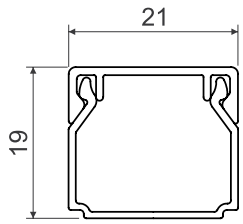

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | ○ **8921HF_HB** | 10 | 8595057698536 |
| | ● **8921_FB** | 10 | 8595568935182 |
| **connecting** | | | |
| | ○ **8922HF_HB** | 10 | 8595057698543 |
| | ● **8922_FB** | 10 | 8595568935199 |
| **bending** | | | |
| | ○ **8923HF_HB** | 10 | 8595057698550 |
| | ● **8923_FB** | 10 | 8595568935205 |
| **branching** | | | |
| | ○ **8924HF_HB** | 10 | 8595057698567 |
| | ● **8924_FB** | 10 | 8595568935212 |
| **inner corner** | | | |
| | ○ **8925HF_HB** | 10 | **8595057698574** |
| | ● **8925_FB** | 10 | 8595568935229 |
| **outer corner** | | | |
| | ○ **8926HF_HB** | 10 | 8595057698581 |
| | ● **8926_FB** | 10 | 8595568935236 |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection | halogen-free material

# LHD 20X20 - square trunking

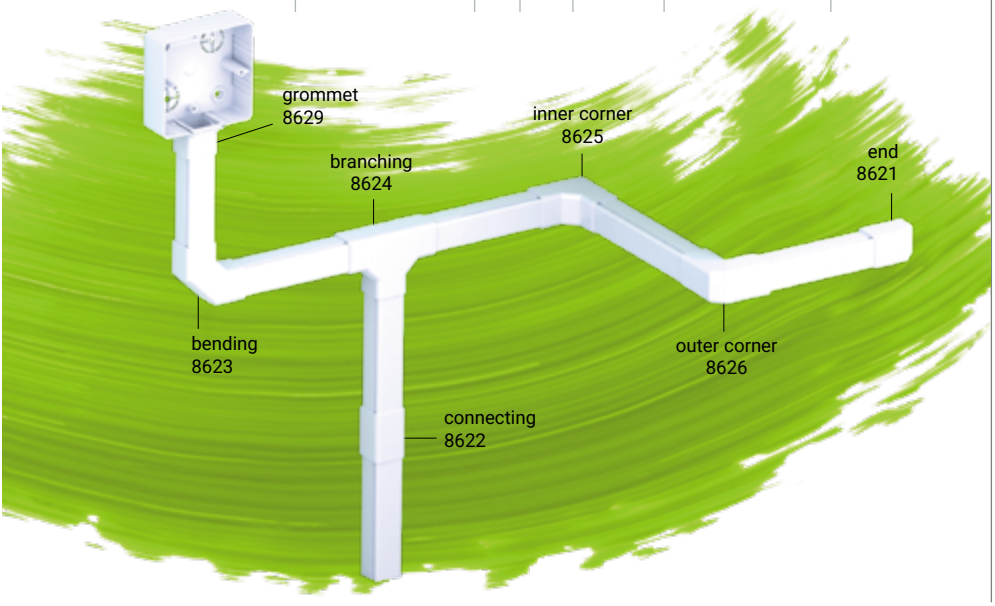





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 260 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- color variants of the trunkings are intended for interior use

| item | | L m | L m | L desc. | EAN | note |
|---|---|---|---|---|---|---|
| LHD 20X20_HC | white | 2 | 98 | foil | 8595057608894 | without protective foil |
| LHD 20X20_HD | white | 2 | 48 | carton | 8595057609617 | protective foil |
| LHD 20X20_P2 | white | 2 | 48 | carton | 8595057691025 | self adhesive tape |
| LHD 20X20_I1 | pink birch | 2 | 24 | carton | 8595057656659 | without protective foil |
| LHD 20X20_I2 | dark oak | 2 | 24 | carton | 8595057656666 | without protective foil |
| LHD 20X20_SD | light wood | 2 | 48 | carton | 8595568903044 | without protective foil |
| LHD 20X20_TD | dark wood | 2 | 48 | carton | 8595568903051 | without protective foil |
| LHD 20X20_FD | black | 2 | 48 | carton | 8595568935243 | protective foil |




## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | 8621_HB | 10 | 8595057609754 |
| | 8621_I1 | 1 | 8595057656734 |
| | 8621_I2 | 1 | 8595057656741 |
| | 8621_SD | 1 | 8595568909220 |
| | 8621_FB | 10 | 8595568935250 |
| **connecting** | | | |
| | 8622_HB | 10 | 8595057609778 |
| | 8622_I1 | 1 | 8595057656758 |
| | 8622_I2 | 1 | 8595057656765 |
| | 8622_SD | 1 | 8595568905437 |
| | 8622_FB | 10 | 8595568935267 |
| **bending** | | | |
| | 8623_HB | 10 | 8595057610941 |
| | 8623_I1 | 1 | 8595057656772 |
| | 8623_I2 | 1 | 8595057656789 |
| | 8623_SD | 1 | 8595568910318 |
| | 8623_FB | 10 | 8595568935274 |
| **branching** | | | |
| | 8624_HB | 10 | 8595057610552 |
| | 8624_I1 | 1 | 8595057656796 |
| | 8624_I2 | 1 | 8595057656802 |
| | 8624_SD | 1 | 8595568910325 |
| | 8624_FB | 10 | 8595568935281 |
| **inner corner** | | | |
| | 8625_HB | 10 | 8595057611825 |
| | 8625_I1 | 1 | 8595057656826 |
| | 8625_I2 | 1 | 8595057656833 |
| | 8625_SD | 1 | 8595568910332 |
| | 8625_FB | 10 | 8595568935298 |
| **outer corner** | | | |
| | 8626_HB | 10 | 8595057611214 |
| | 8626_I1 | 1 | 8595057656840 |
| | 8626_I2 | 1 | 8595057656857 |
| | 8626_SD | 1 | 8595568910349 |
| | 8626_FB | 10 | 8595568935304 |
| **grommet** | | | |
| | 8629_HB | 10 | 8595057608535 |
| | 8629_I1 | 1 | 8595568909060 |
| | 8629_I2 | 1 | 8595568909091 |
| | 8629_SD | 1 | 8595568909121 |
| | 8629_FB | 1 | 8595568936219 |

intended for transition to trunking box LK 80X28... pg. 165, 166, 168-171, 174-176

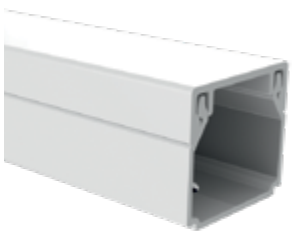
**transition branching**

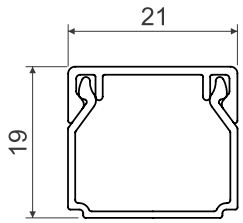
| | | | |
|---|---|---|---|
| | 8824/12_HB | 10 | 8595057611191 |

intended for transition to trunking LP 80X25... pg. 162

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LHD 20X20HF - halogen-free square trunking

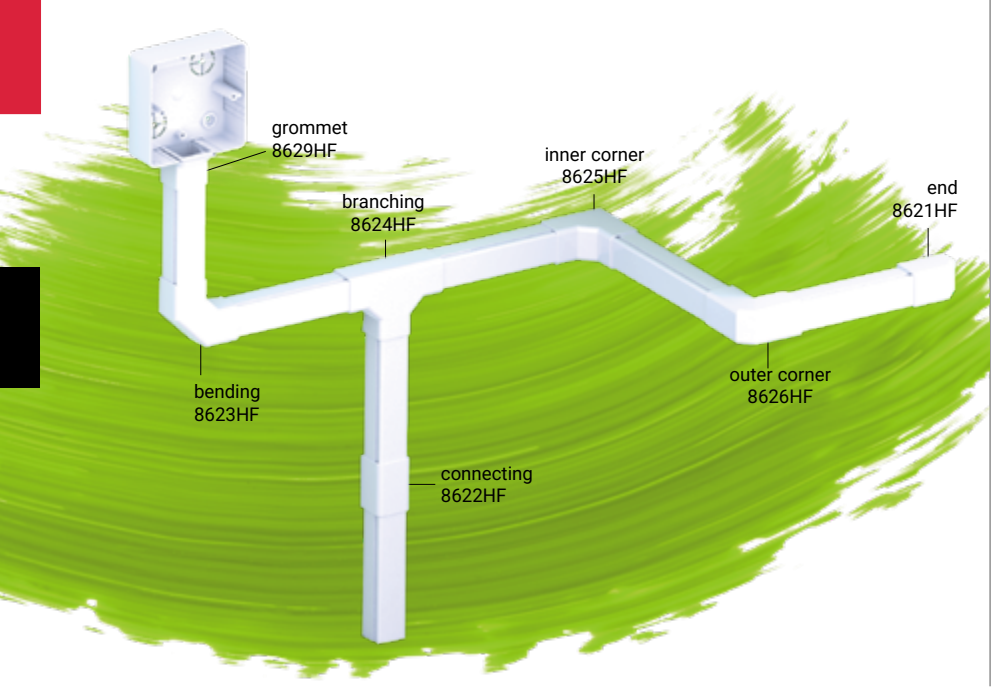





MAT PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 0,5 J | 260 mm² | IP40 | IK06 | HF

- halogen-free, suitable for environments with a higher concentration of people
- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **LHD 20X20HF_HD** | ○ white | 2 | 24 | carton | 8595057657175 | with protective foil |
| **LHD 20X20HF_FD** | ● black | 2 | 24 | carton | **8595568938428** | with protective foil |




## Accessories

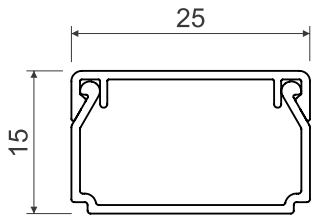
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | ○ **8621HF_HB** | 10 | 8595057655676 |
| | ● **8621_FB** | 10 | 8595568935250 |
| **connecting** | | | |
|  | ○ **8622HF_HB** | 10 | 8595057655683 |
| | ● **8622_FB** | 10 | 8595568935267 |
| **bending** | | | |
|  | ○ **8623HF_HB** | 10 | 8595057655690 |
| | ● **8623_FB** | 10 | 8595568935274 |
| **branching** | | | |
|  | ○ **8624HF_HB** | 10 | 8595057655706 |
| | ● **8624_FB** | 10 | 8595568935281 |
| **inner corner** | | | |
|  | ○ **8625HF_HB** | 10 | 8595057655713 |
| | ● **8625_FB** | 10 | 8595568935298 |
| **outer corner** | | | |
|  | ○ **8626HF_HB** | 10 | 8595057655720 |
| | ● **8626_FB** | 10 | 8595568935304 |
| **grommet** | | | |
|  | ○ **8629HF_HB** | 10 | 8595057655737 |
| | ● **8629_FB** | 1 | 8595568936219 |

intended for transition to trunking boxLK 80X28... pg. 165, 166, 168-171, 174-176

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection | halogen-free material

# LHD 25X15 - square trunking



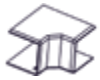


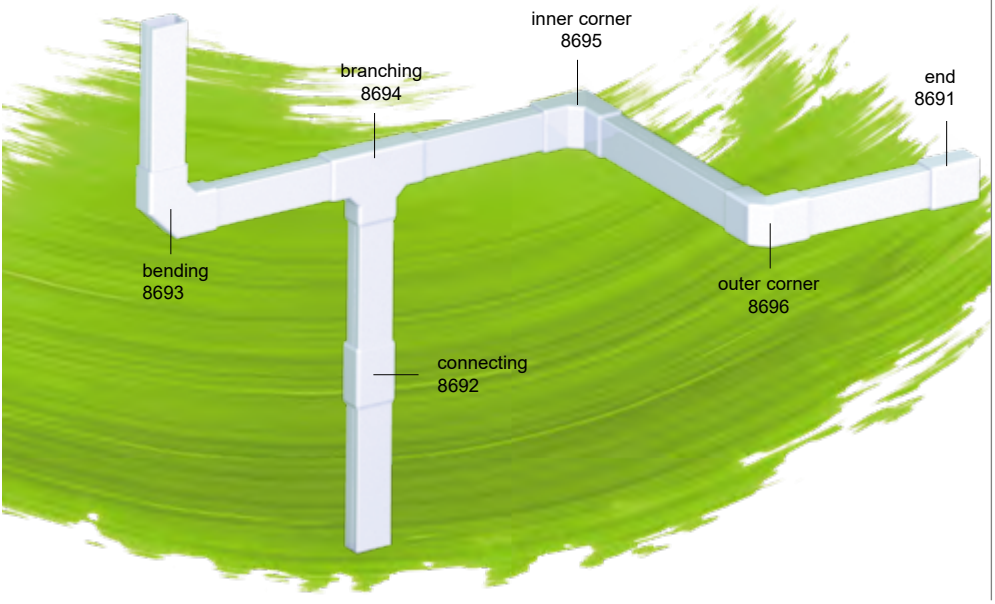

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 400 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LHD 25X15_HD** | white | 2 | 50 | carton | 8595057620599 | with protective foil |
| **LHD 25X15_P2** | white | 2 | 50 | carton | 8595057691032 | self-adhesive tape |

## Accessories

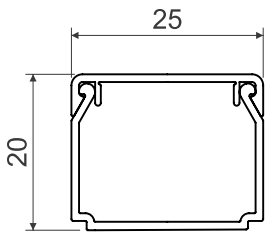
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8691_HB** | 10 | 8595057616622 |
| **connecting** | | | |
|  | **8692_HB** | 10 | 8595057616615 |
| **bending** | | | |
|  | **8693_HB** | 10 | 8595057616608 |
| **branching** | | | |
|  | **8694_HB** | 10 | 8595057616592 |
| **inner corner** | | | |
|  | **8695_HB** | 10 | 8595057616585 |
| **outer corner** | | | |
|  | **8696_HB** | 10 | 8595057616691 |




material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LHD 25X20 - square trunking

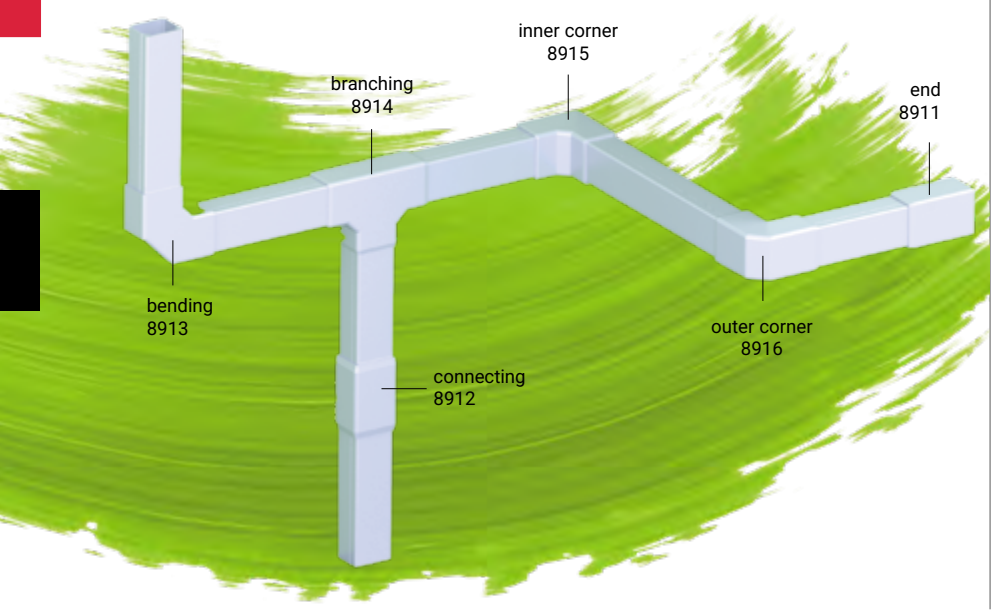





| MAT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 400 mm² | | IP40 | IK06 | |

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **LHD 25X20_HD** | ◯ | white | 2 | 40 | carton | 8595057616844 | with protective foil |
| **LHD 25X20_P2** | ◯ | white | 2 | 40 | carton | 8595057691049 | self-adhesive tape |



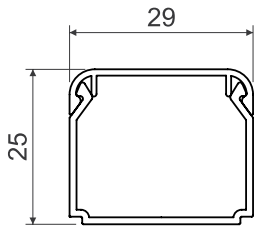

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8911_HB** | 10 | 8595057616684 |
| **connecting** | | | |
|  | **8912_HB** | 10 | 8595057616677 |
| **bending** | | | |
|  | **8913_HB** | 10 | 8595057616660 |
| **branching** | | | |
|  | **8914_HB** | 10 | 8595057616639 |
| **inner corner** | | | |
|  | **8915_HB** | 10 | 8595057616646 |
| **outer corner** | | | |
|  | **8916_HB** | 10 | 8595057616653 |

material
fire reaction class of underlying material
antibacteriality
temperature resistance
flaming loop test
mechanical protection
self-extinguishing
package
IP protection
color
impact strength
inside area
area with a risk of explosion
protective foil

# LHD 30X25 - square trunking

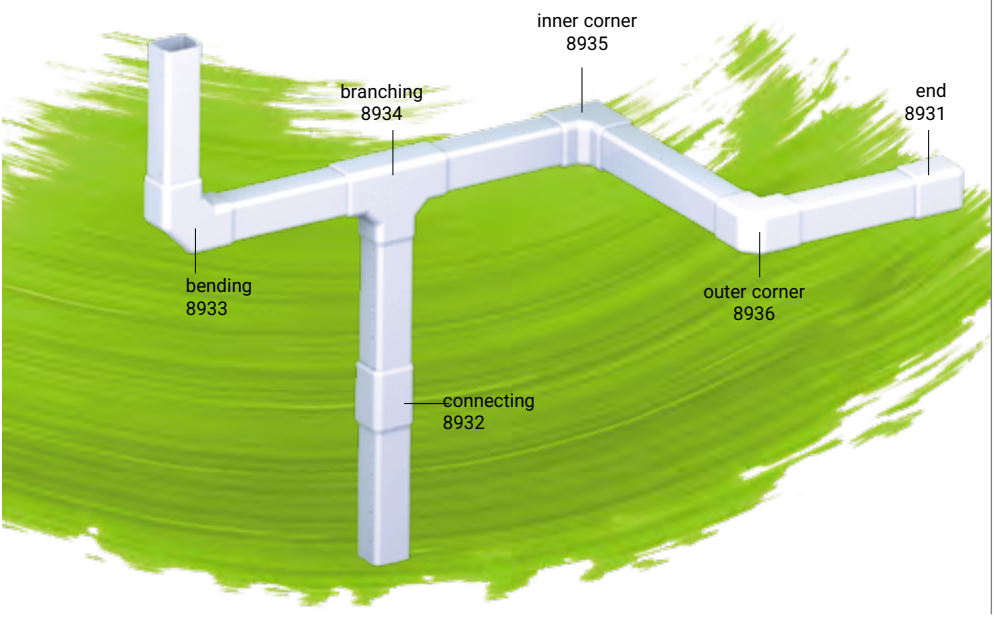





PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 480 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LHD 30X25_HC** | white | 2 | 50 | foil | 8595057633858 | without protective foil |
| **LHD 30X25_HD** | white | 2 | 48 | carton | 8595057633872 | with protective foil |
| **LHD 30X25_P2** | white | 2 | 30 | carton | 8595057691056 | self-adhesive tape |



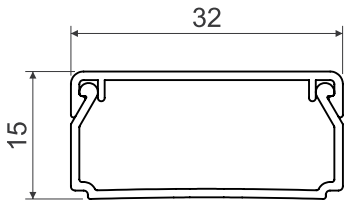

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8931_HB** | 10 | 8595057633889 |
| **connecting** | | | |
|  | **8932_HB** | 10 | 8595057633896 |
| **bending** | | | |
|  | **8933_HB** | 10 | 8595057633902 |
| **branching** | | | |
|  | **8934_HB** | 10 | 8595057633919 |
| **inner corner** | | | |
|  | **8935_HB** | 10 | 8595057633926 |
| **outer corner** | | | |
|  | **8936_HB** | 10 | 8595057633933 |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LHD 32X15 - square trunking

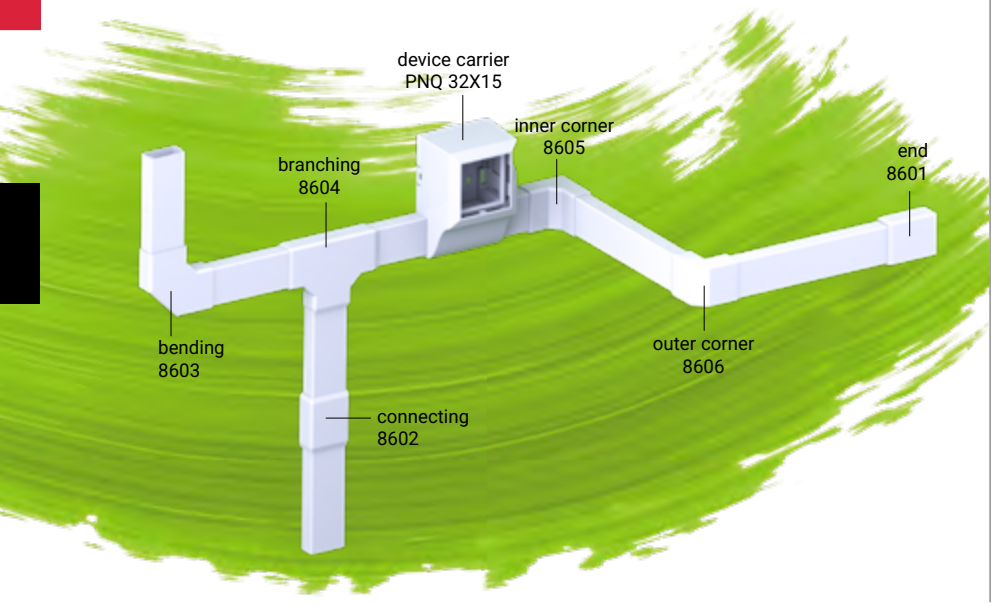





| MAT | | | | | E | | IP | IK | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 340 mm² | | IP40 | IK06 | |

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LHD 32X15_HD** | white | 2 | 80 | carton | 8595057620605 | with protective foil |
| **LHD 32X15_P2** | white | 2 | 80 | carton | 8595057691063 | self-adhesive tape |




## Accessories

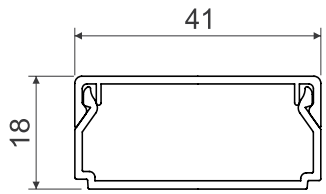
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8601_HB** | 10 | 8595057620032 |
| **connecting** | | | |
|  | **8602_HB** | 10 | 8595057620049 |
| **bending** | | | |
|  | **8603_HB** | 10 | 8595057620056 |
| **branching** | | | |
|  | **8604_HB** | 10 | 8595057620063 |
| **inner corner** | | | |
|  | **8605_HB** | 10 | 8595057620070 |
| **outer corner** | | | |
|  | **8606_HB** | 10 | 8595057620087 |
| **device carrier QUADRO** | | | |
|  | **PNQ 32X15_HB** | 68 | 8595568927187 |

more information on pg. 179

material
fire reaction class of underlying material
antibacteriality
temperature resistance
flaming loop test
mechanical protection
self-extinguishing
package
IP protection
color
impact strength
inside area
area with a risk of explosion
protective foil

# LHD 40X20 - square trunking

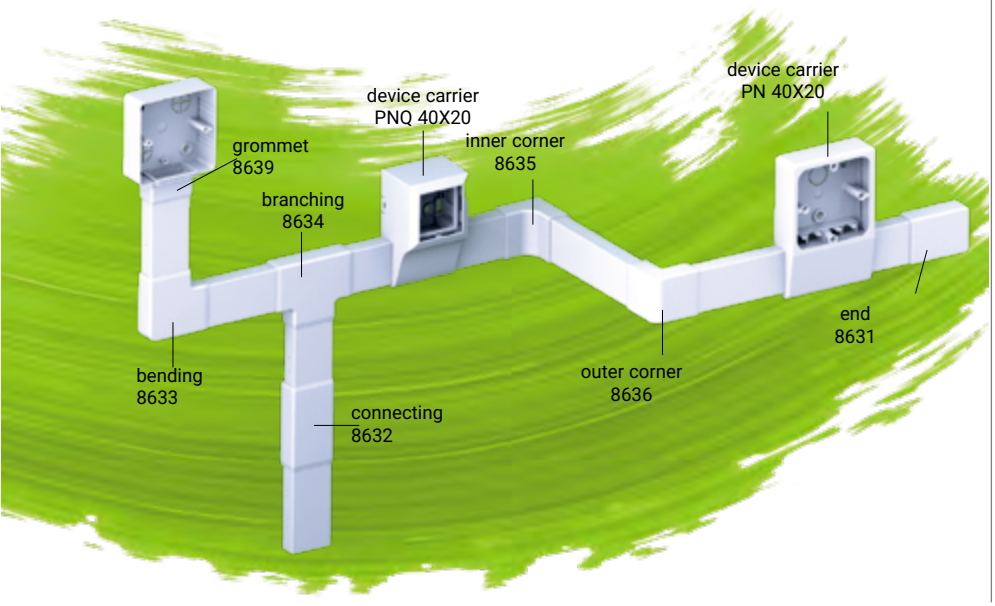





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 560 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- color variants of the trunkings are intended for interior use

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| LHD 40X20_HC | white | 2 | 70 | foil | 8595057610163 | without protective foil |
| LHD 40X20_HD | white | 2 | 24 | carton | 8595057610170 | with protective foil |
| LHD 40X20_P2 | white | 2 | 24 | carton | 8595057666023 | self-adhesive tape |
| LHD 40X20_I1 | pink birch | 2 | 12 | carton | 8595057656673 | - |
| LHD 40X20_I2 | dark oak | 2 | 12 | carton | 8595057656680 | - |
| LHD 40X20_SD | light wood | 2 | 24 | carton | 8595568903082 | - |
| LHD 40X20_TD | dark wood | 2 | 24 | carton | 8595568903099 | - |
| LHD 40X20_FD | black | 2 | 24 | carton | 8595568935311 | with protective foil |




## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | 8631_HB | 10 | 8595057610934 |
| | 8631_I1 | 1 | 8595057656888 |
| | 8631_I2 | 1 | 8595057656895 |
| | 8631_SD | 1 | 8595568905918 |
| | 8631_FB | 10 | 8595568935328 |
| **connecting** | | | |
| | 8632_HB | 10 | 8595057609082 |
| | 8632_I1 | 1 | 8595057656901 |
| | 8632_I2 | 1 | 8595057656918 |
| | 8632_SD | 1 | 8595568909909 |
| | 8632_FB | 10 | 8595568935335 |
| **bending** | | | |
| | 8633_HB | 10 | 8595057609020 |
| | 8633_I1 | 1 | 8595057656925 |
| | 8633_I2 | 1 | 8595057656932 |
| | 8633_SD | 1 | 8595568905833 |
| | 8633_FB | 10 | 8595568935342 |
| **branching** | | | |
| | 8634_HB | 10 | 8595057608658 |
| | 8634_I1 | 1 | 8595057656949 |
| | 8634_I2 | 1 | 8595057656956 |
| | 8634_SD | 1 | 8595568905444 |
| | 8634_FB | 10 | 8595568935359 |
| **inner corner** | | | |
| | 8635_HB | 10 | 8595057609105 |
| | 8635_I1 | 1 | 8595057656963 |
| | 8635_I2 | 1 | 8595057656970 |
| | 8635_SD | 1 | 8595568909961 |
| | 8635_FB | 10 | 8595568935366 |
| **outer corner** | | | |
| | 8636_HB | 10 | 8595057610811 |
| | 8636_I1 | 1 | 8595057656987 |
| | 8636_I2 | 1 | 8595057656994 |
| | 8636_SD | 1 | 8595568909183 |
| | 8636_FB | 10 | 8595568935373 |
| **grommet** | | | |
| | 8639_HB | 10 | 8595057608672 |
| | 8639_I1 | 1 | 8595568909084 |
| | 8639_I2 | 1 | 8595568909114 |
| | 8639_SD | 1 | 8595568909145 |
| | 8639_FB | 1 | 8595568936226 |

intended for transition to trunking boxLK 80X28...pg. 165, 166, 168-171, 174-176

| **device carrier** | | | |
|---|---|---|---|
| | PN 40X20_HB | 10 | 8595057610583 |
| | PN 40X20_I1 | 1 | 8595057657021 |
| | PN 40X20_I2 | 1 | 8595057657038 |
| | PN 40X20_SD | 1 | 8595568910370 |

more information on pg. 179

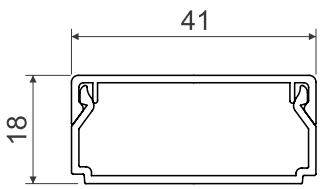
| **device carrier QUADRO** | | | |
|---|---|---|---|
| | PNQ 40X20_HB | 66 | 8595568927200 |

more information on pg. 179

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LHD 40X20HF - halogen-free square trunking

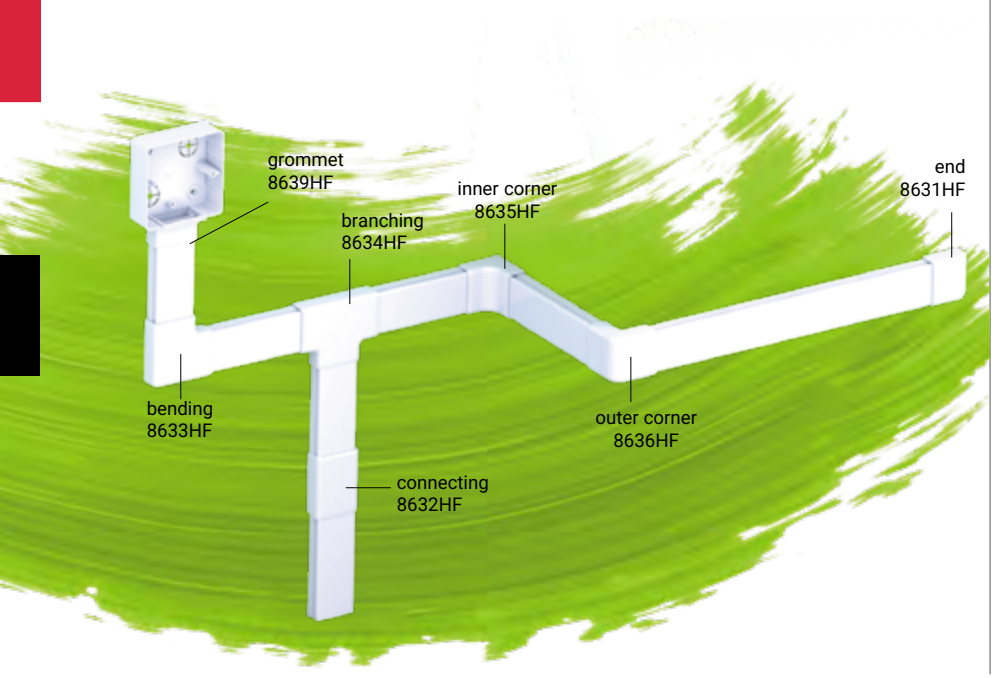





| MAT | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 0,5 J | 560 mm² | | IP40 | IK06 | | |

- halogen-free, suitable for environments with a higher concentration of peopledesigned for wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- possible use in systems with maintenance of functionality in case of fire - see the catalogue Cable management systems/Fire resistant systems

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **LHD 40X20HF_HD** | ○ white | 2 | 12 | carton | 8595057656437 | with protective foil |
| **LHD 40X20HF_FD** | ● black | 2 | 12 | carton | **8595568938534** | with protective foil |




## Accessories

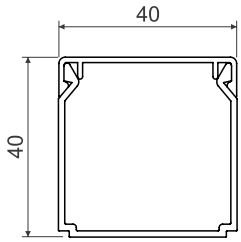
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | ○ **8631HF_HB** | 10 | 8595057655744 |
| | ● **8631_FB** | 10 | 8595568935328 |
| **connecting** | | | |
|  | ○ **8632HF_HB** | 10 | **8595057655751** |
| | ● **8632_FB** | 10 | 8595568935335 |
| **bending** | | | |
|  | ○ **8633HF_HB** | 10 | 8595057655614 |
| | ● **8633_FB** | 10 | 8595568935342 |
| **branching** | | | |
|  | ○ **8634HF_HB** | 10 | 8595057655768 |
| | ● **8634_FB** | 10 | 8595568935359 |
| **inner corner** | | | |
|  | ○ **8635HF_HB** | 10 | 8595057655775 |
| | ● **8635_FB** | 10 | 8595568935366 |
| **outer corner** | | | |
|  | ○ **8636HF_HB** | 10 | 8595057655782 |
| | ● **8636_FB** | 10 | 8595568935373 |
| **grommet** | | | |
|  | ○ **8639HF_HB** | 10 | 8595057656642 |
| | ● **8639_FB** | 1 | 8595568936226 |

intended for transition to trunking boxLK 80X28... pg. 165, 166, 168-171, 174-176

material
fire reaction class of underlying material
antibacteriality
temperature resistance
flaming loop test
mechanical protection
self-extinguishing
package
halogen-free material
IP protection
color
impact strength
inside area
area with a risk of explosion
protective foil

# LHD 40X40 - square trunking

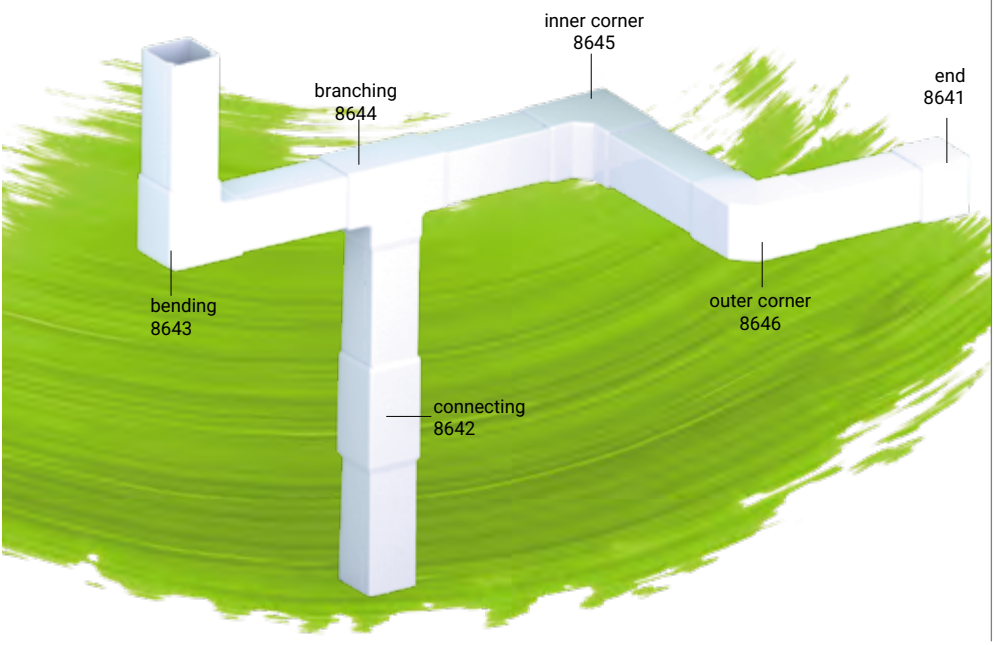





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 1300 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- color variants of the trunkings are intended for interior use

| item | | L m | L m | L desc. | EAN | note |
|---|---|---|---|---|---|---|
| LHD 40X40_HA | white | 3 | 45 | foil | 8595057651685 | without protective foil |
| LHD 40X40_HC | white | 2 | 30 | foil | 8595057651678 | without protective foil |
| LHD 40X40_HD | white | 2 | 20 | carton | 8595057651692 | with protective foil |
| LHD 40X40_P2 | white | 2 | 20 | carton | 8595057666030 | self-adhesive tape |
| LHD 40X40_SD | light wood | 2 | 20 | carton | 8595568903105 | - |
| LHD 40X40_TD | dark wood | 2 | 20 | carton | 8595568903112 | - |
| LHD 40X40_FD | black | 2 | 20 | carton | 8595568935380 | with protective foil |



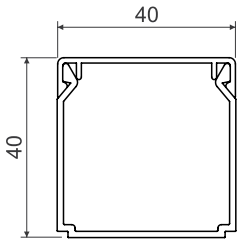

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | 8641_HB | 10 | 8595057611023 |
| | 8641_I2 | 1 | 8595568905482 |
| | 8641_SD | 1 | 8595568905475 |
| | 8641_FB | 10 | 8595568935397 |
| **connecting** | | | |
| | 8642_HB | 10 | 8595057611931 |
| | 8642_I2 | 1 | 8595568905536 |
| | 8642_SD | 1 | 8595568905529 |
| | 8642_FB | 10 | 8595568935403 |
| **bending** | | | |
| | 8643_HB | 10 | 8595057611986 |
| | 8643_I2 | 1 | 8595568905826 |
| | 8643_SD | 1 | 8595568905819 |
| | 8643_FB | 10 | 8595568935410 |
| **branching** | | | |
| | 8644_HB | 10 | 8595057612020 |
| | 8644_I2 | 1 | 8595568909893 |
| | 8644_SD | 1 | 8595568909886 |
| | 8644_FB | 10 | 8595568935427 |
| **inner corner** | | | |
| | 8645_HB | 10 | 8595057613157 |
| | 8645_I2 | 1 | 8595568909978 |
| | 8645_SD | 1 | 8595568909985 |
| | 8645_FB | 10 | 8595568935434 |
| **outer corner** | | | |
| | 8646_HB | 10 | 8595057614055 |
| | 8646_I2 | 1 | 8595568910042 |
| | 8646_SD | 1 | 8595568910035 |
| | 8646_FB | 10 | 8595568935441 |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LHD 40X40HF - halogen-free square trunking

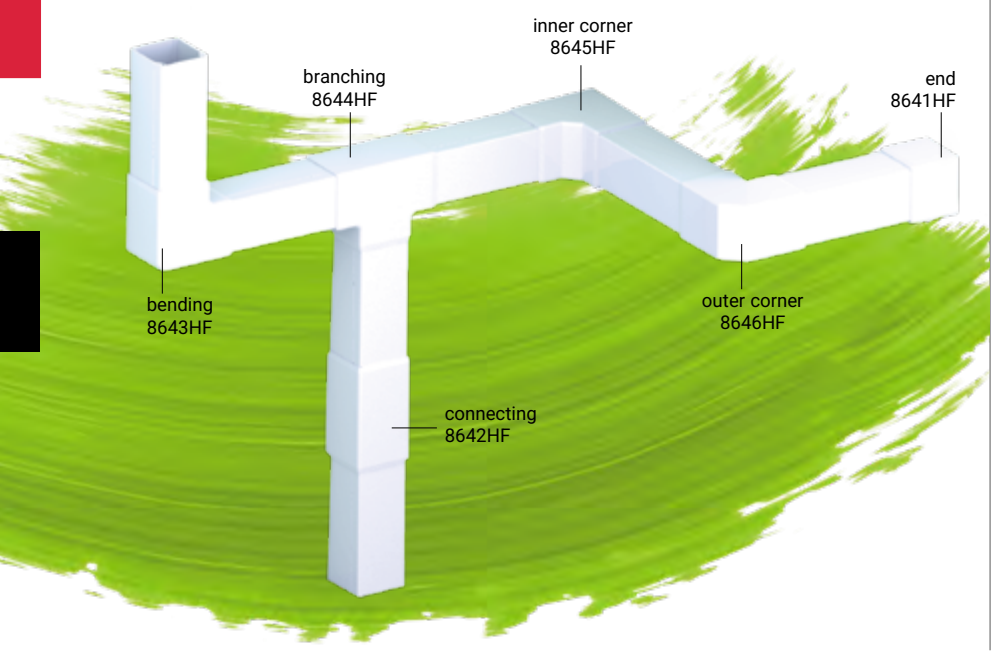





MAT PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 0,5 J | 1300 mm² | IP40 | IK06 | HF

- halogen-free, suitable for environments with a higher concentration of peoplede
- designed for wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **LHD 40X40HF_HD** | ○ white | 2 | 12 | carton | 8595057657199 | with protective foil |
| **LHD 40X40HF_FD** | ● black | 2 | 12 | carton | **8595568938541** | with protective foil |



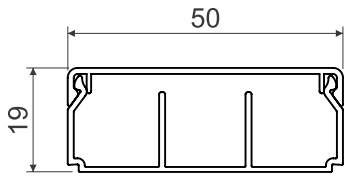

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | ○ **8641HF_HB** | 10 | 8595057655799 |
| | ● **8641_FB** | 10 | 8595568935397 |
| **connecting** | | | |
|  | ○ **8642HF_HB** | 10 | **8595057655805** |
| | ● **8642_FB** | 10 | 8595568935403 |
| **bending** | | | |
|  | ○ **8643HF_HB** | 10 | 8595057655812 |
| | ● **8643_FB** | 10 | 8595568935410 |
| **branching** | | | |
|  | ○ **8644HF_HB** | 10 | 8595057655829 |
| | ● **8644_FB** | 10 | 8595568935427 |
| **inner corner** | | | |
|  | ○ **8645HF_HB** | 10 | 8595057655836 |
| | ● **8645_FB** | 10 | 8595568935434 |
| **outer corner** | | | |
|  | ○ **8646HF_HB** | 10 | 8595057655843 |
| | ● **8646_FB** | 10 | 8595568935441 |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection | halogen-free material

# LHD 50X20 - square trunking






MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 770 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- three options – without partition wall, with one partition wall, with two partition walls

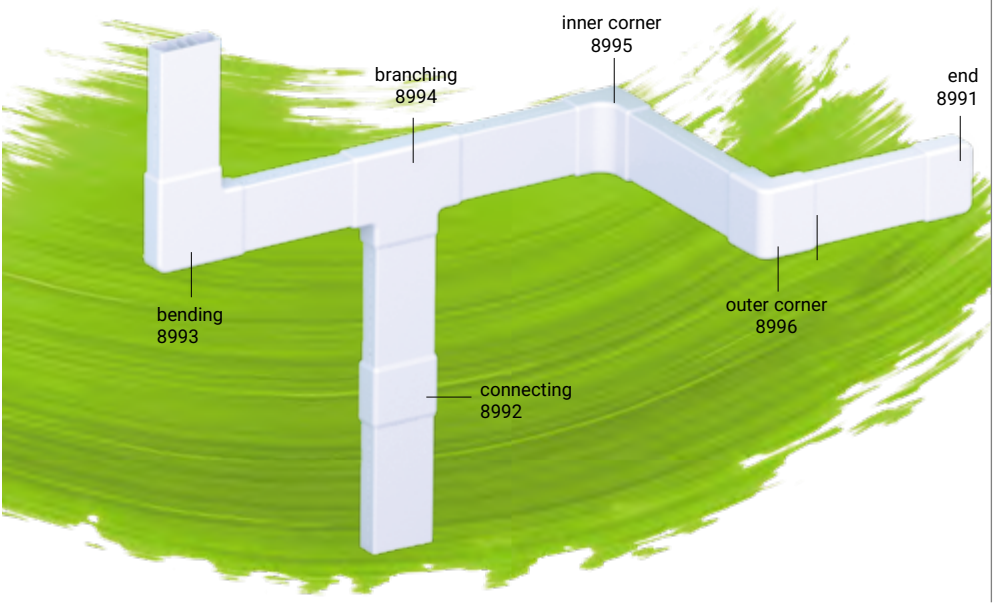
| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LHD 50X20_HD** | white | 2 | 32 | carton | 8595568922458 | without outer corner |
| **LHD 50X20/1_HD** | white | 2 | 32 | carton | 8595568923530 | one outer corner |
| **LHD 50X20/2_HD** | white | 2 | 32 | carton | 8595568923547 | two outer corner |

**LHD 50X20/1 - one partition wall**



**LHD 50X20/2 - two partition walls**





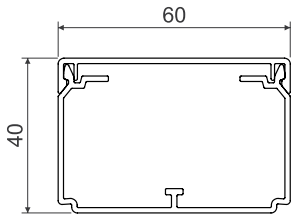

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8991_HB** | 10 | 8595568922380 |
| **connecting** | | | |
| | **8992_HB** | 10 | 8595568922397 |
| **bending** | | | |
| | **8993_HB** | 10 | 8595568922403 |
| **branching** | | | |
| | **8994_HB** | 10 | 8595568922410 |
| **inner corner** | | | |
| | **8995_HB** | 10 | 8595568922427 |
| **outer corner** | | | |
| | **8996_HB** | 10 | 8595568922434 |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LH 60X40 - square trunking

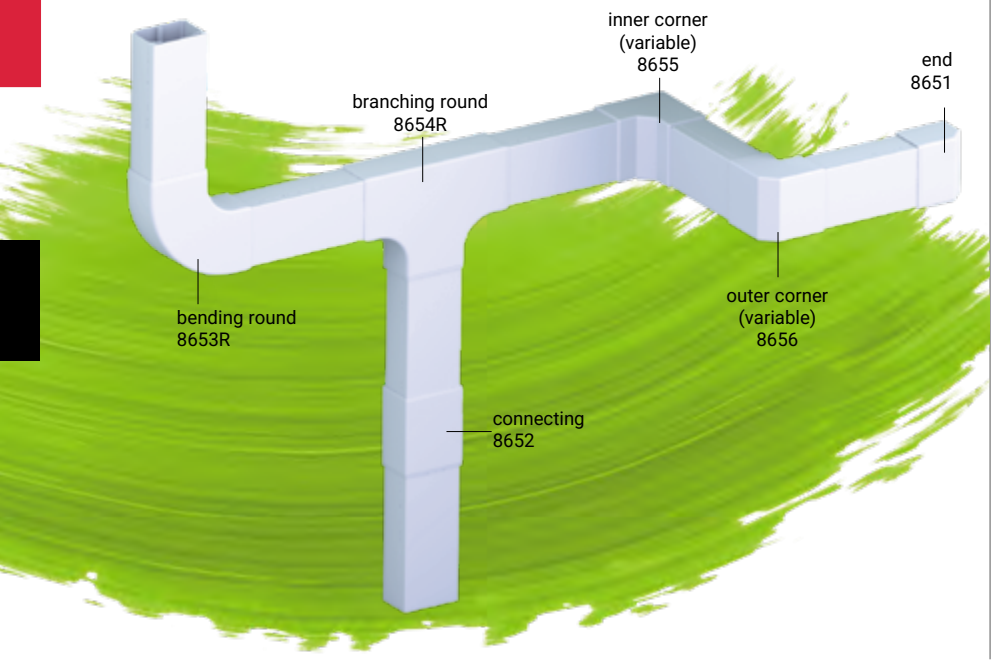





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 1870 mm² | IP40 | IK06

- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- possibility to insert PEKD 40 partition wall
- spacers are included in the package – always 1 pc per 1 m
- color variants of the trunkings are intended for interior use

| item | | | L m | L m | L desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **LH 60X40_HC** | ○ | white | 2 | 24 | foil | 8595057610446 | without protective foil |
| **LH 60X40_HD** | ○ | white | 2 | 16 | carton | 8595057610491 | with protective foil |
| **LH 60X40_P2** | ○ | white | 2 | 16 | carton | 8595057666047 | self-adhesive tape |
| **LH 60X40_FD** | ● | black | 2 | 16 | carton | 8595568935458 | with protective foil |




## Accessories

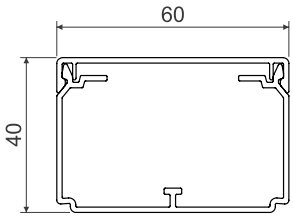
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | ○ **8651_HB** | 10 | 8595057614109 |
| | ● **8651_FB** | 10 | 8595568935465 |
| **connecting** | | | |
| | ○ **8652_HB** | 10 | 8595057613256 |
| | ● **8652_FB** | 10 | 8595568935472 |
| **bending** | | | |
| | ○ **8653_HB** | 10 | 8595057614284 |
| | ● **8653_FB** | 10 | 8595568935489 |
| **bending round** | | | |
| | ○ **8653R_HB** | 2 | 8595057698598 |
| | ● **8653R_FB** | 2 | 8595568935526 |
| **branching** | | | |
| | ○ **8654_HB** | 10 | 8595057613270 |
| | ● **8654_FB** | 10 | 8595568935496 |
| **branching round** | | | |
| | ○ **8654R_HB** | 2 | 8595057698604 |
| | ● **8654R_FB** | 2 | 8595568935533 |
| **inner corner (variable)** | | | |
| | ○ **8655_HB** | 2 | 8595057614260 |
| | ● **8655_FB** | 2 | 8595568935502 |
| **outer corner (variable)** | | | |
| | ○ **8656_HB** | 2 | 8595057614246 |
| | ● **8656_FB** | 2 | 8595568935519 |
| **spacer** | | | |
| | ○ **RLH 60X40_HB** | 100 | 8595057610385 |
| **partition wall** | | | |
| | ○ **PEKD 40_-C** | 20 m | 8595057690448 |

more information on pg. 209

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# LH 60X40HF - halogen-free square trunking

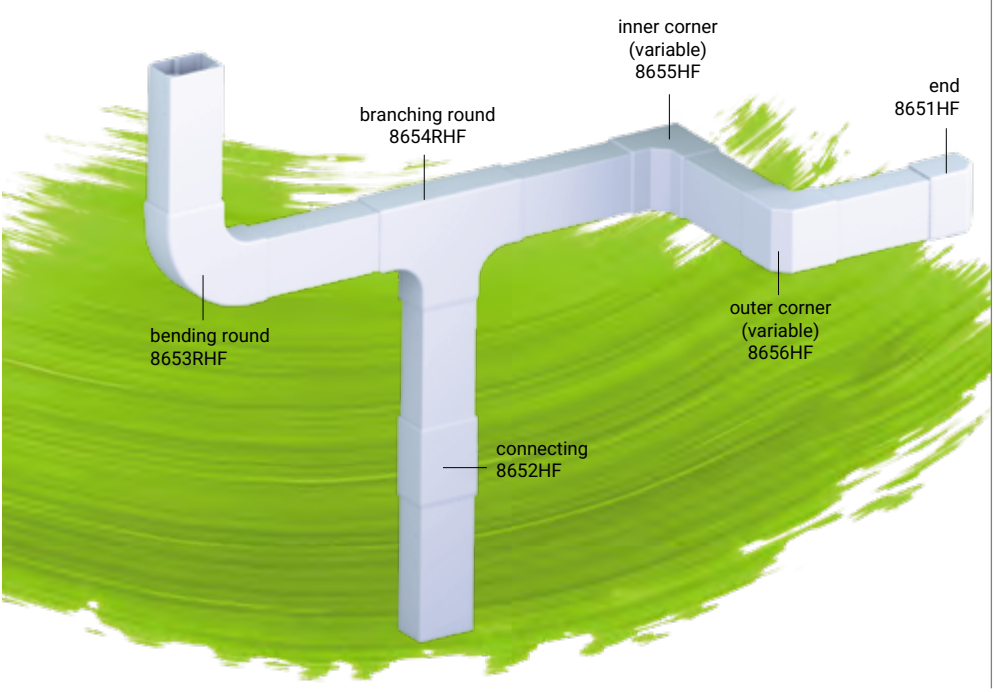





MAT PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 0,5 J | 1870 mm² | IP40 | IK06 | HF

- halogen-free, suitable for environments with a higher concentration of people
- designedfor wall or ceiling mounting
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- possibility to insert PEKD 40HF partition wall
- spacers are included in the package – always 1 pc per 1 m

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| LH 60X40HF_HD | ○ white | 2 | 16 | carton | 8595568933782 | with protective foil |
| LH 60X40HF_FD | ● black | 2 | 16 | carton | 8595568938558 | with protective foil |




## Accessories

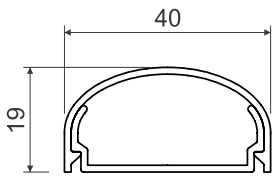
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | ○ **8651HF_HB** | 2 | 8595568933799 |
| | ● **8651_FB** | 10 | 8595568935465 |
| **connecting** | | | |
|  | ○ **8652HF_HB** | 2 | 8595568933805 |
| | ● **8652_FB** | 10 | 8595568935472 |
| **bending** | | | |
|  | ○ **8653HF_HB** | 2 | 8595568933812 |
| | ● **8653_FB** | 10 | 8595568935489 |
| **bending round** | | | |
|  | ○ **8653RHF_HB** | 2 | 8595568933829 |
| | ● **8653R_FB** | 2 | 8595568935526 |
| **branching** | | | |
|  | ○ **8654HF_HB** | 2 | 8595568933836 |
| | ● **8654_FB** | 10 | 8595568935496 |
| **branching round** | | | |
|  | ○ **8654RHF_HB** | 2 | 8595568933843 |
| | ● **8654R_FB** | 2 | 8595568935533 |
| **inner corner (variable)** | | | |
|  | ○ **8655HF_HB** | 2 | 8595568933850 |
| | ● **8655_FB** | 2 | 8595568935502 |
| **outer corner (variable)** | | | |
|  | ○ **8656HF_HB** | 2 | 8595568933867 |
| | ● **8656_FB** | 2 | 8595568935519 |
| **spacer** | | | |
|  | ○ **RLH 60X40HF_HB** | 50 | 8595568933874 |
| **partition wall** | | | |
|  | ○ **PEKD 40HF_-C** | 20 m | 8595057691551 |

more information on pg. 209

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection | halogen-free material

## LE 40 - elegant trunking

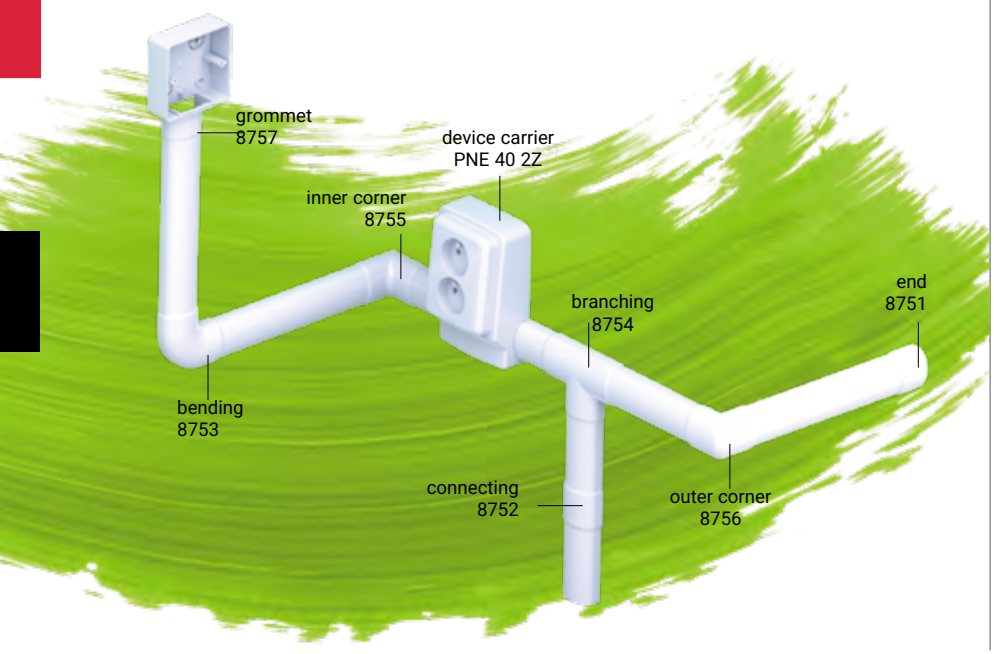




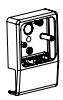

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 500 mm² | IP40

- elegant shape
- designed for wall mounting
- not to be mounted on the floor or to be loaded by being stepped on
- possibility of installing a classic device in a device carrier PNE 40 2Z

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LE 40_HD** | white | 2 | 24 | carton | 8595057620827 | with protective foil |



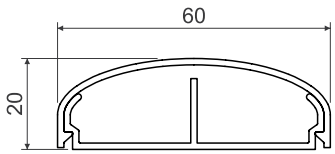

### Accessories

| item | | package | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8751_HB** | 2 | 8595057622166 |
| **connecting** | | | |
|  | **8752_HB** | 2 | 8595057622173 |
| **bending** | | | |
|  | **8753_HB** | 2 | 8595057622180 |
| **branching** | | | |
|  | **8754_HB** | 2 | 8595057622197 |
| **inner corner** | | | |
|  | **8755_HB** | 2 | 8595057622203 |
| **outer corner** | | | |
|  | **8756_HB** | 2 | 8595057622210 |
| **grommet** | | | |
|  | **8757_HB** | 2 | 8595057622227 |
| | intended for transition to trunking boxLK 80X28... pg. **165, 166, 168-171, 174-176** | | |
| **device carrier** | | | |
|  | **PNE 40 2Z_HB** | 10 | 8595057652347 |
| | more information on pg. **181** | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# LE 60 - elegant trunking

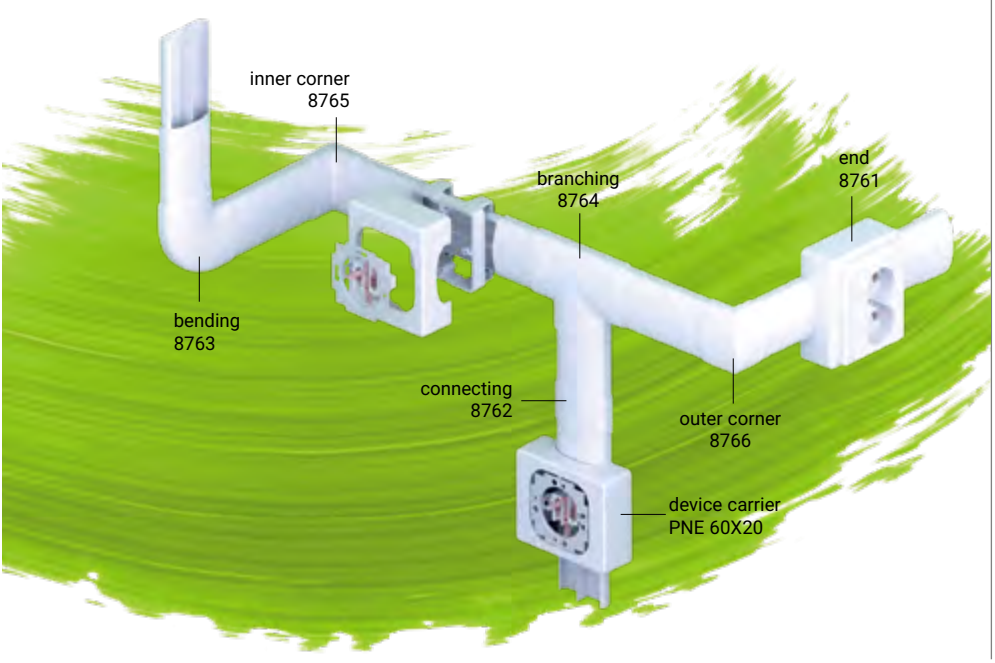





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 380; 380 mm² | IP40

- elegant shape
- designed for wall mounting
- not to be mounted on the floor or to be loaded by being stepped on
- possibility of installing a classic device in a device carrier PNE 60X20 (2Z)

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| LE 60_HD | ○ white | 2 | 18 | carton | 8595057620889 | with protective foil |



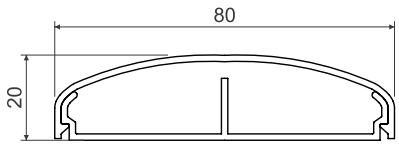

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8761_HB** | 2 | 8595057622296 |
| **connecting** | | | |
|  | **8762_HB** | 2 | 8595057622302 |
| **bending** | | | |
|  | **8763_HB** | 2 | 8595057622319 |
| **branching** | | | |
|  | **8764_HB** | 2 | 8595057622326 |
| **inner corner** | | | |
|  | **8765_HB** | 2 | 8595057622333 |
| **outer corner** | | | |
|  | **8766_HB** | 2 | 8595057622340 |
| **device carrier** | | | |
|  | **PNE 60X20_HB** | 10 | 8595057627475 |
| more information on pg. **180** | | | |
| **device carrier for double socket** | | | |
|  | **PNE 60X20 2Z_HB** | 10 | 8595057627482 |
| more information on pg.**180** | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | umožňuje montage dvojzá-suvky

## LE 80 - elegant trunking

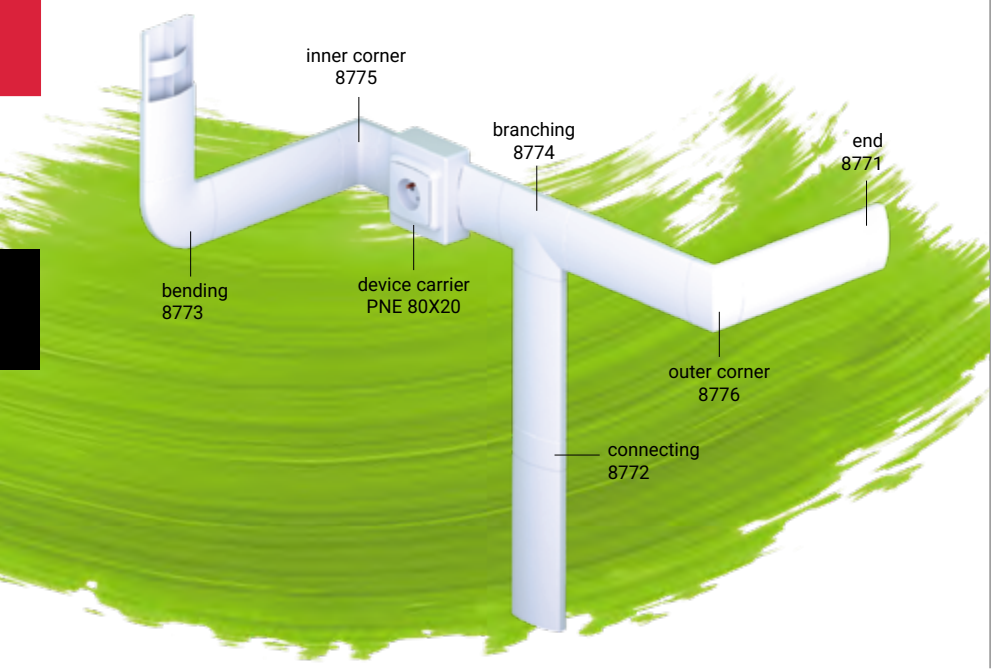





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 420; 420 mm² | IP40

- elegant shape
- designed for wall mounting
- not to be mounted on the floor or to be loaded by being stepped on
- possibility of installing a classic device in a device carrier PNE 80X20

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **LE 80_HD** | ○ white | 2 | 20 | carton | 8595057620940 | with protective foil |



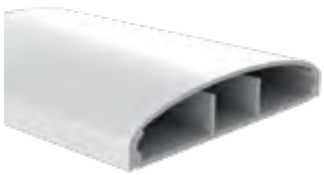

### Accessories

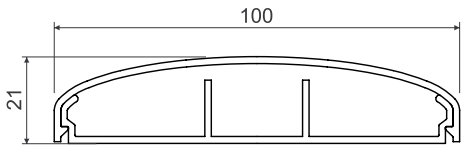
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8771_HB** | 2 | 8595057621923 |
| **connecting** | | | |
|  | **8772_HB** | 2 | 8595057621930 |
| **bending** | | | |
|  | **8773_HB** | 2 | 8595057621947 |
| **branching** | | | |
|  | **8774_HB** | 2 | 8595057621961 |
| **inner corner** | | | |
|  | **8775_HB** | 2 | 8595057621954 |
| **outer corner** | | | |
|  | **8776_HB** | 2 | 8595057621978 |
| **spacer** | | | |
|  | **RLE 80_HB** | 10 | 8595057624702 |
| **device carrier** | | | |
|  | **PNE 80X20_HB** | 10 | 8595057624689 |

more information on pg. 180

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# LE 100 - elegant trunking

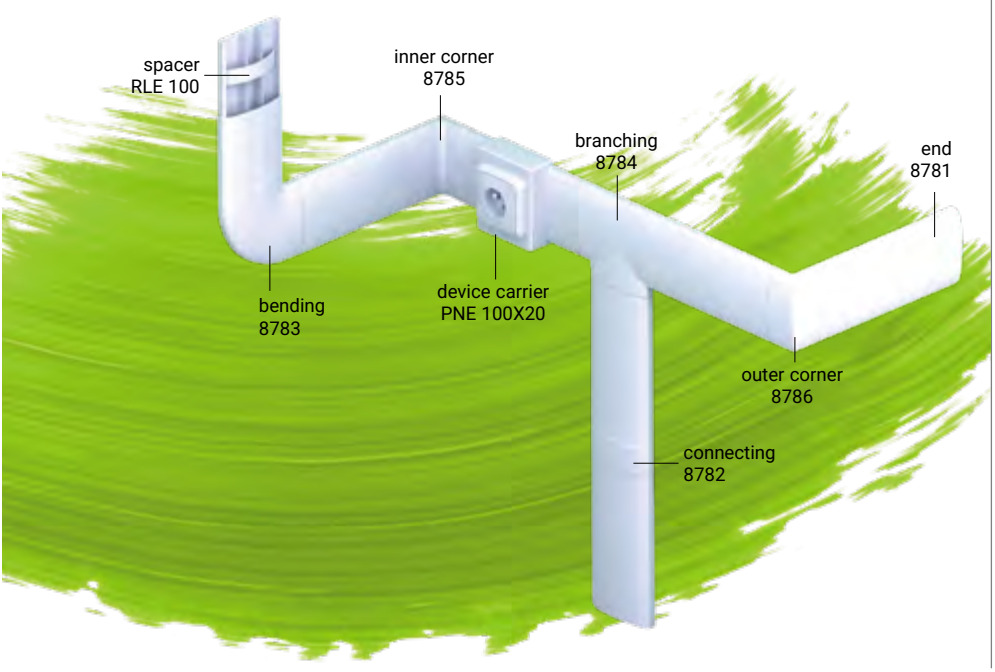





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 380; 340; 380 mm² | IP40

- elegant shape
- designed for wall mounting
- not to be mounted on the floor or to be loaded by being stepped on
- possibility of installing a classic device in a device carrier PNE 100X20

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| LE 100_HD | white | 2 | 16 | carton | 8595057621008 | with protective foil |



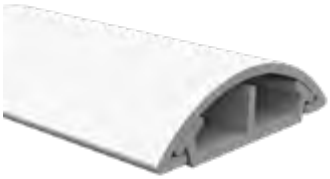

## Accessories

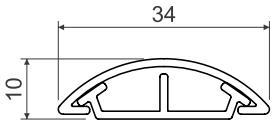
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8781_HB** | 2 | 8595057622234 |
| **connecting** | | | |
|  | **8782_HB** | 2 | 8595057622241 |
| **bending** | | | |
|  | **8783_HB** | 2 | 8595057622258 |
| **branching** | | | |
|  | **8784_HB** | 2 | 8595057622265 |
| **inner corner** | | | |
|  | **8785_HB** | 2 | 8595057622272 |
| **outer corner** | | | |
|  | **8786_HB** | 2 | 8595057622289 |
| **spacer** | | | |
|  | **RLE 100_HB** | 10 | 8595057624696 |
| **device carrier** | | | |
|  | **PNE 100X20_HB** | 10 | 8595057624672 |

more information on pg. 180

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

## LO 35 - round trunking



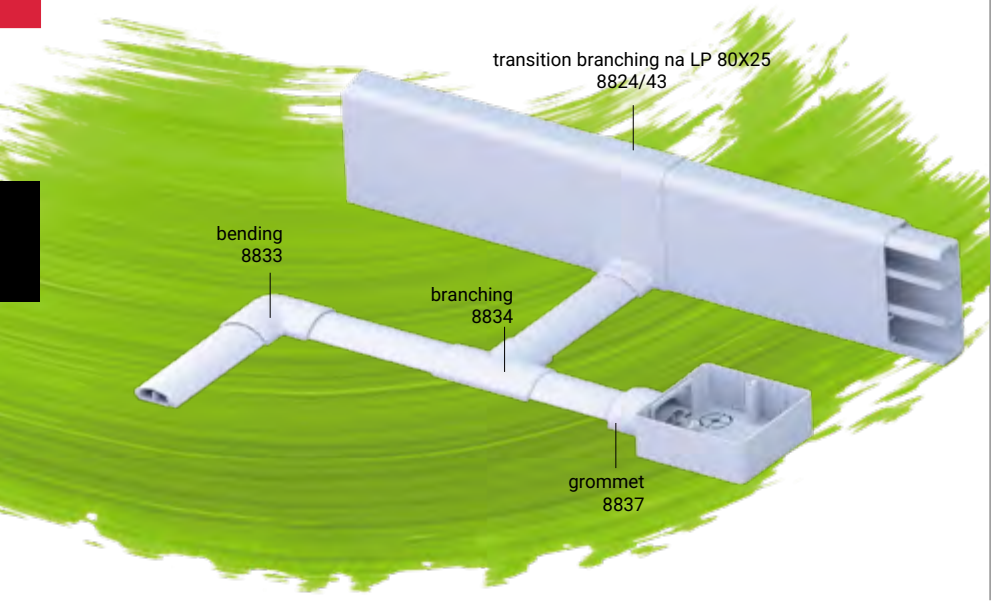



MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 65; 65 mm² | IP40 | IK07 | 0,5 J - conf. HD, P2 | 2 J - conf. KD, LD, L2

- designed for mounting on the floor
- designed for load capacity common in apartments and offices

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LO 35_HD** | white | 2 | 60 | carton | 8595057619937 | with protective foil |
| **LO 35_P2** | white | 2 | 60 | carton | 8595568902818 | self-adhesive tape |
| **LO 35_KD** | light grey | 2 | 60 | carton | 8595057656499 | - |
| **LO 35_LD** | dark grey | 2 | 60 | carton | 8595057662193 | - |
| **LO 35_L2** | dark grey | 2 | 60 | carton | 8595057668942 | self-adhesive tape |





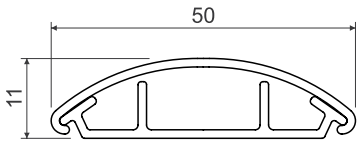

### Accessories

| item | | | EAN |
|---|---|---|---|
| **bending** | | | |
|  | **8833_HB** | 2 | 8595057655218 |
| | **8833_KB** | 2 | 8595057656505 |
| | **8833_LB** | 2 | 8595057662230 |
| **transition branching** | | | |
|  | **8824/43_HB** | 10 | 8595057634008 |
| | intended for transition to trunking LP 80X25 ... pg. 162 | | |
| **branching** | | | |
|  | **8834_HB** | 2 | 8595057655225 |
| | **8834_KB** | 2 | 8595057656512 |
| | **8834_LB** | 2 | 8595057662247 |
| **grommet** | | | |
|  | **8837_HB** | 2 | 8595057617131 |
| | **8837_KB** | 2 | 8595057656543 |
| | **8837_LB** | 2 | 8595057662254 |
| intended for transition to trunking box LK 80X28... pg. 165, 166, 168-171, 174-176 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# LO 50 - round trunking



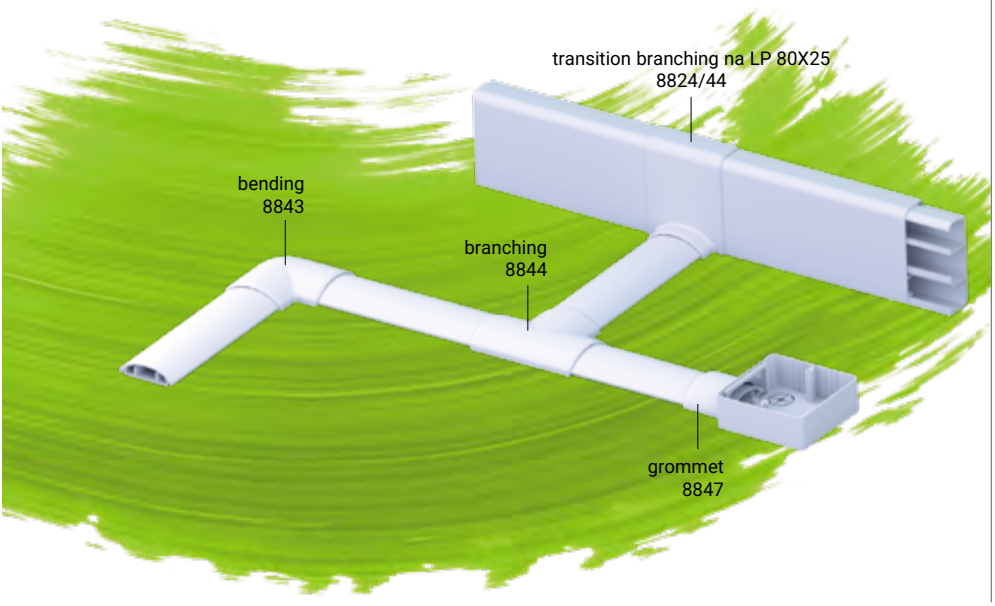



| MAT | | | | | | | IP | IK | | | E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 65; 65 mm² | | IP40 | IK07 | | | 0,5 J - conf. HD, P2<br>2 J - conf. KD, LD, L2 |

- designed for mounting on the floor
- designed for load capacity common in apartments and offices

| item | | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **LO 50_HD** | ○ | white | 2 | 32 | carton | 8595057619944 | with protective foil |
| **LO 50_P2** | ○ | white | 2 | 32 | carton | 8595057689190 | self-adhesive tape |
| **LO 50_KD** | ● | light grey | 2 | 32 | carton | 8595057621404 | - |
| **LO 50_LD** | ● | dark grey | 2 | 32 | carton | 8595057662216 | - |
| **LO 50_L2** | ● | dark grey | 2 | 32 | carton | 8595057668959 | self-adhesive tape |





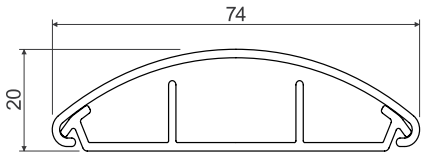

## Accessories

| item | | | EAN |
|---|---|---|---|
| **bending** | | | |
|  | ○ **8843_HB** | 2 | 8595057654969 |
| | ● **8843_KB** | 2 | 8595057656529 |
| | ● **8843_LB** | 2 | 8595057662261 |
| **transition branching** | | | |
|  | ○ **8824/44_HB** | 10 | 8595057634015 |
| | intended for transition to trunking LP 80X25... pg. **162** | | |
| **branching** | | | |
|  | ○ **8844_HB** | 2 | 8595057654976 |
| | ● **8844_KB** | 2 | 8595057656536 |
| | ● **8844_LB** | 2 | 8595057662278 |
| **grommet** | | | |
|  | ○ **8847_HB** | 2 | 8595057615793 |
| | ● **8847_KB** | 2 | 8595057656550 |
| | ● **8847_LB** | 2 | 8595057662285 |
| intended for transition to trunking boxLK 80X28... pg. **165, 166, 168-171, 174-176** | | | |

material
fire reaction class of underlying material
antibacteriality
temperature resistance
flaming loop test
self-extinguishing
package
IP protection
color
impact strength
inside area
area with a risk of explosion
protective foil

## LO 75 - round trunking

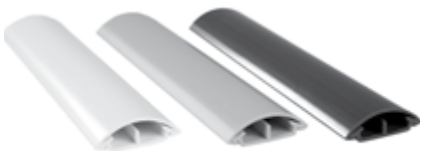


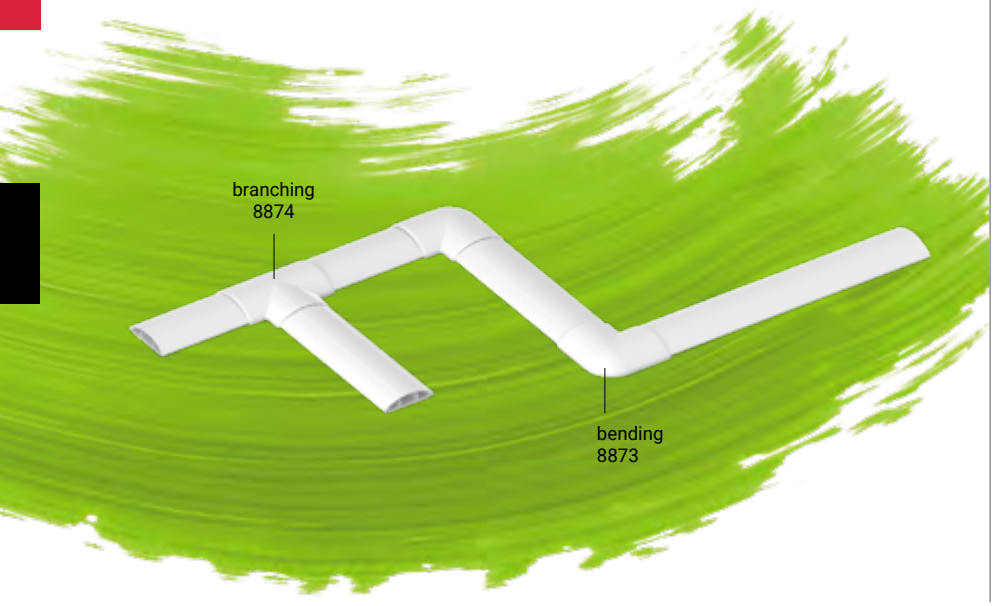



| MAT | | | | | | | IP | IK | | | E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 170; 360; 170 mm² | | IP40 | IK07 | | | 0,5 J - conf. HD, P2<br>2 J - conf. KD, LD, L2 |

- designed for mounting on the floor
- designed for load capacity common in apartments and offices

| item | | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **LO 75_HD** | ○ | white | 2 | 28 | carton | 8595057656574 | with protective foil |
| **LO 75_P2** | ○ | white | 2 | 28 | carton | 8595568902405 | self-adhesive tape |
| **LO 75_KD** | ● | light grey | 2 | 28 | carton | 8595057656598 | - |
| **LO 75_LD** | ● | dark grey | 2 | 28 | carton | 8595057662223 | - |
| **LO 75_L2** | ● | dark grey | 2 | 28 | carton | 8595057668966 | self-adhesive tape |





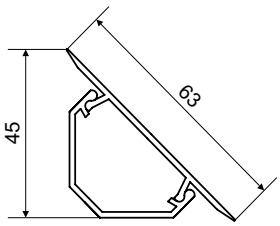

### Accessories

| item | | | | EAN |
|---|---|---|---|---|
| **bending** | | | | |
|  | ○ | **8873_HB** | 2 | 8595057656604 |
| | ● | **8873_KB** | 2 | 8595057656611 |
| | ● | **8873_LB** | 2 | 8595057662292 |
| **branching** | | | | |
|  | ○ | **8874_HB** | 2 | 8595057656628 |
| | ● | **8874_KB** | 2 | 8595057656635 |
| | ● | **8874_LB** | 2 | 8595057662308 |

material
fire reaction class of underlying material
antibacteriality
temperature resistance
flaming loop test
self-extinguishing
package
IP protection
color
impact strength
inside area
area with a risk of explosion
protective foil

# LR 30 - corner trunking





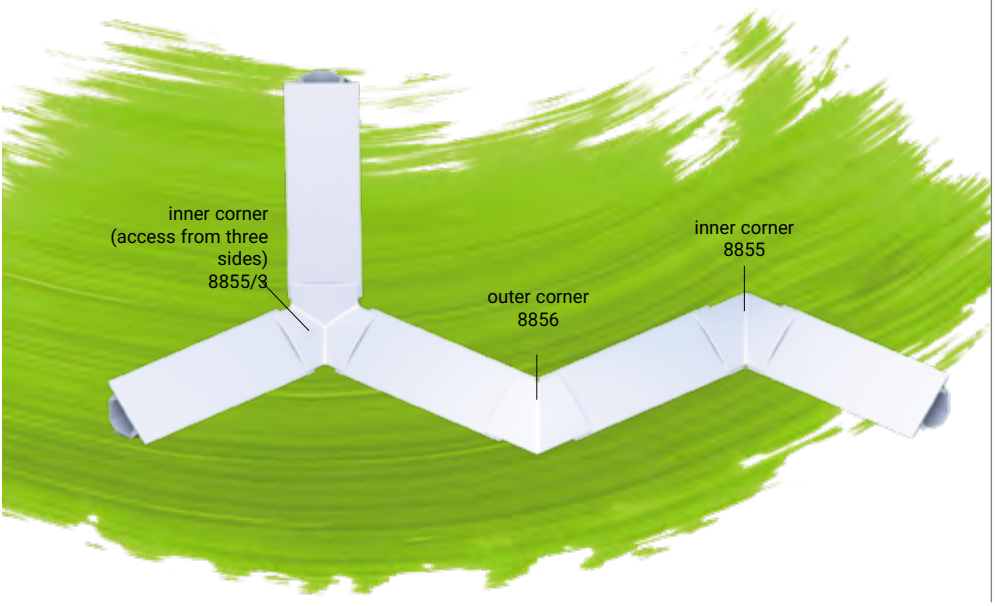

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 2 J | 560 mm² | IP40

- designed for installation in the corner between the floor and wall of the room as well as between two walls, or wall and ceiling
- length adjusted to standard room height
- cover edge manufactured with softened material for better adhesion to the foundation
- **European Industrial design protection**

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **LR 30_HB** | white | 2,6 | 26 | carton | 8595057615908 | with protective foil |

## Accessories

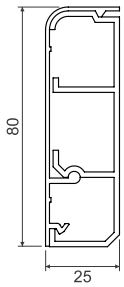
| item | | | EAN |
|---|---|---|---|
| **inner corner** | | | |
|  | **8855_HB** | 5 | 8595057634039 |
| **inner corner (access from three sides)** | | | |
|  | **8855/3_HB** | 5 | 8595057634022 |
| **outer corner** | | | |
|  | **8856_HB** | 10 | 8595057634046 |




material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

## LP 80X25 - floor trunking

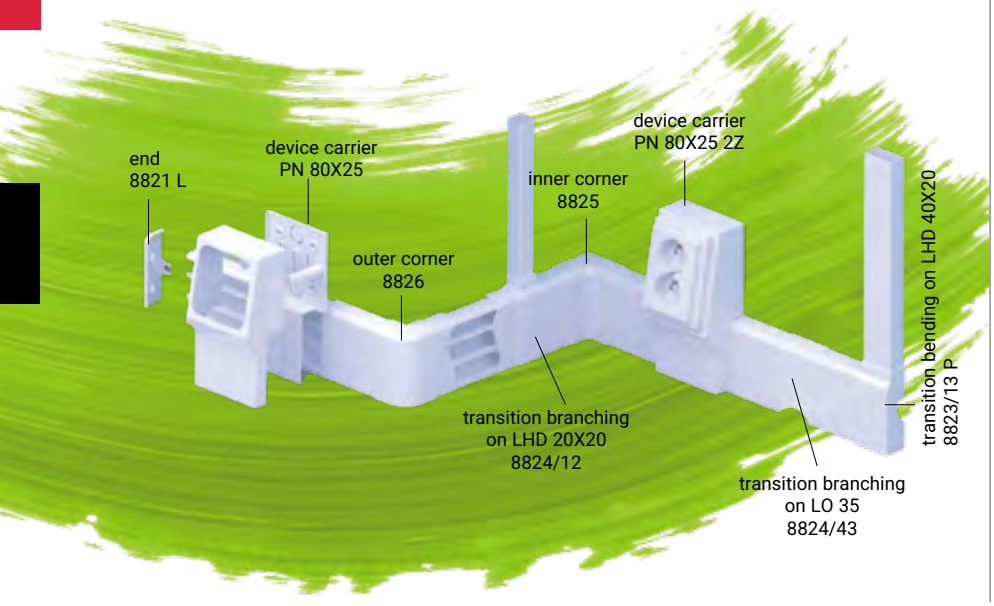





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 2 J | 450; 520; 400 mm² | IP40

- it is designed for installation in the corner between the floor and wall

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| LP 80X25_HD | ○ white | 2 | 16 | carton | 8595057609471 | with protective foil |



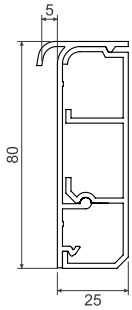

### Accessories

| item | | | EAN |
|---|---|---|---|
| **end left** | | | |
| | **8821 L_HB** | 10 | 8595057611337 |
| **end right** | | | |
| | **8821 P_HB** | 10 | 8595057611313 |
| **connecting** | | | |
| | **8822_HB** | 10 | 8595057611108 |
| **inner corner** | | | |
| | **8825_HB** | 10 | 8595057611719 |
| **outer corner** | | | |
| | **8826_HB** | 10 | 8595057611283 |
| **transition branching** | | | |
| | **8824/12_HB** | 10 | 8595057611191 |
| | intended for transition to trunking LHD 20X20, pg. **141** | | |
| **transition branching** | | | |
| | **8824/40_HB** | 10 | **8595057612709** |
| | intended for transition to trunking LZK 15X12, pg. 136 | | |
| **transition branching** | | | |
| | **8824/41_HB** | 10 | 8595057612693 |
| | intended for transition to trunking LZ 15X12, pg. 135 | | |
| **transition branching** | | | |
| | **8824/43_HB** | 10 | 8595057634008 |
| | intended for transition to trunking LO 35, pg. 158 | | |
| **transition branching** | | | |
| | **8824/44_HB** | 10 | 8595057634015 |
| | intended for transition to trunking LO 50, pg. 159 | | |
| **bending bending left** | | | |
| | **8823/13 L_HB** | 10 | 8595057611467 |
| | intended for transition to trunking LHD 40X20, pg. 147 | | |
| **bending bending right** | | | |
| | **8823/13 P_HB** | 10 | 8595057611481 |
| | intended for transition to trunking LHD 40X20, pg. 147 | | |
| **device carrier** | | | |
| | **PN 80X25_HB** | 10 | 8595057611443 |
| | **PN 80X25 2Z_HB** | 10 | 8595057611399 |
| | more information on pg. 181 | | |

material | fire reaction class of underlying material | antibacteriality | temperature resistance | flaming loop test | for mounting a double-socket | self-extinguishing | package | IP protection | color | impact strength | inside area | area with a risk of explosion | protective foil

# LPK 80X25 - carpet floor trunking

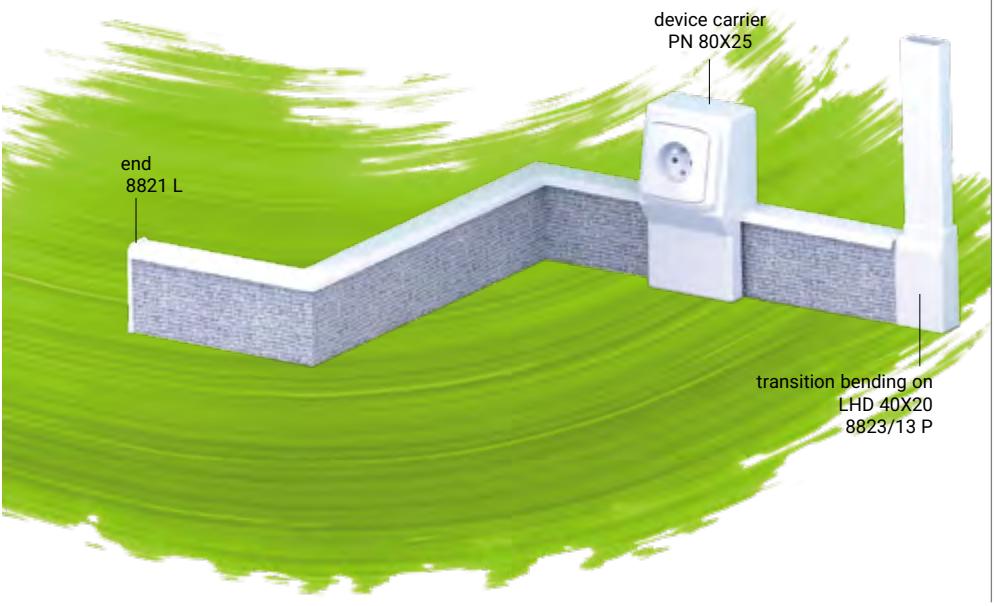




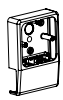

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 2 J | 450; 520; 400 mm² | IP40

- it is designed for installation in the corner between the floor and wall
- includes a slot allowing to insert a carpet

| item | | L | | | EAN |
|---|---|---|---|---|---|
| | | m | m | desc. | |
| **LPK 80X25_HD** | ◯ white | 2 | 10 | carton | 8595057616318 |



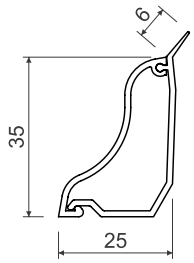

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end left** | | | |
|  | **8821 L_HB** | 10 | 8595057611337 |
| **end right** | | | |
|  | **8821 P_HB** | 10 | 8595057611313 |
| **transition branching** | | | |
|  | **8824/12_HB** | 10 | 8595057611191 |
| | intended for transition to trunking LHD 20X20, pg. 141 | | |
| **transition branching** | | | |
|  | **8824/40_HB** | 10 | 8595057612709 |
| | intended for transition to trunking LZK 15X12, pg. 136 | | |
| **transition branching** | | | |
|  | **8824/41_HB** | 10 | 8595057612693 |
| | intended for transition to trunking LZ 15X12, pg. 135 | | |
| **transition branching** | | | |
|  | **8824/43_HB** | 10 | 8595057634008 |
| | intended for transition to trunking LO 35, pg. 158 | | |
| **transition branching** | | | |
|  | **8824/44_HB** | 10 | 8595057634015 |
| | intended for transition to trunking LO 50, pg. 159 | | |
| **bending bending left** | | | |
|  | **8823/13 L_HB** | 10 | 8595057611467 |
| | intended for transition to trunking LHD 40X20, pg. 147 | | |
| **bending bending right** | | | |
|  | **8823/13 P_HB** | 10 | 8595057611481 |
| | intended for transition to trunking LHD 40X20, pg. 147 | | |
| **device carrier** | | | |
|  | **PN 80X25_HB** | 10 | 8595057611443 |
| | **PN 80X25 2Z_HB** | 10 | 8595057611399 |
| | more information on pg. 181 | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket

# LP 35 - floor trunking

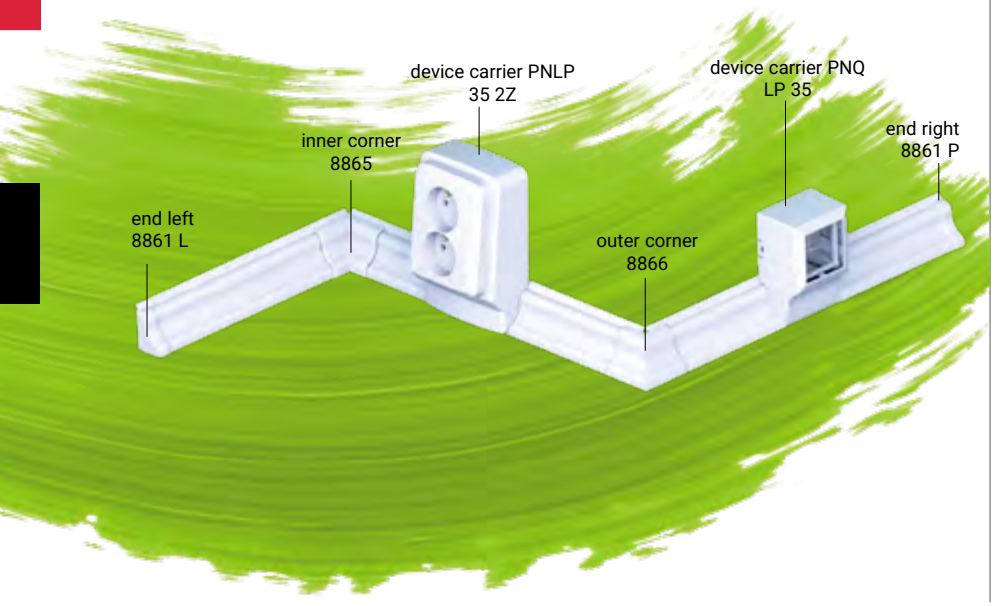





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 2 J | 350 mm² | IP40

- it is designed for installation in the corner between the floor and wall
- edge with softened spray application for better adhesion to the surface
- suitable for use with floating floors

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **LP 35_HD** | white | 2 | 20 | carton | 8595057615977 | with protective foil |
| **LP 35_I1** | pink birch | 2 | 20 | carton | 8595057667877 | - |
| **LP 35_I2** | dark oak | 2 | 20 | carton | 8595057667884 | - |
| **LP 35_SD** | light wood | 2 | 20 | carton | 8595568903761 | - |
| **LP 35_TD** | dark wood | 2 | 20 | carton | 8595568903778 | - |




## Accessories

| item | | | EAN |
|---|---|---|---|
| **end left** | | | |
| | **8861 L_HB** | 10 | 8595057634053 |
| | **8861 L_I1** | 1 | 8595057669291 |
| | **8861 L_I2** | 1 | 8595057669314 |
| | **861 L_SD** | 1 | 8595568905543 |
| **end right** | | | |
| | **8861 P_HB** | 10 | 8595057638792 |
| | **8861 P_I1** | 1 | 8595057669246 |
| | **8861 P_I2** | 1 | 8595057669321 |
| | **861 P_SD** | 1 | 8595568905550 |
| **inner corner** | | | |
| | **8865_HB** | 10 | 8595057634060 |
| | **8865_I1** | 1 | 8595057669253 |
| | **8865_I2** | 1 | 8595057669338 |
| | **865_SD** | 1 | 8595568905567 |
| **outer corner** | | | |
| | **8866_HB** | 10 | 8595057634077 |
| | **8866_I1** | 1 | 8595057669307 |
| | **8866_I2** | 1 | 8595057669345 |
| | **866_SD** | 1 | 8595568905512 |
| **device carrier** | | | |
| | **PNLP 35 2Z_HB** | 10 | 8595057655041 |
| | **PNLP 35 2Z_I1** | 1 | 8595057669239 |
| | **PNLP 35 2Z_I2** | 1 | 8595057669352 |
| | **PNLP 35 2Z_SD** | 1 | 8595568910387 |

more information on pg. 180

**device carrier QUADRO**

| | | | |
|---|---|---|---|
| | **PNQ LP 35_HB** | 68 | 8595568927378 |

more information on pg. 179

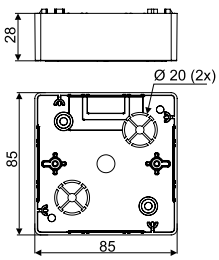
material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket

## LK 85X28 ZNI HF - halogen-free device box



| MAT | | | | | IP | HF |
|---|---|---|---|---|---|---|
| PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 | |

- designed for devices of the Zoni - ABB model series
- suitable for devices with large installation depth
- the box sides have pre-marked entries for the rail passages
- when using the VLK 85/ZNI HF cover, the box achieves IP40 protection




| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 85x28 ZNI HF_HB** | white | each box wrapped in foil | 10; 90 | 8595568942081 |

ACCESSORIES

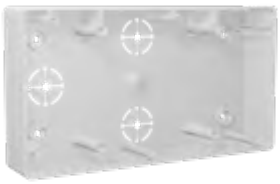


**VLK 85/ZNI HF**
**pg.** 165



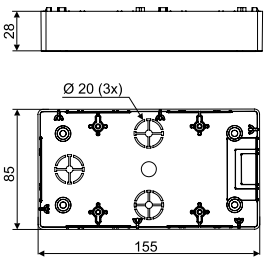
**TYP0...**
**pg.** 84

## LK 85X28 ZNI/2 HF - halogen-free device box



| MAT | | | | | IP | HF |
|---|---|---|---|---|---|---|
| PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 | |

- designed for devices of the Zoni - ABB model series in a combined frame
- suitable for devices with large installation depth
- the box sides have pre-marked entries for the trunking passages




| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 85x28 ZNI/2 HF_HB** | white | each box wrapped in foil | 10; 60 | 8595568942104 |

ACCESSORIES



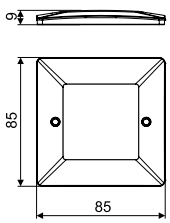
**TYP0...**
**pg.** 84

## VLK 85/ZNI HF - halogen-free cover



| MAT | | | | | IP | HF |
|---|---|---|---|---|---|---|
| PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 | |

- for final covering of LK 85X28 ZNI HF trunking boxes




| item | | desc. | | EAN |
|---|---|---|---|---|
| **VLK 85/ZNI HF_HB** | white | covers wrapped in foil and placed in a carton | 10; 330 | 8595568942111 |

ACCESSORIES



**2,9x13V**
**pg.** 82

material
fire reaction class of underlying material
temperature resistance
flaming loop test
self-extinguishing
package
color
halogen-free material
IP protection

## LK 80X28 T - device box



MAT | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40

PVC

PC-ABS - conf. I1, FB

- intended for devices of Tango - ABB series with greater mounting depth
- to install on materials with fire classes E or F, use insulating pad

HB



FB HF



I1 HF

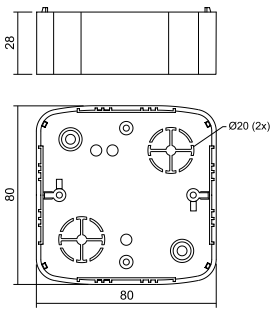


I2



SD






| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28 T_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 100 | 8595057617308 |
| **LK 80X28 T_I1** | pink birch | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 100 | 8595568908964 |
| **LK 80X28 T_I2** | dark oak | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 100 | 8595568909008 |
| **LK 80X28 T_SD** | light wood | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 100 | 8595568909046 |
| **LK 80X28 T_FB** | black | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 100 | 8595568936264 |

ACCESSORIES



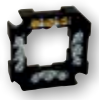
VLK 80/T
pg. 167



NRT
pg. 168



PI 80T
pg. 178

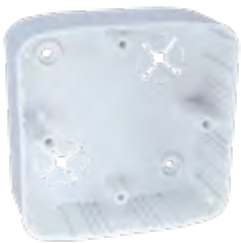


S-66
pg. 83



TYP0...
pg. 84

## LK 80X28 THF - halogen-free device box

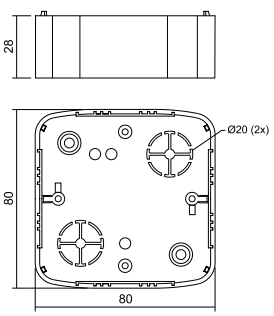


MAT | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 | HF

PC-ABS

- for premises with increased need for protection of persons and property
- intended for devices of Tango series
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28 THF_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 100 | 8595057633995 |




ACCESSORIES



PI 80T
pg. 178



TYP0...
pg. 84

material | temperature resistance | self-extinguishing | color | halogen-free material
fire reaction class of underlying material | flaming loop test | package | IP protection

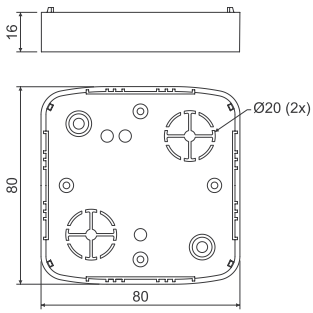
## LK 80X16 T - device box



| MAT | | | | | |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 |

- intended for devices of Tango - ABB series
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X16 T_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 160 | 8595057619296 |




ACCESSORIES



VLK 80/T pg. 167 | NRT pg. 168 | PI 80T pg. 178 | S-66 pg. 83 | TYP0... pg. 84

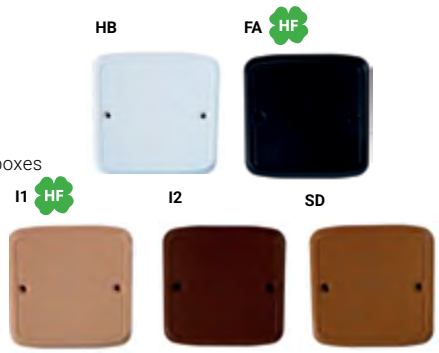
## VLK 80/T - cover

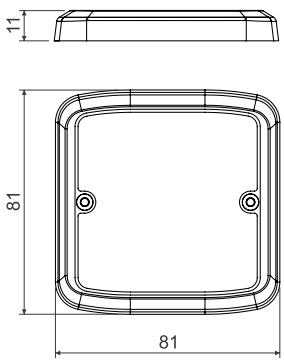


| MAT | | | |
|---|---|---|---|
| PVC | -5 - +60°C | 850°C | 30 sec. |

PC-ABS - conf. I1, FA

- for final covering of LK 80X16 T and LK 80X28 T trunking boxes using 2.9x13V screws




| item | | desc. | | EAN |
|---|---|---|---|---|
| **VLK 80/T_HB** | white RAL 9003 | packed in shrink foil | 10; 420 | 8595057610880 |
| **VLK 80/T_I1** | pink birch | packed in shrink foil | 10; 420 | 8595568936349 |
| **VLK 80/T_I2** | dark oak | packed in shrink foil | 10; 420 | 8595568936356 |
| **VLK 80/T_SD** | light wood | packed in shrink foil | 10; 420 | 8595568936363 |
| **VLK 80/T_FA** | black | packed in shrink foil | 10; 420 | 8595568936370 |

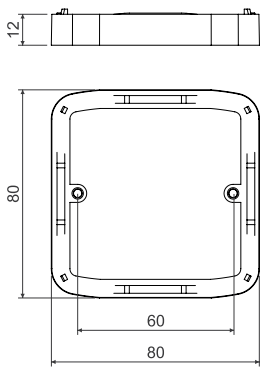
## NRT - extension frame



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- for trunking boxes LK 80X16 T and LK 80X28 T
- for trunking boxes for devices of Tango series

| item | | desc. | | EAN |
|---|---|---|---|---|
| NRT_HB | white | packed in shrink foil | 10; 300 | 8595057615755 |

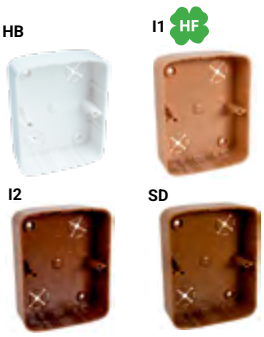



## LK 80X28 2ZT - device box

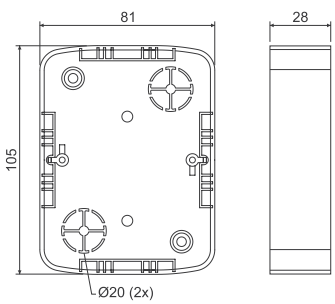


MAT | PVC | PC-ABS - conf. I1 | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40

- designed for double socket, Tango - ABB model series devices
- to install on materials with fire classes E or F, use insulating pad




| item | | desc. | | EAN |
|---|---|---|---|---|
| LK 80X28 2ZT_HB | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595057616332 |
| LK 80X28 2ZT_I1 | pink birch | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595568908971 |
| LK 80X28 2ZT_I2 | dark oak | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595568909015 |
| LK 80x28 2ZT_SD | light wood | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595568909053 |




ACCESSORIES



NR 2ZT pg. 169 | PI 80 2ZT pg. 178 | TYP0... pg. 84

material | temperature resistance | self-extinguishing | color | IP protection
fire reaction class of underlying material | flaming loop test | package | for mounting a double-socket | halogen-free material

## LK 80X28 2ZTHF - halogen-free device box

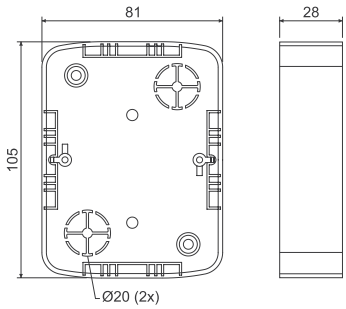


MAT | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 | HF

PC-ABS

- for premises with increased need for protection of persons and property
- designed for double socket, Tango - ABB model series devices
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28 2ZTHF_HB** | ○ white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595057634145 |




ACCESSORIES



**PI 80 2ZT** pg. 178 | **TYP0...** pg. 84

## NR 2ZT - extension frame

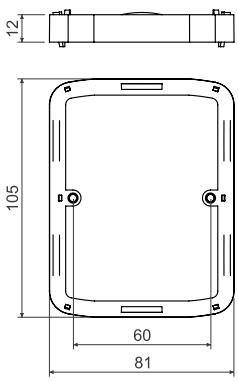


MAT | -5 - +60°C | 850°C | A1 - F | 30 sec.

PVC

- for trunking boxes LK 80X28 2ZT under the Tango double-socket

| item | | desc. | | EAN |
|---|---|---|---|---|
| **NR 2ZT_HB** | ○ white | packed in shrink foil | 10; 200 | 8595057615779 |




material | temperature resistance | self-extinguishing | color | halogen-free material
fire reaction class of underlying material | flaming loop test | package | for mounting a double-socket | IP protection

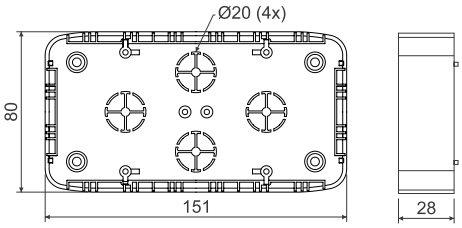
## LK 80X28 2T - device box



| MAT | | | | | IP |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 |

- intended for two devices of Tango - ABB series in and combined frame
- for installation of two units horizontally
- to install on materials with fire classes E or F, use insulating pad – to support, use 2 pads PI 80 2ZT and adjust to the desired size

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28 2T_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included for 2 devices included | 10; 60 | 8595057617315 |




ACCESSORIES



**PI 80 2ZT** pg. 178 | **S-66** pg. 83 | **TYP0...** pg. 84

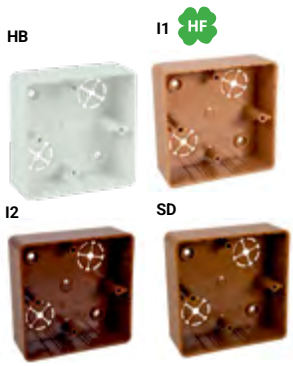
## LK 80X28R/1 - device box



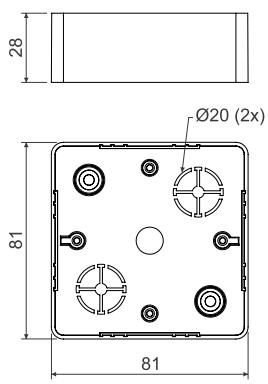
| MAT | | | | | IP |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 |

PC-ABS - conf. I1

- to be intended for equipment of model range Classic or Swing - ABB with high assembling depth – with the exception of small double socket
- to install on materials with fire classes E or F, use insulating pad




| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28R/1_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 120 | 8595057616479 |
| **LK 80X28R/1_I1** | pink birch | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 120 | 8595568908940 |
| **LK 80X28R/1_I2** | dark oak | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 120 | 8595568908988 |
| **LK 80x28R/1_SD** | light wood | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 120 | 8595568909022 |




ACCESSORIES



**VLK 80/R** pg. 173 | **NR 80/R** pg. 173 | **PI 80R** pg. 178 | **S-66** pg. 83 | **TYP0...** pg. 84

material | temperature resistance | self-extinguishing | color | halogen-free material
fire reaction class of underlying material | flaming loop test | package | IP protection

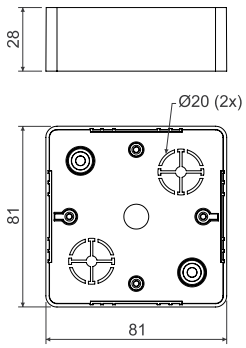
## LK 80X28R/1HF - halogen-free device box



MAT PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 | HF

- for premises with increased need for protection of persons and property
- to be intended for equipment of model range Classic or Swing - ABB with high assembling depth – with the exception of small double socket
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28R/1HF_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 120 | 8595057634121 |




ACCESSORIES


PI 80 2ZT pg. 178


TYP0... pg. 84

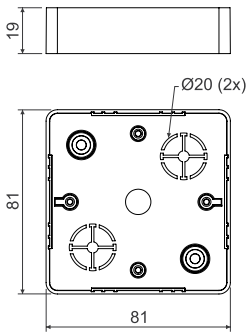
## LK 80X20R/1 - device box



MAT PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40

- intended for devices of Classic and Swing - ABB series with greater mounting depth
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X20R/1_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 160 | 8595057616486 |




ACCESSORIES


VLK 80/R pg. 173


NR 80/R pg. 173


PI 80R pg. 178


S-66 pg. 83


TYP0... pg. 84

material | temperature resistance | self-extinguishing | color | halogen-free material
fire reaction class of underlying material | flaming loop test | package | IP protection

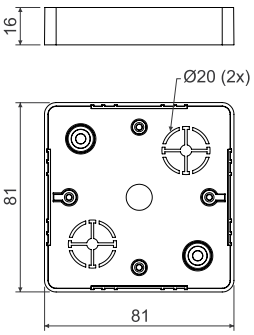
## LK 80R/1 - device box



| MAT | | | | | |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 |

- intended for devices of Classic and Swing - ABB series
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80R/1_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 160 | 8595057616349 |




ACCESSORIES



VLK 80/R pg. 173 | NR 80/R pg. 173 | PI 80R pg. 178 | S-66 pg. 83 | TYP0... pg. 84

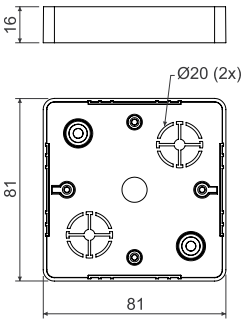
## LK 80R/2 - junction box with a cover



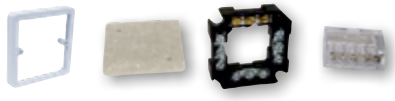
| MAT | | | | | |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 |

- to install on materials with fire classes E or F, use insulating pad
- the cover can be purchased separately

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80R/2_HB** | white RAL 9003 | boxes packed in shrink foil of 10 pieces and screws for attaching the cover included | 10; 110 | 8595057616356 |




ACCESSORIES



NR 80/R pg. 173 | PI 80R pg. 178 | S-66 pg. 83 | TYP0... pg. 84

material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package | IP protection

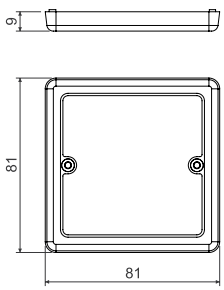
## VLK 80/R - cover



MAT | PVC | PC-ABS - conf. I1 | -5 - +60°C | 850°C | 30 sec.

- for final covering of LK 80R/1, LK 80R/2 and LK 80X20R/1, LK 80X28R/1, LK 80X28 2R trunking boxes using 2.9x13V screws




| item | | desc. | | EAN |
|---|---|---|---|---|
| **VLK 80/R_HB** | white RAL 9003 | packed in shrink foil | 10; 380 | 8595057616325 |
| **VLK 80/R_I1** | pink birch | packed in shrink foil | 10; 380 | 8595568936387 |
| **VLK 80/R_I2** | dark oak | packed in shrink foil | 10; 380 | 8595568936394 |
| **VLK 80/R_SD** | light wood | packed in shrink foil | 10; 380 | 8595568936400 |

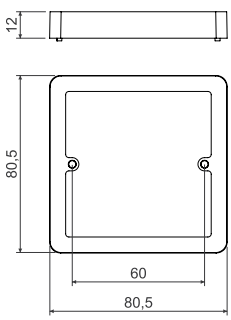
## NR 80/R - extension frame



MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

- intended for greater assembly depth of trunking boxes compatible with devices of the Classic or Swing model lines

| item | | desc. | | EAN |
|---|---|---|---|---|
| **NR 80/R_HB** | white | packed in shrink foil | 10; 240 | 8595057615823 |




material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package | halogen-free material

## LK 80X28 2ZK - device box



MAT | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40

PVC

PC-ABS - conf. I1

- intended for devices of Classic and Swing - ABB series with greater mounting depth
- to install on materials with fire classes E or F, use insulating pad

HB



I1 HF

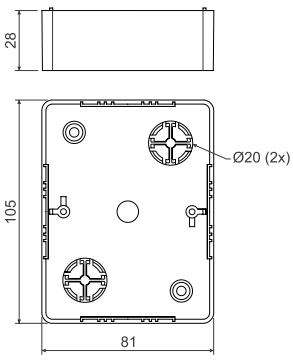


I2



SD






| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28 2ZK_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595057616370 |
| **LK 80X28 2ZK_I1** | pink birch | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595568908957 |
| **LK 80X28 2ZK_I2** | dark oak | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595568908995 |
| **LK 80x28 2ZK_SD** | light wood | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595568909039 |

ACCESSORIES



**PI 80 2ZK**
**pg. 178**



**TYP0...**
**pg. 84**

## LK 80X28 2ZKHF - halogen-free device box

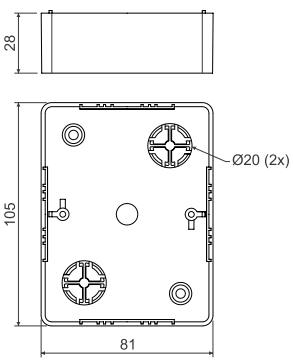


MAT | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 | HF

PC-ABS

- for premises with increased need for protection of persons and property
- intended for double-socket of Classic or Swing series - ABB
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28 2ZKHF_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 80 | 8595057634138 |




ACCESSORIES



**PI 80 2ZK**
**pg. 178**



**TYP0...**
**pg. 84**

material | temperature resistance | self-extinguishing | color | IP protection
fire reaction class of underlying material | flaming loop test | package | for mounting a double-socket | halogen-free material

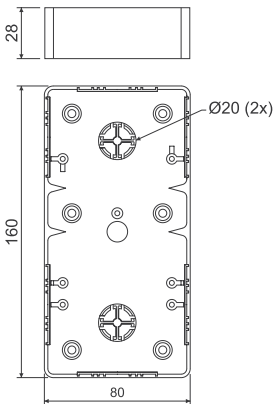
## LK 80X28 2R - device box



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40

- intended for devices of Classic and Swing - ABB series
- to install on materials with fire classes E or F, use insulating pad. (2 pcs PI 80 2ZK)
- installation of two devices or and double-socket

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28 2R_HB** | ○ white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included for 2 devices included | 10; 60 | 8595057615519 |








ACCESSORIES


VLK 80/2R
pg. 175


PI 80 2ZK
pg. 178


S-66
pg. 83


TYP0...
pg. 84

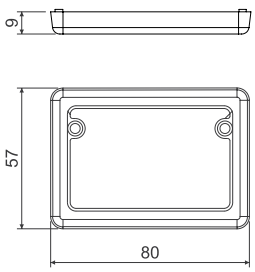
## VLK 80/2R - cover



MAT | PVC | -5 - +60°C | 850°C | 30 sec.

- to finally cover trunking boxes LK 80X28 2R when mounting double-socket

| item | | desc. | | EAN |
|---|---|---|---|---|
| **VLK 80/2R_HB** | ○ white | packed in shrink foil | 10; 560 | 8595057614451 |






ACCESSORIES


2.9X13Z
pg. 82

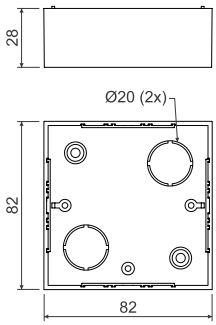

PI 80T
pg. 178


TYP0...
pg. 84

material | temperature resistance | self-extinguishing | color | IP protection
fire reaction class of underlying material | flaming loop test | package | for mounting a double-socket

## LK 80X28/1 - device box



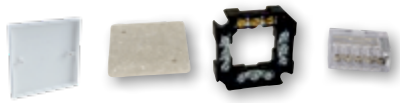



| MAT | | | | | |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 |

- to repair older installations
- to install on materials with fire classes E or F, use insulating pad
- allows installation of devices with greater mounting depth

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80X28/1_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 100 | 8595057617193 |

ACCESSORIES



VLK 80 pg. 177 | PI 80R pg. 178 | S-66 pg. 83 | TYP0... pg. 84

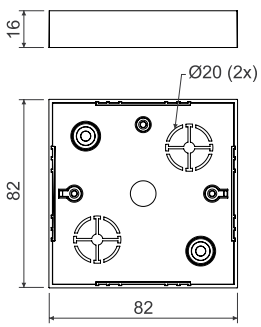
## LK 80/1 - device box



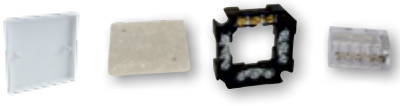
| MAT | | | | | |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40 |

- its shape is also suitable for older devices
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80/1_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 160 | 8595057616387 |




ACCESSORIES



VLK 80 pg. 177 | PI 80R pg. 178 | S-66 pg. 83 | TYP0... pg. 84

material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package | IP protection

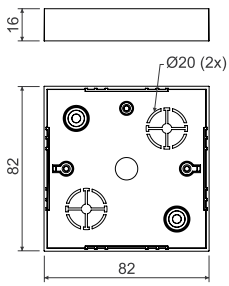
## LK 80/2 - junction box with a cover



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40

- its shape is also suitable for older devices
- inserting terminal plate S-66
- to install on materials with fire classes E or F, use insulating pad
- the cover can be purchased separately

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LK 80/2_HB** | ○ white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, cover screws included, covers individually wrapped in packages of 10 pieces | 10; 110 | 8595057616394 |




ACCESSORIES



**PI 80R** pg. 178 | **S-66** pg. 83 | **TYP0...** pg. 84

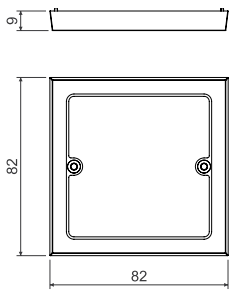
## VLK 80 - cover



MAT | PVC | -5 - +60°C | 850°C | 30 sec.

- to finally cover trunking boxes LK 80/1, 2, 3 and LK 80X28/1
- 2.9x13V screws are not included in the package

| item | | desc. | | EAN |
|---|---|---|---|---|
| **VLK 80_HB** | ○ white | packed in shrink foil | 10; 340 | 8595057616417 |




material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package | IP protection

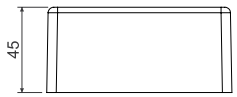
## LKM 45 - universal box

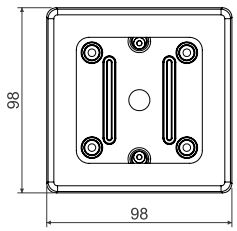


MAT PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | IP40

- universal box for most single devices available on the market
- trunking inlet holes are indicated on the side, for trunking with dimensions of up to 40 x 20 mm
- the box consists of two parts, the top and bottom part
- to install on materials with fire classes E or F, use insulating pad

| item | | desc. | | EAN |
|---|---|---|---|---|
| **LKM 45_HB** | white RAL 9003 | boxes packed in shrink foil in packages of 10 pieces, device screws included | 10; 120 | 8595057634855 |




ACCESSORIES



**TYP0...**
pg. 84

## Thermo-isolating pads

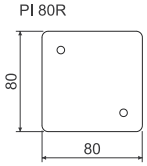


MAT CEMVIN | A1 - F

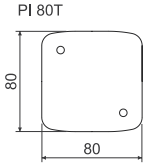
- asbestos-free, harmless material
- the pad increases the thermal resistance when installing wiring boxes on flammable surfaces
- corresponds to the shape of wiring box and devices
- pad thickness is 5 mm

| item | desc. | | EAN |
|---|---|---|---|
| **PI 80R_XX** | for boxes LK 80/..., LK 80X28/1, LK 80R/..., LK 80X...R/1, LK 80X28 2R | 10; 40 | 8595057614697 |
| **PI 80T_XX** | for boxes LK 80X16 T, LK 80X28 T | 10; 40 | 8595057614703 |
| **PI 80 2ZK_XX** | for boxes LK 80X28 2ZK | 10; 40 | 8595057614727 |
| **PI 80 2ZT_XX** | for boxes LK 80X28 2ZT, for box LK 80X28 2T two pads must be used and adjusted by trimming to the required size | 10; 40 | 8595057614710 |

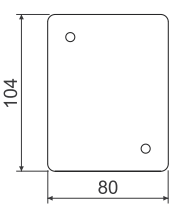
PI 80R



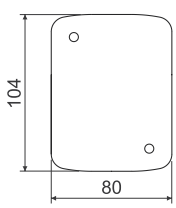

PI 80T




PI 80 2ZK




PI 80 2ZT




material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package | IP protection

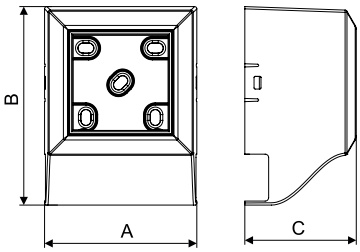
## **PNQ...** - device carrier QUADRO for modular devices



MAT | PVC | -5 - +60°C | 850°C | A1 - F | 30 sec.

- it consists of three parts – carrier, frame and a cover
- intended for the assembly of modular devices QUADRO (pg. **203-205)**, suitable for 45 x 45 45 x 22,5 devices or other manufacturers

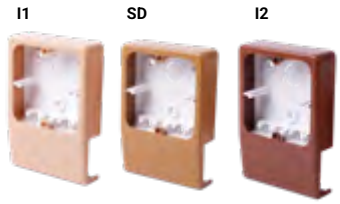
| item | | | A | B | C | for trunkings | | EAN |
|---|---|---|---|---|---|---|---|---|
| | | | mm | mm | mm | | | |
| **PNQ 20X10_HB** | ○ | white | 65,8 | 86 | 48,2 | LHD 20X10 | 1; 82 | 8595568927194 |
| **PNQ 32X15_HB** | ○ | white | 65,8 | 98 | 48,2 | LHD 32X15 | 1; 68 | 8595568927187 |
| **PNQ 40X20_HB** | ○ | white | 65,8 | 108 | 48,2 | LHD 40X20 | 1; 66 | 8595568927200 |
| **PNQ LP 35_HB** | ○ | white | 65,8 | 101 | 48,2 | LP 35 | 1; 68 | 8595568927378 |




## **PN 40X...** - device carrier for LV 40X15 and LHD 40X20

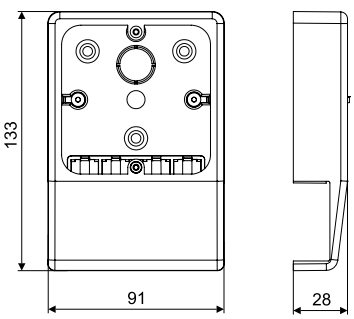


MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.




- it consists of two parts - the carrier and a cover
- the device carrier includes 1 pcs of blinding pieces
- suitable for the following devices: Classic, Tango, Swing, Time and others with a max. width of 83 mm

| item | for trunkings | | | EAN |
|---|---|---|---|---|
| **PN 40X15_HB** | LV 40X15 | ○ white | 10; 60 | 8595057610569 |
| **PN 40X20_HB** | LHD 40X20 | ○ white | 10; 60 | 8595057610583 |
| **PN 40X20_I1** | LHD 40X20 | pink birch | 1; 60 | 8595057657021 |
| **PN 40X20_I2** | LHD 40X20 | dark oak | 1; 60 | 8595057657038 |
| **PN 40X20_SD** | LHD 40X20 | light wood | 1; 60 | 8595568910370 |

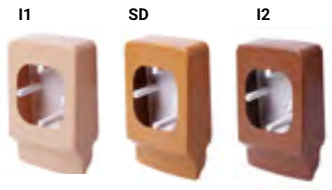



material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package

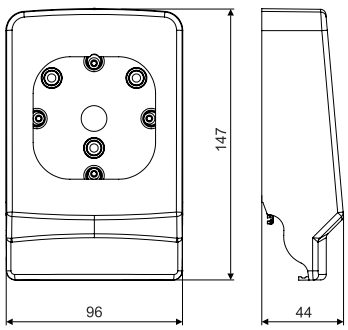
## PNLP 35 2Z - device carrier for trunkings LP 35



MAT PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.




- it consists of two parts - the carrier and a cover
- after removing the vertical posts, a double socket can be installed
- suitable for Classic, Tango, Swing, Time, Element and other devices with a width of max. 89 mm
- the device carrier type I2 is suitable for the TD type rail



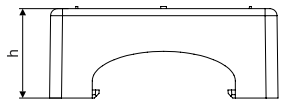

| item | | | EAN |
|---|---|---|---|
| **PNLP 35 2Z_HB** | white | 10; 80 | 8595057655041 |
| **PNLP 35 2Z_I1** | pink birch | 1; 40 | 8595057669239 |
| **PNLP 35 2Z_I2** | dark oak | 1; 40 | 8595057669352 |
| **PNLP 35 2Z_SD** | light wood | 1; 40 | 8595568910387 |

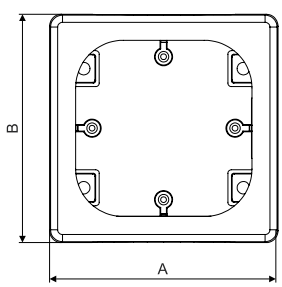
## PNE... - device carrier for trunkings LE



MAT PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- it consists of two parts - the carrier and a cover
- in the PNE 60X20 2Z and PNE 100X20 carriers, a double drawer can be installed after removing the vertical posts
- Suitable for the following devices: Classic, Tango, Swing, Time, Element and others with a max. width of 89 mm




| item | | A mm | B mm | h mm | for trunkings | | EAN |
|---|---|---|---|---|---|---|---|
| **PNE 60X20_HB** | white | 95 | 95 | 38 | LE 60 | 10; 60 | 8595057627475 |
| **PNE 60X20 2Z_HB** | white | 112 | 95 | 38 | | 10; 50 | 8595057627482 |
| **PNE 80X20_HB** | white | 96 | 96 | 38 | LE 80 | 10; 60 | 8595057624689 |
| **PNE 100X20_HB** | white | 112 | 95 | 38 | LE 100 | 10; 50 | 8595057624672 |

material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package | for mounting a double-socket

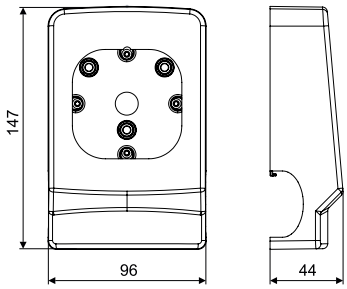
## PNE 40 2Z - device carrier for trunkings LE



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- it consists of two parts - the carrier and a cover
- after removing the members in the vertical axis, you can mount the double socket
- suitable for the following devices: Classic, Tango, Swing, Time, Element and others with a max. width of 89 mm

| item | | for trunkings | | EAN |
|---|---|---|---|---|
| **PNE 40 2Z_HB** | white | LE 40 | 10; 80 | 8595057652347 |



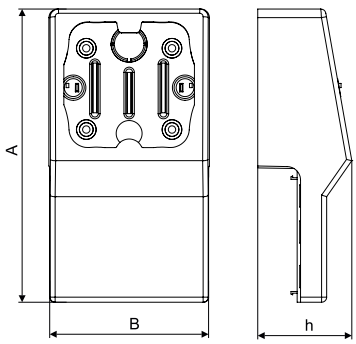

## PN 80X25... - device carrier for trunkings LP (LPK) 80X25



MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec.

- it consists of two parts - the carrier and a cover
- suitable for the following devices: Classic, Tango, Swing, Time and others with a max. width of 83 mm
- PN 80X25 2Z - allows to install double-socket

| item | | A mm | B mm | h mm | | EAN |
|---|---|---|---|---|---|---|
| **PN 80X25_HB** | white | 171 | 92 | 55 | 10; 70 | 8595057611443 |
| **PN 80X25 2Z_HB** | white | 183 | 92 | 57 | 10; 60 | 8595057611399 |




material | temperature resistance | self-extinguishing | color
fire reaction class of underlying material | flaming loop test | package | for mounting a double-socket

## **VK 20** - blanking pliers



- intended for cutting a hole into the side of the trunking for turnout
- width of cut is approx. 20 mm

| item | | EAN |
|---|---|---|
| **VK 20_XX** | 1 | 8595057610125 |





## **L-42W** - trunking and pipe scissors



- intended for cutting of trunkings up to size 40x20 mm and pipes up to 40 mm diameter

| item | | EAN |
|---|---|---|
| **L-42W_XX** | 1 | 8595057611962 |





package



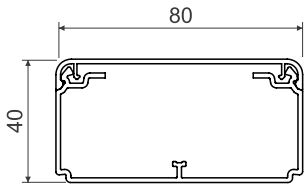
PARAPET

# TRUNKINGS

www.kopos.com

# EKD 80X40 - parapet trunking

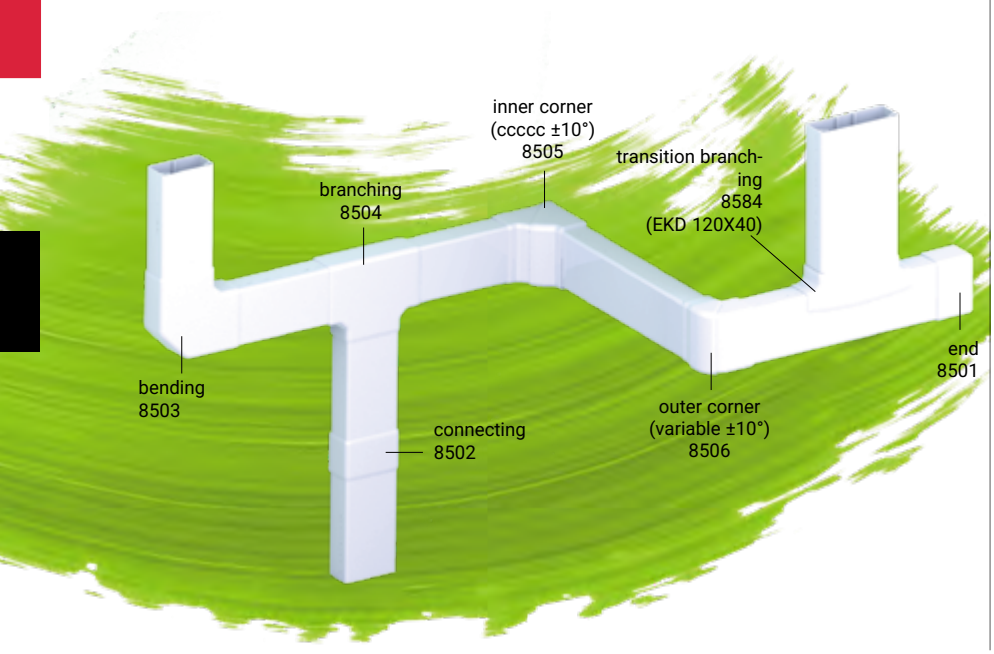





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 2430 mm² | IP40

- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert PEKD 40 partition wall
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- spacers are included in the package – always 1 pc per 1 m
- color variants of the trunking are intended for interior use

| item | | | L m | L m | L desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **EKD 80X40_HC** | ○ | white | 2 | 20 | foil | 8595057697591 | without protective foil |
| **EKD 80X40_HD** | ○ | white | 2 | 10 | carton | 8595057690455 | with protective foil |
| **EKD 80X40_FD** | ● | black | 2 | 10 | carton | 8595568936998 | with protective foil |



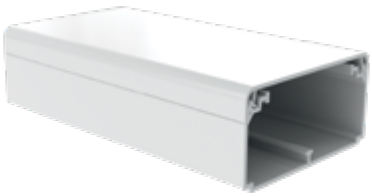

## Accessories

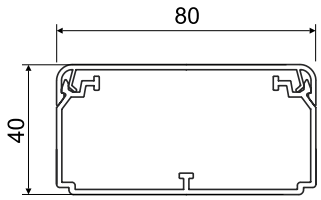
| item | | | | EAN |
|---|---|---|---|---|
| **end** | | | | |
| | ○ | **8501_HB** | 2 | 8595057690462 |
| | ● | **8501_FB** | 2 | 8595568937247 |
| **connecting** | | | | |
| | ○ | **8502_HB** | 2 | 8595057690479 |
| | ● | **8502_FB** | 2 | 8595568937254 |
| **bending** | | | | |
| | ○ | **8503_HB** | 2 | 8595057690486 |
| | ● | **8503_FB** | 2 | 8595568937261 |
| **branching** | | | | |
| | ○ | **8504_HB** | 2 | 8595057690493 |
| | ● | **8504_FB** | 2 | 8595568937278 |
| **transition branching** | | | | |
| | ○ | **8504/EKD_HB** | 2 | 8595057690523 |
| **inner corner (variable ±10°)** | | | | |
| | ○ | **8505_HB** | 2 | 8595057690509 |
| | ● | **8505_FB** | 2 | 8595568937285 |
| **outer corner (variable ±10°)** | | | | |
| | ○ | **8506_HB** | 2 | 8595057690516 |
| | ● | **8506_FB** | 2 | 8595568937292 |
| **spacer** | | | | |
| | ○ | **REKO 80X40_HB** | 100 | 8595057690691 |
| **partition wall** | | | | |
| | ○ | **PEKD 40_-C** | 20 m | 8595057690448 |

more information on pg. 209

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# EKD 80X40HF - halogen-free parapet trunking

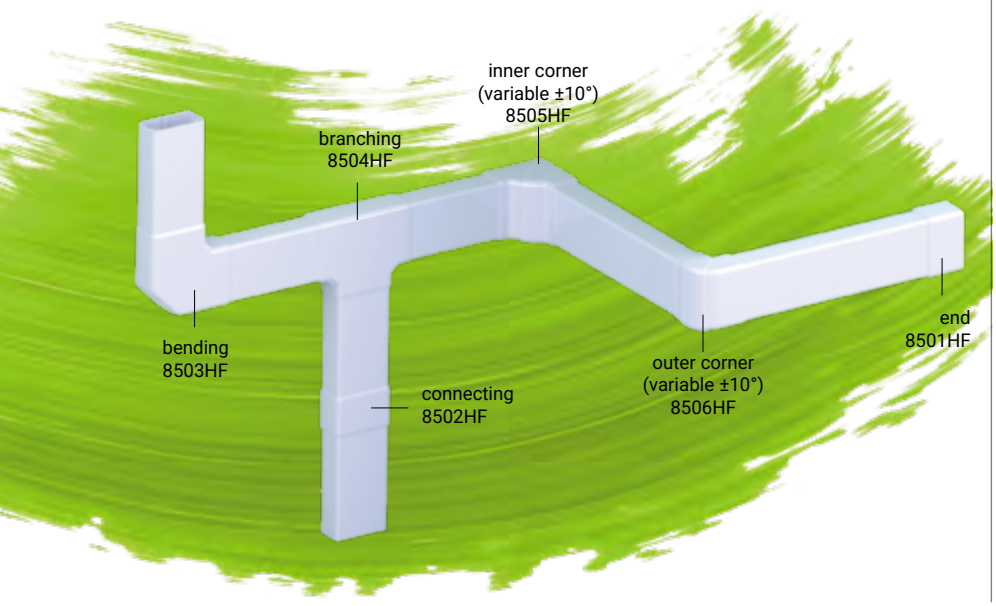





| MAT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 0,5 J | 2430 mm² | | IP40 | | |

- halogen-free, suitable for environments with a higher concentration of people
- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert PEKD 40HF partition wall
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- spacers are included in the package – always 1 pc per 1 m

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **EKD 80X40HF_HD** | white | 2 | 10 | carton | 8595057691278 | with protective foil |



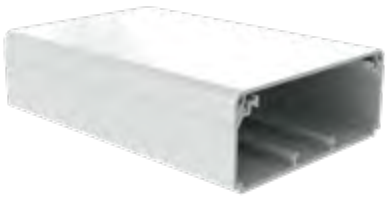

## Accessories

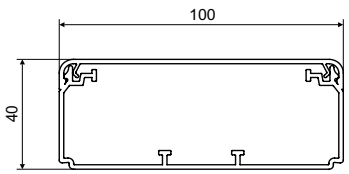
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8501HF_HB** | 2 | 8595057691285 |
| **connecting** | | | |
| | **8502HF_HB** | 2 | 8595057691292 |
| **bending** | | | |
| | **8503HF_HB** | 2 | 8595057691308 |
| **branching** | | | |
| | **8504HF_HB** | 2 | 8595057691315 |
| **inner corner (variable ±10°)** | | | |
| | **8505HF_HB** | 2 | 8595057691322 |
| **outer corner (variable ±10°)** | | | |
| | **8506HF_HB** | 2 | 8595057691339 |
| **spacer** | | | |
| | **REKO 80X40HF_HB** | 100 | 8595057692060 |
| **partition wall** | | | |
| | **PEKD 40HF_-C** | 20 m | 8595057691551 |

more information on pg. 209

material
fire reaction class of underlying material
antibacteriality
temperature resistance
flaming loop test
halogen-free material
self-extinguishing
package
IP protection
color
impact strength
inside area
area with a risk of explosion
protective foil

# EKD 100X40 - parapet trunking

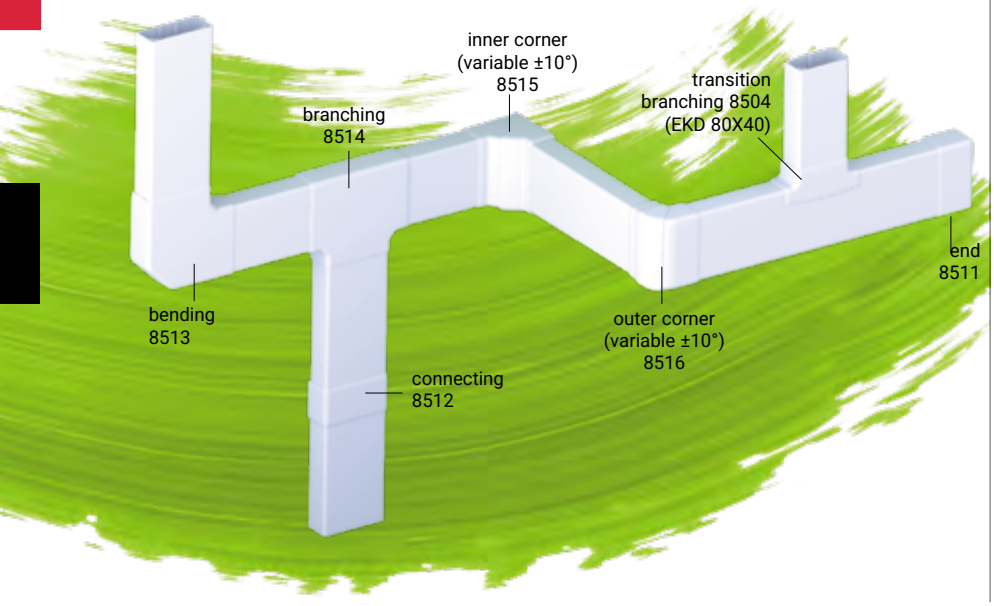





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 3010 mm² | IP40

- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert PEKD 40 partition wall
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- spacers are included in the package – always 1 pc per 1 m

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **EKD 100X40_HD** | white | 2 | 8 | carton | 8595057690530 | with protective foil |



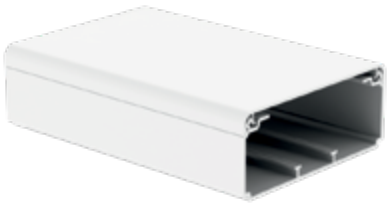

## Accessories

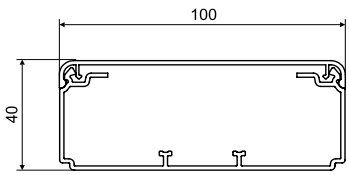
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8511_HB** | 2 | 8595057690547 |
| **connecting** | | | |
| | **8512_HB** | 2 | 8595057690554 |
| **bending** | | | |
| | **8513_HB** | 2 | 8595057690561 |
| **branching** | | | |
| | **8514_HB** | 2 | 8595057690578 |
| **transition branching** | | | |
| | **8514/EKD_HB** | 2 | 8595057690608 |
| **inner corner (variable ±10°)** | | | |
| | **8515_HB** | 2 | 8595057690585 |
| **outer corner (variable ±10°)** | | | |
| | **8516_HB** | 2 | 8595057690592 |
| **spacer** | | | |
| | **REKO 100X40_HB** | 100 | 8595057690707 |
| **partition wall** | | | |
| | **PEKD 40_-C** | 20 m | 8595057690448 |

more information on pg. 209

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# EKD 100X40HF - halogen-free parapet trunking

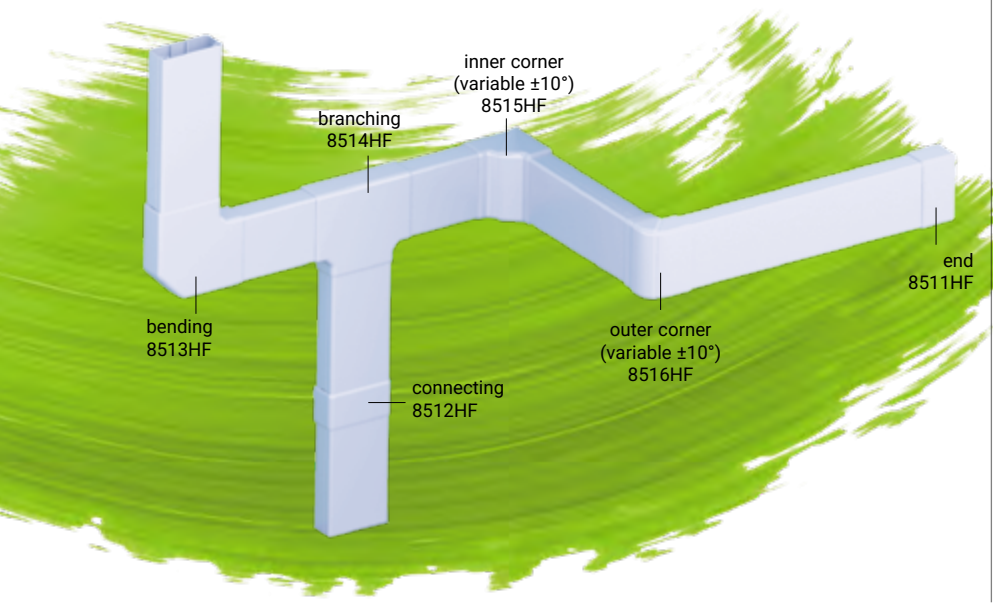





| MAT | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 0,5 J | 3010 mm² | | IP40 | | |

- halogen-free, suitable for environments with a higher concentration of people
- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert PEKD 40HF partition wall
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- spacers are included in the package – always 1 pc per 1 m

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **EKD 100X40HF_HD** | white | 2 | 8 | carton | 8595568937421 | with protective foil |




## Accessories

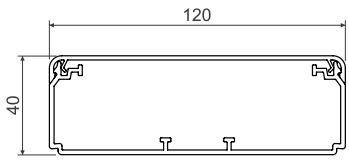
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8511HF_HB** | 2 | 8595568942012 |
| **connecting** | | | |
| | **8512HF_HB** | 2 | 8595568942029 |
| **bending** | | | |
| | **8513HF_HB** | 2 | 8595568942036 |
| **branching** | | | |
| | **8514HF_HB** | 2 | 8595568942043 |
| **inner corner (variable ±10°)** | | | |
| | **8515HF_HB** | 2 | 8595568942050 |
| **outer corner (variable ±10°)** | | | |
| | **8516HF_HB** | 2 | 8595568942067 |
| **spacer** | | | |
| | **REKO 100X40HF_HB** | 50 | 8595568941800 |
| **partition wall** | | | |
| | **PEKD 40HF_-C** | 20 m | 8595057691551 |

more information on pg. 209

material
fire reaction class of underlying material
antibacteriality
temperature resistance
flaming loop test
halogen-free material
self-extinguishing
package
IP protection
color
impact strength
inside area
area with a risk of explosion
protective foil

# EKD 120X40 - parapet trunking

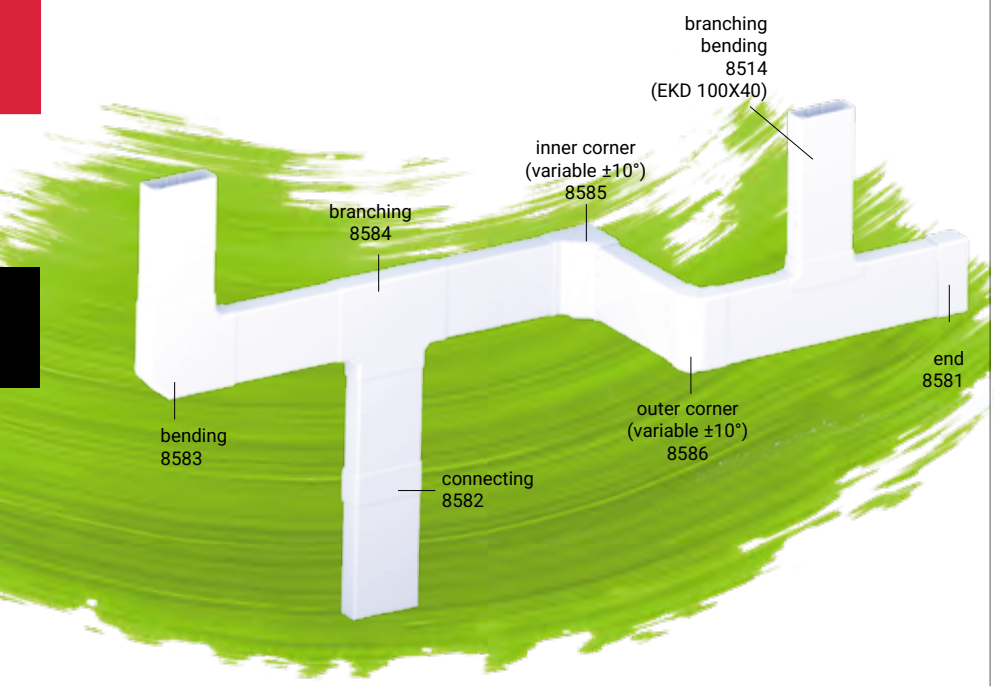





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 0,5 J | 4000 mm² | IP40

- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert PEKD 40 partition wall
- double lock on cover increasing the trunking's rigidity and ensuring stronger cover fixation
- spacers are included in the package – always 1 pc per 1 m

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **EKD 120X40_HC** | white | 2 | 20 | foil | 8595057699328 | without protective foil |
| **EKD 120X40_HD** | white | 2 | 8 | carton | 8595057690615 | with protective foil |




## Accessories

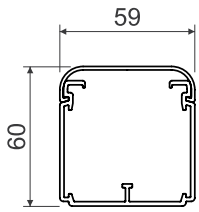
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8581_HB** | 2 | 8595057690622 |
| **connecting** | | | |
| | **8582_HB** | 2 | 8595057690639 |
| **bending** | | | |
| | **8583_HB** | 2 | 8595057690646 |
| **branching** | | | |
| | **8584_HB** | 2 | 8595057690653 |
| **transition branching** | | | |
| | **8584/EKD_HB** | 2 | 8595057690684 |
| **inner corner (variable ±10°)** | | | |
| | **8585_HB** | 2 | 8595057690660 |
| **outer corner (variable ±10°)** | | | |
| | **8586_HB** | 2 | 8595057690677 |
| **spacer** | | | |
| | **REKO 120X40_HB** | 100 | 8595057690714 |
| **partition wall** | | | |
| | **PEKD 40_-C** | 20 m | 8595057690448 |

more information on pg. 209

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# EKE 60X60 - parapet trunking elegant

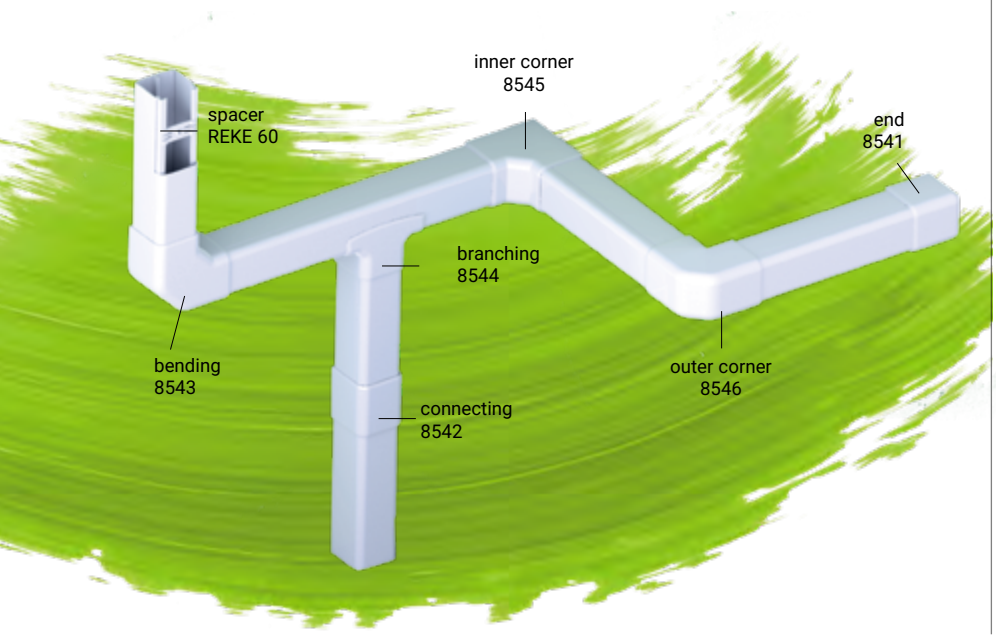





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 2 J | 2600 mm² | IP20

- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert PEKE 60 and PKS 70/60 partition wall
- spacers are included in the package – always 1 pc per 1 m
- **European Industrial design protection**

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **EKE 60X60_HD** | white | 2 | 18 | carton | 8595057620766 | with protective foil |



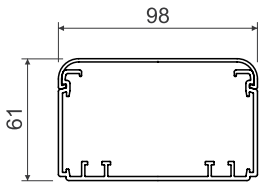

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8541_HB** | 2 | 8595057622005 |
| **connecting** | | | |
| | **8542_HB** | 2 | 8595057622012 |
| **bending** | | | |
| | **8543_HB** | 2 | 8595057622029 |
| **branching** | | | |
| | **8544_HB** | 2 | 8595057622036 |
| **inner corner** | | | |
| | **8545_HB** | 2 | 8595057622043 |
| **outer corner** | | | |
| | **8546_HB** | 2 | 8595057622050 |
| **spacer** | | | |
| | **REKE 60_HB** | 9 | 8595057626416 |
| **partition wall** | | | |
| | **PEKE 60_-C** | 20 m | 8595057627079 |
| | more information on pg. **210** | | |
| **partition wall** | | | |
| | **PKS 70/60_XX** | 20 m | 8595057664364 |
| | more information on pg. **211** | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# EKE 100X60 - parapet trunking elegant

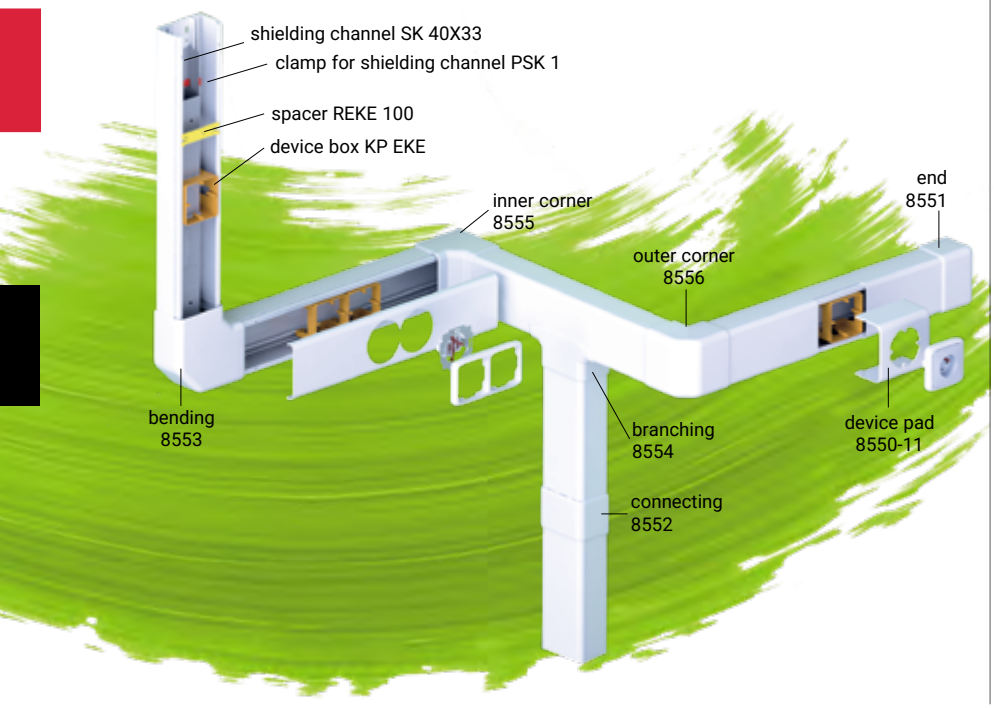





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 2 J | 4600 mm² | IP20

- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert partition wall or shielding channel
- possibility to insert an device box and subsequently mount common types of devices
- spacers are included in the package – always 1 pc per 1 m
- **European Industrial design protection**

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **EKE 100X60_HD** | white | 2 | 8 | carton | 8595057620735 | with protective foil |



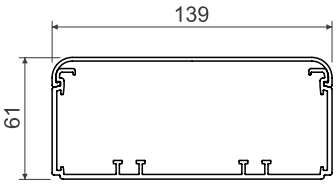

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8551_HB** | 2 | 8595057622418 |
| **connecting** | | | |
| | **8552_HB** | 2 | 8595057622425 |
| **bending** | | | |
| | **8553_HB** | 2 | 8595057622432 |
| **branching** | | | |
| | **8554_HB** | 2 | 8595057622449 |
| **inner corner** | | | |
| | **8555_HB** | 2 | 8595057622456 |
| **outer corner** | | | |
| | **8556_HB** | 2 | 8595057622463 |
| **spacer** | | | |
| | **REKE 100_HB** | 9 | 8595057626409 |
| **partition wall** | | | |
| **PEKE 60_-C** | | 20 m | 8595057627079 |
| **PKS 70/60_XX** | | 20 m | 8595057664364 |
| **PEP 60_HD** | | 32 m | 8595057668768 |
| **PEP 60/K_S** | | 24 m | 8595057668775 |
| more information on pg. 210-212 | | | |
| **shielding channel** | | | |
| **SK 40X20_S** | | 12 m | 8595057614840 |
| **SK 40X33_S** | | 12 m | 8595057630291 |
| more information on pg. 212 | | | |
| **device box** | | | |
| **KP EKE_HB** | | 10 | 8595057621732 |
| more information on pg. 207 | | | |
| **device pad** | | | |
| **8550-11_HB** | | 2 | 8595057646667 |
| **8550-12_HB** | | 2 | 8595057646674 |
| **8550-13_HB** | | 2 | 8595057646681 |
| more information on pg. 208 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality

# EKE 140X60 - parapet trunking elegant

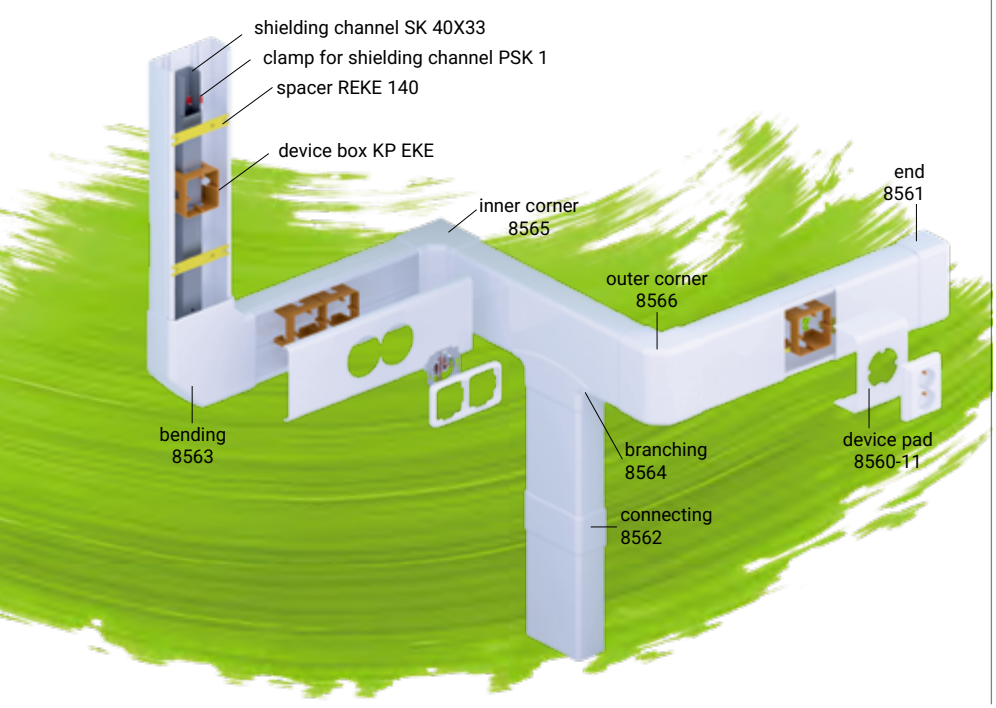





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 2 J | 7000 mm² | IP20

- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert partition wall or shielding channel
- possibility to insert an device box and subsequently mount common types of devices
- spacers are included in the package – always 1 pc per 1 m
- **European Industrial design protection**

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **EKE 140X60_HD** | white | 2 | 6 | carton | 8595057620704 | with protective foil |



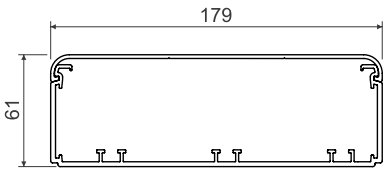

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8561_HB** | 2 | 8595057622470 |
| **connecting** | | | |
| | **8562_HB** | 2 | 8595057622487 |
| **bending** | | | |
| | **8563_HB** | 2 | 8595057622494 |
| **branching** | | | |
| | **8564_HB** | 2 | 8595057622500 |
| **inner corner** | | | |
| | **8565_HB** | 2 | 8595057622517 |
| **outer corner** | | | |
| | **8566_HB** | 2 | 8595057622524 |
| **spacer** | | | |
| | **REKE 140_HB** | 9 | 8595057626393 |
| **partition wall** | | | |
| **PEKE 60_-C** | | 20 m | 8595057627079 |
| **PKS 70/60_XX** | | 20 m | 8595057664364 |
| **PEP 60_HD** | | 32 m | 8595057668768 |
| **PEP 60/K_S** | | 24 m | 8595057668775 |
| more information on pg. **210, 211, 212** | | | |
| **shielding channel** | | | |
| **SK 40X20_S** | | 12 m | 8595057614840 |
| **SK 40X33_S** | | 12 m | 8595057630291 |
| more information on pg. **212** | | | |
| **device box, device carrier** | | | |
| **KP EKE_HB** | | 10 | 8595057621732 |
| **PN EKE_S** | | 1 | 8595057658028 |
| more information on pg. **207** | | | |
| **device pad** | | | |
| **8560-11_HB** | | 2 | 8595057646698 |
| **8560-12_HB** | | 2 | 8595057646704 |
| **8560-13_HB** | | 2 | 8595057646711 |
| more information on pg. **208** | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket | | pro montage vestavné zásuvky 400 V | |

# EKE 180X60 - parapet trunking elegant

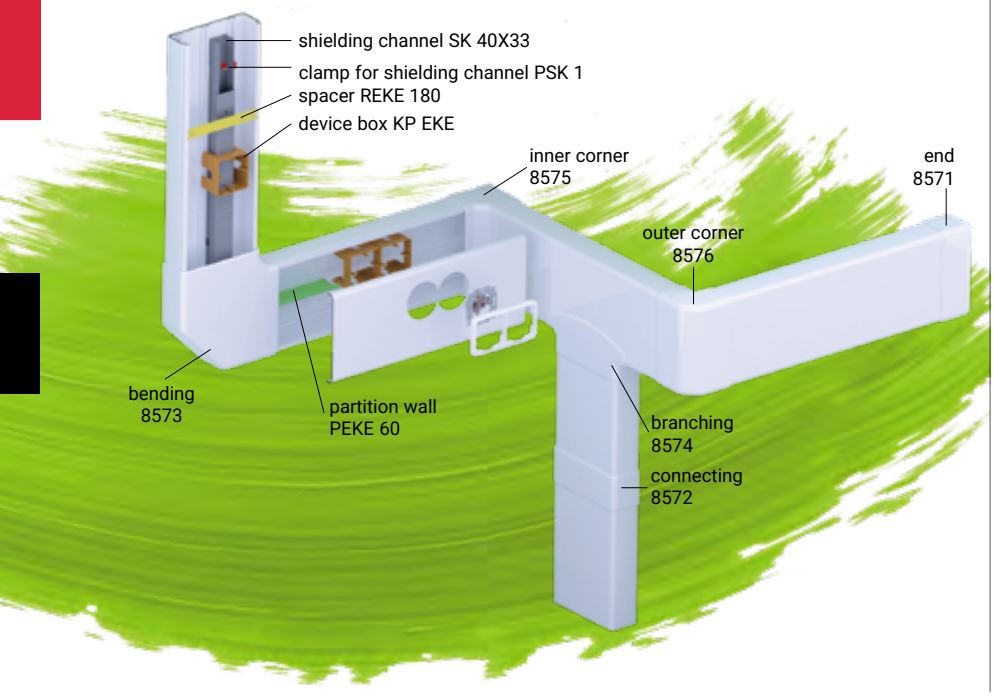





MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 2 J | 9000 mm² | IP20

- it is designed for inserting multiple cables or cables of larger diameters
- possibility to insert partition wall or shielding channel
- possibility to insert an device box and subsequently mount common types of devices
- spacers are included in the package – always 1 pc per 1 m
- **European Industrial design protection**

| item | | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **EKE 180X60_HD** | ◯ | white | 2 | 6 | carton | 8595057620674 | with protective foil |




## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8571_HB** | 2 | 8595057622357 |
| **connecting** | | | |
|  | **8572_HB** | 2 | 8595057622364 |
| **bending** | | | |
|  | **8573_HB** | 2 | 8595057622371 |
| **branching** | | | |
|  | **8574_HB** | 2 | 8595057622388 |
| **inner corner** | | | |
|  | **8575_HB** | 2 | 8595057622395 |
| **outer corner** | | | |
|  | **8576_HB** | 2 | 8595057622401 |
| **spacer** | | | |
|  | **REKE 180_HB** | 9 | 8595057626386 |
| **partition wall** | | | |
| **PEKE 60_-C** | | 20 m | 8595057627079 |
| **PKS 70/60_XX** | | 20 m | 8595057664364 |
| **PEP 60_HD** | | 32 m | 8595057668768 |
| **PEP 60/K_S** | | 24 m | 8595057668775 |

more information on pg. 210, 211, 212

| **shielding channel** | | |
|---|---|---|
| **SK 40X20_S** | 12 m | 8595057614840 |
| **SK 40X33_S** | 12 m | 8595057630291 |

more information on pg. 212

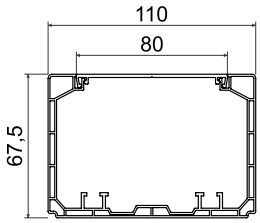
| **device box, device carrier** | | |
|---|---|---|
| **KP EKE_HB** | 10 | 8595057621732 |
| **PN EKE_S** | 1 | 8595057658028 |

more information on pg. 207

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket | pro montage vestavné zásuvky 400 V

# PK 110X65 D - parapet trunking





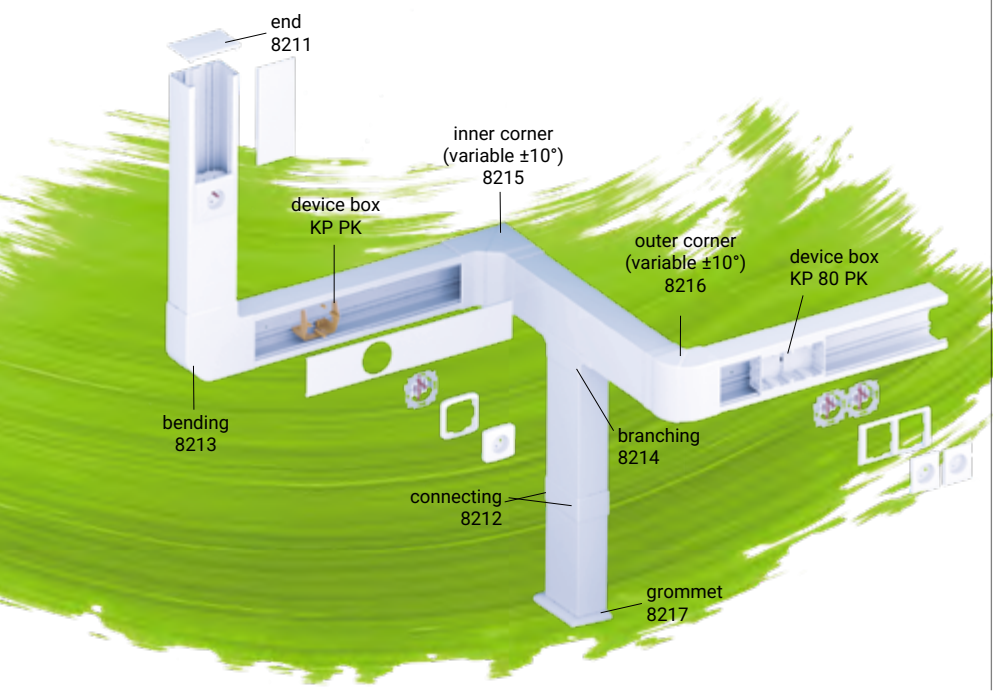

montage video KOPOBOX MINI

montage video PK 130x65 D

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 5500 mm² | IP40 | only KP PK | IK07

- designed for inserting power and communication circuits, security lines and other lines
- individual lines can be electromagnetically shielded by inserting a shielding channel, which is fixed to the trunking by clamps PSK 1 (pg. 213)
- for classic devices that are installed in a closed KP 80 PK device box snapped into the trunking body, or in an open KP PK device box installed in the bottom of the parapet trunking
- with using KOPOBOX MINI P (pg. 91) modular devices can be installed (pg. 203-205)
- to install devices with very rounded corners, KOPOS recommends using of the KP PK device box and drilling the hole in the cover using the VPT 64 drill (pg. 86)
- quick cover instalation is done by pressing it in the middle

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **PK 110X65 D_HD** | white | 2 | 6 | carton | 8595568924636 | with protective foil |



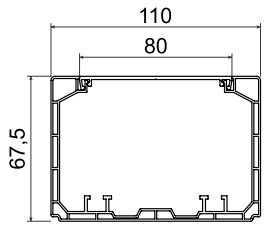

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8211_HB** | 2 | 8595568924643 |
| **connecting** | | | |
| | **8212_HB** | 2 | 8595568924650 |
| **bending** | | | |
| | **8213_HB** | 2 | 8595568924667 |
| **branching** | | | |
| | **8214_HB** | 2 | 8595568924674 |
| **inner corner (variable ±10°)** | | | |
| | **8215_HB** | 2 | 8595568924681 |
| **outer corner (variable ±10°)** | | | |
| | **8216_HB** | 2 | 8595568924698 |
| **grommet** | | | |
| | **8217_HB** | 2 | 8595568927132 |
| **partition wall** | | | |
| **PEKE 60_-C** | | 20 m | 8595057627079 |
| **PKS 70/60_XX** | | 20 m | 8595057664364 |
| **PEP 60_HD** | | 32 m | 8595057668768 |
| **PEP 60/K_S** | | 24 m | 8595057668775 |
| more information on pg. 210, 211, 212 | | | |
| **shielding channel** | | | |
| **SK 40X20_S** | | 12 m | 8595057614840 |
| **SK 40X33_S** | | 12 m | 8595057630291 |
| SK 40X33 - only when using KP PK, more information on pg. 212 | | | |
| **device box** | | | |
| **KP 80 PK_HB** | | 2 | 8595568930224 |
| **KP PK_HB** | | 10 | 8595057629011 |
| more information on pg. 206, 207 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket | mechanical protection

# PK 110X65 D HF - halogen-free parapet trunking





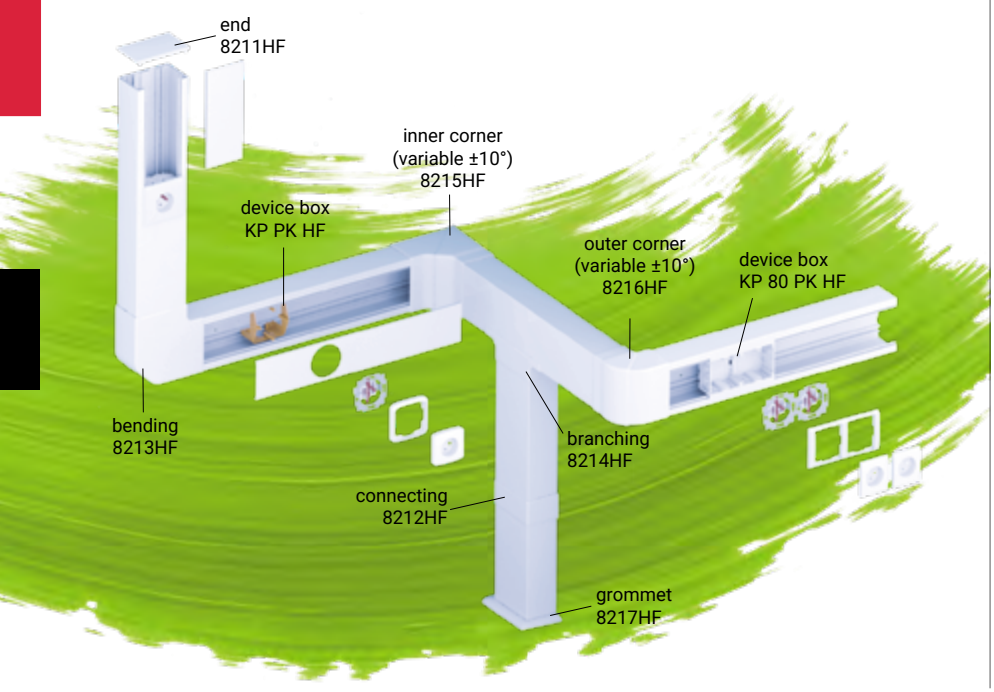

montage video KOPOBOX MINI

montage video PK 130X65 D

MAT PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 1 J | 5500 mm² | IP40 | only KP PK HF | IK07 | HF

- halogen-free, suitable for environments with a higher concentration of people
- designed for inserting power and communication circuits, security lines and other lines
- possibility to insert partition wall or shield
- for classic devices that are installed in a closed device box KP 80 PK HF
- with using KOPOBOX MINI P (pg. 91) modular devices (pg. 203 - 205) can be installed
- possible use in systems with maintenance of functionality in case of fire - see catalog Cable management systems/Fire resistant systems)

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| **PK 110X65 D HF_HD** | white | 2 | 6 | carton | 8595568934734 | with protective foil |



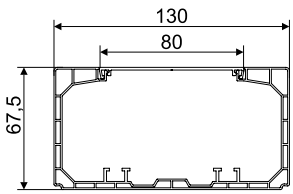

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8211HF_HB** | 2 | 8595568934741 |
| **connecting** | | | |
| | **8212HF_HB** | 2 | 8595568934758 |
| **bending** | | | |
| | **8213HF_HB** | 2 | 8595568934765 |
| **branching** | | | |
| | **8214HF_HB** | 2 | 8595568934772 |
| **inner corner (variable ±10°)** | | | |
| | **8215HF_HB** | 2 | 8595568934789 |
| **outer corner (variable ±10°)** | | | |
| | **8216HF_HB** | 2 | 8595568934796 |
| **grommet** | | | |
| | **8217HF_HB** | 2 | 8595568934802 |
| **partition wall** | | | |
| | **PEKE 60 HF_HD** | 10 m | 8595568934826 |
| | more information on pg. 210 | | |
| **device box** | | | |
| **KP 80 PK HF_HB** | | 2 | 8595568934819 |
| **KP PK HF_HB** | | 2 | 8595568919458 |
| more information on pg. 206, 207 | | | |
| **shielding channel** | | | |
| **SK 40X20_S** | | 12 m | 8595057614840 |
| **SK 40X33_S** | | 12 m | 8595057630291 |
| more information on pg. 212 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket | | mechanical protection | halogen-free material

# PK 130X65 D - parapet trunking





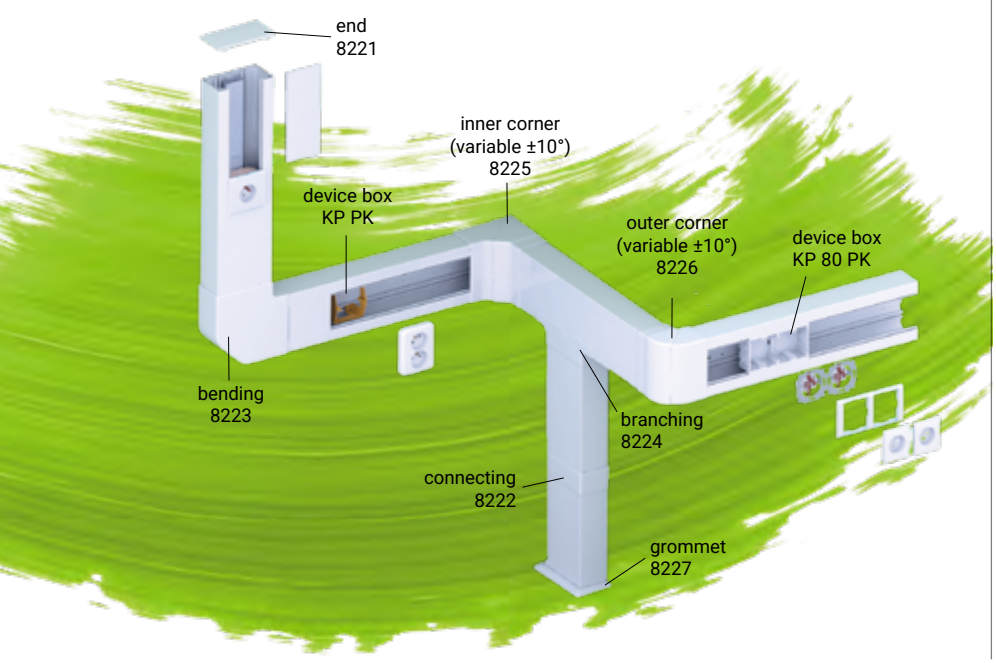

montage video KOPOBOX MINI

montage video PK 130X65 D

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 6000 mm² | IP40 | only KP PK | IK07

- designed for inserting power and communication circuits, security lines and other lines
- individual lines can be electromagnetically shielded by inserting a shielding channel, which is fixed to the trunking by clamps PSK 1 (pg. 213)
- for classic devices that are installed in a closed device box KP 80 PK clicked in the body of the canal or into an open device box KP PK installed in the bottom of the parapet trunkings
- with using KOPOBOX MINI P (pg. 91) modular devices (pg. 203 - 205) can be installed
- to install devices with very rounded corners, KOPOS recommends using of the KP PK device box and drilling the hole in the cover using the VPT 64 drill (pg. 86)
- quick cover instalation is done by pressing it in the middle

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **PK 130X65 D_HD** | white | 2 | 6 | carton | 8595568924704 | with protective foil |



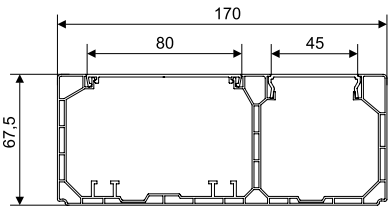

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8221_HB** | 2 | 8595568924711 |
| **connecting** | | | |
| | **8222_HB** | 2 | 8595568924728 |
| **bending** | | | |
| | **8223_HB** | 2 | 8595568924735 |
| **branching** | | | |
| | **8224_HB** | 2 | 8595568924742 |
| **inner corner (variable ±10°)** | | | |
| | **8225_HB** | 2 | 8595568924759 |
| **outer corner (variable ±10°)** | | | |
| | **8226_HB** | 2 | 8595568924766 |
| **grommet** | | | |
| | **8227_HB** | 2 | 8595568927149 |
| **partition wall** | | | |
| | **PEKE 60_-C** | 20 m | 8595057627079 |
| | **PKS 70/60_XX** | 20 m | 8595057664364 |
| | **PEP 60_HD** | 32 m | 8595057668768 |
| | **PEP 60/K_S** | 24 m | 8595057668775 |
| more information on pg. 210, 211, 212 | | | |
| **shielding channel** | | | |
| | **SK 40X20_S** | 12 m | 8595057614840 |
| | **SK 40X33_S** | 12 m | 8595057630291 |
| SK 40X33 - only when using KP PK, more information on pg. 212 | | | |
| **device box** | | | |
| | **KP 80 PK_HB** | 2 | 8595568930224 |
| | **KP PK_HB** | 10 | 8595057629011 |
| more information on pg. 206, 207 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket | mechanical protection

# PK 170X65 D - parapet trunking





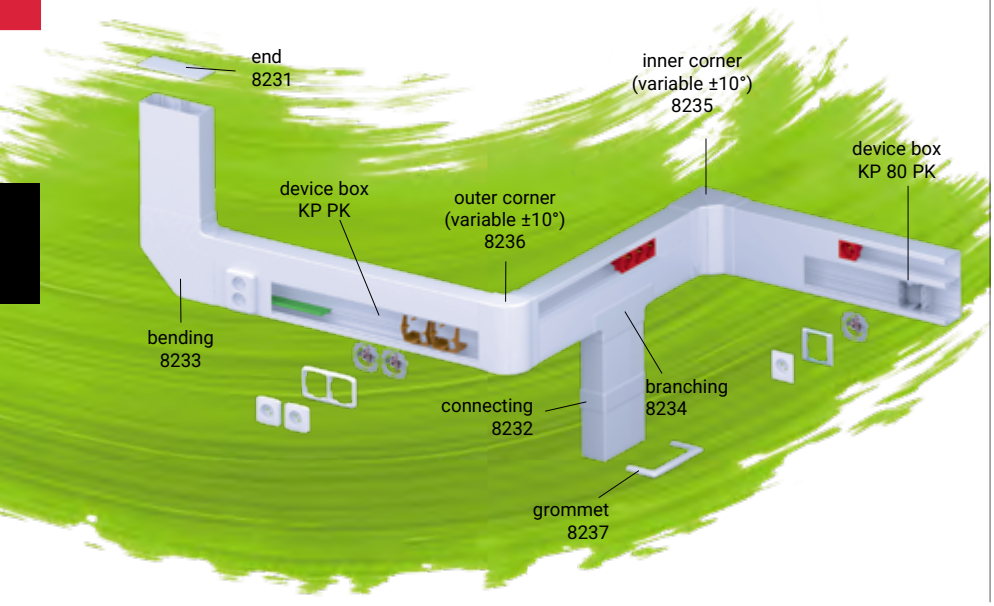

montage video PK 160X65 D

montage video PK 130X65 D

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 4200; 2500 mm² | IP40 | only KP PK | IK07

- designed for installation of classic and modular devices 45 x 45 or 45 x 22,5 mm
- KOPOS recommends installing QUADRO devices (pg. 203-205), tailor-made for KOPOS products
- the installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric with maximal depth of 52 mm
- it is necessary to use the device box KP 80 PK or KP PK for the assembly of classic devices The closed box KP 80 PK is snapped into the body of the trunking and the cover is attached to the box. The open device box KP PK is snapped into the bottom of the trunking and the cover must be drilled with a VPT 64 drill. (pg. 86)
- installation of modular devices without additional accessories
- maximum number of modular devices placed next to each other is 3 pcs. When installing multiple devices next to each, it is necessary to put about 5 cm wide piece of cover after 3 pieces to fasten them

| item | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|
| PK 170X65 D_HD | white | 2 | 6 | carton | 8595568924773 | with protective foil |



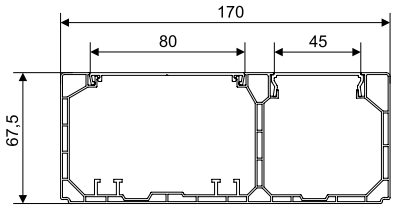

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8231_HB** | 2 | 8595568924780 |
| **connecting** | | | |
| | **8232_HB** | 2 | 8595568924797 |
| **bending** | | | |
| | **8233_HB** | 2 | 8595568924803 |
| **branching** | | | |
| | **8234_HB** | 2 | 8595568924810 |
| **inner corner (variable ±10°)** | | | |
| | **8235_HB** | 2 | 8595568924827 |
| **outer corner (variable ±10°)** | | | |
| | **8236_HB** | 2 | 8595568924834 |
| **grommet** | | | |
| | **8237_HB** | 2 | 8595568927156 |
| **partition wall** | | | |
| **PEKE 60_-C** | | 20 m | 8595057627079 |
| **PKS 70/60_XX** | | 20 m | 8595057664364 |
| **PEP 60_HD** | | 32 m | 8595057668768 |
| **PEP 60/K_S** | | 24 m | 8595057668775 |
| more information on pg. 210, 211, 212 | | | |
| **shielding channel** | | | |
| **SK 40X20_S** | | 12 m | 8595057614840 |
| **SK 40X33_S** | | 12 m | 8595057630291 |
| SK 40X33 - only when using KP PK, více informací na pg. 212 | | | |
| **device box** | | | |
| **KP 80 PK_HB** | | 2 | 8595568930224 |
| **KP PK_HB** | | 10 | 8595057629011 |
| more information on pg. 206, 207 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket | mechanical protection

# PK 170X65 D HF - halogen-free parapet trunking





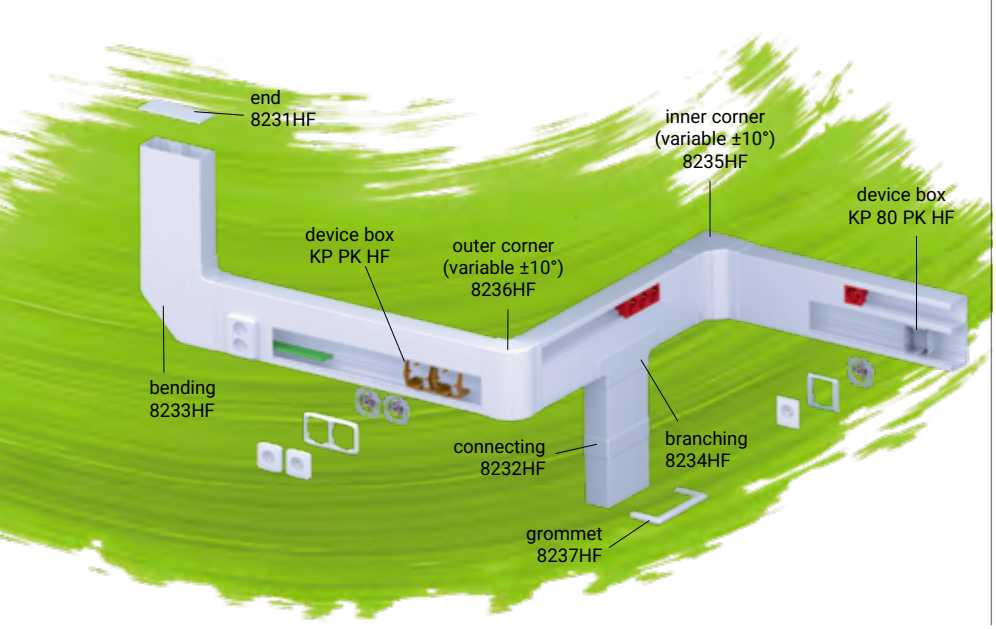

montage video PK 160X65 D

montage video PK 130X65 D

MAT PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 1 J | 4200; 2500 mm² | IP40 | only KP PK HF | IK07 | HF

- halogen-free, suitable for environments with a higher concentration of people
- designed for installation of classic and modular devices 45x45 or 45x22,5 mm
- KOPOS recommends installing QUADRO devices (pg. 203-205), tailor-made for KOPOS products
- the installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric with maximal depth of 52 mm
- it is necessary to use the device box KP 80 PK HF or KP PK HF for the assembly of classic devices. The closed box KP 80 PK HF is snapped into the body of the trunking and the cover is attached to the box., The open device box KP PK HF is snapped into the bottom of the trunking and the cover must be drilled with a VPT 64 drill (pg. 86)
- installation of modular devices without additional accessories
- maximum number of modular devices placed next to each other is 3 pcs. When installing multiple devices next to each, it is necessary to put about 5 cm wide piece of cover after 3 pieces to fasten them

| item | | | L m | m | desc. | EAN | note |
|---|---|---|---|---|---|---|---|
| **PK 170X65 D HF_HD** | ○ | white | 2 | 6 | carton | 8595568934833 | with protective foil |



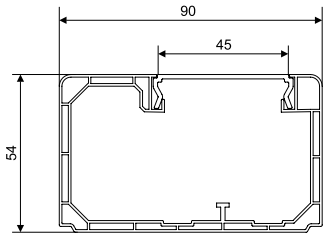

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8231HF_HB** | 2 | 8595568934840 |
| **connecting** | | | |
| | **8232HF_HB** | 2 | 8595568934857 |
| **bending** | | | |
| | **8233HF_HB** | 2 | 8595568934864 |
| **branching** | | | |
| | **8234HF_HB** | 2 | 8595568934871 |
| **inner corner (variable ±10°)** | | | |
| | **8235HF_HB** | 2 | 8595568934888 |
| **outer corner (variable ±10°)** | | | |
| | **8236HF_HB** | 2 | 8595568934895 |
| **grommet** | | | |
| | **8237HF_HB** | 2 | 8595568934901 |
| **partition wall** | | | |
| | **PEKE 60 HF_HD** | 10 m | 8595568934826 |
| | more information on pg. 210 | | |
| **device box** | | | |
| **KP 80 PK HF_HB** | | 2 | 8595568934819 |
| **KP PK HF_HB** | | 2 | 8595568919458 |
| more information on pg. 206, 207 | | | |
| **shielding channel** | | | |
| **SK 40X20_S** | | 12 m | 8595057614840 |
| **SK 40X33_S** | | 12 m | 8595057630291 |
| more information on pg. 212 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket | mechanical protection | halogen-free material

# PK 90X55 D - parapet trunking



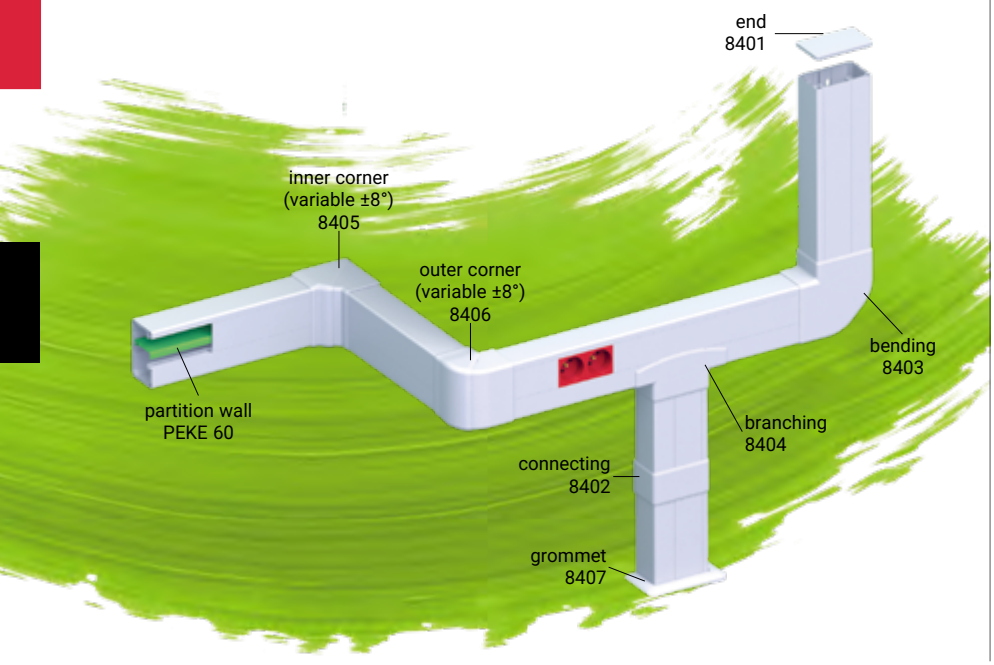



montage video PK 90X55 D

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 3800 mm² | IP40 | IK07

- designed for installation of modular devices 45 x 45 or 45 x 22,5 mm
- KOPOS recommends installing QUADRO devices (pg. 203,205), tailor-made for KOPOS products
- the installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric with maximal depth of 42 mm
- to separate the circuits, PEKE 60 or PKS 70/60 can be used
- maximum number of modular devices placed next to each other is 3 pcs. When installing multiple devices next to each, it is necessary to put about 5 cm wide piece of cover after 3 pieces to fasten them
- installation of modular devices without additional accessories
- color variants of the trunking are intended for interior use

| item | | | L | | | EAN | note |
|---|---|---|---|---|---|---|---|
| | | | m | m | desc. | | |
| PK 90X55 D_HD | ○ | white | 2 | 12 | carton | 8595057688056 | with protective foil |
| PK 90X55 D_FD | ● | black | 2 | 12 | carton | 8595568936974 | with protective foil |



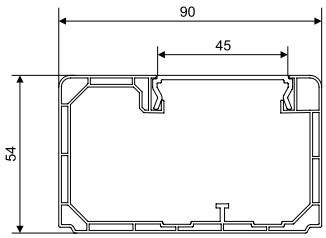

## Accessories

| item | | | | EAN |
|---|---|---|---|---|
| **end** | | | | |
| | ○ | **8401_HB** | 2 | 8595057688063 |
| | ● | **8401_FB** | 2 | 8595568937001 |
| **connecting** | | | | |
| | ○ | **8402_HB** | 2 | 8595057688070 |
| | ● | **8402_FB** | 2 | 8595568937018 |
| **bending** | | | | |
| | ○ | **8403_HB** | 2 | 8595057688087 |
| | ● | **8403_FB** | 2 | 8595568937025 |
| **branching** | | | | |
| | ○ | **8404_HB** | 2 | 8595057688094 |
| | ● | **8404_FB** | 2 | 8595568937032 |
| **inner corner (variable ±8°)** | | | | |
| | ○ | **8405_HB** | 2 | 8595057688100 |
| | ● | **8405_FB** | 2 | 8595568937049 |
| **outer corner (variable ±8°)** | | | | |
| | ○ | **8406_HB** | 2 | 8595057688117 |
| | ● | **8406_FB** | 2 | 8595568937056 |
| **grommet** | | | | |
| | ○ | **8407_HB** | 2 | 8595057688124 |
| | ● | **8407_FB** | 2 | 8595568937063 |
| **partition wall** | | | | |
| | ○ | **PEKE 60_-C** | 20 m | 8595057627079 |
| | more information on pg. 210 | | | |
| **partition wall** | | | | |
| | ○ | **PKS 70/60_XX** | 20 m | 8595057664364 |
| | more information on pg. 211 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# PK 90X55 D HF - halogen-free parapet trunking






montage video PK 90X55 D

MAT PC-ABS | -25 - +90°C | 850°C | A1 - F | 30 sec. | 1 J | 3800 mm² | IP40 | IK07 | HF

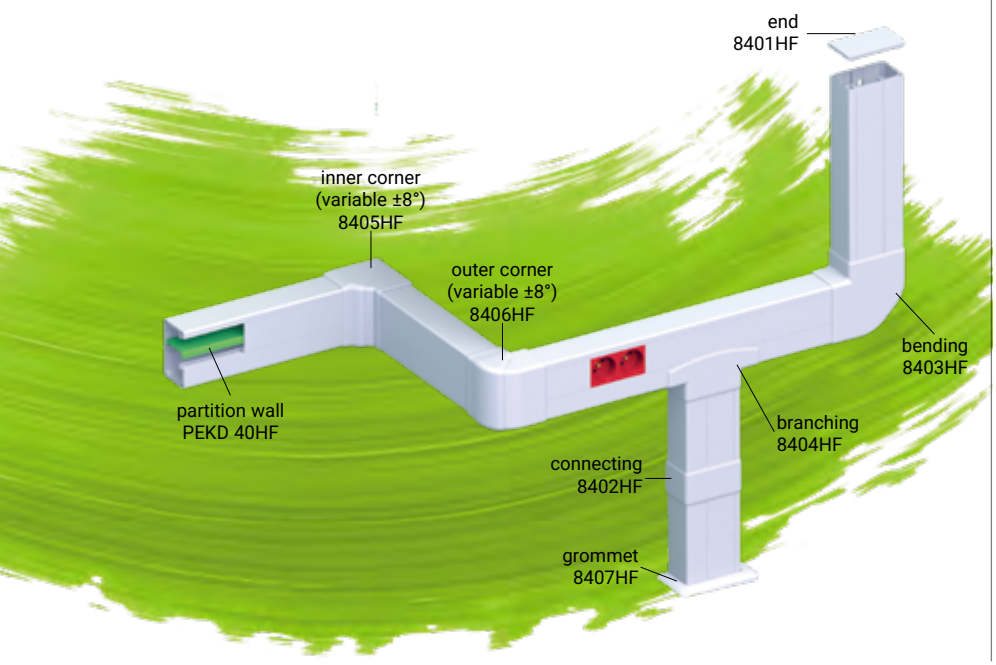
- halogen-free, suitable for environments with a higher concentration of people
- designed for installation of modular devices 45 x 45 or 45 x 22,5 mm
- KOPOS recommends installing QUADRO devices (pg. 203,205), tailor-made for KOPOS products
- the installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric with maximal depth of 42 mm
- maximum number of modular devices placed next to each other is 3 pcs. When installing multiple devices next to each, it is necessary to put about 5 cm wide piece of cover after 3 pieces to fasten them
- installation of modular devices without additional accessories

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **PK 90X55 D HF _HD** | white | 2 | 12 | carton | 8595568925473 | with protective foil |

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8401HF_HB** | 2 | 8595568925480 |
| **connecting** | | | |
|  | **8402HF_HB** | 2 | 8595568925497 |
| **bending** | | | |
|  | **8403HF_HB** | 2 | 8595568925503 |
| **branching** | | | |
|  | **8404HF_HB** | 2 | 8595568925510 |
| **inner corner (variable ±8°)** | | | |
|  | **8405HF_HB** | 2 | 8595568925527 |
| **outer corner (variable ±8°)** | | | |
|  | **8406HF_HB** | 2 | 8595568925534 |
| **grommet** | | | |
|  | **8407HF_HB** | 2 | 8595568925541 |
| **partition wall** | | | |
|  | **PEKD 40HF_-C** | 20 m | 8595057691551 |

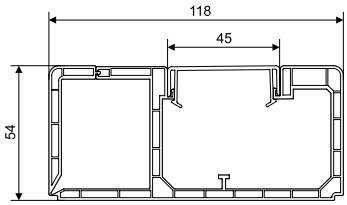
more information on pg. 209




material | temperature resistance | self-extinguishing | IP protection | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection | halogen-free material | impact strength

# PK 120X55 D - parapet trunking



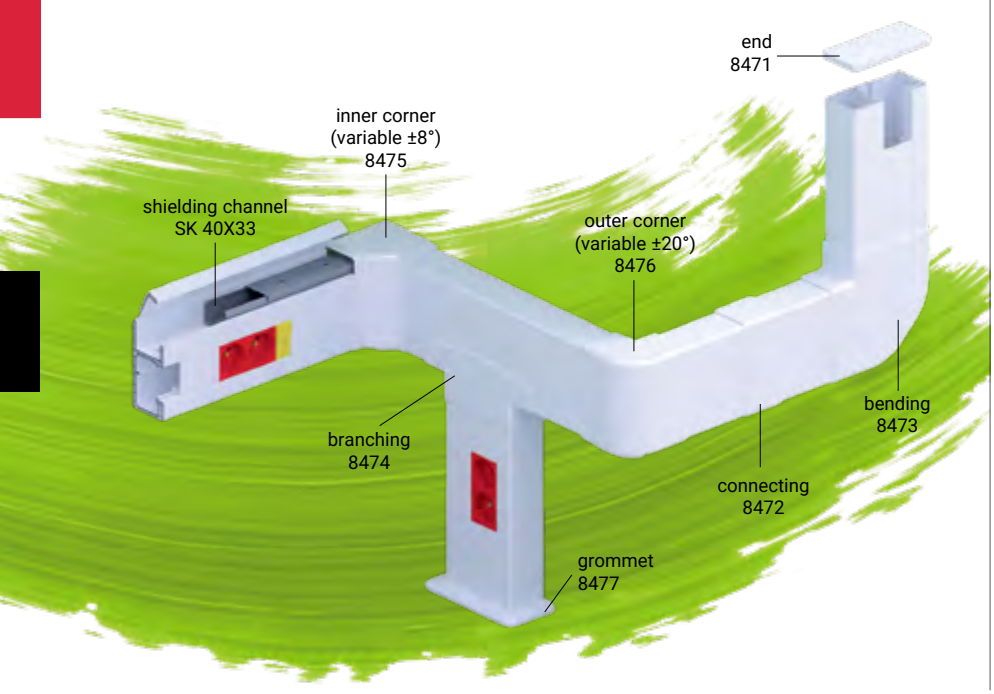



montage video PK 90X55 D

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 1550; 2250 mm² | IP40 | IK07

- designed for installation of modular devices 45 x 45 or 45 x 22,5 mm
- KOPOS recommends installing QUADRO devices (pg. **203-205**), tailor-made for KOPOS products
- the installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric with maximal depth of 42 mm
- the tilting section allows inserting the shielding channel SK 40X20 or SK 40X33, which ensures perfect shielding of data circuits. If shielding and therefore inserting shielding channels is required, parapet trunking must be installed with tilting section up
- maximum number of modular devices placed next to each other is 3 pcs. When installing multiple devices next to each, it is necessary to put about 5 cm wide piece of cover after 3 pieces to fasten them.
- installation of modular devices without additional accessories
- **European Industrial design protection**

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **PK 120X55 D_HD** | ◯ white | 2 | 6 | carton | 8595057650572 | with protective foil |




## Accessories

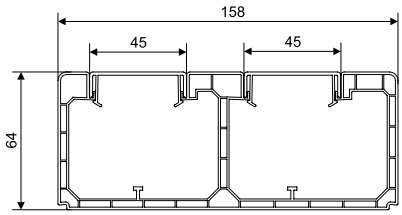
| item | | | EAN |
|---|---|---|---|
| **end** | | | |
| | **8471_HB** | 2 | 8595057650589 |
| **connecting** | | | |
| | **8472_HB** | 2 | 8595057650596 |
| **bending** | | | |
| | **8473_HB** | 2 | 8595057650602 |
| **branching** | | | |
| | **8474_HB** | 2 | 8595057650619 |
| **inner corner (variable ±8°)** | | | |
| | **8475_HB** | 2 | 8595057650626 |
| **outer corner (variable ±20°)** | | | |
| | **8476_HB** | 2 | 8595057650633 |
| **grommet** | | | |
| | **8477_HB** | 2 | 8595057657052 |
| **partition wall** | | | |
| | **PEKE 60_-C** | 20 m | 8595057627079 |
| | more information on pg. **210** | | |
| **partition wall** | | | |
| | **PKS 70/60_XX** | 20 m | 8595057664364 |
| | more information on pg. **211** | | |
| **shielding channel** | | | |
| **SK 40X20_S** | | 12 m | 8595057614840 |
| **SK 40X33_S** | | 12 m | 8595057630291 |

more information on pg. **212**

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# PK 160X65 D - parapet trunking



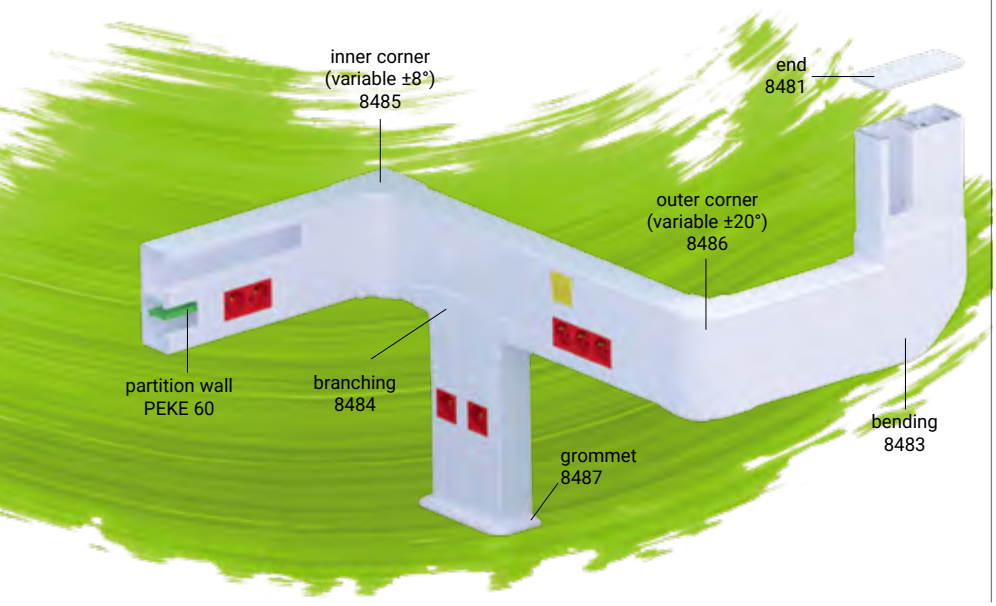



montage video PK 160X65 D

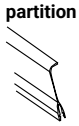
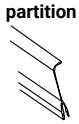
MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 3800; 3600 mm² | IP40 | IK07

- designed for installation of modular devices 45 x 45 or 45 x 22,5 mm
- KOPOS recommends installing QUADRO devices (pg. 203-205), tailor-made for KOPOS products
- the installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric with maximal depth of 52 mm
- to separate the circuits, PEKE 60 or PKS 70/60 can be used
- maximum number of modular devices placed next to each other is 3 pcs. When installing multiple devices next to each, it is necessary to put about 5 cm wide piece of cover after 3 pieces to fasten them.
- installation of modular devices without additional accessories

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **PK 160X65 D_HD** | white | 2 | 6 | carton | 8595057657205 | with protective foil |

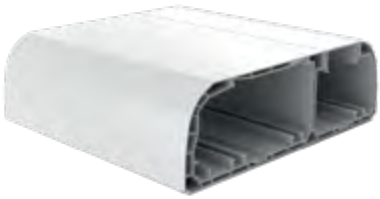


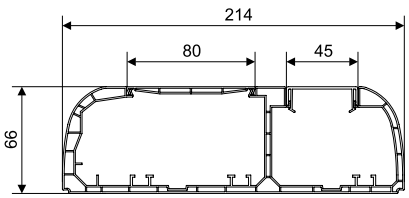

## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8481_HB** | 2 | 8595057657069 |
| **connecting** | | | |
|  | **8482_HB** | 2 | 8595057657076 |
| **bending** | | | |
|  | **8483_HB** | 2 | 8595057657083 |
| **branching** | | | |
|  | **8484_HB** | 2 | 8595057657090 |
| **inner corner (variable ±8°)** | | | |
|  | **8485_HB** | 2 | 8595057657106 |
| **outer corner (variable ±20°)** | | | |
|  | **8486_HB** | 2 | 8595057657113 |
| **grommet** | | | |
|  | **8487_HB** | 2 | 8595057657120 |
| **partition wall** | | | |
|  | **PEKE 60_-C** | 20 m | 8595057627079 |
| | more information on pg. 210 | | |
| **partition wall** | | | |
|  | **PKS 70/60_XX** | 20 m | 8595057664364 |
| | more information on pg. 211 | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | mechanical protection

# PK 210X70 D - parapet trunking





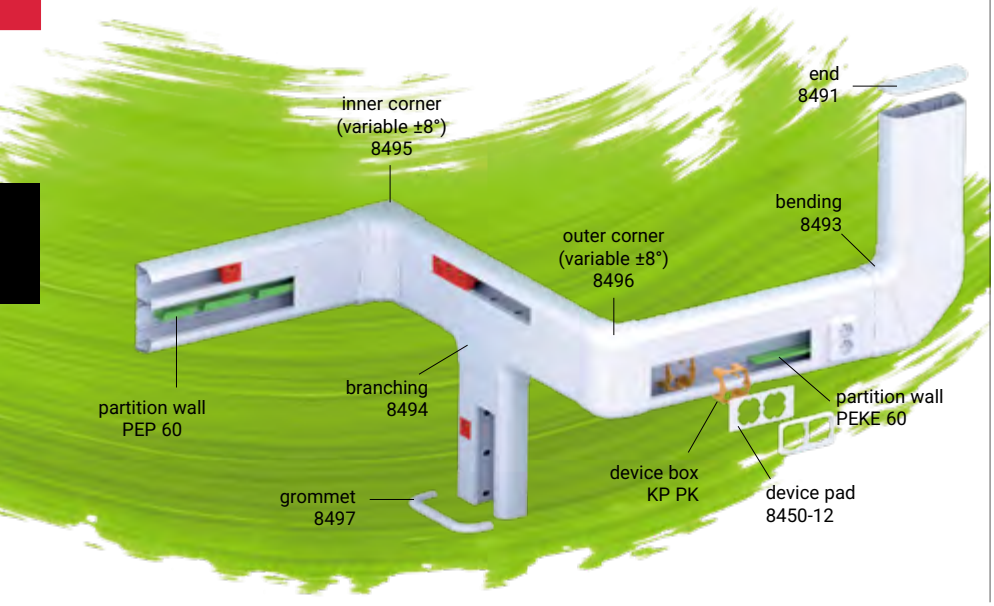

montage video PK 160X65 D

montage video PK 130X65 D

MAT PVC | -5 - +60°C | 850°C | A1 - F | 30 sec. | 1 J | 4400; 3100 mm² | IP40 | IK07

- designed for installation of classic and modular devices 45 x 45 or 45 x 22,5 mm
- KOPOS recommends installing QUADRO devices QUADRO (pg. 203-205), tailor-made for KOPOS products
- the installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric with maximal depth of 54 mm
- its construction allows the insertion of SK 40X... shielding channels (into both chambers) and all kinds of partitions, which effectively divide the interior space
- KP PK device box with 8450 device pads are designed for mounting standard devices and allow the installation of combined frames
- maximum number of modular devices placed next to each other is 3 pcs. When installing multiple devices next to each, it is necessary to put about 5 cm wide piece of cover after 3 pieces to fasten them
- installation of modular devices without additional accessories
- **European Industrial design protection**

| item | | L | | | EAN | note |
|---|---|---|---|---|---|---|
| | | m | m | desc. | | |
| **PK 210X70 D_HD** | white | 2 | 6 | carton | 8595057668683 | with protective foil |




## Accessories

| item | | | EAN |
|---|---|---|---|
| **end** | | | |
|  | **8491_HB** | 2 | 8595057668690 |
| **connecting** | | | |
|  | **8492_HB** | 2 | 8595057668706 |
| **bending** | | | |
|  | **8493_HB** | 1 | 8595057668713 |
| **branching** | | | |
|  | **8494_HB** | 2 | 8595057668720 |
| **inner corner (variable ±8°)** | | | |
|  | **8495_HB** | 2 | 8595057668737 |
| **outer corner (variable ±8°)** | | | |
|  | **8496_HB** | 1 | 8595057668744 |
| **grommet** | | | |
|  | **8497_HB** | 2 | 8595057668751 |
| **partition wall** | | | |
| **PEKE 60_-C** | | 20 m | 8595057627079 |
| **PKS 70/60_XX** | | 20 m | 8595057664364 |
| **PEP 60_HD** | | 32 m | 8595057668768 |
| **PEP 60/K_S** | | 24 m | 8595057668775 |
| more information on pg. 210, 211, 212 | | | |
| **shielding channel** | | | |
| **SK 40X20_S** | | 12 m | 8595057614840 |
| **SK 40X33_S** | | 12 m | 8595057630291 |
| more information on pg. 212 | | | |
| **device box** | | | |
| **KP PK_HB** | | 10 | 8595057629011 |
| more information on pg. 206, 207 | | | |
| **device pad** | | | |
| **8450-11_HB** | | 2 | 8595057646759 |
| **8450-12_HB** | | 2 | 8595057646766 |
| **8450-13_HB** | | 2 | 8595057646773 |
| more information on pg. 208 | | | |

material | temperature resistance | self-extinguishing | IP protection | impact strength | area with a risk of explosion
fire reaction class of underlying material | flaming loop test | package | color | inside area | protective foil
antibacteriality | for mounting a double-socket | mechanical protection

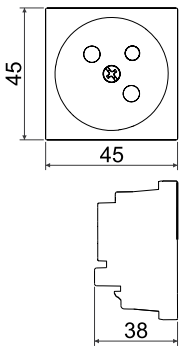
## QP 45X45 - QUADRO socket module with a protective pin



MAT PC-ABS

IP IP20

- for 1.5-2.5 mm² Cu wires, fastening the wire with screws
- rated voltage 250 V AC, rated current 16 A
- recommended tightening torque - 0.6 Nm
- installation by snap-on movement only
- the socket modules can continuously connect, max. is determined by the parapet trunkings or boxes series KOPOBOX®
- the use of the PIN system (with pin) and the SCHUKO system (with spring contacts) sockets should be according to the standards of each particular country




| item | | for trunkings | | EAN |
|---|---|---|---|---|
| **QP 45X45_HB** | white | PK 90X55 D, PK 90X55 D HF, PK 120X55 D, PK 160X65 D, PK 170X65 D, PK 170X65 D HF, PK 210X70 D | 1; 20 | 8595568919175 |
| **QP 45X45_BB** | red | | 1; 20 | 8595568919168 |
| **QP 45X45_FB** | black | | 1; 20 | 8595568940926 |

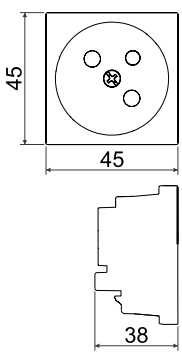
## QP 45X45 C - QUADRO socket module with a protective pin and screens



MAT PC-ABS

IP IP20

- for 1.5-2.5 mm² Cu wires, fastening the wire with screws
- rated voltage 250 V AC, rated current 16 A
- recommended tightening torque - 0.6 Nm
- installation by snap-on movement only
- shutters prevent foreign objects from entering the socket
- the socket modules can continuously connect, max. is determined by the parapet trunkings or boxes series KOPOBOX®
- the use of the PIN system (with pin) and the SCHUKO system (with spring contacts) sockets should be according to the standards of each particular country




| item | | for trunkings | | EAN |
|---|---|---|---|---|
| **QP 45X45 C_HB** | white | PK 90X55 D, PK 90X55 D HF, PK 120X55 D, PK 160X65 D, PK 170X65 D, PK 170X65 D HF, PK 210X70 D | 1; 20 | 8595568919199 |
| **QP 45X45 C_BB** | red | | 1; 20 | 8595568919182 |
| **QP 45X45 C_FB** | black | | 1; 20 | 8595568940919 |

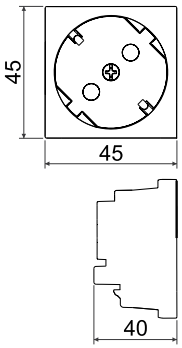
## QS 45X45 - QUADRO socket module with protective contacts (SCHUKO)



MAT PC-ABS

IP IP20

- for 1.5-2.5 mm² Cu wires, fastening the wire with screws
- rated voltage 250 V AC, rated current 16 A
- recommended tightening torque - 0.6 Nm
- installation by snap-on movement only
- the socket modules can continuously connect, max. is determined by the parapet trunkings or boxes series KOPOBOX®
- the use of the PIN system (with pin) and the SCHUKO system (with spring contacts) sockets should be according to the standards of each particular country




| item | | for channely | | EAN |
|---|---|---|---|---|
| **QS 45X45_HB** | white | PK 90X55 D, PK 90X55 D HF, PK 120X55 D, PK 160X65 D, PK 170X65 D, PK 170X65 D HF, PK 210X70 D | 1; 20 | 8595568925558 |
| **QS 45X45_BB** | red | | 1; 20 | 8595568925565 |
| **QS 45X45_FB** | black | | 1; 20 | 8595568940940 |

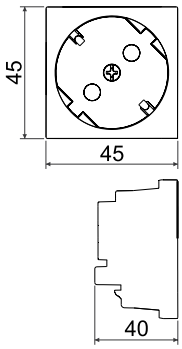
## QS 45X45 C - QUADRO socket module with protective contacts (SCHUKO) and screens



MAT PC-ABS

IP IP20

- for 1.5-2.5 mm² Cu wires, fastening the wire with screws
- rated voltage 250 V AC, rated current 16 A
- recommended tightening torque - 0.6 Nm
- installation by snap-on movement only
- shutters prevent foreign objects from entering the socket
- the socket modules can continuously connect, max. is determined by the parapet trunkings or boxes series KOPOBOX®
- the use of the PIN system (with pin) and the SCHUKO system (with spring contacts) sockets should be according to the standards of each particular country




| item | | for channely | | EAN |
|---|---|---|---|---|
| **QS 45X45 C_HB** | white | PK 90X55 D, PK 90X55 D HF, PK 120X55 D, PK 160X65 D, PK 170X65 D, PK 170X65 D HF, PK 210X70 D | 1; 20 | 8595568919502 |
| **QS 45X45 C_BB** | red | | 1; 20 | 8595568919519 |
| **QS 45X45 C_FB** | black | | 1; 20 | 8595568940933 |

## QD 45X22.5 - modular sockets QUADRO - data




MAT PC-ABS

IP IP20

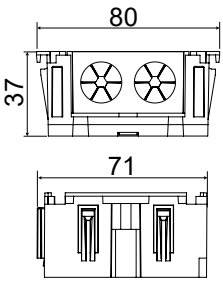
- instalation by click only

| | item | desc. | use | | | EAN |
|---|---|---|---|---|---|---|
|  | **QD 45X22.5–COVER_HB** | Dimensions: 45 x 22,5 x 17 mm<br>cover | for trunkings:<br>PK 90X55 D<br>PK 90X55 D HF<br>PK 120X55 D<br>PK 160X65 D<br>PK 170X65 D<br>PK 170X65 D HF<br>PK 210X70 D<br><br>device carriers:<br>PNQ LP 35<br>PNQ 20X10<br>PNQ 32X15<br>PNQ 40X20 | ○ white | 1; 20 | 8595568927231 |
|  | **QD 45X22.5-HOLDER_HB**<br><br>**QD 45X22.5-HOLDER_FB** | Dimensions: 45 x 22,5 x 17 mm<br><br>modular sockets | | ○ white<br><br>● black | 1; 20 | 8595568932051<br><br>8595568942937 |
|  | **QD 45X22.5–RJ-45_HB**<br><br>**QD 45X22.5-RJ-45_FB** | Dimensions: 45 x 22,5 x 36 mm<br><br>Cat5E | | ○ white<br><br>● black | 1; 20 | 8595568927279<br><br>8595568942944 |
|  | **QD 45X22.5-RJ45/6A_HB**<br><br>**QD 45X22.5-RJ45/6A_FB** | Dimensions: 45 x 22,5 x 30 mm<br><br>Cat 6A | | ○ white<br><br>● black | 1; 20 | 8595568942975<br><br>8595568942968 |
|  | **QD 45X22.5-RJ45/6_HB**<br><br>**QD 45X22.5-RJ45/6_FB** | Dimensions: 45 x 22,5 x 35 mm<br><br>Cat6 | | ○ white<br><br>● black | 1; 20 | 8595568931542<br><br>8595568942951 |
|  | **QD 45X22.5–HDMI_HB** | Dimensions: 45 x 22,5 x 36 mm<br>90°Connection<br>Not suitable for KOPOBOX®.<br>HDMI | | ○ white | 1; 20 | 8595568927248 |
|  | **QD 45X22.5–USB_HB** | Dimensions: 45 x 22,5 x 36 mm<br>90°Connection<br>Not suitable for KOPOBOX®.<br><br>USB-A | | ○ white | 1; 20 | 8595568927255 |
|  | **QD 45X22.5–USB_C_HB** | Dimensions: 45 x 22,5 x 36 mm<br>90°Connection<br>Not suitable for KOPOBOX®.<br><br>USB-C | | ○ white | 1; 20 | 8595568940957 |

MAT material
IP protection
color
package

## KP 80 PK - device box for channels PK





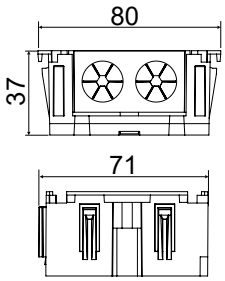

MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- enclosed box with removable partitions
- box connections allow multiple devices to be mounted in a common frame
- it is possible to insert a shielding channel SK 40X20

| item | for trunkings | | | EAN |
|---|---|---|---|---|
| **KP 80 PK_HB** | PK 110X65 D, PK 130X65 D, PK 170X65 D | ○ white | 2; 132 | 8595568930224 |

## KP 80 PK HF - device box for halogen-free channels PK



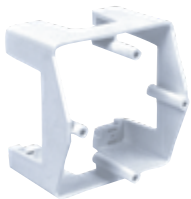


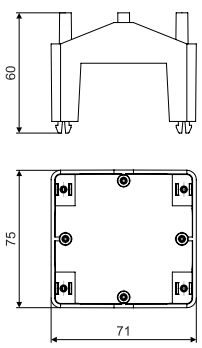

MAT | PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71 | HF

- enclosed box with removable partitions
- box connections allow multiple devices to be mounted in a common frame
- it is possible to insert a shielding channel SK 40X20

| item | for trunkings | | | EAN |
|---|---|---|---|---|
| **KP 80 PK HF_HB** | PK 110X65 D HF, PK 170X65 D HF | ○ white | 2; 132 | 8595568934819 |

## KP PK - device box for trunkings PK





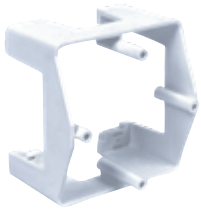

MAT | PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

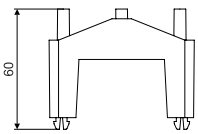
- allows inserting a shielding channel SK 40X...
- after removing the members for device screws (in the vertical axis), you can mount the double-socket

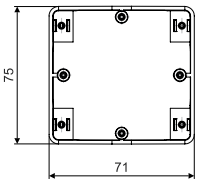
| item | for trunkings | | | EAN |
|---|---|---|---|---|
| **KP PK_HB** | PK 110X65 D, PK 130X65 D, PK 170X65 D, PK 210X70 D | ○ white | 10; 80 | 8595057629011 |

material | temperature resistance | self-extinguishing | halogen-free material | spacing
fire reaction class of underlying material | flaming loop test | package | color | for mounting a double-socket

## KP PK HF - device box for halogen-free channels PK





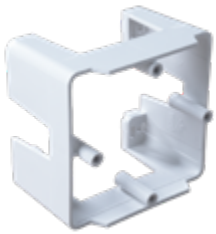

MAT | | | | | | HF

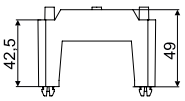
PC-ABS | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

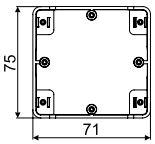
- allows inserting a shielding channel SK 40X...
- after removing the members for device screws (in the vertical axis), you can mount the double-socket

| item | for trunkings | | | EAN |
|---|---|---|---|---|
| **KP PK HF_HB** | PK 110X65 D, PK 130X65 D, PK 170X65 D, PK 210X70 D | ○ white | 10; 80 | 8595568919458 |

## KP EKE - device box for trunkings EKE





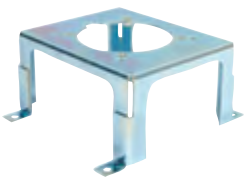

MAT | | | | | | |

PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- allows inserting a shielding channel SK 40X...
- after removing the members for device screws (in the vertical axis), you can mount the double-socket
- possibility of securing the box against displacement in the trunking with a screw

| item | | | EAN |
|---|---|---|---|
| **KP EKE_HB** | ○ white | 10; 70 | 8595057621732 |

## PN EKE - device carrier for trunkings EKE



MAT |

steel

- device carrier for installing sockets 400 V (only 16 A - direct)
- the pitch for socket mounting is 50 and 60 mm
- ZNCR finish
- suitable eg. the sockets Bals, SEZ etc.



| item | for trunkings | | EAN |
|---|---|---|---|
| **PN EKE_S** | EKE 140X60, EKE 180X60 | 1; 24 | 8595057658028 |

material | temperature resistance | self-extinguishing | halogen-free material | spacing
fire reaction class of underlying material | flaming loop test | package | color | for mounting a double-socket
allows installing wall socket 400 V

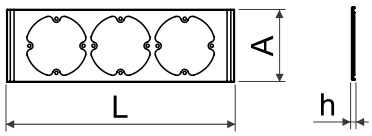
## 8450... - device pad for trunkings PK



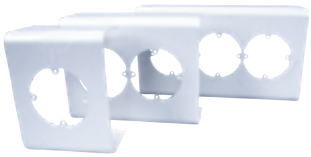
MAT PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- to cover the mounting space of parapet trunking PK 210X70

| item | L | A | h | for trunkings | | | EAN |
|---|---|---|---|---|---|---|---|
| | mm | mm | mm | | | | |
| **8450-11_HB** | 110 | 80 | 4 | PK 210X70 D | ○ white | 2; 10; 730 | 8595057646759 |
| **8450-12_HB** | 181 | 80 | 4 | | | 2; 10; 440 | 8595057646766 |
| **8450-13_HB** | 253 | 80 | 4 | | | 2; 10; 300 | 8595057646773 |



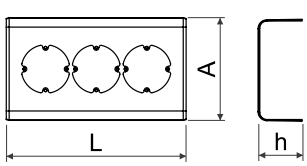

## 8550...; 8560... - device pad for trunkings EKE



MAT PVC | -5 - +60°C | 850°C | A1 - D | 30 sec. | 71

- to cover the mounting space of EKE trunkings
- the 8560-11 single pad allows mounting the double-socket after removing two fastening eyelets

| item | L | A | h | for trunkings | | | EAN |
|---|---|---|---|---|---|---|---|
| | mm | mm | mm | | | | |
| **8550-11_HB** | 110 | 102 | 62 | EKE 100X60 | ○ white | 2; 52 | 8595057646667 |
| **8550-12_HB** | 181 | 102 | 62 | | | 2; 78 | 8595057646674 |
| **8550-13_HB** | 252 | 102 | 62 | | | 2; 22 | 8595057646681 |
| **8560-11_HB** | 110 | 144 | 62 | EKE 140X60 | | 2; 44 | 8595057646698 |
| **8560-12_HB** | 181 | 144 | 62 | | | 2; 56 | 8595057646704 |
| **8560-13_HB** | 252 | 144 | 62 | | | 2; 34 | 8595057646711 |




material | temperature resistance | self-extinguishing | for mounting a double-socket | spacing
fire reaction class of underlying material | flaming loop test | package | color

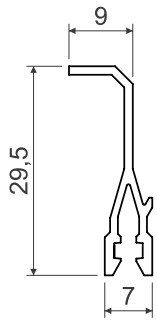
## PEKD 40 - partition wall



MAT PVC | 30 sec.

- it uses to divide the internal space of the trunkings and thus to improve the handling of the cables and their clarity

| item | for trunkings | | L m | L m | EAN |
|---|---|---|---|---|---|
| **PEKD 40_-C** | LH 60X40, EKD 80X40, EKD 100X40, EKD 120X40 | ○ white | 2 | 120 | 8595057690448 |



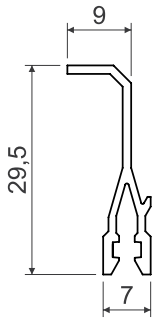

## PEKD 40HF - halogen-free partition wall



MAT PC-ABS | 30 sec. | HF

- it uses to divide the internal space of the halogen-free trunkings and thus to improve the handling of the cables and their clarity

| item | for trunkings | | L m | L m | EAN |
|---|---|---|---|---|---|
| **PEKD 40HF_-C** | LH 60X40HF, EKD 80X40HF, EKD 100X40HF, PK 90X55 D HF | ○ white | 2 | 20 | 8595057691551 |



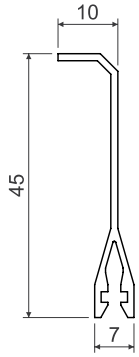
## PEKE 60 - partition wall



MAT PVC | 30 sec.

- it uses to divide the internal space of the trunkings and thus to improve the handling of the cables and their clarity

| item | for trunkings | | L m | m | EAN |
|---|---|---|---|---|---|
| **PEKE 60_-C** | EKE 60X60, EKE 100X60, EKE 140X60, EKE 180X60, PK 110X65 D, PK 130X65 D, PK 170X65 D, PK 90X55 D, PK 120X55 D, PK 160X65 D, PK 210X70 D | ◯ white | 2 | 20 | 8595057627079 |



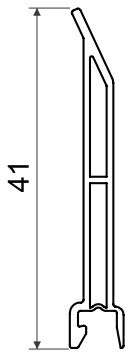

## PEKE 60 HF - halogen-free partition wall



MAT PC-ABS | 30 sec. | HF

- it uses to divide the internal space of the halogen-free trunkings and thus to improve the handling of the cables and their clarity

| item | for trunkings | | L m | m | EAN |
|---|---|---|---|---|---|
| **PEKE 60 HF_HD** | PK 110X65 D HF, PK 170X65 D HF | ◯ white | 1 | 10 | 8595568934826 |




material
self-extinguishing
area with a risk of explosion
halogen-free material
color
package

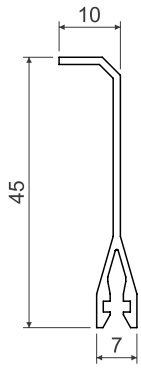
## **PKS 70/60** - partition wall



MAT
PVC + AL foil
30 sec.

- thanks to a thin layer of metal foil, it has similar characteristics as a metal partition, but it is much lighter
- individual partition walls should be connected using PLSK connecting wire

| item | for trunkings | | L | | EAN |
|---|---|---|---|---|---|
| | | | m | m | |
| **PKS 70/60_XX** | EKE 60X60, EKE 100X60, EKE 140X60, EKE 180X60, PK 110X65 D,PK 130X65 D, PK 170X65 D, PK 90X55 D, PK 120X55 D, PK 160X65 D, PK 210X70 D | ○ white | 2 | 20 | 8595057664364 |



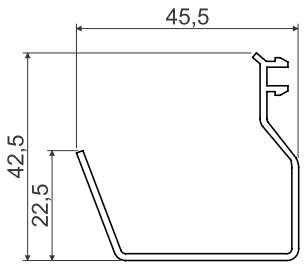

## **PEP 60** - plastic partition wall



MAT
PVC
30 sec.

- it uses to divide the internal space of the trunkings and thus to improve the handling of the cables and their clarity

| item | for trunkings | | L | | EAN |
|---|---|---|---|---|---|
| | | | m | m | |
| **PEP 60_HD** | EKE 100X60, EKE 140X60, EKE 180X60, PK 110X65 D, PK 130X65 D, PK 170X65 D, PK 210X70 D | ○ white | 2 | 32 | 8595057668768 |



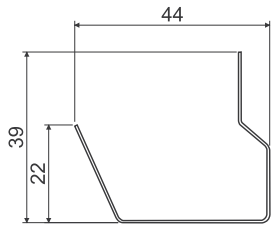
## PEP 60/K - metal partition wall



MAT

ZN

- it is fixed by PSK 1
- it uses to divide the internal space of the trunkings and thus to improve the handling of the cables and their clarity
- individual partition walls should be connected using PLSK connecting wire
- use is also possible in systems with maintained functionality in fire – see catalogue Cable management system / Fire resistant systems




| item | for trunkings | L | | EAN |
|---|---|---|---|---|
| | | m | m | |
| **PEP 60/K_S** | EKE 100X60, EKE 140X60, EKE 180X60, PK 110X65 D, PK 130X65 D, PK 170X65 D, PK 210X70 D | 2 | 24 | 8595057668775 |

## SK 40X.. - shielding channel



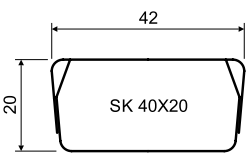
MAT

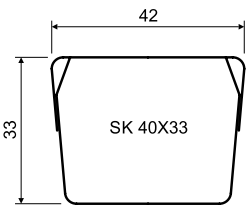
ZN

SK 40X20 - 770 mm²

SK 40X33 - 1200 mm²

- they are used to separate individual types of lines in terms of electromagnetic compatibility
- it is composed of two parts, both made of 0.55 mm hot-dip galvanized sheet
- can be mounted in EKE and PK trunkings. When mounting SK 40X33 trunking, you cannot use devices with a greater mounting depth
- sections intended for fixing PSK 1 are 250 mm apart on trunking
- an individual pieces mounted by PLSK conective cable



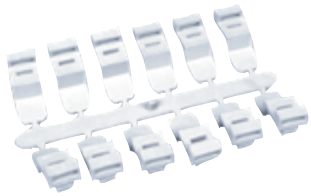

| item | for trunkings | L | | EAN |
|---|---|---|---|---|
| | | m | m | |
| **SK 40X20_S** | EKE 100X60, EKE 140X60, EKE 180X60, PK 110X65 D, PK 130X65 D, PK 170X65 D, PK 120X55 D, PK 210X70 D | 2 | 12 | 8595057614840 |
| **SK 40X33_S** | | 2 | 12 | 8595057630291 |

MAT material

inside area (mm²)

package

## **PSK 1** - clamp for shielding channel



MAT PVC | -5 - +60°C | A1 - F

- it uses to secure the shielding channel to the EKE, PK and a partition PEP 60/K
- to install, simply snap into the opposite holes in the shielding channel sides
- it can be used to attach wires together with a fixing tape with a width of no more than 8 mm
- 1 pc PSK 1 (12 pcs of clamps) are used for fixing 1 pc of shielding channel SK (2 m)

| item | | | EAN |
|---|---|---|---|
| **PSK 1_HB** | white | 5; 320 | 8595057629035 |





## **PLSK** - interconnecting cable of shielding channel





- it is used to connect the metal pieces of the SK 40X ... and PEP 60/K, PKS 70/60 partitions
- conductor diameter is 1.5 mm²
- screw material is ZNCR

| item | L | | EAN |
|---|---|---|---|
| | mm | | |
| **PLSK_XX** | 110 | 10 | 8595057627345 |

material
fire reaction class of underlying material
temperature resistance
area with a risk of explosion
color
package

## SP... - double-sided self adhesive tape



- designed for mounting on the foundation side of the trunkings
- the mounting space for the trunking should be sufficiently smooth and degreased

| item | | winding | | EAN |
|---|---|---|---|---|
| | mm | m | | |
| **SP 12X1/10_XX** | 12 x 1 | 10 | 1 | 8595057620155 |
| **SP 15X1/10_XX** | 15 x 1 | 10 | 1 | 8595057620162 |

## 5822 DER - plastic support rail



MAT PVC | -5 - +60°C | A1 - D | 30 sec.

- designed for mounting standard clips (pg. 280) when mounting cables next to each other in a row.
- in the central axis of the rail, holes of 4.3 x 15 mm are cut to fasten the surface material

| item | | L | | EAN |
|---|---|---|---|---|
| | mm | m | m | |
| **5822 DER_HA** | 20 x 10 | 3 | 90 | 8595057605640 |

## 5820/.. - metal support rail

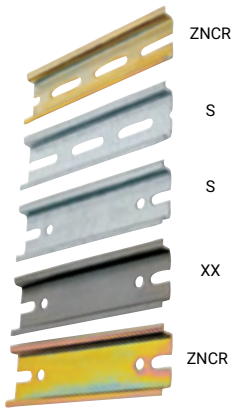


MAT steel | 0,7 mm

- designed for mounting standard clips (pg. 280) when mounting cables next to each other in a row
- in the central axis of the perforated rail, holes of 4.3 x 15 mm are cut to fasten the surface material
- can be used to fasten PVC clamps of steel rigid EN pipes (pg. 231)

| item | | L | perforation | material | | EAN |
|---|---|---|---|---|---|---|
| | mm | m | | | m | |
| **5820/20_S** | 20 x 10 | 3 | non perforated | Sendzimir | 75 | 8595057605657 |
| **5820/21_S** | | 3 | perforated | | 75 | 8595057605664 |
| **5820/30_XX** | | 3 | non perforated | withnout surface finish | 75 | 8595057605671 |
| **5820/31_XX** | | 3 | perforated | | 75 | 8595057605688 |

# **TS35** - metal support rail




MAT steel | 1 mm

- designed for attaching devices (circuit breakers, contactors, terminals, etc.) in distributors and device boards
- at both ends there are holes and grooves for attaching to the pad

**Example:** TS35 DZN-CR 0.2: perforated rail, ZNCR surface, length 0,2

| item | desc. | surface finish | | L |
|---|---|---|---|---|
| | | | mm | m |
| **TS35_XX** | with cleaving (5,2 x 25 mm) | withnout surface finish | 35 x 7,5 | according to specification |
| **TS35 ZN_S** | | Sendzimir | | |
| **TS35 ZN-CR_ZNCR** | | ZNCR | | |
| **TS35 P_XX** | non perforated | withnout surface finish | | 3 |
| **TS35 ZNP_S** | | Sendzimir | | |
| **TS35 D_XX** | perforated (ø 5,2 mm) | withnout surface finish | 35 x 7,5 | according to specification |
| **TS35 DZN_S** | | Sendzimir | | |
| **TS35 DZN-CR_ZNCR** | | ZNCR | | |
| **TS35 DP_XX** | | withnout surface finish | | 3 |
| **TS35 DZNP_S** | | Sendzimir | | |

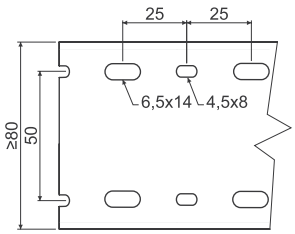
## RK ..X.. - distribution trunking



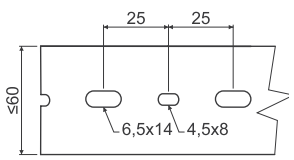
MAT | PVC | -20 - +60 | A1 - F | 30 sec.

- optimal closing, fixed cover
- easy installation and removal
- trunkings are supplied with cover
- rib can be easily breaked out at the bottom of the trunking
- for construction height 60 mm and above there are shaped ribs
- rib width 5,5 mm, cut-out width 4,5 mm

| item | | w x h (mm) | w x h (mm) | L (m) | (m) | EAN | number of conductors when 50 % of the trunking capacity is filled: 0,75 mm² Ø 2,8 mm | 1 mm² Ø 2,9 mm | 1,5 mm² Ø 3,2 mm |
|---|---|---|---|---|---|---|---|---|---|
| **RK 30X30_LD** | grey | 30 x 30 | 27 x 27 | 2 | 64 | 8595057623132 | 53 | 50 | 41 |
| **RK 30X40_LD** | | 30 x 40 | 27 x 37 | 2 | 60 | 8595057623149 | 105 | 98 | 80 |
| **RK 40X60_LD** | | 40 x 60 | 36 x 56 | 2 | 48 | 8595057623187 | 162 | 151 | 124 |
| **RK 60X60_LD** | | 60 x 60 | 56 x 56 | 2 | 36 | 8595057623194 | 245 | 229 | 188 |
| **RK 80X60_LD** | | 80 x 60 | 76 x 56 | 2 | 32 | 8595057623200 | 333 | 310 | 255 |
| **RK 100X60_LD** | | 100 x 60 | 96 x 56 | 2 | 22 | 8595057623217 | 417 | 389 | 319 |
| **RK 40X80_LD** | | 40 x 80 | 36 x 76 | 2 | 40 | 8595057623248 | 231 | 216 | 177 |
| **RK 60X80_LD** | | 60 x 80 | 56 x 76 | 2 | 36 | 8595057623255 | 350 | 326 | 268 |




The perforation in two rows above the width of 80 mm.




The perforation is in one row up to the width of 60 mm.

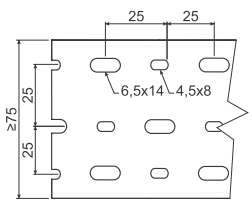
## RK ..X.. DIN - distribution trunking



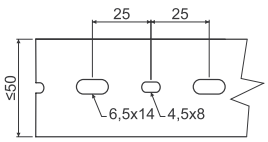
MAT | PVC | -20 - +60°C | A1 - F | 30 sec.

- optimal closing, fixed cover
- easy installation and removal
- trunkings are supplied with cover
- rib can be easily breaked out at the bottom of the trunking
- for construction height 60 mm and above there are shaped ribs
- rib width 6 mm, cut-out width 4 mm

| item | | w x h (mm) | w x h (mm) | L (m) | (m) | EAN | number of conductors when 50 % of the trunking capacity is filled: 0,75 mm² Ø 2,8 mm | 1 mm² Ø 2,9 mm | 1,5 mm² Ø 3,2 mm |
|---|---|---|---|---|---|---|---|---|---|
| **RK 25X25 DIN_LD** | grey | 25 x 25 | 20 x 20 | 2 | 48 | 8595057623606 | 32 | 30 | 25 |
| **RK 50X50 DIN_LD** | | 50 x 50 | 45 x 45 | 2 | 42 | 8595057623668 | 165 | 153 | 126 |
| **RK 37.5X75 DIN_LD** | | 37,5 x 75 | 33 x 70 | 2 | 24 | 8595057623712 | 188 | 175 | 144 |
| **RK 50X75 DIN_LD** | | 50 x 75 | 45 x 70 | 2 | 28 | 8595057623729 | 256 | 239 | 196 |
| **RK 75X75 DIN_LD** | | 75 x 75 | 70 x 70 | 2 | 24 | 8595057623736 | 398 | 371 | 305 |




DIN perforation in three rows above the width of 75 mm..




DIN perforation in one row up to the width of 50 mm.

material | temperature resistance | external dimensions - height, width | color
fire reaction class of underlying material | self-extinguishing | inner dimensions - height, width | package

## Accessories to distribution trunkings

| | | | L | ⌀ | | | EAN |
|---|---|---|---|---|---|---|---|
| | | | mm | mm | pcs | m | |
|  | **flexible conductor trunking**<br>(installation by means of bonding tape) | RK-OVK20_LA<br>RK-OVK30_LB<br>RK-OVK40_LB | 500<br>500<br>500 | 20<br>30<br>40 | 60<br>36<br>24 | | 8595057623811<br>8595057623828<br>8595057623835 |
|  | **spiral tube** | RK-ST6_H25<br>RK-ST12_H20<br>RK-ST22_H25 | | 4<br>9<br>16 | | 25<br>20<br>25 | 8595057623842<br>8595057623859<br>8595057623866 |
|  | **fixing rivers**<br>(to fix the canal to the underlying material) | RK-PN6_FA | | 6 | 4000 | | 8595057623927 |

⌀ outside diameter

package

## Wiring trunkings - approximate quantity of inserted cables

| orientation cable diameter (mm) | 6 | 7 | 8 | 8,5 | 9 | 9,5 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **LV 11X10** | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **LV 18X13** | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| **LV 24X22** | 3 | 2 | 2 | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| **LV 40X15** | 6 | 5 | 4 | 3 | 2 | 2 | 2 | 1 | 1 | - | - | - | - |
| **LH 15X10** | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - |
| **LHD 17X17** | 2 | 1 | 1 | 1 | 1 | - | - | - | - | - | - | - | - |
| **LHD 20X10 (HF)** | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - |
| **LHD 20X20 (HF)** | 3 | 3 | 2 | 2 | 1 | 1 | - | - | - | - | - | - | - |
| **LHD 25X15** | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | - | - | - | - | - |
| **LHD 25X20** | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | - | - | - | - | - |
| **LHD 30X25** | 6 | 5 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| **LHD 32X15** | 4 | 3 | 2 | 2 | 2 | 1 | 1 | 1 | - | - | - | - | - |
| **LHD 40X20 (HF)** | 6 | 5 | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | - |
| **LHD 40X40 (HF)** | 14 | 10 | 8 | 8 | 6 | 6 | 5 | 5 | 3 | 2 | 2 | 2 | 2 |
| **LHD 50X20** | 7 | 6 | 5 | 4 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | - |
| **LHD 50X20/1** | 7 | 6 | 5 | 4 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | - |
| **LHD 50X20/2** | 7 | 6 | 5 | 4 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | - | - |
| **LH 60X40 (HF)** | 24 | 18 | 16 | 14 | 12 | 11 | 9 | 7 | 6 | 4 | 3 | 3 | 3 |
| **LZ 15X12** | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| **LZK 15X12** | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| **LP 80X25** | 16 | 14 | 10 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 3 | 2 | 2 |
| **LPK 80X25** | 16 | 14 | 10 | 9 | 8 | 7 | 7 | 6 | 5 | 4 | 3 | 2 | 2 |
| **LP 35** | 5 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 1 | - | - | - | - |
| **LR 30** | 7 | 5 | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 1 | 1 | 1 |
| **LO 35** | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| **LO 50** | 5 | 2 | 2 | - | - | - | - | - | - | - | - | - | - |
| **LO 75** | 11 | 7 | 6 | 5 | 4 | 4 | 3 | 2 | 2 | - | - | - | - |
| **LE 40** | 8 | 6 | 5 | 4 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | - | - |
| **LE 60** | 10 | 8 | 7 | 5 | 4 | 3 | 3 | 2 | 2 | 2 | - | - | - |
| **LE 80** | 12 | 10 | 8 | 6 | 4 | 4 | 4 | 3 | 3 | 2 | - | - | - |
| **LE 100** | 14 | 11 | 10 | 10 | 8 | 8 | 6 | 6 | 3 | 3 | - | - | - |
| **EKD 80X40 (HF)** | 28 | 20 | 14 | 12 | 12 | 10 | 10 | 8 | 6 | 5 | 4 | 4 | 4 |
| **EKD 100X40 (HF)** | 36 | 24 | 18 | 16 | 16 | 14 | 14 | 12 | 8 | 7 | 6 | 5 | 5 |
| **EKD 120X40** | 44 | 29 | 20 | 18 | 18 | 16 | 16 | 14 | 10 | 8 | 7 | 6 | 6 |
| **EKE 60X60** | 31 | 23 | 16 | 13 | 11 | 11 | 9 | 7 | 7 | 6 | 6 | 5 | 5 |
| **EKE 100X60** | 55 | 40 | 30 | 22 | 22 | 20 | 18 | 15 | 13 | 13 | 10 | 8 | 8 |
| **EKE 140X60** | 79 | 60 | 45 | 40 | 36 | 34 | 28 | 22 | 20 | 18 | 13 | 12 | 12 |
| **EKE 180X60** | 103 | 78 | 59 | 46 | 43 | 40 | 40 | 30 | 27 | 25 | 17 | 17 | 15 |
| **PK 110X65 D (HF)** | 60 | 45 | 36 | 30 | 30 | 25 | 22 | 19 | 15 | 13 | 12 | 9 | 8 |
| **PK 130X65 D** | 74 | 52 | 45 | 38 | 35 | 28 | 28 | 25 | 18 | 18 | 15 | 12 | 10 |
| **PK 170X65 D (HF)** | 93 | 74 | 60 | 55 | 48 | 42 | 37 | 34 | 30 | 22 | 20 | 15 | 12 |
| **PK 90X55 D (HF)** | 44 | 30 | 25 | 22 | 19 | 15 | 15 | 13 | 9 | 8 | 8 | 6 | 6 |
| **PK 120X55 D** | 57 | 41 | 31 | 30 | 28 | 24 | 20 | 18 | 13 | 12 | 12 | 10 | 8 |
| **PK 160X65 D** | 93 | 60 | 56 | 48 | 45 | 40 | 38 | 31 | 22 | 21 | 20 | 15 | 13 |
| **PK 210X70 D** | 95 | 74 | 60 | 55 | 48 | 42 | 37 | 34 | 30 | 22 | 20 | 15 | 12 |
| **SK 40X22** | 10 | 8 | 6 | 6 | 4 | 4 | 3 | 2 | 2 | 1 | 1 | 1 | 1 |
| **SK 40X33** | 16 | 10 | 8 | 8 | 6 | 6 | 4 | 4 | 3 | 2 | 1 | 1 | 1 |

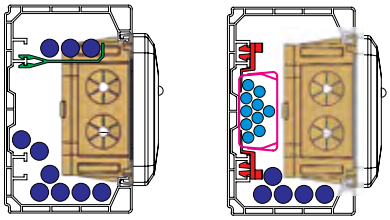
The chart counts with 60 % usage of inner trunking cross-section.

# Parapet trunkings - examples of trunking usability

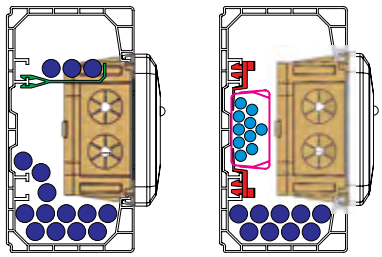
Examples of trunking usability in combination with accessories. The examples do not represent maximum capacity.

| | Examples with shielding channel | | Examples with partition | |
|---|---|---|---|---|
| | Ø cable 6 mm (data) | Ø cable 9,5 mm (power) | Ø cable 6 mm (data) | Ø cable 9,5 mm (power) |
| **PK 90X55 D (HF)** | - | - | 0 | 12 |
| **PK 120X55 D** | 16 | 6 | - | - |
| **PK 160X65 D** | - | - | 24 | 11 |
| **PK 110X65 D (HF)** | 10 | 5 | 0 | 10 |
| **PK 130X65 D** | 10 | 9 | 0 | 15 |
| **PK 170X65 D (HF)** | 10 | 9 | 0 | 14 |
| **PK 210X70 D** | 16 | 17 | 0 | 22 |

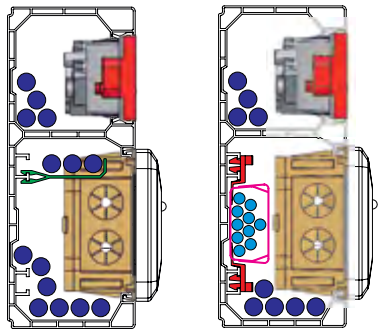
**PK 110X65 D (HF)**



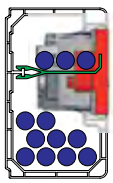
**PK 130X65 D**



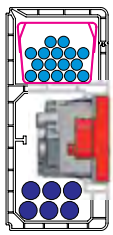
**PK 170X65 D (HF)**



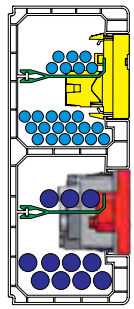
**PK 90X55 D (HF)**



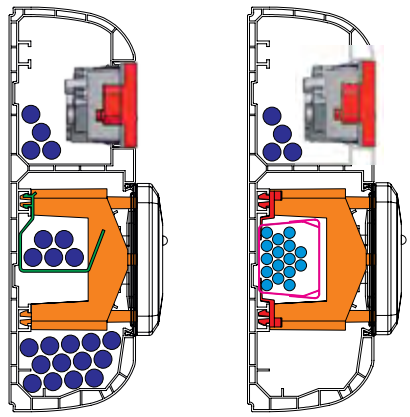
**PK 120X55 D**



**PK 160X65 D**



**PK 210X70 D**



**Legend**

| | |
|---|---|
| | power cable Ø 9,5 mm |
| | data cable Ø 6 mm |
| | shielding channel (SK 40X33, SK 40X20) |
| | clamp for shielding channel PSK 1 |
| | device box KP PK |
| | device box KP 80 PK |
| | outer corners (PEP 60, PEKE 60) |
| | data socket module QUADRO |
| | power socket module QUADRO |





# WIRING PIPES AND CABLE PROTECTORS


PVC WIRING PIPES ..... 225

HALOGEN-FREE WIRING PIPES ..... 234

CABLE PROTECTORS ..... 244

WIRING STEEL PIPES ..... 254

DRAINAGE PIPES ..... 268

# WIRING PIPES AND CABLE PROTECTORS

The pipes and accessories are made in compliance with ČSN EN 61386-1 ed. 2, specifications and approved documentation.

The PVC pipes and accessories passed the test of resistance against spread of flame in compliance with ČSN EN 61386-1 ed. 2. According to ČSN 33 2312 ed. 2, its use is possible in materials with fire reaction class A1 - F in accordance with ČSN EN 13501-1.

Polyethylene pipes of type LPE 1 and LPE 2 with low and very low mechanical resistance can be used only for installing on/into class A1 non-inflammable materials.

The pipes are intended for installation to the distribution of low voltage.
Manufacturer reccommends the assembling of plastic pipes at the temperature over 0 °C.
The ČSN 64 0090 standard is applicable for storage.

It is possible to install flexible and tough "necked" pipes with accessories on premises where there is danger of explosions of flammable gases and vapours (zone 2) or danger of explosions of flammable dust (zone 22); the wiring must be performed according to ČSN EN 60079-14.

KOPOFLEX®, KOPODUR®, KOPOHALF®, KOPOKAN and Optical Cable Protectors are designed for under the ground installation.
The product may have common surface mechanical damage (crumpling, scratches, deformations of the ribs) to the outer wall of the pipe caused by production or transport
technology, which does not affect the functionality of the product.

**Tube length tolerance**
- rigid: ± 10 mm
- flexible: ± 1 %

**Protective tube length tolerance**
- KOPOFLEX®: ± 0,5 m
- KOPODUR®: ± 1 %
- HDPE: ± 2 mm/m
- KOPOHALF®: ± 10 mm
- KOPOKAN: ± 10 mm
- DUODREN: ± 1 %

All pipes and protectors also on our website.

## ICONS - LEGEND

| | | | |
|---|---|---|---|
| MAT | material | UV | UV stable |
| | temperature resistance, scope of application (°C) | LSOH | low smoke and halogen-free material (low smoke zero halogen) |
| | fire reaction class of underlying material | r min | minimal bending radius (mm) |
| | self-extinguishing | | in stock |
| F | mechanical resistance / load limit value (N) | | sheet metal thickness |
| 1 | classification code according to ČSN EN 61386-1 | IK | mechanical protection |
| 25 | classification code according to ČSN EN 61386-25 | | package (m; pcs) |
| | area with a risk of explosion | | dimension package |
| IP | level of protection - IP classification | dn | outside diameter |
| E 90 | functionality during a fire | di | minimální inner průměr |
| HF | halogen-free material | R | bending radius |
| | made of recycled material | L | length |
| | thread | | color |
| | possibility of nailing | | antibacteriality |
| | tools for installation | | |



## CLASSIFICATION CODES FOR THE DECLARED PROPERTIES OF THE WIRING SYSTEM ACCORDING TO ČSN EN 61386-1 EDITION 2

The code classifies the conduits and their accessories according to compressive strength, impact strength, minimum and maximum admissible installation temperature.

| first digit | | second digit | | third digit | | fourth digit | | fifth digit | |
|---|---|---|---|---|---|---|---|---|---|
| resistance to compression | | resistance to impact | | lower temperature range | | upper temperature range | | resistance to bending | |
| 1 | very light 125 N | 1 | very light 0,5 J | 1 | + 5 °C | 1 | + 60 °C | 1 | rigid |
| 2 | light 320 N | 2 | light 1 J | 2 | - 5 °C | 2 | + 90 °C | 2 | pliable |
| 3 | medium 750 N | 3 | medium 2 J | 3 | - 15 °C | 3 | +105 °C | 3 | pliable / self recovering |
| 4 | heavy 1250 N | 4 | heavy 6 J | 4 | - 25 °C | 4 | +120 °C | 4 | flexible |
| 5 | very heavy 4000 N | 5 | very heavy 20,4 J | 5 | - 45 °C | 5 | +150 °C | | |
| | | | | | | 6 | +250 °C | | |
| | | | | | | 7 | +400 °C | | |

Pipes:

| | | |
|---|---|---|
| KOPOS TYP 1516E - 1563 | EN 2241 (320 N) | PVC |
| KOPOS TYP 4016E - 4063 | EN 3341 (750 N) | PVC |
| KOPOS TYP 8016E - 8063 | EN 4441 (1250 N) | PVC |

## CLASSIFICATION CODES FOR THE DECLARED PROPERTIES OF THE FIXING EQUIPMENT ACCORDING TO ČSN EN 61386-25

Classification codes for the declared properties of the wiring system fixing equipment.

| | | | |
|---|---|---|---|
| **first digit** | **resistance to lateral load** | 2 | low lateral load |
| | | 3 | medium lateral load |
| | | 4 | high lateral load |
| **second digit** | **impact resistance** | 1 | very low impact strength |
| | | 2 | low impact strength |
| | | 3 | medium impact strength |
| | | 4 | high impact strength |
| | | 5 | very high impact strength |
| **third digit** | **range of low temperatures** | 1 | +5 °C |
| | | 2 | -5 °C |
| | | 3 | -15 °C |
| | | 4 | -25 °C |
| | | 5 | -45 °C |
| **fourth digit** | **range of high temperatures** | 0 | +40 °C |
| | | 1 | +60 °C |
| | | 2 | +90 °C |
| | | 3 | +105 °C |
| | | 4 | +120 °C |
| | | 5 | +150 °C |
| | | 6 | +250 °C |
| | | 7 | +400 °C |
| **fifth digit** | **corrosion resistance** | 1 | low protection inside and outside |
| | | 2 | medium protection inside and outside |
| | | 3 | medium protection inside, high protection outside |
| | | 4 | high protection inside and outside |
| **sixth digit** | **flame spread resistance** | 1 | flame retardant |
| | | 2 | spreading flame |
| **seventh digit** | **resistance to axial load** | 0 | not specified |
| | | 1 | specified by the producer |

**All pipes and accessories (except for Weicon) are in compliance with EU directives.**

**Flexible pipes of types 14.. and 12.. and rigid pipes of types 15.., 40.., 80.., 15.. HF, 40.. HF including elbows and couplings are in compliance with German electrical Standard.**

# WIRING PIPES

# PVC



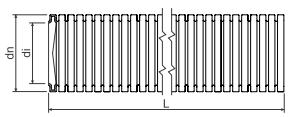
www.kopos.com

## MONOFLEX® - low mechanical resistance



MAT | PVC | -5 - +60°C | A1 - F | 30 sec. | 320 N/5 cm | 22212

- for surface installation, into or under parget
- suitable for mounting into hollow walls, plaster walls, ceilings and wooden constructions
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)




| | dn | item | desc. | | di min. | L | | EAN |
|---|---|---|---|---|---|---|---|---|
| | mm | | | | mm | m | m | |
| EN | 16 | **1416E_F50** | - | black | 10,5 | 50 | 5400 | 8595568909664 |
| | | **1416E_H10** | - | white | | 10 | 1920 | 8595568932419 |
| | | **1416E_K10** | - | light grey | | 10 | 1920 | 8595568924940 |
| | | **1416E_K50** | - | light grey | | 50 | 5400 | 8595057616035 |
| | | **1416E_K50D** | with wire | light grey | | 50 | 5400 | 8595057619753 |
| | 20 | **1420_F50** | - | black | 14,1 | 50 | 4500 | 8595568909671 |
| | | **1420_H10** | | white | | 10 | 1600 | 8595568932426 |
| | | **1420_K10** | - | light grey | | 10 | 1600 | 8595568924957 |
| | | **1420_K50** | - | light grey | | 50 | 4500 | 8595057616042 |
| | | **1420_K50D** | with wire | light grey | | 50 | 4500 | 8595057619760 |
| | 25 | **1425_F50** | - | black | 17,8 | 50 | 3000 | 8595568909695 |
| | | **1425_H10** | | white | | 10 | 900 | 8595568932433 |
| | | **1425_K10** | - | light grey | | 10 | 900 | 8595568927019 |
| | | **1425_K50** | - | light grey | | 50 | 3000 | 8595057616059 |
| | | **1425_K50D** | with wire | light grey | | 50 | 3000 | 8595057619777 |
| | 32 | **1432_F50** | - | black | 23,8 | 50 | 1600 | 8595568909718 |
| | | **1432_H10** | | white | | 10 | 900 | 8595568932440 |
| | | **1432_K10** | - | light grey | | 10 | 900 | 8595568927026 |
| | | **1432_K50** | - | light grey | | 50 | 1600 | 8595057616066 |
| | | **1432_K50D** | with wire | light grey | | 50 | 1600 | 8595568930767 |
| | 40 | **1440_F25** | - | black | 31,2 | 25 | 1000 | 8595568922076 |
| | | **1440_K25** | - | light grey | | 25 | 1000 | 8595057619715 |
| | | **1440_K25D** | with wire | light grey | | 25 | 1000 | 8595057621510 |
| | 50 | **1450_F25** | - | black | 39,6 | 25 | 800 | 8595568909732 |
| | | **1450_K25** | - | light grey | | 25 | 800 | 8595057619722 |

### ACCESSORIES



**clamps HF**
**pg. 239**



**connectors PVC**
**pg. 230**



**clamps PVC**
**pg. 231**

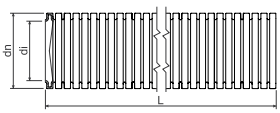
material | temperature resistance | fire reaction class of underlying material | self-extinguishing | mechanical resistance | classification code according to 61386-1 | area with a risk of explosion | antibacteriality | color | package

## SUPER MONOFLEX - medium mechanical resistance



MAT | PVC | -5 - +60°C | A1 - F | 30 sec. | 750 N/5 cm | 33212

- for installation on the surface, in plaster, under plaster or in concrete
- suitable for installation for hollow walls, partitions, ceilings and wooden buildings
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)




| | dn mm | item | desc. | | di min. mm | L m | m | EAN |
|---|---|---|---|---|---|---|---|---|
| EN | 16 | **1216E_L50** | - | dark grey | 10,5 | 50 | 5400 | 8595057612914 |
| | | **1216E_L50D** | with wire | dark grey | | 50 | 5400 | 8595057619814 |
| | 20 | **1220_L50** | - | dark grey | 14,1 | 50 | 4500 | 8595057612921 |
| | | **1220_L50D** | with wire | dark grey | | 50 | 4500 | 8595057619821 |
| | 25 | **1225_L50** | - | dark grey | 17,8 | 50 | 3000 | 8595057612938 |
| | | **1225_L50D** | with wire | dark grey | | 50 | 3000 | 8595057619838 |
| | 32 | **1232_L25** | - | dark grey | 23,8 | 25 | 1500 | 8595057612945 |
| | | **1232_L25D** | with wire | dark grey | | 25 | 1500 | 8595057619845 |
| | 40 | **1240_L25** | - | dark grey | 31,2 | 25 | 1000 | 8595057612952 |
| | | **1240_L25D** | with wire | dark grey | | 25 | 1000 | 8595057693753 |
| | 50 | **1250_L25** | - | dark grey | 39,6 | 25 | 800 | 8595057612969 |

ACCESSORIES



**clamps HF** pg. 239



**connectors PVC** pg. 230



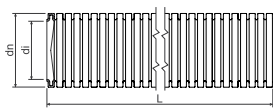
**clamps PVC** pg. 231

## SUPER MONOFLEX ICE - medium mechanical resistance



MAT | PVC | -25 - +60°C | A1 - F | 30 sec. | 750 N/5 cm | 33412

- for installation on the surface, in plaster, under plaster or in concrete
- suitable for installation for hollow walls, partitions, ceilings and wooden buildings




| | dn mm | item | | di min. mm | L m | m | EAN |
|---|---|---|---|---|---|---|---|
| EN | 16 | **1216EICE_L50** | dark grey | 10,2 | 50 | 5400 | 8595568942326 |
| | 20 | **1220ICE_L50** | dark grey | 13,7 | 50 | 4500 | 8595568942333 |
| | 25 | **1225ICE_L50** | dark grey | 17,4 | 50 | 3000 | 8595568942340 |
| | 32 | **1232ICE_L25** | dark grey | 23,4 | 25 | 1500 | 8595568942357 |
| | 40 | **1240ICE_L25** | dark grey | 31,2 | 25 | 1000 | 8595568942364 |
| | 50 | **1250ICE_L25** | dark grey | 39,6 | 25 | 800 | 8595568942371 |

ACCESSORIES



**clamps HF** pg. 239



**connectors PVC** pg. 230



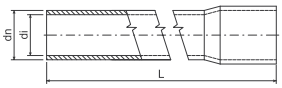
**clamps PVC** pg. 231

# Rigid wiring pipes - low mechanical resistance



MAT PVC | -25 - +60°C | A1 - F | 30 sec. | 320 N/5 cm F | 1 22411 | IK IK06

- rigid necked pipe passing the flame spread resistance test
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)




| | dn mm | item | | di min. mm | L m | m | EAN |
|---|---|---|---|---|---|---|---|
| EN | 16 | **1516E_FA** | black | 13,7 | 3 | 30 | 8595568934307 |
| | | **1516E_HA** | white | | 3 | 30 | 8595057619067 |
| | | **1516E_KA** | light grey | | 3 | 30 | 8595057617209 |
| | | **1516E_KC** | light grey | | 2 | 20 | 8595057617216 |
| | 20 | **1520_FA** | black | 17,4 | 3 | 30 | 8595568934314 |
| | | **1520_HA** | white | | 3 | 30 | 8595057619074 |
| | | **1520_KA** | light grey | | 3 | 30 | 8595057616905 |
| | | **1520_KC** | light grey | | 2 | 20 | 8595057613867 |
| | 25 | **1525_FA** | black | 22,1 | 3 | 30 | 8595568934321 |
| | | **1525_HA** | white | | 3 | 30 | 8595057619081 |
| | | **1525_KA** | light grey | | 3 | 30 | 8595057616912 |
| | | **1525_KC** | light grey | | 2 | 20 | 8595057616882 |
| | 32 | **1532_FA** | black | 28,6 | 3 | 30 | 8595568934338 |
| | | **1532_HA** | white | | 3 | 30 | 8595057619098 |
| | | **1532_KA** | light grey | | 3 | 30 | 8595057616929 |
| | | **1532_KC** | light grey | | 2 | 20 | 8595057616875 |
| | 40 | **1540_HA** | white | 36,6 | 3 | 30 | 8595057619104 |
| | | **1540_KA** | light grey | | 3 | 30 | 8595057616936 |
| | | **1540_KC** | light grey | | 2 | 20 | 8595057616943 |
| | 50 | **1550_HA** | white | 45,9 | 3 | 30 | 8595057619111 |
| | | **1550_KA** | light grey | | 3 | 30 | 8595057617704 |
| | | **1550_KC** | light grey | | 2 | 20 | 8595057644946 |
| | 63 | **1563_HA** | white | 58,4 | 3 | 15 | 8595057657373 |
| | | **1563_KA** | light grey | | 3 | 15 | 8595057626317 |

## ACCESSORIES


clamps HF
pg. 239


connectors PVC
pg. 230


elbows PVC
pg. 230


clamps PVC
pg. 231


L-42W
pg. 182

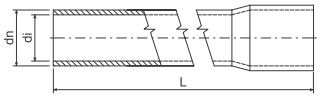
material | fire reaction class of underlying material | mechanical resistance | area with a risk of explosion | color | mechanical protection
temperature resistance | self-extinguishing | classification code according to 61386-1 | antibacteriality | package | tools for installation

# Rigid wiring pipes - medium mechanical resistance



MAT PVC | -25 - +60°C | A1 - F | 30 sec. | 750 N/5 cm | 1 33411 | IK IK07

- rigid necked pipe passing the flame spread resistance test
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)




| | dn mm | item | | di min. mm | L m | | EAN |
|---|---|---|---|---|---|---|---|
| EN | 16 | **4016E_KA** | light grey | 13,0 | 3 | 30 | 8595057689602 |
| | | **4016E_LA** | dark grey | | 3 | 30 | 8595057617223 |
| | 20 | **4020_KA** | light grey | 16,9 | 3 | 30 | 8595057689954 |
| | | **4020_KC** | light grey | | 2 | 20 | 8595568903655 |
| | | **4020_LA** | dark grey | | 3 | 30 | 8595057617018 |
| | 25 | **4025_KA** | light grey | 21,4 | 3 | 30 | 8595057689930 |
| | | **4025_KC** | light grey | | 2 | 20 | 8595568902955 |
| | | **4025_LA** | dark grey | | 3 | 30 | 8595057616981 |
| | 32 | **4032_KA** | light grey | 28,0 | 3 | 30 | 8595057690011 |
| | | **4032_KC** | light grey | | 2 | 20 | 8595568902962 |
| | | **4032_LA** | dark grey | | 3 | 30 | 8595057617001 |
| | 40 | **4040_KA** | light grey | 35,8 | 3 | 30 | 8595057689961 |
| | | **4040_LA** | dark grey | | 3 | 30 | 8595057616998 |
| | 50 | **4050_KA** | light grey | 45,0 | 3 | 30 | 8595057690394 |
| | | **4050_LA** | dark grey | | 3 | 30 | 8595057617728 |
| | 63 | **4063_KA** | light grey | 57,4 | 3 | 15 | 8595057696402 |
| | | **4063_LA** | dark grey | | 3 | 15 | 8595057626324 |

## ACCESSORIES


clamps HF
pg. 239


connectors PVC
pg. 230


elbows PVC
pg. 230


clamps PVC
pg. 231


L-42W
pg. 182

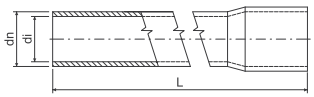
material | fire reaction class of underlying material | mechanical resistance | area with a risk of explosion | color | mechanical protection
temperature resistance | self-extinguishing | classification code according to 61386-1 | antibacteriality | package | tools for installation

# Rigid wiring pipes - high mechanical resistance



| MAT | | | | F | 1 | | IK | |
|---|---|---|---|---|---|---|---|---|
| PVC | -25 - +60°C | A1 - F | 30 sec. 1250 N/5 cm | | 44411 | | IK09 | |

- rigid necked pipe passing the flame spread resistance test
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)




| | dn | item | | di min. | L | | EAN |
|---|---|---|---|---|---|---|---|
| | mm | | | mm | m | m | |
| EN | 16 | **8016E_FA** | black | 12,2 | 3 | 30 | 8595057617247 |
| | 20 | **8020_FA** | black | 15,8 | 3 | 30 | 8595057617087 |
| | 25 | **8025_FA** | black | 20,6 | 3 | 30 | 8595057617070 |
| | 32 | **8032_FA** | black | 27,0 | 3 | 30 | 8595057617063 |
| | 40 | **8040_FA** | black | 35,0 | 3 | 30 | 8595057617056 |
| | 50 | **8050_FA** | black | 44,1 | 3 | 30 | 8595057617711 |
| | 63 | **8063_FA** | black | 55,4 | 3 | 15 | 8595057626331 |

ACCESSORIES


**clamps HF**
pg. 239


**connectors PVC**
pg. 230


**elbows PVC**
pg. 230


**clamps PVC**
pg. 231

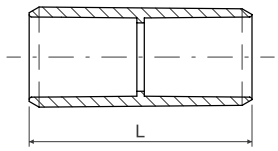

**L-42W**
pg. 182

material
temperature resistance
fire reaction class of underlying material
self-extinguishing
mechanical resistance
classification code according to 61386-1
area with a risk of explosion
antibacteriality
color
package
mechanical protection
tools for installation

## Connectors for EN pipes



MAT PVC | -25 - +60°C | A1 - F | 30 sec. | IK IK09




- connectors are designed for connecting rigid and flexible pipes
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)

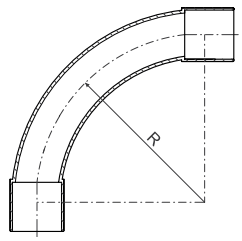
| dn pipe mm | item | | L mm | pcs | EAN |
|---|---|---|---|---|---|
| 16 | 0216E_FB | black | 45 | 10; 1300 | 8595057618060 |
| | 0216E_HB | white | | 10; 1300 | 8595057643925 |
| | 0216E_KB | light grey | | 10; 1300 | 8595057618183 |
| | 0216E_LB | dark grey | | 10; 1300 | 8595057618121 |
| 20 | 0220_FB | black | 50 | 10; 800 | 8595057618077 |
| | 0220_HB | white | | 10; 800 | 8595057643932 |
| | 0220_KB | light grey | | 10; 800 | 8595057618190 |
| | 0220_LB | dark grey | | 10; 800 | 8595057618138 |
| 25 | 0225_FB | black | 60 | 10; 480 | 8595057618084 |
| | 0225_HB | white | | 10; 480 | 8595057643949 |
| | 0225_KB | light grey | | 10; 480 | 8595057618206 |
| | 0225_LB | dark grey | | 10; 480 | 8595057618145 |
| 32 | 0232_FB | black | 70 | 10; 260 | 8595057618091 |
| | 0232_HB | white | | 10; 260 | 8595057643956 |
| | 0232_KB | light grey | | 10; 260 | 8595057618213 |
| | 0232_LB | dark grey | | 10; 260 | 8595057618152 |

| dn trubky mm | item | | L mm | pcs | EAN |
|---|---|---|---|---|---|
| 40 | 0240_FB | black | 80 | 10; 120 | 8595057618107 |
| | 0240_HB | white | | 10; 120 | 8595057643963 |
| | 0240_KB | light grey | | 10; 120 | 8595057618220 |
| | 0240_LB | dark grey | | 10; 120 | 8595057618169 |
| 50 | 0250_FB | black | 88 | 10; 180 | 8595057618176 |
| | 0250_HB | white | | 10; 180 | 8595057657359 |
| | 0250_KB | light grey | | 10; 180 | 8595057618114 |
| | 0250_LB | dark grey | | 10; 180 | 8595057618237 |
| 63 | 0263_FB | black | 105 | 2; 44 | 8595057625884 |
| | 0263_HB | white | | 2; 44 | 8595057657366 |
| | 0263_KB | light grey | | 2; 44 | 8595057625860 |
| | 0263_LB | dark grey | | 2; 44 | 8595057625877 |

## Elbows for EN pipes



MAT PVC | -25 - +60°C | A1 - F | 30 sec. | IK IK09



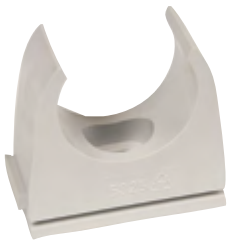

- the elbows with double-sided necking are intended for 90° bends
- bending radius ensures smooth transition and allows easy retraction of wires and cables
- if a bend other than 90° is required, it is possible to replace the elbow with a flexible pipe and connecting partsi
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)

| dn pipe mm | item | | R mm | pcs | EAN |
|---|---|---|---|---|---|
| 16 | 4116_FB | black | 55 | 10; 480 | 8595057617735 |
| | 4116_HB | white | | 10; 480 | 8595057643888 |
| | 4116_KB | light grey | | 10; 480 | 8595057617834 |
| | 4116_LB | dark grey | | 10; 480 | 8595057617780 |
| 20 | 4120_FB | black | 70 | 10; 240 | 8595057617742 |
| | 4120_HB | white | | 10; 240 | 8595057643895 |
| | 4120_KB | light grey | | 10; 240 | 8595057617841 |
| | 4120_LB | dark grey | | 10; 240 | 8595057617797 |
| 25 | 4125_FB | black | 85 | 10; 120 | 8595057617759 |
| | 4125_HB | white | | 10; 120 | 8595057643901 |
| | 4125_KB | light grey | | 10; 120 | 8595057617858 |
| | 4125_LB | dark grey | | 10; 120 | 8595057617803 |

| dn trubky mm | item | | R mm | pcs | EAN |
|---|---|---|---|---|---|
| 32 | 4132_FB | black | 110 | 10; 60 | 8595057617322 |
| | 4132_HB | white | | 10; 60 | 8595057643918 |
| | 4132_KB | light grey | | 10; 60 | 8595057617346 |
| | 4132_LB | dark grey | | 10; 60 | 8595057617339 |
| 40 | 4140_FB | black | 135 | 5; 35 | 8595057617773 |
| | 4140_HB | white | | 5; 35 | 8595057650657 |
| | 4140_KB | light grey | | 5; 35 | 8595057617865 |
| | 4140_LB | dark grey | | 5; 35 | 8595057617810 |
| 50 | 4150_FB | black | 170 | 5; 30 | 8595057617766 |
| | 4150_HB | white | | 5; 30 | 8595057668874 |
| | 4150_KB | light grey | | 5; 30 | 8595057617872 |
| | 4150_LB | dark grey | | 5; 30 | 8595057617827 |

material | fire reaction class of underlying material | area with a risk of explosion | color | mechanical protection
temperature resistance | self-extinguishing | antibacteriality | package

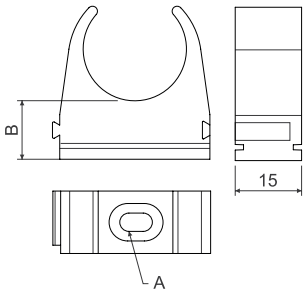
# Clamps for EN pipes



MAT | -25 - +60°C | A1 - F | 30 sec. | 2441410 | IK09

PVC

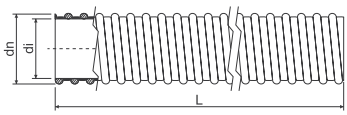
- the clamps are intended to fix the pipes to the underlying material
- pipes are installed by pushing between the clamp jaws
- the clamps are equipped with elements for placing next to each other to create a continuous series of tubes, and also grooves for installation in supporting trunkings of 5820/.. (see page pg. 214)
- the connection can be made for clamps of different sizes
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)




| dn pipe | item | | A | B | | EAN |
|---|---|---|---|---|---|---|
| mm | | | mm | mm | pcs | |
| 16 | 5316E_FB | black | 4,3x6,5 | 12 | 10; 100; 500 | 8595057619340 |
| | 5316E_HB | white | | | 10; 100; 500 | 8595057643833 |
| | 5316E_KA | light grey | | | 100 | 8595568942555 |
| | 5316E_KB | light grey | | | 10; 100; 500 | 8595057619357 |
| | 5316E_LA | dark grey | | | 100 | 8595568942562 |
| | 5316E_LB | dark grey | | | 10; 100; 500 | 8595057619364 |
| 20 | 5320_FB | black | 4,3x6,5 | 12 | 10; 100; 400 | 8595057618015 |
| | 5320_HB | white | | | 10; 100; 400 | 8595057643840 |
| | 5320_KA | light grey | | | 100 | 8595568942579 |
| | 5320_KB | light grey | | | 10; 100; 400 | 8595057617896 |
| | 5320_LA | dark grey | | | 100 | 8595568942586 |
| | 5320_LB | dark grey | | | 10; 100; 400 | 8595057617957 |
| 25 | 5325_FB | black | 4,3x6,5 | 14 | 10; 100; 600 | 8595057618022 |
| | 5325_HB | white | | | 10; 100; 600 | 8595057643857 |
| | 5325_KA | light grey | | | 100 | 8595568942593 |
| | 5325_KB | light grey | | | 10; 100; 600 | 8595057617902 |
| | 5325_LA | dark grey | | | 100 | 8595568942609 |
| | 5325_LB | dark grey | | | 10; 100; 600 | 8595057617964 |
| 32 | 5332_FB | black | 5x10 | 14 | 10; 100; 740 | 8595057618039 |
| | 5332_HB | white | | | 10; 100; 740 | 8595057643864 |
| | 5332_KA | light grey | | | 100 | 8595568942616 |
| | 5332_KB | light grey | | | 10; 100; 740 | 8595057617919 |
| | 5332_LA | dark grey | | | 100 | 8595568942623 |
| | 5332_LB | dark grey | | | 10; 100; 740 | 8595057617971 |
| 40 | 5340_FB | black | 5x10 | 14 | 10; 100; 400 | 8595057618046 |
| | 5340_HB | white | | | 10; 100; 400 | 8595057643871 |
| | 5340_KB | light grey | | | 10; 100; 400 | 8595057617926 |
| | 5340_LB | dark grey | | | 10; 100; 400 | 8595057617988 |
| 50 | 5350_FB | black | 6,6x10,2 | 14 | 10; 100; 350 | 8595057618053 |
| | 5350_HB | white | | | 10; 420 | 8595057657045 |
| | 5350_KB | light grey | | | 10; 100; 350 | 8595057617933 |
| | 5350_LB | dark grey | | | 10; 100; 350 | 8595057617995 |
| 63 | 5363_FB | black | 6,6x10,2 | 14 | 10; 240 | 8595057657496 |
| | 5363_HB | white | | | 10; 240 | 8595057657502 |
| | 5363_KB | light grey | | | 10; 240 | 8595057657519 |
| | 5363_LB | dark grey | | | 10; 240 | 8595057657526 |

## SPIROFLEX - low mechanical resistance






| MAT | | | | | |
|---|---|---|---|---|---|
| PVC | -5 - +60°C | A1 - F | 30 sec. | 320 N/5 cm | 23114 |

- fexible protective pipe reinforced with hard PVC spiral
- excels in smooth inside surface and very good strength, while the flexibility is guaranteed
- suitable for systems with mechanical strain and constant pressure, e.g.: industrial systems and machine equipment

| dn | item | | di min. | L | | EAN |
|---|---|---|---|---|---|---|
| mm | | | mm | m | m | |
| 20,7 | **SF16_K30** | light grey | 16 | 30 | 4320 | 8595057625891 |
| 25,0 | **SF20_K30** | light grey | 20 | 30 | 2970 | 8595057625907 |
| 30,6 | **SF25_K30** | light grey | 25 | 30 | 1800 | 8595057625914 |
| 38,0 | **SF32_K30** | light grey | 32 | 30 | 1200 | 8595057625921 |

## Conduit bushing SPIROFLEX



| MAT | | | | |
|---|---|---|---|---|
| PVC | -5 - +60°C | A1 - F | 30 sec. | IP64 |

| item | | di pipe | for pipe type | | | EAN |
|---|---|---|---|---|---|---|
| | | mm | | mm | pcs | |
| **SFM20_KB** | light grey | 16 | SF16 | M20x1,5 | 25 | 8595057625938 |
| **SFM25_KB** | light grey | 20 | SF20 | M25x1,5 | 25 | 8595057625945 |
| **SFM32_KB** | light grey | 25 | SF25 | M32x1,5 | 10 | 8595057625952 |
| **SFM40_KB** | light grey | 32 | SF32 | M40x1,5 | 10 | 8595057625969 |

material
temperature resistance
fire reaction class of underlying material
self-extinguishing
mechanical resistance
classification code according to 61386-1
IP protection
thread
color
package

WIRING PIPES

# HALOGEN-FREE



www.kopos.com

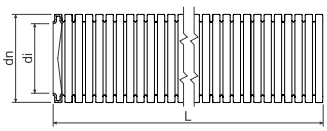
## SUPER MONOFLEX HFPP - medium mechanical resistance



MAT | -25 - +105°C | A1 - F | 30 sec. | 750 N/5 cm | 33433 | HF | LSOH

PP

- flexible halogen-free self-extinguishing pipe made of PP with low smoke
- for installation on the surface, in plaster, under plaster or into concrete
- suitable for mounting into hollow walls, plaster walls, ceilings and wooden constructions
- halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)




| | dn mm | item | | | di min. mm | L m | m | EAN |
|---|---|---|---|---|---|---|---|---|
| EN | 16 | 1216EHFPP_L50 | - | dark grey | 10,5 | 50 | 5400 | 8595568945228 |
| | | 1216EHFPP_L50D | with wire | dark grey | 10,5 | 50 | 5400 | 8595568945273 |
| | 20 | 1220HFPP_L50 | - | dark grey | 14,1 | 50 | 4500 | 8595568945235 |
| | | 1220HFPP_L50D | with wire | dark grey | 14,1 | 50 | 4500 | 8595568945280 |
| | 25 | 1225HFPP_L50 | - | dark grey | 17,8 | 50 | 3000 | 8595568927033 |
| | | 1225HFPP_L50D | with wire | dark grey | 17,8 | 50 | 3000 | 8595568945297 |
| | 32 | 1232HFPP_L25 | - | dark grey | 23,8 | 25 | 1500 | 8595568945259 |
| | | 1232HFPP_L25D | with wire | dark grey | 23,8 | 25 | 1500 | 8595568945303 |
| | 40 | 1240HFPP_L25 | - | dark grey | 31,2 | 25 | 1000 | 8595568945266 |
| | | 1240HFPP_L25D | with wire | dark grey | 31,2 | 25 | 1000 | 8595568945310 |
| | 50 | 1250HFPP_L25 | - | dark grey | 41,2 | 25 | 700 | 8595057621855 |

ACCESSORIES



connectors HF pg. 238



clamps HF pg. 239

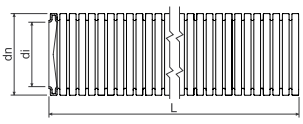
## LPE-1 - low mechanical resistance



MAT | -25 - +90°C | A1 | 320 N/5 cm | 22423 | HF

PE

- suitable for direct monolithic concreting or under the parget




| | dn mm | item | desc. | | di min. mm | L m | m | EAN |
|---|---|---|---|---|---|---|---|---|
| EN | 16 | 2316E/LPE-1_A100 | - | orange | 10,7 | 100 | 7200 | 8595057651197 |
| | | 2316E/LPE-1_A100D | with wire | orange | | 100 | min. 7200 | 8595057651203 |
| | 20 | 2320/LPE-1_A50 | - | orange | 14,1 | 50 | 4500 | 8595568927590 |
| | | 2320/LPE-1_A100D | with wire | orange | | 100 | min. 4000 | 8595057651241 |
| | 25 | 2325/LPE-1_A50 | - | orange | 18,3 | 50 | 3000 | 8595568905406 |
| | | 2325/LPE-1_A50D | with wire | orange | | 50 | 3000 | 8595568927699 |
| | 32 | 2332/LPE-1_A50 | - | orange | 24,3 | 50 | 1600 | 8595057657380 |
| | | 2332/LPE-1_A50D | with wire | orange | | 50 | 1600 | 8595057668843 |
| | 40 | 2340/LPE-1_A25 | - | orange | 31,2 | 25 | 1000 | 8595057688452 |
| ČSN | 21,2 | 2316/LPE-1_H100 | - | white | 16,0 | 100 | 3600 | 8595057603707 |
| | 28,5 | 2323/LPE-1_H100 | - | white | 22,9 | 100 | 2800 | 8595057603714 |
| | 34,5 | 2329/LPE-1_H50 | - | white | 28,4 | 50 | 1600 | 8595057603721 |

ACCESSORIES



connectors HF pg. 238

material | fire reaction class of underlying material | mechanical resistance | area with a risk of explosion | color | low smoke, halogen-free
temperature resistance | self-extinguishing | classification code according to 61386-1 | halogen-free material | package

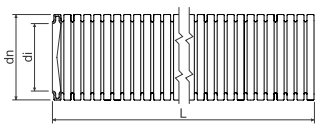
## LPE-1 - UV stable, low mechanical resistance



MAT | -25 - +90°C | A1 | 320 N/5 cm | 22423 | HF | UV

PE

- flexible UV stable pipe to be suitable for outside installations




| | dn mm | item | desc. | color | di min. mm | L m | package m | EAN |
|---|---|---|---|---|---|---|---|---|
| EN | 16 | **2316E/LPE-1_F1.DU** | with wire | black | 10,7 | 100 | 7200 | 8595568936202 |
| | 20 | **2320/LPE-1_F1.DU** | with wire | black | 14,1 | 100 | 4000 | 8595568902498 |
| | | **2320/LPE-1_F1.U** | - | black | | 100 | 4000 | 8595568902481 |
| | 25 | **2325/LPE-1_F1.DU** | with wire | black | 18,3 | 100 | 3200 | 8595057699366 |
| | | **2325/LPE-1_F1.U** | - | black | | 100 | 3200 | 8595568902504 |
| | 32 | **2332/LPE-1_F50DU** | with wire | black | 24,3 | 50 | 1600 | 8595568902573 |
| | | **2332/LPE-1_F50U** | - | black | | 50 | 1600 | 8595568902566 |

ACCESSORIES



**connectors HF**
**pg. 238**



**clamps HF**
**pg. 239**

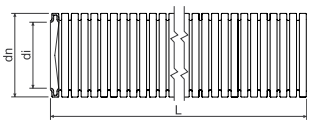
## LPE-2 - very low mechanical resistance



MAT | -25 - +90°C | A1 | 125 N/5 cm | 11423 | HF

PE

- suitable for installing into prefabricated concrete elements



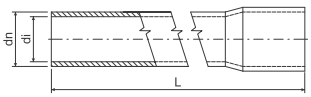

| | dn mm | item | color | di min. mm | L m | package m | EAN |
|---|---|---|---|---|---|---|---|
| ČSN | 18,7 | **2313/LPE-2_H100** | white | 13,5 | 100 | 4000 | 8595057603646 |
| | 21,2 | **2316/LPE-2_H100** | white | 16,0 | 100 | 3600 | 8595057603653 |
| | 28,5 | **2323/LPE-2_H100** | white | 22,9 | 100 | 2800 | 8595057603660 |
| | 34,5 | **2329/LPE-2_H50** | white | 28,4 | 50 | 1600 | 8595057603677 |
| | 42,2 | **2336/LPE-2_H50** | white | 35,9 | 50 | 1400 | 8595057603684 |

# Halogen-free rigid wiring pipes - low mechanical resistance



MAT | -45 - +90°C | A1 - F | 30 sec. | 320 N/5 cm | 22521 | E 90 | IK06

- halogen-free rigid socket pipes suitable for distribution systems in apartments and industrial environments
- up to a diameter of 25, the pipes are rigid socket pipes at one end, diameters 32 - 63 are fitted with a coupling
- halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)
- the pipes are also available for systems maintaining functionality during a fire (see catalogue Cable managament systems / Fire resistant systems)
- **the black pipes are UV-stable**




| | dn | item | | di min. | L | | EAN |
|---|---|---|---|---|---|---|---|
| | mm | | | mm | m | m | |
| EN | 16 | **1516EHF_FA** | black | 13,1 | 3 | 30 | 8595057626423 |
| | | **1516EHF_KA** | light grey | | 3 | 30 | 8595057631854 |
| | | **1516EHF_HA** | white | | 3 | 30 | 8595568945136 |
| | 20 | **1520HF_FA** | black | 17,1 | 3 | 30 | 8595057626430 |
| | | **1520HF_KA** | light grey | | 3 | 30 | 8595057631861 |
| | | **1520HF_HA** | white | | 3 | 30 | 8595568945143 |
| | 25 | **1525HF_FA** | black | 21,6 | 3 | 30 | 8595057626966 |
| | | **1525HF_KA** | light grey | | 3 | 30 | 8595057631878 |
| | | **1525HF_HA** | white | | 3 | 30 | 8595568945150 |
| | 32 | **1532HF_FA** | black | 28,4 | 3 | 30 | 8595057626973 |
| | | **1532HF_KA** | light grey | | 3 | 30 | 8595057631885 |
| | | **1532HF_HA** | white | | 3 | 30 | 8595568945167 |
| | 40 | **1540HF_FA** | black | 36,0 | 3 | 30 | 8595057626447 |
| | | **1540HF_KA** | light grey | | 3 | 30 | 8595057631892 |
| | 50 | **1550HF_FA** | black | 45,6 | 3 | 30 | 8595057626454 |
| | | **1550HF_KA** | light grey | | 3 | 30 | 8595057631908 |
| | 63 | **1563HF_FA** | black | 58,4 | 3 | 15 | 8595057631489 |
| | | **1563HF_KA** | light grey | | 3 | 15 | 8595057631915 |

## ACCESSORIES


**connectors HF**
pg. 238


**elbows HF**
pg. 238


**clamps HF**
pg. 239


**L-42W**
pg. 182

material | temperature resistance | antibacteriality | fire reaction class of underlying material | mechanical resistance | mechanical protection | halogen-free material | classification code according to 61386-1 | tools for installation | UV stable | package | color | self-extinguishing | area with a risk of explosion | functionality during a fire

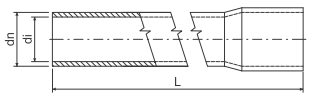
## Halogen-free rigid wiring pipes - medium mechanical resistance



MAT | -45 - +90°C | A1 - F | 30 sec. | 750 N/5 cm | 33521 | E 90 | IK07 | HF

PC-ABS

- halogen-free rigid socket pipes suitable for distribution systems in apartments and industrial environments
- up to a diameter of 25, the pipes are rigid socket pipes at one end, diameters 32 - 40 are fitted with a coupling
- halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.
- it is possible to install on premises where there is danger of explosions of flammable gases and vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)
- the pipes are also available for systems maintaining functionality during a fire (see catalogue Cable managament systems / Fire resistant systems)
- **the black pipes are UV-stable**




| | dn mm | item | | di min. mm | L m | m | EAN |
|---|---|---|---|---|---|---|---|
| EN | 16 | **4016EHF_FA** | black | 12,7 | 3 | 15 | 8595057688254 |
| | | **4016EHF_KA** | light grey | | 3 | 15 | 8595057690868 |
| | 20 | **4020HF_FA** | black | 16,7 | 3 | 15 | 8595057688261 |
| | | **4020HF_KA** | light grey | | 3 | 15 | 8595057690875 |
| | 25 | **4025HF_FA** | black | 21,0 | 3 | 15 | 8595057688278 |
| | | **4025HF_KA** | light grey | | 3 | 15 | 8595057690882 |
| | 32 | **4032HF_FA** | black | 28,0 | 3 | 15 | 8595057688285 |
| | | **4032HF_KA** | light grey | | 3 | 15 | 8595057690899 |
| | 40 | **4040HF_FA** | black | 35,4 | 3 | 15 | 8595057688292 |
| | | **4040HF_KA** | light grey | | 3 | 15 | 8595057690905 |

ACCESSORIES


**connectors HF**
pg. 238


**elbows HF**
pg. 238


**clamps HF**
pg. 239


**L-42W**
pg. 182

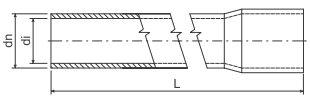
## Halogen-free rigid wiring pipes - high mechanical resistance



MAT | -45 - +90°C | A1 - F | 30 sec. | 1250 N/5 cm | 44521 | E 90 | IK09 | HF

PC-ABS

- halogen-free rigid socket pipes suitable for distribution systems in apartments and industrial environments
- up to a diameter of 25, the pipes are rigid socket pipes at one end, diameters 32 - 63 are fitted with a coupling
- halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.
- it is possible to install on premises where there is danger of explosions of flammable gasesand vapours zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)
- the pipes are also available for systems maintaining functionality during a fire (see catalogue Cable managament systems / Fire resistant systems)
- **the black pipes are UV-stable**




| | dn mm | item | | di min. mm | L m | m | EAN |
|---|---|---|---|---|---|---|---|
| EN | 16 | **8016EHF_FA** | black | 11,7 | 3 | 15 | 8595057688322 |
| | 20 | **8020HF_FA** | black | 15,7 | 3 | 15 | 8595057688339 |
| | 25 | **8025HF_FA** | black | 20,2 | 3 | 15 | 8595057688346 |
| | 32 | **8032HF_FA** | black | 27,0 | 3 | 15 | 8595057688353 |
| | 40 | **8040HF_FA** | black | 34,8 | 3 | 15 | 8595057688360 |
| | 50 | **8050HF_FA** | black | 44,2 | 3 | 15 | 8595057688377 |
| | 63 | **8063HF_FA** | black | 56,8 | 3 | 15 | 8595057688384 |

ACCESSORIES


**connectors HF**
pg. 238


**elbows HF**
pg. 238


**clamps HF**
pg. 239


**L-42W**
pg. 182

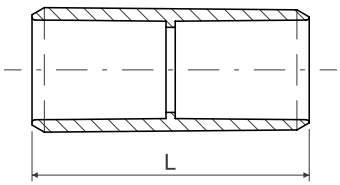
material | temperature resistance | antibacteriality | fire reaction class of underlying material | mechanical resistance | mechanical protection | halogen-free material | classification code according to 61386-1 | tools for installation | UV stable | package | color | self-extinguishing | area with a risk of explosion | functionality during a fire

## Connectors for halogen-free EN pipes



MAT PC-ABS | -45 - +90°C | A1 - F | 30 sec. | E 90 | IK IK09 | HF | UV

- connectors are designed to join pipes
- it is possible to install on premises where there is danger of explosions of flammable gasesand vapours zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)
- connectors are also available for systems maintaining functionality during a fire (see catalogue Cable managament systems / Fire resistant systems)
- **connectors in black are UV stable**



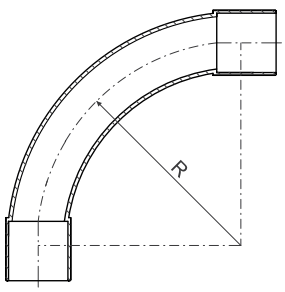

| dn pipe mm | item | | L mm | pcs | EAN |
|---|---|---|---|---|---|
| 16 | **0216HF_FB** | black | 45 | 10; 100 | 8595057626508 |
| | **0216HF_HB** | white | | | 8595568945174 |
| | **0216HF_KB** | light grey | | | 8595057631922 |
| 20 | **0220HF_FB** | black | 50 | 10; 100 | 8595057626515 |
| | **0220HF_HB** | white | | | 8595568945181 |
| | **0220HF_KB** | light grey | | | 8595057631939 |
| 25 | **0225HF_FB** | black | 60 | 10; 100 | 8595057626270 |
| | **0225HF_HB** | white | | | 8595568945198 |
| | **0225HF_KB** | light grey | | | 8595057631946 |
| 32 | **0232HF_FB** | black | 70 | 10; 260 | 8595057626287 |
| | **0232HF_HB** | white | | | 8595568945204 |
| | **0232HF_KB** | light grey | | | 8595057631953 |
| 40 | **0240HF_FB** | black | 80 | 10; 120 | 8595057626522 |
| | **0240HF_KB** | light grey | | | 8595057631960 |
| 50 | **0250HF_FB** | black | 88 | 10; 180 | 8595057626539 |
| | **0250HF_KB** | light grey | | | 8595057631977 |
| 63 | **0263HF_FB** | black | 105 | 2; 44 | 8595057629356 |
| | **0263HF_KB** | light grey | | | 8595057631984 |

## Elbows for halogen-free EN pipes



MAT PC-ABS | -45 - +90°C | A1 - F | 30 sec. | E 90 | IK IK09 | HF | UV

- the elbows with double-sided necking are intended for 90° bends
- bending radius ensures smooth transition and allows easy retraction of wires and cables
- it is possible to install on premises where there is danger of explosions of flammable gasesand vapours (zone 2) and on premises where there is danger of explosions of flammable dust (zone 22)
- the elbows are also available for systems maintaining functionality during a fire (see catalogue Cable managament systems / Fire resistant systems)
- **elbows in black are UV stable**




| dn pipe mm | item | | R mm | pcs | EAN |
|---|---|---|---|---|---|
| 16 | **4116HF_FB** | black | 55 | 10; 480 | 8595057626461 |
| | **4116HF_KB** | light grey | | 10; 480 | 8595057629288 |
| 20 | **4120HF_FB** | black | 70 | 10; 240 | 8595057626478 |
| | **4120HF_KB** | light grey | | 10; 240 | 8595057629295 |
| 25 | **4125HF_FB** | black | 85 | 10; 120 | 8595057626256 |
| | **4125HF_KB** | light grey | | 10; 120 | 8595057629301 |
| 32 | **4132HF_FB** | black | 110 | 10; 60 | 8595057626263 |
| | **4132HF_KB** | light grey | | 10; 60 | 8595057629318 |
| 40 | **4140HF_FB** | black | 135 | 5; 35 | 8595057626485 |
| | **4140HF_KB** | light grey | | 5; 35 | 8595057651166 |
| 50 | **4150HF_FB** | black | 170 | 5; 30 | 8595057626492 |
| | **4150HF_KB** | light grey | | 5; 30 | 8595057699281 |

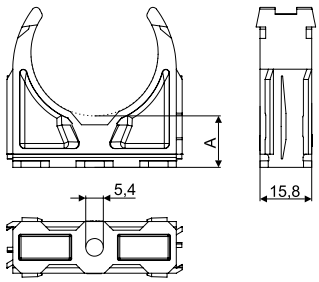
material | fire reaction class of underlying material | halogen-free material | UV stable | color | area with a risk of explosion
temperature resistance | antibacteriality | mechanical protection | package | self-extinguishing | functionality during a fire

# HF clamps - nailing



| MAT | | | | 25 | HF | |
|---|---|---|---|---|---|---|
| PP | -45 - +90°C | 650°C | flame retardant | 2452410 | | |

- clamps are designed for fastening of pipe distribution to the underlying material by shooting or screwing
- the pipe is mounted by pressing it between the clamp jaws
- clamps are equipped with elements for scovering next to each other to create a continuous row of pipes and also with grooves for installation in the 5820/xx series support rails
- clamps from size 40 are secured from above with TR 53xxHF clamps
- two firing holes for 11 and 16 mm nail gun attachments (5316EHF_xxP hole only 11 mm)




| dn | item | | A | | |
|---|---|---|---|---|---|
| mm | | | mm | pcs | EAN |
| 16 | **5316EHF_FBP** | black | 14,5 | 10/100/400 | 8595568945488 |
| | **5316EHF_HBP** | white | | 10/100/400 | 8595568945495 |
| | **5316EHF_KBP** | light grey | | 10/100/400 | 8595568945501 |
| | **5316EHF_LBP** | dark grey | | 10/100/400 | 8595568945518 |
| 20 | **5320HF_FBP** | black | 14,5 | 10/100/300 | 8595568945525 |
| | **5320HF_HBP** | white | | 10/100/300 | 8595568945532 |
| | **5320HF_KBP** | light grey | | 10/100/300 | 8595568945549 |
| | **5320HF_LBP** | dark grey | | 10/100/300 | 8595568945556 |
| 25 | **5325HF_FBP** | black | 15,0 | 10/100/600 | 8595568945563 |
| | **5325HF_HBP** | white | | 10/100/600 | 8595568945570 |
| | **5325HF_KBP** | light grey | | 10/100/600 | 8595568945587 |
| | **5325HF_LBP** | dark grey | | 10/100/600 | 8595568945594 |
| 32 | **5332HF_FBP** | black | 15,5 | 10/660 | 8595568945600 |
| | **5332HF_HBP** | white | | 10/660 | 8595568945617 |
| | **5332HF_KBP** | light grey | | 10/660 | 8595568945624 |
| | **5332HF_LBP** | dark grey | | 10/660 | 8595568945631 |
| 40 | **5340HF_FBP** | black | 15,5 | 10/440 | 8595568945648 |
| | **5340HF_HBP** | white | | 10/440 | 8595568945655 |
| | **5340HF_KBP** | light grey | | 10/440 | 8595568945662 |
| | **5340HF_LBP** | dark grey | | 10/440 | 8595568945679 |
| 50 | **5350HF_FBP** | black | 15,5 | 10/320 | 8595568945686 |
| | **5350HF_HBP** | white | | 10/320 | 8595568945693 |
| | **5350HF_KBP** | light grey | | 10/320 | 8595568945709 |
| | **5350HF_LBP** | dark grey | | 10/320 | 8595568945716 |
| 63 | **5363HF_FBP** | black | 15,5 | 10/200 | 8595568945723 |
| | **5363HF_HBP** | white | | 10/200 | 8595568945730 |
| | **5363HF_KBP** | light grey | | 10/200 | 8595568945747 |
| | **5363HF_LBP** | dark grey | | 10/200 | 8595568945754 |



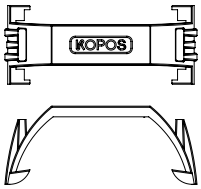
material · halogen-free material · color · possibility of nailing · flaming loop test
temperature resistance · classification code according to 61386-25 · self-extinguishing · package

# SAFETY CLAMPS



| MAT | | | | |
|---|---|---|---|---|
| PP | -45 - +90°C | 650°C | flame retardant | 2452410 |

- the clamps are designed to secure the pipe in the 53xxHF_xxP clamp
- use of clamps on clamps from dimension 40




| item | | | EAN |
|---|---|---|---|
| **TR 5340HF_FB** | black | 10/600 | 8595568945761 |
| **TR 5340HF_HB** | white | | 8595568945778 |
| **TR 5340HF_KB** | light grey | | 8595568945785 |
| **TR 5340HF_LB** | dark grey | | 8595568945792 |
| **TR 5350HF_FB** | black | 10/480 | 8595568945808 |
| **TR 5350HF_HB** | white | | 8595568945815 |
| **TR 5350HF_KB** | light grey | | 8595568945822 |
| **TR 5350HF_LB** | dark grey | | 8595568945839 |
| **TR 5363HF_FB** | black | 10/300 | 8595568945846 |
| **TR 5363HF_HB** | white | | 8595568945853 |
| **TR 5363HF_KB** | light grey | | 8595568945860 |
| **TR 5363HF_LB** | dark grey | | 8595568945877 |



## APAFS, APACS - low mechanical resistance

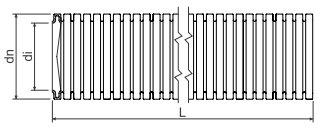


MAT | stable mounting: -40 - +120°C | A1 - F | 30 sec. | 320 N/5 cm | 242440* | HF | UV

PA | flexible mounting: -5 - +120°C

- flexible UV stable halogen-free self-extinguishing pipe made from PA 6
- halogen-free pipes are used on premises where the safety of people and property is primary, e.g.: public buildings, hospitals, schools, theatres, airport halls, shopping centres, etc.

* electrical properties - undeclared




| | dn mm | item | | di min. mm | L m | EAN |
|---|---|---|---|---|---|---|
| EN | 15,8 | **APAFS16_F50** | black | 11,8 | 50 | 8595057656321 |
| | 21,2 | **APAFS21_F50** | black | 16,5 | 50 | 8595057662179 |
| | 28,5 | **APAFS28_F50** | black | 22,6 | 50 | 8595057667266 |
| | 34,5 | **APAFS34_F50** | black | 28,8 | 50 | 8595057658196 |
| | 42,5 | **APACS42_F25** | black | 35,2 | 25 | 8595057667273 |
| | 54,5 | **APACS54_F25** | black | 46,5 | 25 | 8595057651517 |
| | 79,3 | **APACS80_F10** | black | 67,3 | 10 | 8595057667280 |

## Accessories for flexible pipes APAFS / APACS

MAT | stable mounting: -50- +120°C | 30 sec. | IP66 | **black** | HF | UV

PA | flexible mounting: -45 - +120°C

- adaptalok is a system of utilities allowing to terminate and fix the pipe
- utilities allow 45° and 90° tapping and direct threaded termination - M16 - M50 or PG13,5 - PG48
- the pipe termination is available as for flange as well
- installation and removal is easy and quick
- adaptalok is tested in compliance with ČSN EN 61386-24
- there is possible to assemble it into the space of dangerous area 2 at the environment of hazard explosion and inflammable gases and vapors
- **the combination of accessories and pipes is governed by the outer diameter of the pipe used**



**Adaptalok direct flange**



**Adaptalok 90° flange**



**Adaptalok 45° flange**



**Adaptalok termination**

| dn pipe mm | item | EAN | item | EAN | item | EAN | item | EAN |
|---|---|---|---|---|---|---|---|---|
| 16 | **A16FL_FB** | 8595057625495 | **A16FL-90_FB** | 8595057625464 | – | – | **A-ES16_FB** | 8595057625815 |
| 20 | – | – | – | – | – | – | **A-ES20_FB** | 8595057625822 |
| 21 | **A21FL_FB** | 8595057625501 | **A21FL-90_FB** | 8595057625471 | **A21FL-45_FB** | 8595057625532 | – | – |
| 28 | **A28FL_FB** | 8595057625518 | **A28FL-90_FB** | 8595057625488 | **A28FL-45_FB** | 8595057625549 | **A-ES28_FB** | 8595057625839 |
| 32 | – | – | – | – | – | – | **A-ES32_FB** | 8595057625846 |
| 40 | – | – | – | – | – | – | **A-ES40_FB** | 8595057625853 |

material | fire reaction class of underlying material | halogen-free material | classification code according to 61386-1 | color | area with a risk of explosion
temperature resistance | self-extinguishing | mechanical resistance | UV stable | IP protection





| | dn pipe mm | | Adaptalok direct item | Adaptalok direct EAN | Adaptalok 90° item | Adaptalok 90° EAN | Adaptalok 45° item | Adaptalok 45° EAN |
|---|---|---|---|---|---|---|---|---|
| EN | 16 | M16x1,5 | **AM16/16_FB** | 8595057626676 | **AM16/16-90_FB** | 8595057625228 | **AM16/16-45_FB** | 8595057625341 |
| | 20 | M20x1,5 | **AM20/20_FB** | 8595057626133 | – | – | – | – |
| | 21 | M20x1,5 | **AM21/20_FB** | 8595057626683 | **AM21/20-90_FB** | 8595057625235 | **AM21/20-45_FB** | 8595057625358 |
| | 25 | M25x1,5 | **AM25/25_FB** | 8595057626140 | – | – | – | – |
| | 28 | M25x1,5 | **AM28/25_FB** | 8595057626690 | **AM28/25-90_FB** | 8595057625242 | **AM28/25-45_FB** | 8595057625365 |
| | 34 | M32x1,5 | **AM34/32_FB** | 8595057626706 | **AM34/32-90_FB** | 8595057625259 | **AM34/32-45_FB** | 8595057625372 |
| | 42 | M40x1,5 | **AM42/40_FB** | 8595057626713 | **AM42/40-90_FB** | 8595057625266 | **AM42/40-45_FB** | 8595057625389 |
| | 54 | M50x1,5 | **AM54/50_FB** | 8595057625150 | **AM54/50-90_FB** | 8595057625273 | **AM54/50-45_FB** | 8595057625396 |





| | dn pipe mm | | Adaptalok direct item | Adaptalok direct EAN | Adaptalok 90° item | Adaptalok 90° EAN | Adaptalok 45° item | Adaptalok 45° EAN |
|---|---|---|---|---|---|---|---|---|
| ČSN | 16 | PG13,5 | **APG16/13_FB** | 8595057625167 | **APG16/13-90_FB** | 8595057625280 | **APG16/13-45_FB** | 8595057625402 |
| | 21 | PG16 | **APG21/16_FB** | 8595057625174 | **APG21/16-90_FB** | 8595057625297 | **APG21/16-45_FB** | 8595057625419 |
| | 28 | PG21 | **APG28/21_FB** | 8595057625181 | **APG28/21-90_FB** | 8595057625303 | **APG28/21-45_FB** | 8595057625426 |
| | 34 | PG29 | **APG34/29_FB** | 8595057625198 | **APG34/29-90_FB** | 8595057625310 | **APG34/29-45_FB** | 8595057625433 |
| | 42 | PG36 | **APG42/36_FB** | 8595057625204 | **APG42/36-90_FB** | 8595057625327 | **APG42/36-45_FB** | 8595057625440 |
| | 54 | PG48 | **APG54/48_FB** | 8595057625211 | **APG54/48-90_FB** | 8595057625334 | **APG54/48-45_FB** | 8595057625457 |




| | dn pipe mm | | Adaptalok washer item | Adaptalok washer EAN | Adaptalok nut item | Adaptalok nut EAN |
|---|---|---|---|---|---|---|
| EN | 16 | M16x1,5 | **A-SW/M16_FB** | 8595057625686 | The nut is a part of the AM adaptalok package. | |
| | 21 | M20x1,5 | **A-SW/M20_FB** | 8595057625693 | | |
| | 28 | M25x1,5 | **A-SW/M25_FB** | 8595057625709 | | |
| | 34 | M32x1,5 | **A-SW/M32_FB** | 8595057625716 | | |
| | 42 | M40x1,5 | **A-SW/M40_FB** | 8595057625723 | | |
| | 54 | M50x1,5 | **A-SW/M50_FB** | 8595057625730 | | |
| ČSN | 16 | PG13,5 | **A-SW/PG13_FB** | 8595057625747 | **A-LN/PG13_FB** | 8595057625624 |
| | 21 | PG16 | **A-SW/PG16_FB** | 8595057625754 | **A-LN/PG16_FB** | 8595057625631 |
| | 28 | PG21 | **A-SW/PG21_FB** | 8595057625761 | **A-LN/PG21_FB** | 8595057625648 |
| | 34 | PG29 | **A-SW/PG29_FB** | 8595057625778 | **A-LN/PG29_FB** | 8595057625655 |
| | 42 | PG36 | **A-SW/PG36_FB** | 8595057625785 | **A-LN/PG36_FB** | 8595057625662 |
| | 54 | PG48 | **A-SW/PG48_FB** | 8595057625792 | **A-LN/PG48_FB** | 8595057625679 |

thread



# CABLE
# PROTECTION

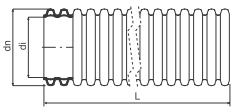
www.kopos.com

# KOPOFLEX® - flexible doublecoat corrugated pipe



| MAT | | | | | IP | HF |
|---|---|---|---|---|---|---|
| HDPE | -55 - +90°C operating temperature | -25- +90°C installation temperature | A1 | 450 N/20 cm | IP40 | |

- halogen-free flexible double-coated pipe designed for mechanical protection of all kinds of power and data wiring
- the pipe protectors are made in compliance with ČSN EN 61386-24
- each coil is equipped with a pull-through blue string and a coupling on one end
- when using a sealing ring, the protection class is IP 67
- in case of mechanical compaction of layers above the protector, take care not to exceed the value of the load capacity of the protector - see catalogue PIPE PROTECTORS
- the product may have common surface mechanical damage (crumpling, scratches, deformations of the ribs) to the outer wall of the pipe caused by production or transport technology, which does not affect the functionality of the product
- necessary accessories on pg. 246




| dn | item | | di min. | | L | | | | EAN |
|---|---|---|---|---|---|---|---|---|---|
| mm | | | mm | mm | m | m | cm | | |
| 40 | KF 09040_AA | orange | 30 | 230 | 50 | 3000 | 64 x 31 | ◷ - min. 3000 m | 8595057619425 |
| | KF 09040_BA | red | | | 50 | 3000 | 64 x 31 | ● | 8595057606333 |
| | KF 09040_BB | red | | | 25 | 3000 | 50 x 27 | ● | 8595568917423 |
| | KF 09040_CA | blue | | | 50 | 3000 | 64 x 31 | ● | 8595057615625 |
| | KF 09040_CB | blue | | | 25 | 3000 | 50 x 27 | ● | 8595057621107 |
| | KF 09040_DA | green | | | 50 | 3000 | 64 x 31 | ◷ - min. 3000 m | 8595057619432 |
| | KF 09040_EA | yellow | | | 50 | 3000 | 64 x 31 | ◷ - min. 3000 m | 8595057608641 |
| | KF 09040_FA | black | | | 50 | 3000 | 64 x 31 | ● | 8595057616226 |
| 50 | KF 09050_BA | red | 37 | 350 | 50 | 1800 | 77 x 33 | ● | 8595057606340 |
| | KF 09050_BB | red | | | 25 | 1500 | 60 x 33 | ● | 8595568917430 |
| | KF 09050_CA | blue | | | 50 | 1800 | 77 x 33 | ● | 8595057655935 |
| | KF 09050_CB | blue | | | 25 | 1500 | 60 x 33 | ● | 8595057655928 |
| | KF 09050_EA | yellow | | | 50 | 1800 | 77 x 33 | ◷ - min. 1800 m | 8595057606357 |
| | KF 09050_FA | black | | | 50 | 1800 | 77 x 33 | ● | 8595057616233 |
| 63 | KF 09063_BA | red | 47 | 350 | 50 | 1500 | 80 x 46 | ● | 8595057643703 |
| | KF 09063_BB | red | | | 25 | 1050 | 70 x 35 | ● | 8595568936431 |
| | KF 09063_CA | blue | | | 50 | 1500 | 80 x 46 | ● | 8595057644977 |
| | KF 09063_FA | black | | | 50 | 1500 | 80 x 46 | ● | 8595057650527 |
| 75 | KF 09075_BA | red | 56 | 350 | 50 | - | 94 x 50 | ● | 8595057643710 |
| | KF 09075_BB | red | | | 25 | 900 | 81 x 38 | ● | 8595568936448 |
| | KF 09075_CA | blue | | | 50 | - | 94 x 50 | ● | 8595057644991 |
| | KF 09075_CB | blue | | | 25 | 900 | 81 x 38 | ● | 8595057645004 |
| | KF 09075_FA | black | | | 50 | - | 94 x 50 | ● | 8595057650534 |
| 90 | KF 09090_AA | orange | 67 | 400 | 50 | - | 113 x 50 | ◷ - min. 1000 m | 8595568918796 |
| | KF 09090_BA | red | | | 50 | - | 113 x 50 | ● | 8595057643727 |
| | KF 09090_BB | red | | | 25 | 150 | 100 x 40 | ● | 8595568936455 |
| | KF 09090_CA | blue | | | 50 | - | 113 x 50 | ● | 8595057650435 |
| | KF 09090_FA | black | | | 50 | - | 113 x 50 | ● | 8595057650442 |
| 110 | KF 09110_BA | red | 82 | 400 | 50 | - | 124 x 60 | ● | 8595057606364 |
| | KF 09110_BB | red | | | 25 | - | 100 x 46 | ● | 8595057692824 |
| | KF 09110_CA | blue | | | 50 | - | 124 x 60 | ● | 8595057615649 |
| | KF 09110_CB | blue | | | 25 | - | 100 x 46 | ● | 8595057655911 |
| | KF 09110_FA | black | | | 50 | - | 124 x 60 | ● | 8595057616240 |
| 125 | KF 09125_BA | red | 94 | 500 | 50 | - | 135 x 62 | ● | 8595057618336 |
| | KF 09125_BB | red | | | 25 | - | 109 X 50 | ● | 8595568937681 |
| | KF 09125_CA | blue | | | 50 | - | 135 x 62 | ● | 8595568937698 |
| | KF 09125_CB | blue | | | 25 | - | 109 X 50 | ● | 8595568937704 |
| | KF 09125_FA | black | | | 50 | - | 135 x 62 | ● | 8595568937407 |
| 160 | KF 09160_BA | red | 120 | 650 | 50 | - | 194 x 58 | ● | 8595057643741 |
| | KF 09160_BB | red | | | 25 | - | 145 x 50 | ● | 8595057647800 |
| | KF 09160_CB | blue | | | 25 | - | 145 x 50 | ● | 8595057647794 |
| | KF 09160_FA | black | | | 50 | - | 194 x 58 | ● | 8595057650565 |
| 200 | KF 09200_BB | red | 150 | 850 | 25 | - | 160 x 60 | ● | 8595568903587 |
| | KF 09200_FB | black | | | 25 | - | 160 x 60 | ● | 8595057688568 |

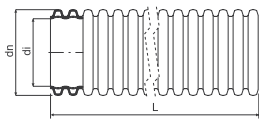
material · fire reaction class of underlying material · IP protection · halogen-free material · color · bending radius
temperature resistance · mechanical resistance · dimension package · package · in stock · standard
◷ to order, delivery time 3 weepcs

## KOPOFLEX® - UV-stable flexible doublecoat corrugated pipe



MAT | HDPE | -55 - +90°C operating temperature | -25- +90°C installation temperature | A1 | 450 N/20 cm | IP40 | HF | UV

- halogen-free UV stable flexible double-coated pipe designed for mechanical protection of all kinds of power and data wiring
- the pipe protectors are made in compliance with ČSN EN 61386-24
- each coil is equipped with a pull-through blue string and a coupling on one end
- when using a sealing ring, the protection class is IP 67
- in case of mechanical compaction of layers above the protector, take care not to exceed the value of the load capacity of the protector - see catalogue PIPE PROTECTORS
- the product may have common surface mechanical damage (crumpling, scratches, deformations of the ribs) to the outer wall of the pipe caused by production or transport technology, which does not affect the functionality of the product




| dn | item | | di min. | L | | | | EAN |
|---|---|---|---|---|---|---|---|---|
| mm | | | mm | mm | m | m | cm | |
| 40 | **KF 09040_UVFA** | ● black | 30 | 230 | 50 | 3000 | 64 x 31 | ● 8595057698147 |
| 50 | **KF 09050_UVFA** | ● black | 37 | 350 | 50 | 1800 | 77 x 33 | ● 8595057698178 |
| 63 | **KF 09063_UVFA** | ● black | 47 | 350 | 50 | 1500 | 80 x 46 | ● 8595057698208 |
| 75 | **KF 09075_UVFA** | ● black | 56 | 350 | 50 | - | 94 x 50 | ● 8595057698338 |
| 90 | **KF 09090_UVFA** | ● black | 67 | 400 | 50 | - | 113 x 50 | ● 8595057698239 |
| 110 | **KF 09110_UVFA** | ● black | 82 | 400 | 50 | - | 124 x 60 | ● 8595057698260 |
| 125 | **KF 09125_UVFA** | ● black | 94 | 500 | 50 | - | 135 x 62 | ● 8595568937414 |
| 160 | **KF 09160_UVFA** | ● black | 120 | 650 | 50 | - | 194 x 58 | ● 8595057698369 |
| 200 | **KF 09200_UVFB** | ● black | 150 | 850 | 25 | - | 160 x 60 | ● 8595568940742 |

ACCESSORIES


**connectors**
pg. 246


**sealing rings**
pg. 246


**closing pugs**
pg. 246

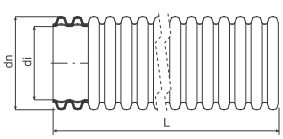

**distance spacers**
pg. 246

## KOPOFLEX® - antistatic and antibacterial halogen-free flexible doublecoat protector



MAT | HDPE | -5 - +60°C | A1 | min. 200N | HF

- antistatic and antibacterial halogen-free flexible doublecoat protector
- both ends are blinded by a closing plug
- the pipe protectors are made in compliance with ČSN EN 61386-24
- pressure test according to ISO 5167-1
- construction technical certificate STO - AO 224 - 990/2019
- the product may have common surface mechanical damage (crumpling, scratches, deformations of the ribs) to the outer wall of the pipe caused by production or transport technology, which does not affect the functionality of the product




| dn | item | | | di min. | L | | | EAN |
|---|---|---|---|---|---|---|---|---|
| mm | | outer | inner | mm | mm | m | cm | |
| 63 | **KF 09063_PLCA** | ● blue | ○ white | 47 | 350 | 50 | 80 x 46 | ● 8595568930958 |
| 75 | **KF 09075_PLCA** | ● blue | ○ white | 56 | 350 | 50 | 94 x 50 | ● 8595568920096 |
| 90 | **KF 09090_PLCA** | ● blue | ○ white | 67 | 400 | 50 | 113 x 50 | ● 8595568930965 |

ACCESSORIES


**sealing rings**
pg. 246


**closing pugs**
pg.246

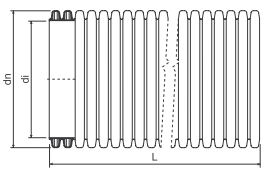
material | fire reaction class of underlying material | IP protection | halogen-free material | color | bending radius
temperature resistance | mechanical resistance | dimension package | package | in stock | standard
UV stable

## KOPODUR® - rigid doublecoat corrugated pipe



MAT HDPE | -55 - +90°C operating temperature | -25- +90°C installation temperatureí | A1 | 450 N/20 cm | IP40 | HF

- halogen-free rigid double-coated pipe designed for mechanical protection of all kinds of power and data wiring
- the pipe protectors are made in compliance with ČSN EN 61386-24
- each coil is equipped with a pull-through blue string and a coupling on one end
- when using a sealing ring, the protection class is IP 67
- in case of mechanical compaction of layers above the protector, take care not to exceed the value of the load capacity of the protector - see catalogue PIPE PROTECTORS
- the product may have common surface mechanical damage (crumpling, scratches, deformations of the ribs) to the outer wall of the pipe caused by production or transport technology, which does not affect the functionality of the product




| dn | item | | di min. | L | | | | EAN |
|---|---|---|---|---|---|---|---|---|
| mm | | | mm | m | m | cm | | |
| 40 | **KD 09040_BC** | red | 30 | 6 | 432 | 45 x 56 x 605 | ◷ - min. 1296 m | 8595057643758 |
| 50 | **KD 09050_BC** | red | 37 | 6 | 360 | 60 x 42 x 605 | ● | 8595057643765 |
| | **KD 09050_CC** | blue | | 6 | 360 | | ● | 8595057650459 |
| | **KD 09050_FC** | black | | 6 | 360 | | ● | 8595057689404 |
| 63 | **KD 09063_BC** | red | 47 | 6 | 312 | 60 x 56 x 605 | ● | 8595057643772 |
| 75 | **KD 09075_BC** | red | 56 | 6 | 312 | 60 x 63 x 607 | ● | 8595057643789 |
| | **KD 09075_CC** | blue | | 6 | 312 | | ● | 8595057650121 |
| 90 | **KD 09090_BC** | red | 67 | 6 | 312 | 71 x 75 x 607 | ● | 8595057643796 |
| 110 | **KD 09110_BC** | red | 82 | 6 | 462 | 107 x 97 x 610 | ● | 8595057606449 |
| | **KD 09110_CC** | blue | | 6 | 216 | 77 x 71 x 610 | ● | 8595057655942 |
| 125 | **KD 09125_BC** | red | 94 | 6 | 318 | 107 x 90 x 610 | ● | 8595057618299 |
| 160 | **KD 09160_BC** | red | 120 | 6 | 198 | 120 x 80 x 610 | ● | 8595057643819 |
| | **KD 09160_CC** | blue | | 6 | 198 | | ● | 8595057647848 |
| | **KD 09160_FC** | black | | 6 | 198 | | ● | 8595057651418 |
| 200 | **KD 09200_BC** | red | 150 | 6 | 162 | 107 x 123 x 615 | ● | 8595057618312 |
| | **KD 09200_FC** | black | | 6 | 162 | | ● | 8595057684041 |

## Accessories for corrugated pipes KOPOFLEX® and KOPODUR®

-55 - +90°C

- **Connectors** - slip-over couplings are the same for both types of pipes and are used to join the pipes
- **Sealing rings** - identical for both types of protectors, they are designed to seal the connection against moisture and water flooding - IP67
- **Closing pugs** - for blinding of backup lines and for temporary blinding of pipes when installing
- **Distance spacers** - for position fixation of several pipes in one excavation. Distance spacers are for fixation 8 pipes and spacer can be split for fixation 2, 4 and 6 pipes



Connectors



Sealing rings



Closing pugs



Distance spacers

| dn trubky | Connectors item | Connectors EAN | Sealing rings item | Sealing rings EAN | Closing pugs item | Closing pugs EAN | Distance spacers item | Distance spacers EAN |
|---|---|---|---|---|---|---|---|---|
| mm | | | | | | | | |
| 40 | **02040_FA** | 8595057612082 | **16040_FB** | 8595057606609 | **17040_BB** | 8595057606661 | – | – |
| 50 | **02050_FA** | 8595057613249 | **16050_FB** | 8595057606616 | **17050_BB** | 8595057606678 | **07050/8_FB** | 8595057615113 |
| 63 | **02063_FA** | 8595057650466 | **16063_FB** | 8595057606623 | **17063_BB** | 8595057606685 | **07063/8_FB** | 8595057626225 |
| 75 | **02075_FA** | 8595057650473 | **16075_FB** | 8595057606630 | **17075_BB** | 8595057606692 | **07075/8_FB** | 8595057622111 |
| 90 | **02090_FA** | 8595057650480 | **16090_FB** | 8595057609167 | **17090_BB** | 8595057609204 | **07090/8_FB** | 8595057658035 |
| 110 | **02110_FA** | 8595057612075 | **16110_FB** | 8595057606647 | **17110_BB** | 8595057606708 | **07110/8_FB** | 8595057610538 |
| 125 | **02125_FA** | 8595568938596 | **16125_FB** | **8595568941619** | **17125_BB** | 8595057606715 | **07125/8_FB** | 8595057635036 |
| 160 | **02160_FA** | 8595057650497 | **16160_FB** | 8595057609044 | **17160_BB** | 8595057609228 | **07160/8_FB** | 8595057635050 |
| 200 | **02200_FA** | 8595568942548 | **16200_FB** | 8595057612181 | **17200_BB** | 8595057610798 | **07200/8_FB** | 8595057658059 |

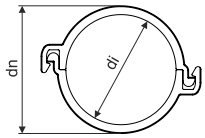
MAT material | fire reaction class of underlying material | IP protection | halogen-free material | color | ● standard
temperature resistance | mechanical resistance | dimension package | package | in stock
◷ to order, delivery time 3 weepcs

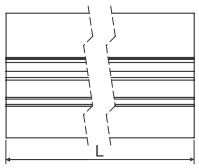
## KOPOHALF® - divided cable duct made of recycled HDPE



MAT HDPE | -55 - +90°C operating temperature | -25- +90°C installation temperature | A1 | 450 N/20 cm | IP30 | HF

- a system of divided cable ducts is suitable mainly for a protection of underground cable laying and for a laying-out of the energy and communication lines
- another possible application is a protection of already installed underground cables
- the protectors consist of two identical parts
- when installing, the cables are put in the bottom part and then the top part is snapped to the bottom one
- connecting of protectors is performed by overlapping joined lower parts with an upper part at length of approximately 30 cm
- the divided cable ducts are manufactured and tested in accordance with standard ČSN EN 61386-24



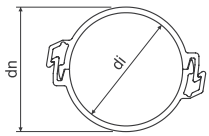

| dn | item | desc. | | di min. | L | | EAN |
|---|---|---|---|---|---|---|---|
| mm | | | | mm | m | m | |
| 58 | **06058/2_BRGA** | in placed position | red | 45 | 3 | 360 | 8595568938589 |

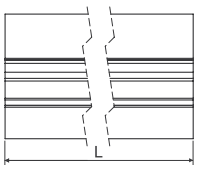
## KOPOHALF® - divided cable duct



MAT HDPE | -55 - +90°C operating temperature | -25- +90°C installation temperature | A1 | 06110/2 - 450 N/20 cm, 06160/2 - 750 N/20 cm | IP30 | HF

- a system of divided cable ducts is suitable mainly for a protection of underground cable laying and for a laying-out of the energy and communication lines
- another possible application is a protection of already installed underground cables
- the protectors consist of two identical parts
- when installing, the cables are put in the bottom part and then the top part is snapped to the bottom one
- connecting of protectors is performed by overlapping joined lower parts with an upper part at length of approximately 30 cm
- the divided cable ducts are manufactured and tested in accordance with standard ČSN EN 61386-24



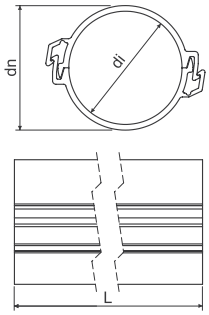

| dn | item | desc. | | di min. | L | | EAN |
|---|---|---|---|---|---|---|---|
| mm | | | | mm | m | m | |
| 110 | **06110/2_BA** | in placed position | red | 97 | 3 | 162 | 8595057651814 |
| | **06110/2_CA** | in placed position | blue | | 3 | 162 | 8595057651821 |
| | **06110/2_FA** | in placed position | black | | 3 | 162 | 8595057688506 |
| 160 | **06160/2_BA** | in placed position | red | 136 | 3 | 72 | 8595057651791 |
| | **06160/2_CA** | in placed position | blue | | 3 | 72 | 8595057651807 |
| | **06160/2_EA** | in placed position | yellow | | 3 | min. 72 | 8595057695931 |

## KOPOHALF® - divided cable duct made of recycled HDPE



MAT | HDPE | -55 - +90°C operating temperature | -25- +90°C installation temperature | A1 | 450 N/20 cm | IP30 | HF

- a system of divided cable ducts is suitable mainly for a protection of underground cable laying and for a laying-out of the energy and communication lines
- inner material - recycled HDPE
- another possible application is a protection of already installed underground cables
- the protectors consist of two identical parts
- when installing, the cables are put in the bottom part and then the top part is snapped to the bottom one
- connecting of protectors is performed by overlapping joined lower parts with an upper part at length of approximately 30 cm
- the divided cable ducts are manufactured and tested in accordance with standard ČSN EN 61386-24



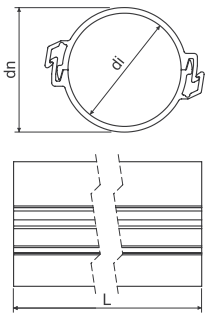

| dn | item | desc. | | di min. | L | | EAN |
|---|---|---|---|---|---|---|---|
| mm | | | | mm | m | m | |
| 110 | **06110/2_BRGA** | in placed position | red | 97 | 3 | 162 | 8595568936905 |
| | **06110/2_CRGA** | in placed position | blue | | 3 | 162 | 8595568936912 |

## KOPOHALF® - divided cable duct made of recycled PVC



MAT | PVC | -5 - +60°C montage | -25- +60°C storage | A1 - F | 30 sec. | 750 N/20 cm | IP30

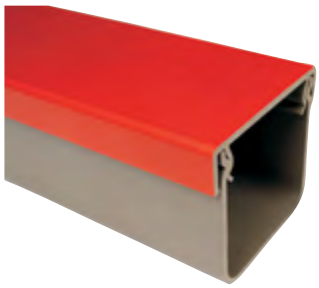
- a system of divided cable ducts is suitable mainly for a protection of underground cable laying and for a laying-out of the energy and communication lines
- another possible application is a protection of already installed underground cables
- the protectors consist of two identical parts
- when installing, the cables are put in the bottom part and then the top part is snapped to the bottom one connecting of protectors is performed by overlapping joined lower parts with an upper part at length of approximately 30 cm
- the divided cable ducts are manufactured and tested in accordance with standard ČSN EN 61386-24




| dn | item | desc. | | di min. | L | | EAN |
|---|---|---|---|---|---|---|---|
| mm | | | | mm | m | m | |
| 110 | **06110P/2_BA** | in placed position | red | 97 | 3 | 162 | 8595568922007 |
| | **06110P/2_CA** | in placed position | blue | | 3 | 162 | 8595568922021 |
| | **06110P/2_EA** | in placed position | yellow | | 3 | 162 | 8595568926890 |
| | **06110P/2_FA** | in placed position | black | | 3 | 162 | 8595568928634 |

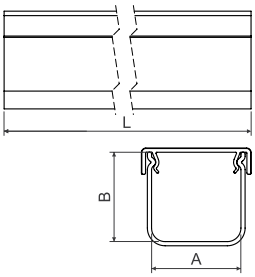
material | fire reaction class of underlying material | IP protection | made of recycled material | package
temperature resistance | mechanical resistance | halogen-free material | color

## KOPOKAN - ground channel



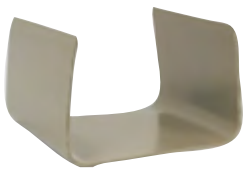
MAT PVC | -5 - +60°C | A1 - F | 30 sec. | IP30

- ground channels are intended for mechanical protection of installation of engineering nets to be loaded under ground
- by its technical parameters those fully replace the earlier used concrete channels
- there is possible to use them for additional protection already installed ground engineering nets
- ground channels are supplied with a colour cover
- connected using connectors and folding the cover over, thus interconnecting the individual parts
- ground channels are manufactured according to ČSN EN 61386-1 and ČSN EN 61386-24



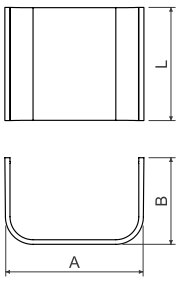

| item | | A min. | B min. | L | | F | EAN |
|---|---|---|---|---|---|---|---|
| | | mm | mm | m | m | N/20 cm | |
| **KOPOKAN 1_CD** | grey body / blue cover | 100 | 100 | 2 | 140 | 750 | 8595568915474 |
| **KOPOKAN 1_ZD** | grey body / red cover | | | 2 | 140 | | 8595568905116 |
| **KOPOKAN 2_CD** | grey body / blue cover | 119 | 97 | 2 | 162 | 750 | 8595568926975 |
| **KOPOKAN 2_ZD** | grey body / red cover | | | 2 | 162 | | 8595568905123 |
| **KOPOKAN 3_ZD** | grey body / red cover | 128 | 140 | 2 | 96 | 750 | 8595568905130 |
| **KOPOKAN 4_CD** | grey body / blue cover | 200 | 127 | 2 | 70 | 250 | 8595568922205 |
| **KOPOKAN 4_ZD** | grey body / red cover | | | 2 | 70 | | 8595568905147 |

## connection for KOPOKAN



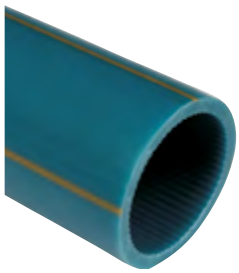
MAT PVC | -5 - +60°C | A1 - F | 30 sec.

- connector is used to connect the ground channels
- it provides a straight direction



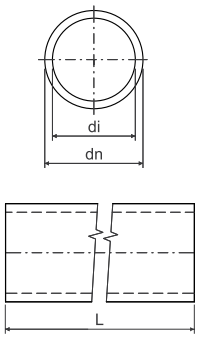

| item | desc. | A | B | L | | EAN |
|---|---|---|---|---|---|---|
| | | mm | mm | mm | pcs | |
| **SPOJKA K1_ZB** | for channel KOPOKAN 1 | 111 | 75 | 100 | 1 | 8595568905154 |
| **SPOJKA K2_ZB** | for channel KOPOKAN 2 | 137 | 80 | 125 | 1 | 8595568905161 |
| **SPOJKA K3_ZB** | for channel KOPOKAN 3 | 149 | 78 | 190 | 1 | 8595568905178 |
| **SPOJKA K4_ZB** | for channel KOPOKAN 4 | 217 | 78 | 125 | 1 | 8595568905185 |

# Optical cable protectors HDPE



MAT HDPE | -5 - +50°C | A1 | F 750 N/20 cm | HF

- single-coated pipes designed to protect cables with optical fibers under the ground
- for larger volumes different color versions (beyond presented versions), labeling, number of differential stripes, denticular inner surface or inner diameter size (material thickness) can be ordered based on customer needs and specifications
- impact resistance: N (normal, ČSN EN 61386-24)
- bend resistance: flexible
- the protectors are tested under pressure of 1,5 MPa for the time of 1 hour
- the packaging on wooden drums and pallets for unwinding drums is delivered just upon previous order according to the customers' specification




| dn mm | item | desc. | | di mm | L m | min. mm | | EAN |
|---|---|---|---|---|---|---|---|---|
| 25 | **06025_FS100** | harness | black | 20 | 100 | 400 | ◷ - min. 1200 m | 8595568903730 |
| | **06025_Pcs100** | harness | light grey | | | | ◷ - min. 1200 m | 8595568903860 |
| 32 | **06032_AS100** | harness | orange | 27 | 100 | 400 | ● | 8595057657328 |
| | **06032_BS100** | harness | red | | 100 | | ● | 8595057656390 |
| | **06032_ES100** | harness | yellow | | 100 | | ● | 8595057656413 |
| | **06032_FB** | drum | black | | 1750 | | ◷ - min. 1750 m | 8595568915573 |
| | **06032_FS100** | harness | black | | 100 | | ● | 8595057665552 |
| | **06032_LS100** | harness | dark grey | | 100 | | ● | 8595057665569 |
| 40 | **06040_AB** | drum | orange | 33 | 1750 | 400 | ◷ - min. 1750 m | 8595057655393 |
| | **06040_AP** | harness - palett | orange | | 2000 | | ◷ - min. 2000 m | 8595057658226 |
| | **06040_AS100** | harness | orange | | 100 | | ● | 8595057655409 |
| | **06040_AS300** | harness | orange | | 300 | | ● | 8595568919540 |
| | **06040_BB** | drum | red | | 1750 | | ◷ - min. 1750 m | 8595057655416 |
| | **06040_BS100** | harness | red | | 100 | | ● | 8595057655423 |
| | **06040_BS300** | harness | red | | 300 | | ● | 8595568903303 |
| | **06040_CB** | drum | blue | | 1750 | | ◷ - min. 1750 m | 8595057655430 |
| | **06040_CS100** | harness | blue | | 100 | | ● | 8595057655447 |
| | **06040_CS300** | harness | blue | | 300 | | ● | 8595568903457 |
| | **06040_DS100** | harness | green | | 100 | | ● | 8595057655461 |
| | **06040_EB** | drum | yellow | | 1750 | | ◷ - min. 1750 m | 8595057655478 |
| | **06040_ES100** | harness | yellow | | 100 | | ● | 8595057655485 |
| | **06040_ES300** | harness | yellow | | 300 | | ◷ - min. 1800 m | 8595568903716 |
| | **06040_FB** | drum | black | | 1750 | | ◷ - min. 1750 m | 8595057655492 |
| | **06040_FS100** | harness | black | | 100 | | ● | 8595057655508 |
| | **06040_Pcs100** | harness | light grey | | 100 | | ● | 8595057655546 |
| | **06040_Pcs1VO** | harness - public lighting | light grey | | 100 | | ● | 8595568927286 |
| | **06040_LB** | drum | dark grey | | 1750 | | ◷ - min. 1750 m | 8595057655553 |
| 50 | **06050_AB** | drum | orange | 44 | 1250 | 500 | ◷ - min. 1250 m | 8595057657298 |
| | **06050_AS100** | harness | orange | | 100 | | ● | 8595057657304 |
| | **06050_BS100** | harness | red | | 100 | | ● | 8595057699540 |
| | **06050_CP** | harness - palett | blue | | 1250 | | min. 1250 m | 8595057689411 |
| | **06050_CS100** | harness | blue | | 100 | | ● | 8595057691070 |
| | **06050_FB** | drum | black | | 1250 | | min. 1250 m | 8595568912558 |
| | **06050_FS100** | harness | black | | 100 | | ● | 8595057665576 |

ACCESSORIES

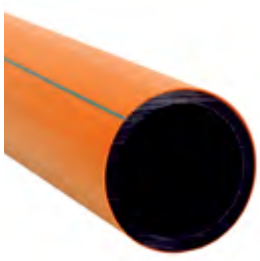

screw connectors
pg. 251


push connectors
pg. 252


fittings
pg. 252

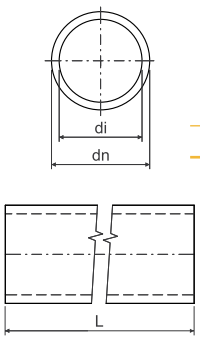
material | fire reaction class of underlying material | halogen-free material | bending radius | in stock | ● standard
temperature resistance | mechanical resistance | color | to order, delivery time 3 weepcs

## Optical cable protectors from recycled HDPE



MAT HDPE | -5 - +50°C | A1 | 750 N/20 cm | HF

- single-coated pipes designed to protect cables with optical fibers under the ground
- inner material - recycled HDPE
- for larger volumes different color versions (beyond presented versions), labeling, number of differential stripes
- impact resistance: N (normal, ČSN EN 61386-24)
- bend resistance: flexible
- the protectors are tested under pressure of 1,5 MPa for the time of 1 hour
- the packaging on wooden drums and pallets for unwinding drums is delivered just upon previous order according to the customers's specification




| dn | item | desc. | | di | L | | | EAN |
|---|---|---|---|---|---|---|---|---|
| mm | | | | mm | m | mm | | |
| 40 | **06040_ARGB** | drum | orange/black ● | 33 | 1750 | 400 | ◷ - min. 1750 m | 8595568930880 |
| | **06040_ARGP** | harness - palett | orange/black ● | | 2000 | | ◷ - min. 2000 m | 8595568941787 |
| | **06040_ARGS1** | harness | orange/black ● | | 100 | | ● | 8595568930897 |
| | **06040_BRGB** | drum | red/black ● | | 1750 | | ◷ - min. 1750 m | 8595568941732 |
| | **06040_CRGB** | drum | blue/black ● | | 1750 | | ◷ - min. 1750 m | 8595568941749 |
| | **06040_CRGS1** | harness | blue/black ● | | 100 | | ● | 8595568932457 |

## Screw connectors for optical cable protectors



MAT PP | -5 - +50°C | A1

- the connector is designed to join HDPE optic cable protector when routing and ensures a perfect connection
- PN16 pressure line

| dn pipe | item | | | EAN |
|---|---|---|---|---|
| mm | | | pcs | |
| 25 | **05025_KB** | blue | 1 | 8595568905451 |
| 32 | **05030_KB** | blue | 1 | 8595057657335 |
| 40 | **05040_KB** | blue | 1 | 8595057606821 |
| 50 | **05050_KB** | blue | 1 | 8595057651579 |

material | fire reaction class of underlying material | halogen-free material | bending radius | in stock | ● standard
temperature resistance | mechanical resistance | color | package | to order, delivery time 3 weepcs
made of recycled material

## Push connectors for optical cable protectors



MAT PP | -5 - +50°C | A1

- the connector is designed to join HDPE optic cable protector when routing and ensures a perfect connection
- the pipe is pushed onto the connector
- PN16 pressure line

| dn pipe mm | item | | pcs | EAN |
|---|---|---|---|---|
| 32 | **05033_KB** | grey | 1 | 8595057657694 |
| 40 | **05043_KB** | grey | 1 | 8595057657700 |
| 50 | **05053_KB** | grey | 1 | 8595057657717 |

## Fittings for optical cable protectors



MAT PP | -5 - +50°C | A1

- the fitting is used to end the routing
- PN16 pressure line

| dn pipe mm | item | | pcs | EAN |
|---|---|---|---|---|
| 25 | **05024_KB** | blue | 1 | 8595568905468 |
| 32 | **05031_KB** | blue | 1 | 8595057657342 |
| 40 | **05041_KB** | blue | 1 | 8595057629271 |
| 50 | **05051_KB** | blue | 1 | 8595057651586 |



# STEEL PIPES

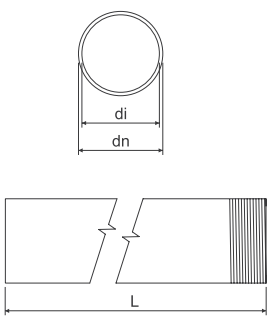
www.kopos.com

# ČSN steel threaded pipes - high mechanical resistance



MAT steel | -60 - +250°C | 1250 N/5 cm | 1 44561 | E 90 | IK IK10

- the pipes are suitable for mechanical protection of conductors and cables
- threaded conduits are supplied with one coupler
- while using pipes along with bushing 4813/P - 4842/P and 4913 - 4942 is scope of application only -5 - +60 °C
- unvarnished: without surface finish, without corrosion resistance, suitable mostly for construction purposes
- ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2
- varnished: Sendzimir galvanized steel finished with powder technology, color black, medium corrosive resistance - g. 2
- ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 µm, high corrosion resistance - g. 4
- the pipes are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)




| dn | item | desc. | di min. | | | L | | EAN |
|---|---|---|---|---|---|---|---|---|
| mm | | | mm | mm | | m | m | |
| **UNVARNISHED** | | | | | | | | |
| 20,4 | **6013 N_XX** | withnout surface finish | 18,2 | 1,1 | P13,5 | 3 | 30; 1200 | 8595057607491 |
| 22,5 | **6016 N_XX** | | 20,3 | 1,1 | P16 | 3 | 30; 1200 | 8595057607507 |
| 28,3 | **6021 N_XX** | | 25,7 | 1,3 | P21 | 3 | 30; 750 | 8595057607514 |
| 37 | **6029 N_XX** | | 34,4 | 1,3 | P29 | 3 | 15; 450 | 8595057607521 |
| 47 | **6036 N_XX** | | 44 | 1,5 | P36 | 3 | 15; 300 | 8595057607538 |
| 54 | **6042 N_XX** | | 51 | 1,5 | P42 | 3 | 15; 225 | 8595057607545 |
| **ZNM** | | | | | | | | |
| 20,4 | **6013 ZNM_S** | Sendzimir galvanized | 18,2 | 1,1 | P13,5 | 3 | 30; 1200 | 8595057627208 |
| 22,5 | **6016 ZNM_S** | | 20,3 | 1,1 | P16 | 3 | 30; 1200 | 8595057626157 |
| 28,3 | **6021 ZNM_S** | | 25,7 | 1,3 | P21 | 3 | 30; 750 | 8595057626164 |
| 37 | **6029 ZNM_S** | | 34,4 | 1,3 | P29 | 3 | 15; 450 | 8595057626171 |
| 47 | **6036 ZNM_S** | | 44 | 1,5 | P36 | 3 | 15; 300 | 8595057626188 |
| 54 | **6042 ZNM_S** | | 51 | 1,5 | P42 | 3 | 15; 225 | 8595057626195 |
| **VARNISHED** | | | | | | | | |
| 20,4 | **6013_EOZ** | Sendzimir galvanized steel circumferentially painted black using powder tech-nology | 18,2 | 1,1 | P13,5 | 3 | 30; 1200 | 8595057618657 |
| 22,5 | **6016_EOZ** | | 20,3 | 1,1 | P16 | 3 | 30; 1200 | 8595057618664 |
| 28,3 | **6021_EOZ** | | 25,7 | 1,3 | P21 | 3 | 30; 750 | 8595057618671 |
| 37 | **6029_EOZ** | | 34,4 | 1,3 | P29 | 3 | 15; 450 | 8595057618688 |
| 47 | **6036_EOZ** | | 44 | 1,5 | P36 | 3 | 15; 300 | 8595057618695 |
| 54 | **6042_EOZ** | | 51 | 1,5 | P42 | 3 | 15; 225 | 8595057618701 |
| **ZN** | | | | | | | | |
| 20,4 | **6013 ZN_F** | hot-dip galvanized | 18,2 | 1,1 | P13,5 | 3 | 30; 1200 | 8595057618718 |
| 22,5 | **6016 ZN_F** | | 20,3 | 1,1 | P16 | 3 | 30; 1200 | 8595057618725 |
| 28,3 | **6021 ZN_F** | | 25,7 | 1,3 | P21 | 3 | 30; 750 | 8595057618732 |
| 37 | **6029 ZN_F** | | 34,4 | 1,3 | P29 | 3 | 15; 450 | 8595057618749 |
| 47 | **6036 ZN_F** | | 44 | 1,5 | P36 | 3 | 15; 300 | 8595057618756 |
| 54 | **6042 ZN_F** | | 51 | 1,5 | P42 | 3 | 15; 225 | 8595057618763 |

ACCESSORIES


**connectors** pg. 255


**clamps** pg.257

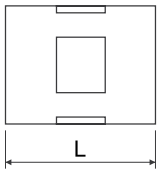

**elbows** pg. 255


**straight glands** pg.258

material | classification code according to 61386-1 | functionality during a fire | sheet metal thickness | package
temperature resistance | mechanical resistance | thread | mechanical protection

## Connectors for steel threaded ČSN pipes






MAT IK

AL IK10

- the connectors are designed to join steel pipes and elbows for mechanical protection of cables or wires

| item | L | | | EAN |
|---|---|---|---|---|
| | mm | inner | pcs | |
| **313/1_XX** | 30 | P13,5 | 10; 540 | 8595057604865 |
| **316/1_XX** | 35 | P16 | 10; 350 | 8595057604872 |
| **321/1_XX** | 40 | P21 | 10; 240 | 8595057604889 |
| **329/1_XX** | 45 | P29 | 10; 120 | 8595057604896 |
| **336/1_XX** | 55 | P36 | 10; 60 | 8595057604902 |
| **342/1_XX** | 60 | P42 | 10; 100 | 8595057604919 |

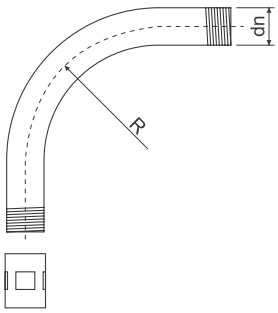
## Elbows for ČSN steel threaded pipes - high mechanical resistance



MAT F 1 E 90 IK

steel -60 - +250°C 1250 N/5 cm 44561 IK10

- elbows are fitted with a connector on one side
- ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2.
- varnished: Sendzimir galvanized steel finished with powder technology, color black, medium corrosive resistance - g. 2
- ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 µm, high corrosion resistance - g. 4
- elbows are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)



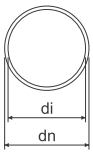

| dn | item | desc. | | R | | EAN |
|---|---|---|---|---|---|---|
| mm | | | | mm | pcs | |
| | | | **ZNM** | | | |
| 20,4 | **6113 ZNM_S** | pozinkovaná steel Sendzimir | P13,5 | 80 | 1; 25 | 8595057627277 |
| 22,5 | **6116 ZNM_S** | | P16 | 100 | 1; 25 | 8595057627284 |
| 28,3 | **6121 ZNM_S** | | P21 | 120 | 1; 20 | 8595057627291 |
| 37 | **6129 ZNM_S** | | P29 | 155 | 1; 20 | 8595057627307 |
| 47 | **6136 ZNM_S** | | P36 | 185 | 1; 5 | 8595057627314 |
| 54 | **6142 ZNM_S** | | P42 | 200 | 1; 5 | 8595057627321 |
| | | | **VARNISHED** | | | |
| 20,4 | **6113_EOZ** | Sendzimir galvanized steel circumferentially painted black using powder technology | P13,5 | 80 | 1; 25 | 8595057618893 |
| 22,5 | **6116_EOZ** | | P16 | 100 | 1; 25 | 8595057618909 |
| 28,3 | **6121_EOZ** | | P21 | 120 | 1; 20 | 8595057618916 |
| 37 | **6129_EOZ** | | P29 | 155 | 1; 20 | 8595057618923 |
| 47 | **6136_EOZ** | | P36 | 185 | 1; 5 | 8595057618930 |
| 54 | **6142_EOZ** | | P42 | 200 | 1; 5 | 8595057618947 |
| | | | **ZN** | | | |
| 20,4 | **6113 ZN_F** | hot-dip galvanized | P13,5 | 80 | 1; 25 | 8595057618954 |
| 22,5 | **6116 ZN_F** | | P16 | 100 | 1; 25 | 8595057618961 |
| 28,3 | **6121 ZN_F** | | P21 | 120 | 1; 20 | 8595057618978 |
| 37 | **6129 ZN_F** | | P29 | 155 | 1; 20 | 8595057618985 |
| 47 | **6136 ZN_F** | | P36 | 185 | 1; 5 | 8595057618992 |
| 54 | **6142 ZN_F** | | P42 | 200 | 1; 5 | 8595057619005 |

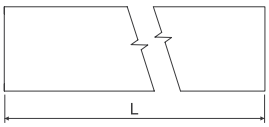
## ČSN steel unthreaded pipes - high mechanical resistance



MAT steel | -60 - +250°C | F 1250 N/5 cm | 1 44561 | E 90 | IK IK10

- the pipes are suitable for mechanical protection of conductors and cables
- while using pipes along with bushing 4813/P - 4842/P and 4913 - 4942 is scope of application only -5 - +60 °C
- unvarnished: without surface finish, without corrosion resistance, suitable mostly for construction purposesy
- ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2
- ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 µm, high corrosion resistance - g. 4




| dn | item | desc. | di min. | | L | | EAN |
|---|---|---|---|---|---|---|---|
| mm | | | mm | mm | m | m | |
| **UNVARNISHED** | | | | | | | |
| 22,5 | **6216 N_XX** | withnout surface finish | 20,3 | 1,1 | 3 | 1200 | 8595057607583 |
| 28,3 | **6221 N_XX** | | 25,7 | 1,3 | 3 | 750 | 8595057607613 |
| 37 | **6229 N_XX** | | 34,4 | 1,3 | 3 | 450 | 8595057607644 |
| 47 | **6236 N_XX** | | 44 | 1,5 | 3 | 300 | 8595057607675 |
| 54 | **6242 N_XX** | | 51 | 1,5 | 3 | 225 | 8595057607705 |
| **ZNM** | | | | | | | |
| 20,4 | **6213 ZNM_S** | pozinkovaná steel Sendzimir | 18,2 | 1,1 | 3 | 30; 1200 | 8595057607576 |
| 22,5 | **6216 ZNM_S** | | 20,3 | 1,1 | 3 | 30; 1200 | 8595057607606 |
| 28,3 | **6221 ZNM_S** | | 25,7 | 1,3 | 3 | 30; 750 | 8595057607637 |
| 37 | **6229 ZNM_S** | | 34,4 | 1,3 | 3 | 15; 450 | 8595057607668 |
| 47 | **6236 ZNM_S** | | 44 | 1,5 | 3 | 15; 300 | 8595057607699 |
| 54 | **6242 ZNM_S** | | 51 | 1,5 | 3 | 15; 225 | 8595057607729 |
| **ZN** | | | | | | | |
| 20,4 | **6213 ZN_F** | hot-dip galvanized | 18,2 | 1,1 | 3 | 30; 1200 | 8595057698390 |
| 22,5 | **6216 ZN_F** | | 20,3 | 1,1 | 3 | 30; 1200 | 8595057698406 |
| 28,3 | **6221 ZN_F** | | 25,7 | 1,3 | 3 | 30; 750 | 8595057698413 |
| 37 | **6229 ZN_F** | | 34,4 | 1,3 | 3 | 15; 450 | 8595057698420 |
| 47 | **6236 ZN_F** | | 44 | 1,5 | 3 | 15; 300 | 8595057698437 |
| 54 | **6242 ZN_F** | | 51 | 1,5 | 3 | 15; 225 | 8595057698444 |

ACCESSORIES



**connectors** pg. 256



**clamps** apg. 257



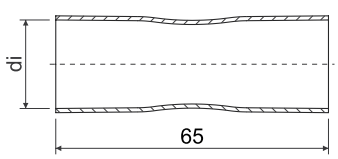
**straight glands** pg. 258

## Slide-on connectors for ČSN steel pipes



MAT steel | IK IK10

- the connectors are designed to join steel pipes for mechanical protection of cables or wires
- both ends are fitted with sockets
- the connectors are manufactured from strip steel by welding




| dn pipe | item | desc. | di | | EAN |
|---|---|---|---|---|---|
| mm | | | mm | pcs | |
| 20,4 | **313/2_XX** | ZNCR | 20,9 | 10; 300 | 8595057620094 |
| 22,5 | **316/2_XX** | | 23,1 | 10; 260 | 8595057620100 |
| 28,3 | **321/2_XX** | | 28,8 | 10; 150 | 8595057620117 |
| 37,0 | **329/2_XX** | | 37,5 | 10; 100 | 8595057620124 |
| 47,0 | **336/2_XX** | | 47,5 | 10; 50 | 8595057620131 |
| 54,0 | **342/2_XX** | | 54,6 | 10; 100 | 8595057620148 |

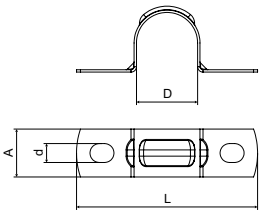
material | classification code according to 61386-1 | functionality during a fire | sheet metal thickness | package
temperature resistance | mechanical resistance | mechanical protection

## Double-sided clamps for ČSN steel pipes



MAT steel | 25 3456210

- the clamps are designed to attach ČSN steel pipes to the pad



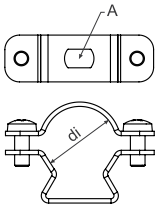

| item | desc. | D | L | A | | d | | EAN |
|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | mm | mm | pcs | |
| **5213 PC_S** | Sendzimir galvanized | 20,4 | 60,5 | 16 | 0,8 | 6,3 | 100; 600 | 8595057605008 |
| **5216 PC_S** | | 22,5 | 62,5 | | | | 100; 600 | 8595057605015 |
| **5221 PC_S** | | 28,3 | 69,5 | | 1,2 | | 100; 400 | 8595057605022 |
| **5229 PC_S** | | 37 | 78,0 | | | | 50; 300 | 8595057605039 |
| **5236 PC_S** | | 47 | 88,0 | | | | 50; 200 | 8595057605046 |
| **5242 PC_S** | | 54 | 95,0 | | | | 50; 150 | 8595057605053 |

## OMEGA clamps for ČSN steel pipes



MAT steel | -60 - +250°C | 25 3456210 | E 90 | IK IK09

- the clamps are designed to attach ČSN steel pipes to the pad
- clamps are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)



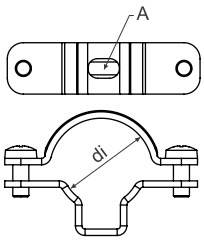

| dn pipe | item | desc. | A | di | | EAN |
|---|---|---|---|---|---|---|
| mm | | | mm | mm | pcs | |
| 20,4; 22,5 | **5220 ZNM_S** | Sendzimir galvanized | 6,5x10 | 19 - 23 | 1; 100 | 8595057692091 |
| 28,3 | **5225 ZNM_S** | | | 24 - 28 | 1; 50 | 8595057692107 |
| 37 | **5232 ZNM_S** | | | 30 - 40 | 1; 50 | 8595057692114 |
| 47 | **5250 ZNM_S** | | 6,5x14 | 39 - 52 | 1; 25 | 8595057692138 |
| 54 | **5263 ZNM_S** | | | 53 - 63 | 1; 25 | 8595057692145 |

## OMEGA clamps for ČSN steel pipes



MAT steel | -60 - +250°C | 25 3456410 | E 90 | IK IK09

- the clamps are designed to attach ČSN steel pipes to the pad
- clamps are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)



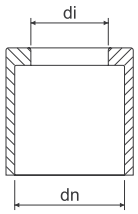

| dn pipe | item | desc. | A | di | | EAN |
|---|---|---|---|---|---|---|
| mm | | | mm | mm | pcs | |
| 20,4; 22,5 | **5220 ZN_F** | hot-dip galvanized | 6,4 x 10 | 19 - 24 | 1; 50 | 8595568915276 |
| 28,3 | **5225 ZN_F** | | | 24 - 29 | 1; 50 | 8595568915283 |
| 37 | **5232 ZN_F** | | | 29 - 38 | 1; 25 | 8595568915290 |
| 47 | **5240 ZN_F** | | | 38 - 47 | 1; 20 | 8595568915306 |
| 54 | **5250 ZN_F** | | | 47 - 55 | 1; 20 | 8595568915313 |

## Straight gland for ČSN steel pipes - external



MAT | PE | -5 - +60°C | 30 sec.

- the glands are designed to mechanically protect the conductors or cables coming from the steel pipe
- plug the gland from outside on the end of pipe before installing cables



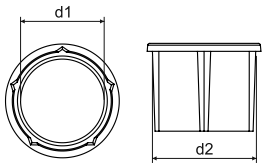

| dn pipe | item | di | | EAN |
|---|---|---|---|---|
| mm | | mm | pcs | |
| 20,4 | **4813/P_KB** | 15 | 100; 2400 | 8595057604926 |
| 22,5 | **4816/P_KB** | 16 | 100; 1200 | 8595057604933 |
| 28,3 | **4821/P_KB** | 22 | 100; 1000 | 8595057604940 |
| 37 | **4829/P_KB** | 30 | 100; 400 | 8595057604971 |
| 47 | **4836/P_KB** | 37 | 100; 300 | 8595057604988 |
| 54 | **4842/P_KB** | 42 | 75; 150 | 8595057604995 |

## Straight gland for ČSN steel pipes - inner



MAT | PE | -5 - +60°C | 30 sec.

- the glands are designed to mechanically protect the conductors or cables coming from the steel pipe
- plug the gland from intside on the end of pipe before installing cables



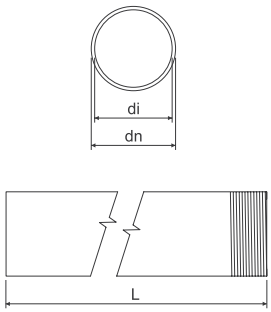

| item | d1 | d2 | | EAN |
|---|---|---|---|---|
| | mm | mm | pcs | |
| **4913_XX** | 13,5 | 17 | 100; 2500 | 8595057657236 |
| **4916_XX** | 15,6 | 18,6 | 100; 2000 | 8595057657243 |
| **4921_XX** | 20,6 | 24 | 100; 1200 | 8595057657250 |
| **4929_XX** | 29,4 | 32,6 | 100; 700 | 8595057657267 |
| **4936_XX** | 38,6 | 41,8 | 80; 400 | 8595057657274 |
| **4942_XX** | 45,5 | 48,6 | 60; 360 | 8595057657281 |

# EN steel threaded pipes - very high mechanical resistance



MAT steel | -45 - +250°C | 4000 N/5 cm | 55561 | E 90 | IK10

- the pipes are suitable for mechanical protection of conductors and cables
- while using pipes along with bushing 4816E - 4863 is scope of application only -5 - +60 °C
- ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2
- varnished ECZ: smooth steel material to be varnished by both sides black colour, medium corrosive resistance - g. 2
- varnished EOZ: Sendzimir galvanized steel finished with powder technology, color black, medium corrosive resistance - g. 2
- ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 µm, high corrosion resistance - g.
- the pipes are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)




| dn | item | desc. | di min. | | | L | | EAN |
|---|---|---|---|---|---|---|---|---|
| mm | | | mm | mm | | m | m | |
| | | | **ZNM** | | | | | |
| 20 | **6020 ZNM_S** | Sendzimir galvanized | 15,8 | 1,5 | M20x1,5 | 3 | 30; 1200 | 8595568919601 |
| 25 | **6025 ZNM_S** | | 20,6 | 1,5 | M25x1,5 | 3 | 30; 600 | 8595568920393 |
| 32 | **6032 ZNM_S** | | 26,6 | 1,5 | M32x1,5 | 3 | 21; 420 | 8595568922342 |
| 40 | **6040 ZNM_S** | | 34,4 | 1,5 | M40x1,5 | 3 | 15; 450 | 8595568923752 |
| | | | **VARNISHED** | | | | | |
| 16 | **6016E_ECZ** | painted in black on both sides | 12,2 | 1,4 | M16x1,5 | 3 | 30; 1200 | 8595057634152 |
| 20 | **6020_EOZ** | painted in black circumferentially | 15,8 | 1,5 | M20x1,5 | 3 | 30; 1200 | 8595568919595 |
| 25 | **6025_EOZ** | | 20,6 | 1,5 | M25x1,5 | 3 | 30; 600 | 8595568920379 |
| 32 | **6032_EOZ** | | 26,6 | 1,5 | M32x1,5 | 3 | 21; 420 | 8595568922366 |
| 40 | **6040_EOZ** | | 34,4 | 1,5 | M40x1,5 | 3 | 15; 450 | 8595568923769 |
| 50 | **6050_ECZ** | painted in black on both sides | 43,8 | 1,6 | M50x1,5 | 3 | 15; 300 | 8595057634206 |
| 63 | **6063_ECZ** | | 58,8 | 1,8 | M63x1,5 | 3 | 15; 150 | 8595057634213 |
| | | | **ZN** | | | | | |
| 16 | **6016E ZN_F** | hot-dip galvanized | 12,2 | 1,4 | M16x1,5 | 3 | 30; 1200 | 8595057631304 |
| 20 | **6020 ZN_F** | | 15,8 | 1,5 | M20x1,5 | 3 | 30; 1200 | 8595057631311 |
| 25 | **6025 ZN_F** | | 20,6 | 1,5 | M25x1,5 | 3 | 30; 600 | 8595057631328 |
| 32 | **6032 ZN_F** | | 26,6 | 1,5 | M32x1,5 | 3 | 21; 420 | 8595057631335 |
| 40 | **6040 ZN_F** | | 34,4 | 1,5 | M40x1,5 | 3 | 15; 450 | 8595057631342 |
| 50 | **6050 ZN_F** | | 43,8 | 1,6 | M50x1,5 | 3 | 15; 300 | 8595057631359 |
| 63 | **6063 ZN_F** | | 58,8 | 1,8 | M63x1,5 | 3 | 15; 150 | 8595057631595 |

ACCESSORIES


**connectors** pg. 260


**clamps** apg.263


**elbows** pg. 260


**straight glands** pg. 264

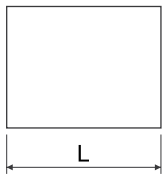
material | mechanical resistance | functionality during a fire | sheet metal thickness | package
temperature resistance | classification code according to 61386-1 | mechanical protection | thread

## Connectors for steel threaded EN pipes



MAT steel | -45 - +250°C | E 90 | IK IK10

- the connectors are designed to join steel pipes and elbows for mechanical protection of cables or wires



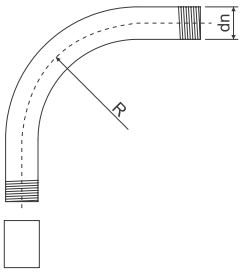

| item | desc. | L mm | | pcs | EAN |
|---|---|---|---|---|---|
| **VARNISHED** | | | | | |
| **316E/1_ECZ** | painted in black on both sides | 30 | M16x1,5 | 1; 25 | 8595057634640 |
| **320/1_ECZ** | | 30 | M20x1,5 | 1; 50 | 8595057634657 |
| **325/1_ECZ** | | 36 | M25x1,5 | 1; 50 | 8595057634664 |
| **332/1_ECZ** | | 45 | M32x1,5 | 1; 50 | 8595057634671 |
| **340/1_ECZ** | | 48 | M40x1,5 | 1; 25 | 8595057634688 |
| **350/1_ECZ** | | 70 | M50x1,5 | 1; 10 | 8595057634695 |
| **363/1_ECZ** | | 105 | M63x1,5 | 1; 5 | 8595057634701 |
| **Zn-Ni** | | | | | |
| **316E/1 ZN_F** | zinc - nickel coating | 30 | M16x1,5 | 1; 50 | 8595057634572 |
| **320/1 ZN_F** | | 30 | M20x1,5 | 1; 50 | 8595057634589 |
| **325/1 ZN_F** | | 36 | M25x1,5 | 1; 50 | 8595057634596 |
| **332/1 ZN_F** | | 45 | M32x1,5 | 1; 50 | 8595057634602 |
| **340/1 ZN_F** | | 48 | M40x1,5 | 1; 25 | 8595057634619 |
| **350/1 ZN_F** | | 70 | M50x1,5 | 1; 10 | 8595057634626 |
| **363/1 ZN_F** | | 105 | M63x1,5 | 1; 5 | 8595057634633 |

## Elbows for EN steel threaded pipes - very high mechanical resistance



MAT steel | -45 - +250°C | F 4000 N/5 cm | 1 55561 | E 90 | IK IK10

- elbows are fitted with a connector on one side
- varnished: smooth steel material to be varnished by both sides black colour, medium corrosive resistance - g. 2
- ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 µm, high corrosion resistance - g. 4.
- elbows are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)



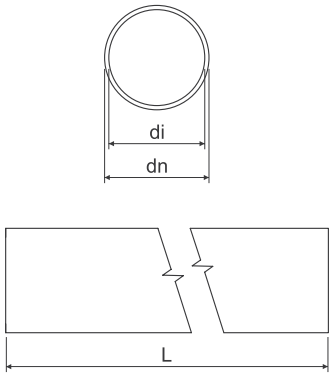

| item | desc. | dn mm | | R mm | pcs | EAN |
|---|---|---|---|---|---|---|
| **VARNISHED** | | | | | | |
| **6116E_ECZ** | steel, painted in black on both sides | 16 | M16x1,5 | 55 | 1; 15 | 8595057634367 |
| **6120_ECZ** | | 20 | M20x1,5 | 70 | 1; 25 | 8595057634374 |
| **6125_ECZ** | | 25 | M25x1,5 | 115 | 1; 25 | 8595057634381 |
| **6132_ECZ** | | 32 | M32x1,5 | 125 | 1; 20 | 8595057634398 |
| **6140_ECZ** | | 40 | M40x1,5 | 140 | 1; 15 | 8595057634404 |
| **6150_ECZ** | | 50 | M50x1,5 | 170 | 1; 5 | 8595057634411 |
| **6163_ECZ** | | 63 | M63x1,5 | 210 | 1; 3 | 8595057634428 |
| **ZN** | | | | | | |
| **6116E ZN_F** | hot-dip galvanized | 16 | M16x1,5 | 55 | 1; 15 | 8595057631366 |
| **6120 ZN_F** | | 20 | M20x1,5 | 70 | 1; 25 | 8595057631373 |
| **6125 ZN_F** | | 25 | M25x1,5 | 115 | 1; 25 | 8595057631380 |
| **6132 ZN_F** | | 32 | M32x1,5 | 125 | 1; 20 | 8595057631397 |
| **6140 ZN_F** | | 40 | M40x1,5 | 140 | 1; 15 | 8595057631403 |
| **6150 ZN_F** | | 50 | M50x1,5 | 170 | 1; 5 | 8595057631410 |
| **6163 ZN_F** | | 63 | M63x1,5 | 210 | 1; 3 | 8595057631670 |

# EN steel unthreaded pipes - high mechanical resistance



MAT steel | -45 - +250°C | F 1250 N/5 cm | 1 44561 | IK IK10

- the pipes are suitable for mechanical protection of conductors and cables
- while using pipes along with bushing 4816E - 4863 is scope of application only -5 - +60 °C
- ZNM: Sendzimir galvanized, zinc layer 15 - 27 µm, replaces shop primer, medium corrosive resistance - g. 2
- varnished ECZ: smooth steel material to be varnished by both sides black colour, medium corrosive resistance - g. 2
- varnished EOZ: Sendzimir galvanized steel finished with powder technology, color black, medium corrosive resistance - g. 2
- ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 µm, high corrosion resistance - g. 4




| dn | item | desc. | di min. | | L | | EAN |
|---|---|---|---|---|---|---|---|
| mm | | | mm | mm | m | m | |
| | | | **ZNM** | | | | |
| 20 | **6220 ZNM_S** | Sendzimir galvanized | 15,8 | 1,0 | 3 | 30; 1200 | 8595568919625 |
| 25 | **6225 ZNM_S** | | 20,6 | 1,2 | 3 | 30; 600 | 8595568920409 |
| 32 | **6232 ZNM_S** | | 26,6 | 1,2 | 3 | 21; 420 | 8595568922359 |
| 40 | **6240 ZNM_S** | | 34,4 | 1,2 | 3 | 15; 450 | 8595568923745 |
| | | | **VARNISHED** | | | | |
| 16 | **6216E_ECZ** | painted in black on both sides | 12,2 | 1,0 | 3 | 30; 1200 | 8595057634299 |
| 20 | **6220_EOZ** | unpainted in black circumferentially | 15,8 | 1,0 | 3 | 30; 1200 | 8595568919618 |
| 25 | **6225_EOZ** | | 20,6 | 1,2 | 3 | 30; 600 | 8595568920386 |
| 32 | **6232_EOZ** | | 26,6 | 1,2 | 3 | 21; 420 | 8595568922373 |
| 40 | **6240_EOZ** | | 34,4 | 1,2 | 3 | 15; 450 | 8595568923776 |
| 50 | **6250_ECZ** | painted in black on both sides | 43,8 | 1,2 | 3 | 15; 300 | 8595057634343 |
| 63 | **6263_ECZ** | | 58,8 | 1,2 | 3 | 15; 150 | 8595057634350 |
| | | | **ZN** | | | | |
| 16 | **6216E ZN_F** | hot-dip galvanized | 12,2 | 1,0 | 3 | 30; 1200 | 8595057634220 |
| 20 | **6220 ZN_F** | | 15,8 | 1,0 | 3 | 30; 1200 | 8595057634237 |
| 25 | **6225 ZN_F** | | 20,6 | 1,2 | 3 | 30; 600 | 8595057634244 |
| 32 | **6232 ZN_F** | | 26,6 | 1,2 | 3 | 21; 420 | 8595057634251 |
| 40 | **6240 ZN_F** | | 34,4 | 1,2 | 3 | 15; 450 | 8595057634268 |
| 50 | **6250 ZN_F** | | 43,8 | 1,2 | 3 | 15; 300 | 8595057634275 |
| 63 | **6263 ZN_F** | | 58,8 | 1,2 | 3 | 15; 150 | 8595057634282 |

ACCESSORIES



connectors pg. 262 | clamps pg. 263 | elbows pg. 262 | straight glands pg. 264

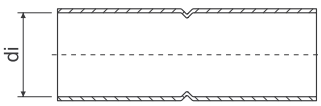
material | mechanical resistance | sheet metal thickness | package
temperature resistance | classification code according to 61386-1 | mechanical protection

## Slide-on connectors for EN steel pipes



MAT steel | IK IK10

- the connectors are designed to join steel pipes and elbows for mechanical protection of cables or wires
- both ends are fitted with sockets
- the connectors are manufactured from strip steel by welding



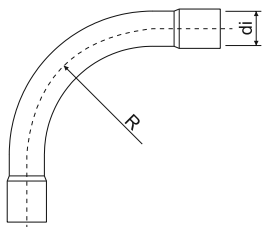

| item | desc. | di mm | pcs | EAN |
|---|---|---|---|---|
| **VARNISHED** | | | | |
| **316E/2_ECZ** | painted in black on both sides | 16 | 1; 25 | 8595057631427 |
| **320/2_ECZ** | | 20 | 1; 50 | 8595057631434 |
| **325/2_ECZ** | | 25 | 1; 50 | 8595057631441 |
| **332/2_ECZ** | | 32 | 1; 50 | 8595057631458 |
| **340/2_ECZ** | | 40 | 1; 25 | 8595057631465 |
| **350/2_ECZ** | | 50 | 1; 10 | 8595057631472 |
| **363/2_ECZ** | | 63 | 1; 5 | 8595057631588 |
| **ZN** | | | | |
| **316E/2 ZN_F** | hot-dip galvanized or zinc - nickel coating | 16 | 1; 25 | 8595057634718 |
| **320/2 ZN_F** | | 20 | 1; 50 | 8595057634725 |
| **325/2 ZN_F** | | 25 | 1; 50 | 8595057634732 |
| **332/2 ZN_F** | | 32 | 1; 50 | 8595057634749 |
| **340/2 ZN_F** | | 40 | 1; 25 | 8595057634756 |
| **350/2 ZN_F** | | 50 | 1; 10 | 8595057634763 |
| **363/2 ZN_F** | | 63 | 1; 5 | 8595057634770 |

## Elbows for EN steel unthreaded pipes - high mechanical resistance



MAT steel | -45 - +250°C | F 1250 N/5 cm | 1 44561 | IK IK10

- elbows ends are fitted with sockets
- varnished: smooth steel material to be varnished by both sides black colour, medium corrosive resistance - g. 2
- ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 µm, high corrosion resistance - g. 4.




| item | desc. | di mm | R mm | pcs | EAN |
|---|---|---|---|---|---|
| **VARNISHED** | | | | | |
| **6316E_ECZ** | painted in black on both sides | 16 | 55 | 1; 15 | 8595057634503 |
| **6320_ECZ** | | 20 | 70 | 1; 25 | 8595057634510 |
| **6325_ECZ** | | 25 | 115 | 1; 25 | 8595057634527 |
| **6332_ECZ** | | 32 | 125 | 1; 20 | 8595057634534 |
| **6340_ECZ** | | 40 | 140 | 1; 15 | 8595057634541 |
| **6350_ECZ** | | 50 | 170 | 1; 5 | 8595057634558 |
| **6363_ECZ** | | 63 | 210 | 1; 3 | 8595057634565 |
| **ZN** | | | | | |
| **6316E ZN_F** | hot-dip galvanized | 16 | 55 | 1; 15 | 8595057634435 |
| **6320 ZN_F** | | 20 | 70 | 1; 25 | 8595057634442 |
| **6325 ZN_F** | | 25 | 115 | 1; 25 | 8595057634459 |
| **6332 ZN_F** | | 32 | 125 | 1; 20 | 8595057634466 |
| **6340 ZN_F** | | 40 | 140 | 1; 15 | 8595057634473 |
| **6350 ZN_F** | | 50 | 170 | 1; 5 | 8595057634480 |
| **6363 ZN_F** | | 63 | 210 | 1; 3 | 8595057634497 |

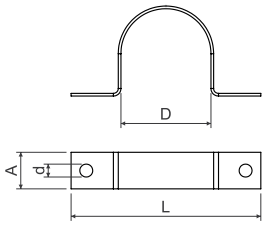
## Double-sided clamps for EN steel pipes



MAT | 25

steel | ECZ - 3456210
F - 3456410

- for attaching EN steel pipes to the pad




| item | desc. | D | L | A | | d | | EAN |
|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | mm | mm | pcs | |
| **VARNISHED** | | | | | | | | |
| **5220 PC_ECZ** | painted in black on both sides | 20 | 45 | 10 | 0,8 | 5,3 | 1; 100 | 8595057631618 |
| **5225 PC_ECZ** | | 25 | 50 | 10 | 0,8 | | 1; 100 | 8595057631625 |
| **5232 PC_ECZ** | | 32 | 57 | 12 | 0,8 | | 1; 100 | 8595057631632 |
| **5240 PC_ECZ** | | 40 | 70 | 12 | 1,1 | | 1; 50 | 8595057631649 |
| **5250 PC_ECZ** | | 50 | 85 | 12 | 1,1 | | 1; 50 | 8595057631656 |
| **5263 PC_ECZ** | | 63 | 96 | 12 | 1,1 | | 1; 50 | 8595057631663 |
| **ZN** | | | | | | | | |
| **5220 PC ZN_F** | hot-dip galvanized | 20 | 45 | 10 | 0,8 | 5,3 | 1; 100 | 8595057634794 |
| **5225 PC ZN_F** | | 25 | 50 | 10 | 0,8 | | 1; 100 | 8595057634800 |
| **5232 PC ZN_F** | | 32 | 57 | 12 | 0,8 | | 1; 100 | 8595057634817 |
| **5240 PC ZN_F** | | 40 | 70 | 12 | 1,1 | | 1; 50 | 8595057634824 |
| **5250 PC ZN_F** | | 50 | 85 | 12 | 1,1 | | 1; 50 | 8595057634831 |
| **5263 PC ZN_F** | | 63 | 96 | 12 | 1,1 | | 1; 50 | 8595057634848 |

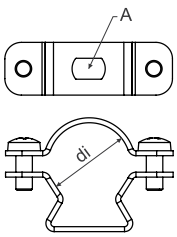
## Clamps OMEGA for EN steel pipes



MAT | -60 - +250°C | E 90 | 25 | IK

steel | -60 - +250°C | 3456210 | IK09

- the clamps are designed to attach EN steel pipes to the pad
- the clamps are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)



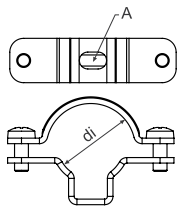

| dn pipe | item | desc. | A | di | | EAN |
|---|---|---|---|---|---|---|
| mm | | | mm | mm | pcs | |
| 16 | **5216E ZNM_S** | Sendzimir galvanized | 6,5x10 | 15 - 18 | 1; 100 | 8595057692084 |
| 20 | **5220 ZNM_S** | | | 19 - 23 | 1; 100 | 8595057692091 |
| 25 | **5225 ZNM_S** | | | 24 - 28 | 1; 50 | 8595057692107 |
| 32; 40 | **5232 ZNM_S** | | | 30 - 40 | 1; 50 | 8595057692114 |
| 50 | **5250 ZNM_S** | | 6,5x14 | 39 - 52 | 1; 25 | 8595057692138 |
| 63 | **5263 ZNM_S** | | | 53 - 63 | 1; 25 | 8595057692145 |

## Clamps OMEGA for EN steel pipes



MAT steel | -60 - +250°C | E 90 | 25 3456410 | IK K09

- the clamps are designed to attach EN steel pipes to the pad
- the clamps are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)



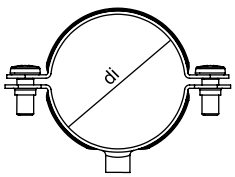

| dn pipe | item | desc. | A | di | | EAN |
|---|---|---|---|---|---|---|
| mm | | | mm | mm | pcs | |
| 16 | **5216E ZN_F** | hot-dip galvanized | 6,4 x 10 | 15 - 19 | 1; 50 | 8595568915269 |
| 20 | **5220 ZN_F** | | | 19 - 24 | 1; 50 | 8595568915276 |
| 25 | **5225 ZN_F** | | | 24 - 29 | 1; 50 | 8595568915283 |
| 32 | **5232 ZN_F** | | | 29 - 38 | 1; 25 | 8595568915290 |
| 40 | **5240 ZN_F** | | | 38 - 47 | 1; 20 | 8595568915306 |
| 50 | **5250 ZN_F** | | | 47 - 55 | 1; 20 | 8595568915313 |
| 63 | **5263 ZN_F** | | | 55 - 63 | 1; 20 | 8595568915320 |

## Clamps DOBRMAN



MAT steel | -45 - +250°C | E 90 | 25 3456210

- KPO 6 anchors or KPOZ 6 anchor in combination with ZT 6 threaded rod, SVD screws in wood, KHP + ZT 6 in aerated concrete
- to easier assembly the clamp is provided with a groove for insertion, during assembly it is not necessary the upper part of the clamp completely separate.
- the clamps are also available for systems maintaining functionality during a fire (see catalogue Cable management systems / Fire resistant systems)



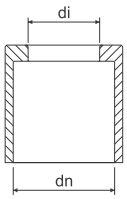

| dn pipe | item | desc. | thread | di | | EAN |
|---|---|---|---|---|---|---|
| mm | | | | mm | pcs | |
| 16 | **5216 D_ZNCR** | zinc coating steel | M6 | 16 | 1; 50 | 8595568927521 |
| 20 | **5220 D_ZNCR** | | | 20 | 1; 50 | 8595568927538 |
| 25 | **5225 D_ZNCR** | | | 25 | 1; 50 | 8595568927545 |
| 32 | **5232 D_ZNCR** | | | 32 | 1; 50 | 8595568927552 |
| 40 | **5240 D_ZNCR** | | | 40 | 1; 50 | 8595568927569 |
| 50 | **5250 D_ZNCR** | | | 50 | 1; 25 | 8595568927576 |
| 63 | **5263 D_ZNCR** | | | 63 | 1; 25 | 8595568927583 |

## Straight gland for EN pipes - external



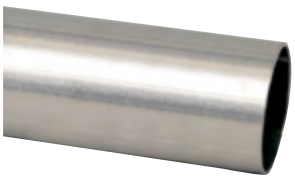
MAT PE | -5 - +60°C | 30 sec. | HF

- the glands are designed to mechanically protect the conductors or cables coming from the steel pipe
- plug the gland from outside on the end of pipe before installing cables



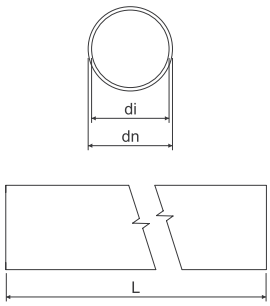

| dn | item | di | | EAN |
|---|---|---|---|---|
| mm | | mm | pcs | |
| 16 | **4816E_KA** | 12 | 100; 3000 | 8595057688575 |
| 20 | **4820_KA** | 16 | 100; 1200 | 8595057688582 |
| 25 | **4825_KA** | 21 | 100; 800 | 8595057688599 |
| 32 | **4832_KA** | 28 | 50; 400 | 8595057688605 |
| 40 | **4840_KA** | 35 | 50; 200 | 8595057688612 |
| 50 | **4850_KA** | 43 | 25; 100 | 8595057688629 |
| 63 | **4863_KA** | 57 | 10; 70 | 8595057688636 |

## Aluminium seamless pipes - high mechanical resistance



MAT | AL | -45 - +250°C | 1250 N/5 cm | 44561

- the pipes are proper for mechanical protection of conductors and cables. They can be used for industrial installations, high anticorrosive ability – class 4.




| dn | item | di | L | | EAN |
|---|---|---|---|---|---|
| mm | | mm | m | m | |
| 16 | **6216E AL_XX** | 14 | 3 | 30; 1800 | 8595057657731 |
| 20 | **6220 AL_XX** | 18 | 3 | 30; 1200 | 8595057657748 |
| 25 | **6225 AL_XX** | 23 | 3 | 30; 720 | 8595057657755 |
| 32 | **6232 AL_XX** | 30 | 3 | 30; 480 | 8595057657762 |
| 40 | **6240 AL_XX** | 38 | 3 | 15; 300 | 8595057657779 |
| 50 | **6250 AL_XX** | 47 | 3 | 15; 180 | 8595057657786 |
| 63 | **6263 AL_XX** | 59,8 | 3 | 15; 120 | 8595057657793 |

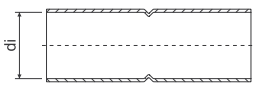
## Slip-on couplers for aluminium pipes



MAT

AL

- the connectors are designed to join aluminium pipes for mechanical protection of cables or wires
- both ends are fitted with sockets



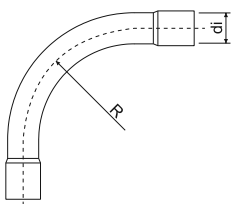

| item | di | | EAN |
|---|---|---|---|
| | mm | pcs | |
| **316E/2 AL_XX** | 16 | 1; 50 | 8595057657878 |
| **320/2 AL_XX** | 20 | 1; 50 | 8595057657885 |
| **325/2 AL_XX** | 25 | 1; 50 | 8595057657892 |
| **332/2 AL_XX** | 32 | 1; 50 | 8595057657908 |
| **340/2 AL_XX** | 40 | 1; 20 | 8595057657915 |
| **350/2 AL_XX** | 50 | 1; 20 | 8595057657922 |
| **363/2 AL_XX** | 63 | 1; 20 | 8595057657939 |

## Elbows for aluminium pipes - high mechanical resistance



MAT | AL | -45 - +250°C | 1250 N/5 cm | 44561

- both ends are fitted with sockets



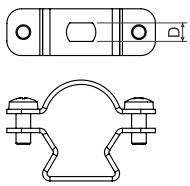

| item | di | R | | EAN |
|---|---|---|---|---|
| | mm | mm | pcs | |
| **6316E AL_XX** | 16 | 55 | 1; 15 | 8595057657809 |
| **6320 AL_XX** | 20 | 70 | 1; 25 | 8595057657816 |
| **6325 AL_XX** | 25 | 115 | 1; 25 | 8595057657823 |
| **6332 AL_XX** | 32 | 125 | 1; 20 | 8595057657830 |
| **6340 AL_XX** | 40 | 140 | 1; 15 | 8595057657847 |
| **6350 AL_XX** | 50 | 170 | 1; 5 | 8595057657854 |
| **6363 AL_XX** | 63 | 210 | 1; 3 | 8595057657861 |

## Aluminium clamps OMEGA



MAT | AL | -45 - +250°C | 25 | 3456410

- for attaching aluminium pipes to the pad
- to facilitate mounting, the clamp is provided with a groove for insertion; during mounting, it is not required to completely separate the top part of the clamp



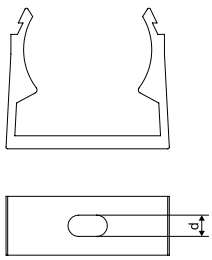
| dn pipe | item | D | | EAN |
|---|---|---|---|---|
| mm | | mm | pcs | |
| 16 | **5216E AL_XX** | 6,4 | 1; 100 | 8595057689725 |
| 20 | **5220 AL_XX** | | 1; 100 | 8595057689732 |
| 25 | **5225 AL_XX** | | 1; 50 | 8595057689749 |
| 32 | **5232 AL_XX** | | 1; 50 | 8595057689756 |
| 40 | **5240 AL_XX** | | 1; 25 | 8595057689763 |
| 50 | **5250 AL_XX** | | 1; 25 | 8595057689770 |
| 63 | **5263 AL_XX** | | 1; 25 | 8595057689787 |

## Aluminium clamps



MAT | AL | -45 - +250°C

- for attaching aluminium pipes to the pad
- pipes are installed by pushing between the clamp jaws



| dn pipe | item | d | | EAN |
|---|---|---|---|---|
| mm | | mm | pcs | |
| 16 | **5216E PC AL_XX** | 6,4 | 1; 50 | 8595057688650 |
| 20 | **5220 PC AL_XX** | | 1; 50 | 8595057688667 |
| 25 | **5225 PC AL_XX** | | 1; 50 | 8595057688674 |
| 32 | **5232 PC AL_XX** | | 1; 50 | 8595057688681 |
| 40 | **5240 PC AL_XX** | | 1; 25 | 8595057688698 |
| 50 | **5250 PC AL_XX** | | 1; 25 | 8595057688704 |
| 63 | **5263 PC AL_XX** | | 1; 15 | 8595057688711 |

## Corrosion protection for galvanized surfaces

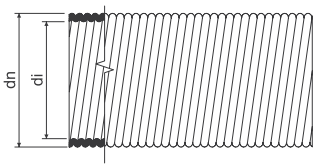



- corrosion protection for repair of defective and damaged places on galvanized surfaces
- the colour is applied with a brush, stippling technique
- the safety data sheet is available in the e-shop

| item | desc. | | EAN |
|---|---|---|---|
| | | pcs | |
| **GZS_XX** | spray | 1 | 8595057633148 |
| **WEICON 375_XX** | color | 1 | 8595057621183 |
| **WEICON 750_XX** | | 1 | 8595057693609 |

## Flexible metal pipe





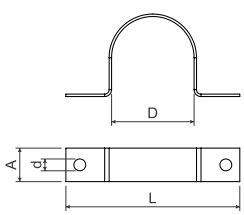

MAT steel | -45 - +90°C | F 750 N/5 cm | 1 33522

- the pipes are suitable for mechanical protection of conductors and cables inside halls (indoor)
- the pipes are made of galvanized steel bar at the top (zinc layer 3 - 4 µm) and isolation layer inside

| dn | item | di min. | | EAN |
|---|---|---|---|---|
| mm | | mm | m | |
| 18,9 | **3313_B** | 13,5 | 10 | 8595057655850 |
| | **3313_B25** | | 25 | 8595568940865 |
| | **3313_XX** | | 50 | 8595057604230 |
| 21,4 | **3316_B** | 16 | 10 | 8595057655867 |
| | **3316_B25** | | 25 | 8595568940872 |
| | **3316_XX** | | 50 | 8595057604247 |
| 28,9 | **3323_B** | 22,9 | 10 | 8595057655874 |
| | **3323_B25** | | 25 | 8595568940889 |
| | **3323_XX** | | 50 | 8595057604254 |
| 35,2 | **3329_B** | 28,4 | 10 | 8595057655881 |
| | **3329_B25** | | 25 | 8595568940896 |
| | **3329_XX** | | 50 | 8595057604261 |
| 43 | **3336_B** | 35,9 | 5 | 8595057655898 |
| | **3336_XX** | | 25 | 8595057604278 |
| 54,9 | **3348_B** | 47,7 | 5 | 8595057655904 |
| | **3348_XX** | | 25 | 8595057604292 |

## Double-sided clamps





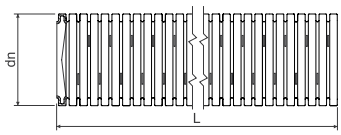

MAT steel | 25 3456210

- the clamps are designed to attach flexible metal pipes to the pad

| item | desc. | D | L | A | | d | | EAN |
|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | mm | mm | pcs | |
| **3613 A_S** | Sendzimir galvanized | 18,5 | 40,5 | 10 | 0,8 | 4,3 | 100; 1300 | 8595057604629 |
| **3616 A_S** | | 20,9 | 46,9 | | | | 100; 1100 | 8595057604636 |
| **3623 A_S** | | 28,3 | 55,3 | | | | 100; 400 | 8595057604643 |
| **3629 A_S** | | 34,5 | 67,5 | 15 | 1,1 | 5,3 | 50; 350 | 8595057604650 |
| **3636 A_S** | | 42,2 | 82,2 | | | | 50; 200 | 8595057604667 |
| **3648 A_S** | | 54,0 | 95,0 | | | | 50; 150 | 8595057604674 |

## KOPODREN® - drainage pipe





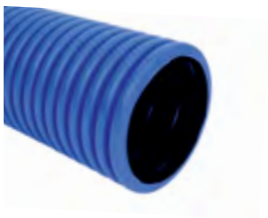

MAT

PE

- KOPODREN® pipeline is used in all areas of drain technics, e.g. draining of buildings, deep engineering constructions, sport places building, in agriculture, gardens, to drain areas of use, or to temporary draining of work sites
- the pipes have low weight and high chemical resistance
- the construction of the pipe ensures high flexibility. This is a major advantage when installing as well as meeting the requirement of small bend radius.
- the pipe joints are protected against pull-off and are designed to join using a snap
- a connection is included in the package

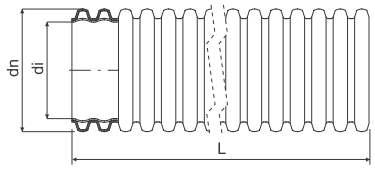
| dn | item | | L | EAN |
|---|---|---|---|---|
| mm | | | m | |
| 50 | **KOPODREN 50_F50** | black | 50 | 8595568926654 |
| 65 | **KOPODREN 65_F50** | black | 50 | 8595568926661 |
| 80 | **KOPODREN 80_F50** | black | 50 | 8595568926678 |
| 100 | **KOPODREN 100_F50** | black | 50 | 8595568926685 |
| 125,5 | **KOPODREN 125_F50** | black | 50 | 8595568926692 |
| 159,5 | **KOPODREN 160_F50** | black | 50 | 8595568926708 |

## DUODREN - doublecoat corrugated drainage pipe



MAT HDPE | storage: -45- +60°C, montage: -5 - +60°C | A1 | 450 N/20 cm | HF

- halogen-free doublecoat corrugated drainage pipe for collecting water drainage engineering and road construction, rail bodies of water buildings, sports facilities, etc
- drainage pipe type R2 - circular pipe with a smooth or slightly wavy inner surface and the contoured exterior surface
- on each drainage pipe is mounted coupling
- Certification: DIN 4262-1; TP-KO-01/14; STO - AO 224 - 657/2014; NV no. 163/2002 Coll., As amended by Government Decree no. 312/2005 Coll. Round rigidity: SN8 (8 kN / m²)




Perforation pipes:
TP - three series of perforations in the odd and three lines of perforation in the even grooves turned by 60°, surface perforations > 50 cm²/m
LP - three series of perforations in the odd and two rows of perforations in the even grooves turned by 60 °, surface perforations > 50 cm²/m
MY - two series of perforations in the odd and two rows of perforations in the even grooves turned by 60°, surface perforations 40 cm²/m
MP - two series of perforations in the odd and one row of perforations in the even grooves turned by 60°, surface perforations 30 cm²/m
UP - without perforation
* perforation pipe TP, LP, MY, MP (eg: B50TP color = red, 50 m, perforation 6 holes)

| dn | item | | di min. | | L | | | desc. |
|---|---|---|---|---|---|---|---|---|
| mm | | | mm | mm | m | m | cm | |
| 75 | **DUODREN 75_B50*** | red | 56 | 350 | 50 | 50 | 110 x 40 | to order |
| | **DUODREN 75_C50*** | blue | | 350 | 50 | 50 | | to order |
| | **DUODREN 75_F50*** | black | | 350 | 50 | 50 | | to order |
| | **DUODREN 75_B6*** | red | | - | 6 | 312 | 104 x 88 x 607 | to order |
| | **DUODREN 75_C6*** | blue | | - | 6 | 312 | | to order |
| | **DUODREN 75_F6*** | black | | - | 6 | 312 | | to order |
| 90 | **DUODREN 90_B50*** | red | 67 | 400 | 50 | 50 | 120 x 45 | to order |
| | **DUODREN 90_C50*** | blue | | 400 | 50 | 50 | | to order |
| | **DUODREN 90_F50*** | black | | 400 | 50 | 50 | | to order |
| | **DUODREN 90_B6*** | red | | - | 6 | 312 | 120 x 76 x 607 | to order |
| | **DUODREN 90_C6*** | blue | | - | 6 | 312 | | to order |
| | **DUODREN 90_F6*** | black | | - | 6 | 312 | | to order |
| 110 | **DUODREN 110_B50*** | red | 82 | 450 | 50 | 50 | 120 x 65 | to order |
| | **DUODREN 110_C50*** | blue | | 450 | 50 | 50 | | to order |
| | **DUODREN 110_F50*** | black | | 450 | 50 | 50 | | to order |
| | **DUODREN 110_B6*** | red | | - | 6 | 462 | 110 x 97 x 610 | to order |
| | **DUODREN 110_C6*** | blue | | - | 6 | 216 | 84 x 67 x 610 | to order |
| | **DUODREN 110_F6*** | black | | - | 6 | 216 | | to order |

material | fire reaction class of underlying material | halogen-free material | color | dimension package
temperature resistance | mechanical resistance | package | bending radius

# Wiring pipes - number of cables to put in

| cable diameter (mm) | 6 | 8,3 | 8,7 | 9,5 | 10 | 10,3 | 10,9 | 12,3 | 13,2 | 14,4 | 16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **FLEXIBLE PIPES** | | | | | | | | | | | |
| **XX16E - EN** | 1 | 1 | 1 | X | X | X | X | X | X | X | X |
| **XX20 - EN** | 2 (3) | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X |
| **XX25 - EN** | 4 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X |
| **XX32 - EN** | 8 | 4 | 4 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 |
| **XX40 - EN** | 13 | 7 | 6 | 5 | 5 | 4 | 4 | 3 | 3 | 2 | 1 |
| **XX50 - EN** | 21 | 11 | 10 | 8 | 7 | 7 | 6 | 5 | 4 | 4 | 3 |
| **XX13 - ČSN** | 2 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X | X |
| **XX16 - ČSN** | 3 | 1 (2) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X |
| **XX23 - ČSN** | 7 | 4 | 3 | 3 | 2 | 2 | 1 (2) | 1 | 1 | 1 | 1 |
| **XX29 - ČSN** | 11 | 6 | 5 | 4 | 4 | 4 | 3 | 3 | 2 | 1 | 1 |
| **XX36 - ČSN** | 17 | 9 | 8 | 7 | 6 | 6 | 5 | 4 | 3 | 3 | 2 |
| **SF16** | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X |
| **SF20** | 5 | 3 | 2 | 1 (2) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **SF25** | 8 | 4 | 4 | 3 | 3 | 3 | 2 (3) | 1 (2) | 1 | 1 | 1 |
| **SF32** | 13 | 7 | 6 | 5 | 5 | 5 | 4 | 3 | 3 | 2 (3) | 1 (2) |
| **KF 09040** | 13 | 7 | 6 | 5 | 5 | 5 | 4 | 3 | 3 | 2 | 2 |
| **KF 09050** | 22 | 11 | 10 | 9 | 8 | 7 | 7 | 5 | 5 | 4 | 3 |
| **KF 09063** | 35 | 18 | 17 | 14 | 13 | 12 | 11 | 8 | 7 | 6 | 5 |
| **KF 09075** | 49 | 25 | 23 | 19 | 18 | 17 | 15 | 12 | 10 | 8 | 7 |
| **KF 09090** | 74 | 38 | 35 | 29 | 27 | 25 | 22 | 18 | 15 | 13 | 10 |
| **KF 09110** | 116 | 60 | 55 | 46 | 42 | 39 | 35 | 28 | 24 | 20 | 16 |
| **KF 09125** | 153 | 80 | 73 | 61 | 55 | 52 | 46 | 36 | 32 | 27 | 21 |
| **KF 09160** | 242 | 127 | 115 | 97 | 87 | 82 | 73 | 58 | 50 | 42 | 34 |
| **KF 09200** | 401 | 209 | 191 | 160 | 144 | 136 | 121 | 95 | 83 | 70 | 56 |
| **RIGID PIPES** | | | | | | | | | | | |
| **XX16E - EN** | 1 (2) | 1 | 1 | 1 | 1 | 1 | X | X | X | X | X |
| **XX20 - EN** | 2 (3) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X |
| **XX25 - EN** | 6 | 3 | 3 | 2 | 1 (2) | 1 (2) | 1 | 1 | 1 | 1 | 1 |
| **XX32 - EN** | 9 | 5 | 4 | 4 | 3 | 3 | 23 | 2 | 1 | 1 | 1 |
| **XX40 - EN** | 15 | 8 | 7 | 6 | 6 | 5 | 5 | 4 | 3 | 3 | 1 (2) |
| **XX50 - EN** | 24 | 13 | 12 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| **XX63 - EN** | 43 | 22 | 20 | 17 | 15 | 14 | 13 | 10 | 9 | 7 | 6 |
| **6013 - ČSN** | 4 | 2 | 1 (2) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X |
| **6016 - ČSN** | 2 (3) | 3 | 3 | 1 (2) | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **6021 - ČSN** | 9 | 5 | 4 | 3 | 3 | 3 | 3 | 1 (2) | 1 | 1 | 1 |
| **6029 - ČSN** | 15 | 8 | 7 | 6 | 6 | 5 | 5 | 4 | 3 | 3 | 2 |
| **6036 - ČSN** | 25 | 13 | 12 | 10 | 9 | 9 | 8 | 6 | 5 | 4 | 4 |
| **6042 - ČSN** | 34 | 18 | 16 | 14 | 12 | 12 | 10 | 8 | 7 | 6 | 5 |
| **6016E - EN** | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X | X | X |
| **6020 - EN** | 4 | 2 | 1 (2) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | X |
| **6025 - EN** | 7 | 3 | 3 | 3 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| **6032 - EN** | 11 | 6 | 5 | 5 | 4 | 4 | 3 | 3 | 2 | 1 | 1 |
| **6040 - EN** | 19 | 10 | 9 | 7 | 7 | 6 | 6 | 4 | 4 | 3 | 3 |
| **6050 - EN** | 30 | 15 | 14 | 12 | 11 | 10 | 9 | 7 | 6 | 5 | 4 |
| **6063 - EN** | 48 | 25 | 23 | 19 | 17 | 16 | 15 | 11 | 10 | 8 | 7 |
| **KD 09040** | 13 | 7 | 6 | 5 | 5 | 5 | 4 | 3 | 3 | 2 | 2 |
| **KD 09050** | 22 | 11 | 10 | 9 | 8 | 7 | 7 | 5 | 5 | 4 | 3 |
| **KD 09063** | 35 | 18 | 17 | 14 | 13 | 12 | 11 | 8 | 7 | 6 | 5 |
| **KD 09075** | 49 | 25 | 23 | 19 | 18 | 17 | 15 | 12 | 10 | 8 | 7 |
| **KD 09090** | 74 | 38 | 35 | 29 | 27 | 25 | 22 | 18 | 15 | 13 | 10 |
| **KD 09110** | 116 | 60 | 55 | 46 | 42 | 39 | 35 | 28 | 24 | 20 | 16 |
| **KD 09125** | 153 | 80 | 73 | 61 | 55 | 52 | 46 | 36 | 32 | 27 | 21 |
| **KD 09160** | 242 | 127 | 115 | 97 | 87 | 82 | 73 | 58 | 50 | 42 | 34 |
| **KD 09200** | 401 | 209 | 191 | 160 | 144 | 136 | 121 | 95 | 83 | 70 | 56 |

The table is based on 60% cross-section usage of the pipes.



# FIXING MATERIAL


DOWELS ..... 273

ANCHORS ..... 276

METAL CLAMPS ..... 277

SCREWS ..... 278

OTHER CLAMPS ..... 280

TIGHTENING BELTS ..... 281

TIGHTENING BELT CLAMPS ..... 282

NAILING ..... 284

# WIRING FIXING MATERIAL

**All clamps, cable hangers and tightening belts are in compliance with EU directives.**

All fastening material also on our website.

## ICONS - LEGEND

| | | | |
|---|---|---|---|
| MAT | material | | sheet metal thickness |
| | temperature resistance, scope of application (°C) | | color |
| E 90 | functionality during a fire | | maximum wrap diameter (mm) |
| 25 | classification code according to ČSN EN 61386-25 | | minimum wrap diameter (mm) |
| HF | halogen-free material | | minimum tensile loop strengh (N) |
| | drilling depth (mm) | | dimensions - height, width (mm) |
| | diameter screw (mm) | | package (pcs) |
| | outside diameter (mm) | | nailing |



## **HM** - dowels

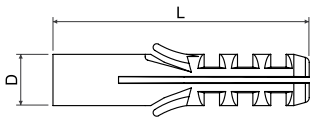


MAT HF

PA -30- +80°C

- designed for light anchoring – fixing of non-structural building components and building equipment to brickwork, concrete and other building materials
- for connection, use a screw fitted to full length of the wall plug; it is also necessary to allow for the thickness of material to be fastened

Recommendation: wall plugs should be installed immediately after unpacking from the sealed bag. This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the wall plug quality.




| item | D | L | | | | EAN |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | | |
| **HM 6_XX** | 6 | 30 | 35 | ø 3,5 - 4 | 100; 14000 | 8595057605213 |
| **HM 8/1_XX** | 8 | 40 | 45 | ø 4 - 5 | 100; 6000 | 8595057605251 |
| **HM 10_XX** | 10 | 50 | 55 | ø 5 - 6 | 100; 3000 | 8595057605176 |
| **HM 12_XX** | 12 | 60 | 65 | ø 6 - 8 | 100; 2000 | 8595057605190 |

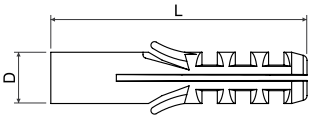
## **HM PE** - dowels



MAT HF

PE -30- +70°C

- for universal use (hobby)
- for connection, use a screw fitted to full length of the wall plug; it is also necessary to allow for the thickness of material to be fastened




| item | D | L | | | | EAN |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | | |
| **HM 6 PE_XX** | 6 | 30 | 35 | ø 3,5 - 4 | 200; 14000 | 8595057632622 |
| **HM 8 PE_XX** | 8 | 40 | 45 | ø 4 - 5 | 200; 6000 | 8595057632639 |
| **HM 10 PE_XX** | 10 | 50 | 55 | ø 5 - 6 | 200; 3000 | 8595057632646 |
| **HM 12 PE_XX** | 12 | 60 | 65 | ø 6 - 8 | 200; 2000 | 8595057632653 |

## **HL** - dowels



MAT HF

PE -30- +70°C

- designed for light anchoring – fixing of non-structural building components and building equipment to hollow walls and ceilings
- for connection, use a screw fitted to full length of the wall plug; it is also necessary to allow for the thickness of material to be fastened




| item | D | L | | | | EAN |
|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | | |
| **HL 6_XX** | 6 | 34 | 40 | ø 3,5 - 4 | 100; 10000 | 8595057612280 |
| **HL 8_XX** | 8 | 48 | 55 | ø 4 - 5 | 100; 4000 | 8595057605329 |
| **HL 10_XX** | 10 | 59 | 65 | ø 5 - 6 | 100; 2400 | 8595057612273 |

## HSV 6 - drill for HS 6



MAT

PA + kov -30- +80°C

- it is designed for mounting the HS 6 dowel in plasterboard materials
- multiple use

| item | | EAN |
|---|---|---|
| **HSV 6_ZA** | 10; 250 | 8595057609051 |

## HS 6 - dowels

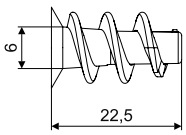


MAT HF

PA -30- +80°C

- designed for light anchoring – fixing of non-structural building components and building equipment to walls and ceilings in plasterboard materials
- the package includes two drills HSV 6
- simple insertion into drill HSV 6

Recommendation: wall plugs should be installed immediately after unpacking from the sealed bag. This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the wall plug.




| item | mm | | EAN |
|---|---|---|---|
| **HS 6_ZA** | Ø 3,5 - 4,5 | 100; 6000 | 8595057608795 |

material
temperature resistance
halogen-free material
package
diameter screw

## **HN** - hammering dowels



MAT PA + metal | -30- +80°C | HF

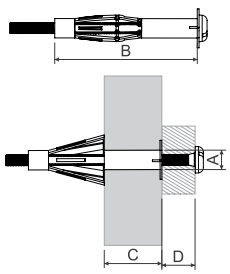
- to fix non-structural elements and various objects into the masonry of solid bricpcs and concrete
- when installing, the screw-nail is not screwed, but rather pounded in; if necessary, it can be unscrewed

| item | dn | L | | | EAN |
|---|---|---|---|---|---|
| | mm | mm | mm | | |
| **HN 6X25_XX** | 6 | 25 | 25 | 200; 4800 | 8595057618473 |
| **HN 6X35_XX** | 6 | 35 | 35 | 100; 2400 | 8595057618480 |
| **HN 6X45_XX** | 6 | 45 | 45 | 100; 2400 | 8595057618497 |
| **HN 6X55_XX** | 6 | 55 | 55 | 100; 2000 | 8595057618503 |
| **HN 6X70_XX** | 6 | 70 | 70 | 50; 1200 | 8595057618510 |
| **HN 8X45_XX** | 8 | 45 | 45 | 50; 1200 | 8595057618527 |

## **KHS** - metal anchor for chipboard



MAT steel




- the universal metal anchor is suitable for pre-assembled mounting into board construction materials eg plasterboard, chipboard
- the choice of anchor is made according to the thickness of the material of the plate so as to allow for optimal expansion in the cavity
- the metric inner thread allows for multiple permits and pulling of the anchored piece
- when mounting, the expansion arms open and derail the back of the board. The expanding arms have a large bearing surface and thus allow a high load bearing capacity.
- the teeth at the edge of the anchor are pushed into the material and prevent the dowel from spinning

- A - hole diameter
- B - the length of the dowel - in the unused state
- C - plate thickness – anchor base
- D - the thickness of the anchored object

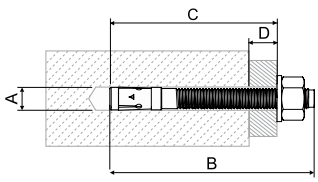
| | | | | | | guaranteed load - pull, cut, oblique pull | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | chipboard | | | | wood-fiber board | | cementfiber board | | |
| | A | B | C | D | | 9,5 mm | 12,5 mm | 19 mm (2x9,5 mm) | 25 mm (2x12,5 mm) | 16 mm | 25 mm | 8 mm | | |
| item | mm | mm | mm | mm | thread | kN | kN | kN | kN | kN | kN | kN | | EAN |
| **KHS 4X32_ZNCR** | 8 | 32 | 3-13 | ≤15-25 | M 4 x 40 | 0,15 | 0,15 | - | - | - | - | 0,15 | 50 | 8595568931047 |
| **KHS 4X45_ZNCR** | 8 | 45 | 16-23 | ≤12-21 | M 4 x 52 | - | - | 0,25 | - | 0,05 | - | - | 50 | 8595568931054 |
| **KHS 5X37_ZNCR** | 10 | 37 | 6-15 | ≤8-17 | M 5 x 45 | 0,15 | 0,15 | - | - | - | - | 0,15 | 50 | 8595568931061 |
| **KHS 5X52_ZNCR** | 10 | 52 | 7-21 | ≤10-24 | M 5 x 58 | 0,15 | 0,15 | 0,25 | - | 0,05 | - | 0,15 | 50 | 8595568931078 |
| **KHS 5X65_ZNCR** | 10 | 65 | 20-34 | ≤12-26 | M 5 x 71 | - | - | - | 0,3 | - | 0,05 | - | 50 | 8595568931085 |
| **KHS 6X37_ZNCR** | 12 | 37 | 6-15 | ≤12-21 | M 6 x 45 | 0,15 | 0,15 | - | - | - | - | 0,25 | 50 | 8595568931092 |
| **KHS 6X52_ZNCR** | 12 | 52 | 7-21 | ≤14-28 | M 6 x 58 | 0,15 | 0,15 | 0,25 | - | 0,05 | - | 0,25 | 50 | 8595568931108 |
| **KHS 6X65_ZNCR** | 12 | 65 | 17-34 | ≤13-30 | M 6 x 71 | - | - | 0,25 | 0,3 | - | 0,05 | - | 50 | 8595568931115 |

## KPO - anchor



MAT E 90

steel




- the anchor is suitable for pre-mounted, push-through and distance mounting
- approved for concrete C20/25 - C50/60, with tension and compression zones
- also suitable for natural stone with a solid structure, concrete C12/15 and C80/95
- more information on use in fire-resistant systems can be found in the catalog Cable management systems / Fire resistant systems

- A - drill bit diameter
- B - total length of anchor
- C - effective anchor depth
- D - maximum thickness of the material being attached

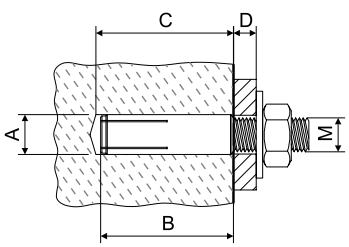
| item | approved seismicity class | A | B | C | D | thread | spanner size | | EAN |
|---|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | mm | mm | | | |
| **KPO 6X50_PO** | | 6 | 65 | 60 | 10 | M 6 | 10 | 1; 50 | 8595057691162 |
| **KPO 6X70_PO** | - | 6 | 65 | 60 | 10 | M 6 | 10 | 1; 50 | 8595057691179 |
| **KPO 8X77_PO** | C1 | 8 | 75 | 70 | 10 | M 8 | 13 | 1; 100 | 8595057691100 |
| **KPO 8X97_PO** | C1 | 8 | 95 | 85 | 30 | M 8 | 13 | 1; 100 | 8595057691117 |
| **KPO 8X110_PO** | C1/C2 | 8 | 115 | 105 | 50 | M 8 | 13 | 1; 100 | 8595568931139 |
| **KPO 10X95_PO** | C1/C2 | 10 | 92 | 85 | 10 | M 10 | 17 | 1; 50 | 8595057691124 |
| **KPO 10X115_PO** | C1/C2 | 10 | 115 | 105 | 30 | M 10 | 17 | 1; 25 | 8595057691131 |
| **KPO 10X175_PO** | C1/C2 | 10 | 185 | 175 | 100 | M 10 | 17 | 1; 50 | 8595568931153 |
| **KPO 12X120_PO** | C1/C2 | 12 | 118 | 110 | 10 | M 12 | 19 | 1; 20 | 8595057691148 |
| **KPO 8X77_POGMT** | - | 8 | 80 | 65 | 10 | M8 | 13 | 1; 100 | 8595568927965 |
| **KPO 8X97_POGMT** | - | 8 | 100 | 90 | 35 | M8 | 13 | 1; 100 | 8595568929631 |
| **KPO 10X95_POGMT** | - | 10 | 95 | 84 | 15 | M10 | 17 | 1; 50 | 8595568927972 |
| **KPO 10X115_POGMT** | - | 10 | 115 | 104 | 35 | M10 | 17 | 1; 50 | 8595568929648 |
| **KPO 12X120_POGMT** | - | 12 | 120 | 105 | 25 | M12 | 19 | 1; 50 | 8595568929655 |

## KPOZ - end-stop anchor



MAT E 90

steel




- the knock in anchors serve for the direct attachment of the threaded rods
- the loading capacity of the anchors depends on the quality of the base material (concrete, solid brickwork)
- more information on use in fire-resistant systems can be found in the catalog Cable management systems / Fire resistant systems

- A - drill bit diameter
- B - total length of anchor
- C - anchor depth
- D - maximum thickness of the material being attached

| item | A | B | C | D | thread | | EAN |
|---|---|---|---|---|---|---|---|
| | mm | mm | mm | mm | mm | | |
| **KPOZ 6_PO** | 8 | 30 | 25 | 30 | M6 | 1; 100 | 8595568929938 |
| **KPOZ 8_PO** | 10 | 30 | 32 | 30 | M8 | 1; 100 | 8595568919304 |
| **KPOZ 10_PO** | 12 | 40 | 42 | 40 | M10 | 1; 50 | 8595057692855 |

MAT material

package

E 90 functionality during a fire

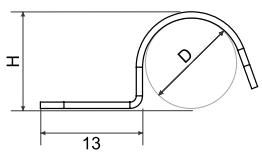
## **67xx** - single-sided clamps

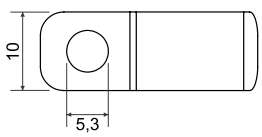


MAT

steel

- to fix cables with Ø 4-12.5mm on a pad




| item | povrchová úprava | D | H | ↕ | | EAN |
|---|---|---|---|---|---|---|
| | | mm | mm | mm | | |
| **6704_S** | Sendzimir galvanized | 4 | 4,5 | 0,8 | 100; 5000 | 8595057605527 |
| **6706_S** | | 6 | 6,5 | | 100; 5000 | 8595057605534 |
| **6708_S** | | 8 | 8,3 | | 100; 5000 | 8595057605541 |
| **6710_S** | | 10 | 10,3 | | 100; 5000 | 8595057605558 |
| **6712_S** | | 12 | 12,3 | | 100; 5000 | 8595057605565 |

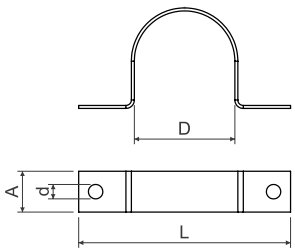
## **68xx** - double-sided clamps



MAT

steel

- to fix cables with Ø 8-25 mm on a pad




| item | surface finish | D | L | A | ↕ | d | | EAN |
|---|---|---|---|---|---|---|---|---|
| | | mm | mm | mm | mm | mm | | |
| **6808_S** | Sendzimir galvanized | 8 | 31 | 10 | 0,8 | 4,3 | 100; 3000 | 8595057605572 |
| **6810_S** | | 10 | 33 | | | | 100; 3000 | 8595057605589 |
| **6812_S** | | 12,5 | 37 | | | | 100; 1800 | 8595057605596 |
| **6816_S** | | 16 | 49 | | | | 100; 1500 | 8595057605602 |
| **6820_S** | | 20 | 55 | 15 | 1,1 | 5,3 | 100; 500 | 8595057605619 |
| **6825_S** | | 25 | 60 | | | | 100; 500 | 8595057605626 |

MAT material

package

sheet metal thickness

## SB - bolt to concrete



MAT E 90

steel

- the bolt may be mounted in concrete, natural stone, or solid brickwork
- a Ø 5 mm hole needs to be pre-drilled for mounting of the bolt
- it is suitable for attaching individual cable clamps, OMEGA type clamps and SD 2 group holder to the base material
- more information on use in fire-resistant systems can be found in the catalog Cable management systems / Fire resistant systems

| item | surface finish | | EAN |
|---|---|---|---|
| **SB 6.3X35_POGMT** | geomet | 100; 500 | 8595057697904 |
| **SB 6.3X45_POGMT** | geomet | 100; 500 | 8595568932402 |

## SVD - threaded screw



MAT E 90

steel

- threaded screw with external thread M6
- designed for anchoring to concrete
- when using an anchor KHP can be anchored to the porous concrete
- more information on use in fire-resistant systems can be found in the catalog Cable management systems / Fire resistant systems

| item | surface finish | | EAN |
|---|---|---|---|
| **SVD 30_PO** | ZNCR | 100 | 8595568931207 |
| **SVD 40_PO** | | 100 | 8595568931214 |

## STP 4.2X13 - sheet metal screw



MAT E 90

steel

- screw designed to connect two metal parts to a sheet thickness of 2.0 mm
- more information on use in fire-resistant systems can be found in the catalog Cable management systems / Fire resistant systems

| item | surface finish | | EAN |
|---|---|---|---|
| **STP 4.2X13_PO** | ZNCR | 100; 1000 | 8595568931191 |

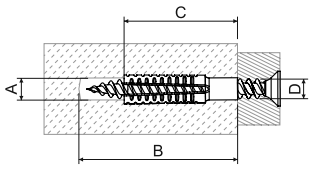
## **KHP** - metal expansion anchor



MAT E 90

steel

- for pre-assembled mounting in concrete, porous concrete, vertically perforated bricpcs, natural stone with a dense structure, solid brickwork blocpcs, solid sand-lime bricpcs
- the external teeth expand in the building material, thus ensuring a high loadbearing capacity. Thread must be screwed in at least min. to the full length of the anchor.
- the length of the anchor is calculated: length of the anchor + bolt diameter + thickness of the anchor + thickness of the plaster or insulation
- the ribbed inner shape of the dowel is suitable for screws - e.g. SB 6.3X35, SB 6.3X45
- more information on use in fire-resistant systems can be found in the catalog Cable management systems / Fire resistant systems




A - hole diameter
B - minimum hole depth
C - length of bolt
D - thread diameter

| | | | | | the recommended hole diameter for the material | | | guaranteed load - stroke, cut, oblique stroke applies to the specified thread diameter and materiall | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | concrete C20/25 | porous concrete PB4 | vertically perforated bricpcs HLZ12 | diameter screw | porous concrete ≥PB2, PP2 (G2) | porous concrete ≥PB4, PP4 (G4) | | |
| item | mm | mm | mm | mm | mm | mm | mm | mm | kN | kN | | EAN |
| KHP 6X32_PO | 7-9 | 38 | 32 | 5-6 | 7 | 6 | 7 | - | - | - | 100 | 8595568931009 |
| KHP 8X38_PO | 10-12 | 46 | 38 | 6-8 | 10 | 10 | 10 | 8 | 0,2 | 0,3 | 100 | 8595568931016 |
| KHP 8X60_PO | 10-12 | 68 | 60 | 6-8 | 12 | 10 | 10 | 8 | 0,3 | 0,4 | 50 | 8595568931023 |

## **KVD** - fire-resistant screw



MAT E 90

steel

- for attaching anchor elements to a wooden structure
- the screw can be used in combination with the KHP dowel for other materials
- the hemispherical head with TX 20 star groove gives the bit excellent stability when screwing
- the flat head contact surface is ideal for fastening metal elements to wood
- the screw is coated with high-quality scovering wax, which reduces resistance when screwing, making assembly faster and easier

| item | | screw lenght | | EAN |
|---|---|---|---|---|
| KVD 5X16_PO | 5 | 16 | 200 | 8595568942463 |
| KVD 5X20_PO | 5 | 20 | 200 | 8595568942470 |
| KVD 5X25_PO | 5 | 25 | 200 | 8595568942487 |
| KVD 5X30_PO | 5 | 30 | 200 | 8595568942494 |
| KVD 5X40_PO | 5 | 40 | 100 | 8595568942500 |
| KVD 5X50_PO | 5 | 50 | 100 | 8595568942517 |
| KVD 5X60_PO | 5 | 60 | 100 | 8595568942524 |
| KVD 5X70_PO | 5 | 70 | 100 | 8595568942531 |
| KVD 6X40_PO | 6 | 40 | 100 | 8595568944955 |
| KVD 6X50_PO | 6 | 50 | 50 | 8595568944962 |
| KVD 6X60_PO | 6 | 60 | 50 | 8595568944979 |

## **6723** - lineal clamps

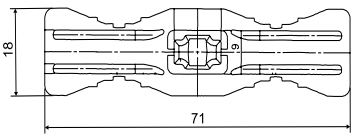


MAT HF

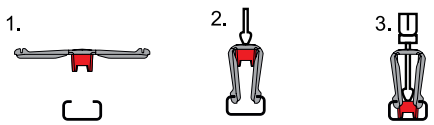
PA -30 - +80°C

- to fix the protected conductors with Ø10-26 mm side by side on the support trunking 5820 or 5822 DER
- Installation is done by bending the clips into a U-shape and inserting into the support trunking.
  It is secured against slipping by punching the pre-pressed wedge on the clip that is already fitted in the rail.
  Punching is done with a suitable object (screwdriver).

Recommendation: clamps should be installed immediately after unpacking from the sealed bag.
This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the clamp quality.




| item | vodiče max. - mm | | EAN |
|---|---|---|---|
| **6723_FA** | 10 - 26 | 1000; 4000 | 8595057606227 |






## **6724** - lineal clamps

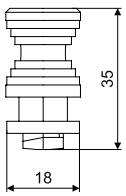


MAT HF

PA -30- +70 °C

- the clamps are designed to fix cables or other lines with Ø 7-13 mm
- the assembly is done by scovering clamp into the metal support rail type 5820 and turning it by 90°

Recommendation: clamps should be installed immediately after unpacking from the sealed bag. This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the clamp quality.




| item | | EAN |
|---|---|---|
| **6724_LA** | 200; 1600 | 8595057606241 |



## **6401** - cable hanger

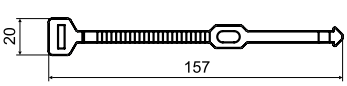


MAT HF

PE -40 - +85°C

- intended for fixing cables with Ø 8-18 mm on a supporting rope
- installation is only suitable for indoor use

| item | | EAN |
|---|---|---|
| **6401_FA** | 1000; 3000 | 8595057605473 |

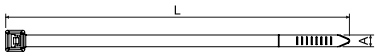





material
halogen-free material
package
temperature resistance
outside diameter

## SP - tightening belt






MAT PA | -40 - +85°C | +5- +35 °C montage | HF

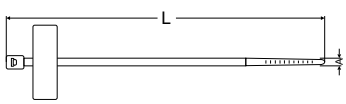
- for normal bundling and fixing of cables, wires and pipes
- for fixing to a pad, use cable tie clamps (pg. 282)
- fire resistance according to U.L. 94 - V2
- not long-term resistant to sunlight

Recommendation: cable ties should be installed immediately after unpacking from the sealed bag. This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the cable tie quality.

| item | | | L | A | | | | | EAN |
|---|---|---|---|---|---|---|---|---|---|
| | | | mm | mm | mm | mm | N | | |
| SP 100X2.5_FA | ● | black | 100 | 2,5 | 3 | 20 | 80 | 100 | 8595568905239 |
| SP 100X2.5_HA | ○ | natural | 100 | 2,5 | 3 | 20 | 80 | 100 | 8595057621190 |
| SP 140X3.5_HA | ○ | natural | 150 | 3,6 | 3 | 33 | 180 | 100 | 8595057621206 |
| SP 140X3.5_FA | ● | black | 150 | 3,6 | 3 | 33 | 180 | 100 | 8595568902764 |
| SP 140X4.5_HA | ○ | natural | 140 | 4,5 | 4 | 36 | 280 | 100 | 8595057629196 |
| SP 160X2.5_HA | ○ | natural | 165 | 2,5 | 4 | 39 | 80 | 100 | 8595057629189 |
| SP 160X4.5_HA | ○ | natural | 160 | 4,8 | 5 | 35 | 220 | 100 | 8595057629202 |
| SP 180X4.5_FA | ● | black | 190 | 4,8 | 4 | 45 | 220 | 100 | 8595568902771 |
| SP 180X4.5_HA | ○ | natural | 190 | 4,8 | 4 | 45 | 220 | 100 | 8595057629219 |
| SP 200X4.5_FA | ● | black | 190 | 4,8 | 4 | 45 | 220 | 100 | 8595568905215 |
| SP 200X4.5_HA | ○ | natural | 190 | 4,8 | 4 | 45 | 220 | 100 | 8595057621213 |
| SP 250X4.5_HA | ○ | natural | 250 | 4,8 | 5 | 62 | 220 | 100 | 8595057629226 |
| SP 280X4.5_FA | ● | black | 310 | 4,8 | 7 | 79 | 220 | 100 | 8595568902788 |
| SP 280X4.5_HA | ○ | natural | 310 | 4,8 | 7 | 79 | 220 | 100 | 8595057621220 |
| SP 360X4.5_FA | ● | black | 368 | 4,8 | 7 | 96 | 220 | 100 | 8595568902894 |
| SP 360X4.5_HA | ○ | natural | 368 | 4,8 | 7 | 96 | 220 | 100 | 8595057621237 |
| SP 360X7.5_FA | ● | black | 380 | 7,6 | 8 | 96 | 550 | 100 | 8595057634084 |
| SP 360X7.5_HA | ○ | natural | 380 | 7,6 | 8 | 96 | 550 | 100 | 8595057621244 |
| SP 380X4.5_FA | ● | black | 368 | 4,8 | 7 | 96 | 220 | 100 | 8595568902795 |
| SP 380X4.5_HA | ○ | natural | 368 | 4,8 | 7 | 96 | 220 | 100 | 8595057629233 |
| SP 430X4.5_FA | ● | black | 450 | 4,8 | 8 | 129 | 220 | 100 | 8595568902801 |
| SP 430X4.5_HA | ○ | natural | 450 | 4,8 | 8 | 129 | 220 | 100 | 8595057629240 |

## SPM 100X2.5 - tightening belt with identification tag






MAT PA | -40 - +85°C | +5- +35 °C montage | HF

- for easy and rapid marking or labelling of ties or cables
- for fixing to a pad, use cable tie clamps (pg. 282)
- fire resistance according to U.L. 94 - V2
- not long-term resistant to sunlight

Recommendation: cable ties should be installed immediately after unpacking from the sealed bag. This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the cable tie quality.

| item | | | L | A | | | | | EAN |
|---|---|---|---|---|---|---|---|---|---|
| | | | mm | mm | mm | mm | N | | |
| SPM 100X2.5_HA | ○ | natural | 100 | 2,5 | 5 | 25 | 80 | 100 | 8595057621398 |

material | halogen-free material | minimum tensile loop strengh (N) | maximal wrap diameter
temperature resistance | color | minimum wrap diameter | package

## SPP 19X19 - clip for cable ties - self-adhesive





MAT PA | -10- +50 °C | HF

- to fix the tie on a pad
- fire resistance according to U.L. 94 - V2
- not long-term resistant to sunlight
- self-adhesive - for application on clean and smooth surfaces

Recommendation: clamps should be installed immediately after unpacking from the sealed bag. This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the clamp quality.

| item | | mm | | EAN |
|---|---|---|---|---|
| **SPP 19X19_FA** | black | 19 x 19 | 100 | 8595057629257 |
| **SPP 19X19_HA** | natural | 19 x 19 | 100 | 8595057689947 |



## SPPN 19X19 - clip for cable ties



MAT PA | -40 - +85°C | HF

- to fix the tie on a pad
- fire resistance according to U.L. 94 - V2
- not long-term resistant to sunlight
- fixing to pad using a screw

Recommendation: clamps should be installed immediately after unpacking from the sealed bag. This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the clamp quality.

| item | | mm | mm | | EAN |
|---|---|---|---|---|---|
| **SPPN 19X19_FA** | black | 19 x 19 | Ø 3,5 - 4 | 100 | 8595057631694 |





material | halogen-free material | width, height | package
temperature resistance | color | diameter screw

## SPP 9 - clip for cable ties

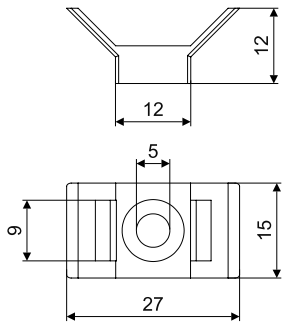


MAT HF

PA -40 - +85°C

- to fix the tie on a pad
- fire resistance according to U.L. 94 - V2
- not long-term resistant to sunlight
- fixing to pad using a screw

Recommendation: clamps should be installed immediately after unpacking from the sealed bag. This will prevent unnecessary reduction in the level of humidity PA, which would result in a reduction in the clamp quality.




| item | | mm | | EAN |
|---|---|---|---|---|
| **SPP 9_HA** | natural | Ø 3,5 - 5 | 100 | 8595057629172 |





## 65xx - spacing clamps

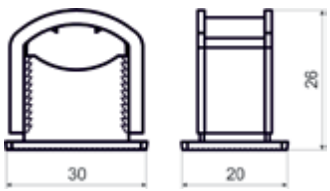


MAT

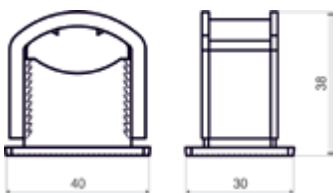
PS -5 - +60°C

- the clamps consist of two parts and are designed to fix individual cables
- installation is performed by screwing or gluing the lower part of the clip to the base. By fitting the appropriate cable and pressing the upper part of the clip onto the lower part
- there is a screw hole in the lower part of the clamp

6516




6526




| item | conductor mm | hole diameter mm | | EAN |
|---|---|---|---|---|
| **6516_HA** | 8 - 16 | 4 | 500 | 8595057605411 |
| **6526_HA** | 13 - 26 | 5 | 150 | 8595057605442 |



material | halogen-free material | diameter screw | package
temperature resistance | color | outside diameter

## K-PULSA - nailgun



- gas firing (up to 750 shots per cartridge)
- battery capacity max.. 10 000 shots
- charging time - 90 minutes (fast charge function 25 min. = 500 shots)
- weight 3,4 kg
- adjustable power up to 95 J
- magazine for 20 nails
- there is a safety device against accidental firing of course
- operating temperature range -15 °C to 49 °C
- the service of the gas nailer is provided by an external company
- suitable for fixing fire-resistant clamps of the 67xx_POBD series and products intended for this purpose

**certification according to standards:**
EN 12549, EN 792-13 + A1 :2008E

**accessories according to:**
2006/42/EC
2011/65/UE
1999/5/EC
CEM 2004/108/EC

**certification according to:**
baterry: 2006/66/EC
charger:
2006/95/EC
CEM 2004/108/EC

| item | | EAN |
|---|---|---|
| **K-PULSA_PO** | 1 | 8595568936936 |

## K-PULSA - spare battery



- spare battery for gas nailers K-PULSA_PO

| item | | EAN |
|---|---|---|
| **K-PULSA-BAT_PO** | 1 | 8595568942920 |

## magnet



- spare part for magnetic attachment MVH P800_PO

| item | | EAN |
|---|---|---|
| **MAGNET_PO** | 1 | 8595568936592 |

## MVH P800 - magnetic attachment



- for the K-PULSA_PO gas nailer
- strong magnet for attaching magnetic materials
- suitable for fixing fire-resistant clamps of the 67xx_POBD series

| item | | EAN |
|---|---|---|
| **MVH P800_PO** | 1 | 8595568935588 |

package

## **PLYN** - gas cartridge



- capacity up to 750 shots
- for the K-PULSA_PO nailgun series
- certification according to: 75/324/EC
- the safety data sheet is available on the e-shop
- package contains 2 cartridges

| item | | EAN |
|---|---|---|
| **PLYN_PO** | 1 | 8595568935595 |

## **Nail strip** - strip of nails for concrete C20/25 to C30/37, solid masonry and plaster



- suitable for fixing fire-Resistant clamps of thE 67XX_POBD series
- use for standard concrete, solid masonry and plaster
- galvanized surface finish
- the package of 500 nails includes the gas cartridgE PLYN_PO

| item | nail lenght | ǂ | | EAN |
|---|---|---|---|---|
| **KHB C6-20_PO** | 20 | 0,71 | 500 | 8595568935601 |
| **KHB C6-25_PO** | 25 | 0,78 | 500 | 8595568935618 |

## **Nail strip** - strip of nails for concrete C20/25 to C60/70, prestressed concrete and steel



- suitable for fixing fire-Resistant clamps of thE 67XX_POBD series
- use for high-strength concrete, prestressed concrete, steel
- galvanized surface finish
- the package of 500 nails includes the gas cartridgE PLYN_PO

| item | nail lenght | ǂ | | EAN |
|---|---|---|---|---|
| **KHO HC6-15_PO** | 15 | 0,66 | 500 | 8595568935656 |
| **KHO HC6-17_PO** | 17 | 0,71 | 500 | 8595568935663 |
| **KHO HC6-22_PO** | 22 | 0,84 | 500 | 8595568935670 |

## **Nail strip** - strip of nails - no residue



- suitable for fixing fire-Resistant clamps of thE 67XX_POBD series
- there is no residual plastic under the head of shot nails when fired into steel and concrete
- galvanized surface finish
- the package of 500 nails includes the gas cartridgE PLYN_PO

| item | nail lenght | ǂ | | EAN |
|---|---|---|---|---|
| **KHO HC6-15FH_PO** | 15 | 0,65 | 500 | **8595568935700** |
| **KHO HC6-17FH_PO** | 17 | 0,71 | 500 | 8595568935717 |
| **KHO HC6-22FH_PO** | 22 | 0,84 | 500 | 8595568935724 |

package
ǂ hmotnost kg

## **UVD..** - cable clamps with fire resistance





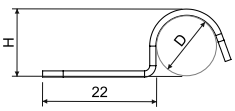
MAT E 90

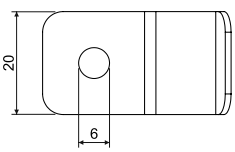
steel

- clamps are intended for fastening cables to the base material
- the clamps are fixed to the concrete with the SB 6.3X35 bolts
- the clamps are fixed to the aerated concrete with the KHP anchors in combination with KVD bolts or SB 6.3X45 bolts
- clamps without hole can be shot using gas nail guns with a magnetic attachment








| item | D | H | Ø cable | surface finish | EAN |
|---|---|---|---|---|---|
| **one-sided clamps with hole** | | | | | |
| **6706_PO** | 6 | 7,2 | 4-6 | **Sendzimir galvanized** | 8595568927804 |
| **6708_PO** | 8 | 9,2 | 6-8 | | 8595568909930 |
| **6710_PO** | 10 | 11,2 | 8-10 | | 8595568909947 |
| **6712_PO** | 12 | 13,2 | 10-12 | | 8595568909954 |
| **6714_PO** | 14 | 15,2 | 12-14 | | 8595568935052 |
| **6716E_PO** | 16 | 17,2 | 14-16 | | 8595057698031 |
| **6718_PO** | 18 | 19,5 | 16-18 | | 8595568935083 |
| **6720_PO** | 20 | 21,5 | 18-20 | | 8595568932464 |
| **6722_PO** | 22 | 23,5 | 20-22 | | 8595568935113 |
| **6725_PO** | 25 | 26,5 | 23-25 | | 8595568935144 |
| **6706_POGMT** | 6 | 7,2 | 4-6 | **non electrolytic plating** | 8595568932495 |
| **6708_POGMT** | 8 | 9,2 | 6-8 | | 8595568912459 |
| **6710_POGMT** | 10 | 11,2 | 8-10 | | 8595568912466 |
| **6712_POGMT** | 12 | 13,2 | 10-12 | | 8595568912473 |
| **6714_POGMT** | 14 | 15,2 | 12-14 | | 8595568935069 |
| **6716E_POGMT** | 16 | 17,2 | 14-16 | | 8595568912503 |
| **6718_POGMT** | 18 | 19,5 | 16-18 | | 8595568935090 |
| **6720_POGMT** | 20 | 21,5 | 18-20 | | 8595568932501 |
| **6722_POGMT** | 22 | 23,5 | 20-22 | | 8595568935120 |
| **6725_POGMT** | 25 | 26,5 | 23-25 | | 8595568935151 |
| **one-sided clamps without hole** | | | | | |
| **6706_POBD** | 6 | 7,2 | 4-6 | **Sendzimir galvanized** | 8595568934987 |
| **6708_POBD** | 8 | 9,2 | 6-8 | | 8595568934994 |
| **6710_POBD** | 10 | 11,2 | 8-10 | | 8595568935007 |
| **6712_POBD** | 12 | 13,2 | 10-12 | | 8595568935014 |
| **6714_POBD** | 14 | 15,2 | 12-14 | | 8595568935076 |
| **6716E_POBD** | 16 | 17,2 | 14-16 | | 8595568935021 |
| **6718_POBD** | 18 | 19,5 | 16-18 | | 8595568935106 |
| **6720_POBD** | 20 | 21,5 | 18-20 | | 8595568935038 |
| **6722_POBD** | 22 | 23,5 | 20-22 | | 8595568935137 |
| **6725_POBD** | 25 | 26,5 | 23-25 | | 8595568935168 |
| **two-sided clamps with hole** | | | | | |
| **6708D_PO** | 8 | 9 | 6-8 | **Sendzimir galvanized** | 8595568936820 |
| **6710D_PO** | 10 | 11 | 8-10 | | 8595568936837 |
| **6712D_PO** | 12 | 13,2 | 10-12 | | 8595568936844 |
| **6716ED_PO** | 16 | 17,2 | 14-16 | | 8595057698079 |
| **6716ED_POGMT** | 16 | 17,2 | 14-16 | **non electrolytic plating** | 8595568912510 |
| **two-sided clamps without hole** | | | | | |
| **6708D_POBD** | 8 | 9 | 6-8 | **Sendzimir galvanized** | 8595568936851 |
| **6710D_POBD** | 10 | 11 | 8-10 | | 8595568936868 |
| **6712D_POBD** | 12 | 13,2 | 10-12 | | 8595568936875 |

possibility of nailing — functionality during a fire

material

## **UVD..** - metal bracket with a metric thread

MAT E 90

steel

### UVD 6

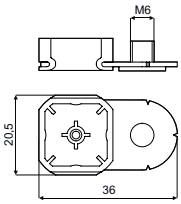


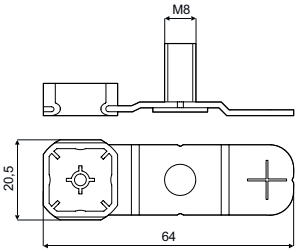
- the metal bracket is intended for fastening clamps and other components to the base material
- the bracket with an m6 metric pin is suitable for fastening dobrman clamps, or omega clamps in combination with a pvl 6 washer and an m6 nut
- installation is carried out using a nailing technique
- the solid construction ensures high durability

### UVD 8



| item | ‡ | ⭳ | thread | surface finish | EAN |
|---|---|---|---|---|---|
| **UVD 6_PO** | 0,01 | 30 | M6 | **Sendzimir galvanized** | 8595568941084 |
| **UVD 8_PO** | 0,02 | 50 | M8 | | 8595568941091 |

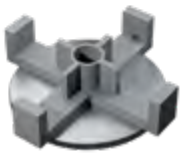



## **KPNL...** - washer for nailing

MAT E 90

steel





- the metal washer is used for fastening electrical installation channels to the all or ceiling
- possibility of nailing channels made of pvc and hf material

**KPNL 15_XX - suitable for trunkings:**
LE 60, LE 80, LE 100, LO 50, LV 40X15, LV 24X22, EKE 60X60, EKE 100X60, EKE 140X60, EKD 80X40, EKD 100X40, EKD 120X40, LH 60X40, LHD 40X20, LHD 40X40, LHD 25X15, LHD 25X20, LHD 32X15

**KPNL 25_XX - suitable for trunkings:**
LE 80, LV 40X15, EKD 80X40, EKD 120X40, LHD 40X20, LHD 40X40

| item | diameter ø | surface finish | EAN |
|---|---|---|---|
| **KPNL 15_XX** | 15 | **Sendzimir galvanized** | 8595568941121 |
| **KPNL 25_XX** | 25 | | 8595568941138 |



possibility of nailing ‡ weight kg/pc ⭳ max. load (kg) MAT material E 90 functionality during a fire



# TECHNICAL
INFORMATION

KOPOS

# Construction material classification by flammability

**The relationship between the degree of flammability requirements and a class of reaction to fire according to ČSN 33 2312 edition 2.**

| Flammability class | Fire reaction class |
|---|---|
| A | A1 |
| | A2 |
| B | B |
| C1 | C |
| C2 | D |
| C3 | E |
| | F |

### The difference between flammability rating and reaction to fire class

The basic difference between the degree of flammability and reaction to fire consists in the fact that the degree of flammability evaluates separate individual materials, while reaction to fire evaluates the entire construction product in the final version - for example, sandwich walls, insulation systems, etc.

### Classification of construction products according to their fire class

For the classification of construction products according to their fire class, the following tested procedure is used:

### Class E

A product to be classified as class E, shall be tested in accordance with ČSN EN ISO 11925-2 using flame applied for a period of 15 s.

### Classes D, C, B

A product to be classified in classes D, C or B, shall be tested according to ČSN EN ISO 11925-2 using flame applied for a period of 30 s. The product meeting the requirements for test results according to ČSN EN ISO 11925-2, is further tested according to ČSN EN 13823 or ČSN EN ISO 9239-1 - this applies to floor coverings.

### Classes A1, A2

**Homogeneous products**

Product classified as class A1 shall be tested according to ČSN EN ISO 1182 and ČSN EN ISO 1716. Product classified as class A2 shall be tested in accordance with either ČSN EN ISO 1182 or ČSN EN ISO 1716.

### Non-homogeneous products

Any substantial component of non-homogeneous product classified as class A1 shall be tested separately according to ČSN EN ISO 1182 and ČSN EN ISO 1716. In addition, each product containing external non-substantial component and meeting the PCS criterion is tested according to ČSN EN 13823 or ČSN EN ISO 9239-1 – this applies to floor coverings. Any substantial component of non-homogeneous product classified as class A2 shall be tested either separately according to ČSN EN ISO 1182 or ČSN EN ISO 1716. Non-substantial components of non-homogeneous products are tested separately, and only in accordance with ČSN EN ISO 1716.

### Another condition for class A2

All products to be classified as class A2 shall be also tested according to ČSN EN 13823 or ČSN EN ISO 9239-1 for floor coverings.

Until 31 December 2007 individual building materials were evaluated and graded according to ČSN 73 0862 „Determination of flammability of construction materials". This standard was discontinued as of 31 December 2003, but in order to ensure continuity in the evaluation of materials within the design standards, the results of the tests under this standard as well as the Value standard ČSN 73 0823 remained vacover until 31 December 2007. According to this standard, construction materials were classified under the above classes. With effect from 1 July 2003 a new way of flammability classification became vacover in the Czech Republic, known as „reaction to fire", summarized in the classification standard ČSN EN 13501-1. ČSN 33 2312:85 „Electrical regulations. Electrical equipment in and on flammable substances" allowed the use of conversion table to use both designations in relation to the flammability of construction materials. As of 1 October 2007 the provision of this standard was repealed for boxes in relation to the standard ČSN EN 60 670-1, i.e. the vacoverity of ČSN 33 2312:85 was terminated for wiring boxes, but continues to apply to wiring trunkings, channels and pipes. The applicability of the standard ČSN 37 0100 „Wiring boxes" was terminated as of 1 October 2007. It has been replaced by ČSN EN 60 670-1 „Boxes and enclosures for electrical accessories for household and similar fixed electrical installations."

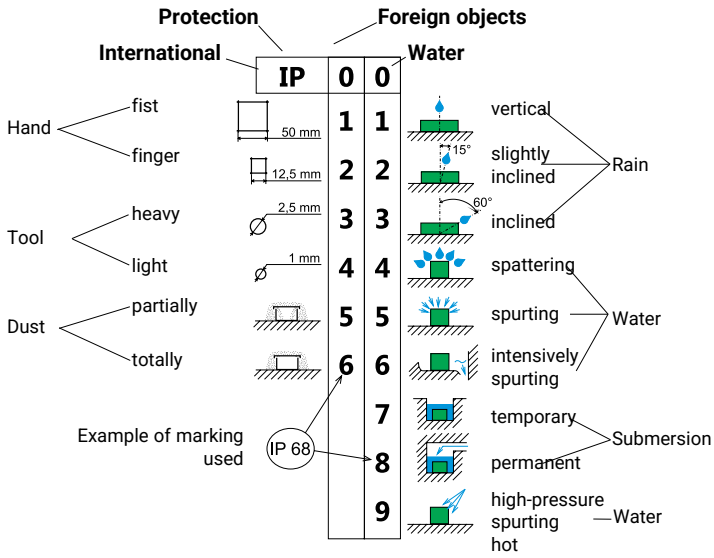
# Products of KOPOS KOLÍN a.s. – flammability class A1-F

The company KOPOS KOLÍN a.s. is a manufacturer of electrical installation and wiring material (wiring trunkings and parapet trunkings, wiring pipes, wiring boxes) assessed and classified according to government NV 118/2016, Order 17/2003 Coll. which lays down the technical requirements for low voltage electrical equipment. From the above it is obvious that the electrical installation and wiring material is not (according to the stated regulation) classified as a building material and thus no testing of fire reaction class is needed.
The data in the catalogues of KOPOS KOLÍN a.s. concerning fire reaction class stating the fire reaction class of the underlying building material only, not the fire reaction class of the electrical installation and wiring material itself.

# Protection types - IP classification according to ČSN EN 60 529

Protection levels against contact with dangerous parts are indicated by the complementary code in the form of a letter.
The letter added after the second digit of the IP designation indicates the protection level of persons against contact with dangerous parts, e.g. IP 10B. These letters are used only in the following cases:
* if the actual protection against contact with dangerous parts is higher than that indicated by the first characteristic digit
* if only protection against contact with dangerous parts is specified, the first characteristic digit is then replaced by an X
This higher protection level can be ensured by barriers, spacings inside the housing or suitable shape of the openings.

A - Protected against contact with the back of the hand
B - Protected against contact with fingers
C - Protected against contact with tools
D - Protected against contact with wires




## Chemical resistance of wiring trunkings, conduits and accessories made of hard PVC, PE, PA, PS, PP and PPE

**Explanatory notes:**
# : These materials are resistant to chemical damage under normal installation conditions
O : The resistance of these materials to chemical damage is limited
X : These materials are not resistant to chemical damage under specified conditions

**Abbreviations:**
PVC - polyvinylchloride, PE - polyethylene, PA - polyamide, PS - polystyrene, PP - polypropylene, PPE (PPO) - polyphenylenether (polyphenyl oxid)

| Chemicals | conc. in % | °C | PVC | PE | PA | PS | PP | PPE (PPO) |
|---|---|---|---|---|---|---|---|---|
| Aceton | | 20 | X | # | # | X | # | X |
| Amoniak | 25 | 20 | # | # | X | O | # | X |
| Anilin | | 60 | O | X | O | X | X | O |
| Benzene | | 20 | X | O | # | X | O | X |
| Destilled water | | 20 | # | # | # | # | # | # |
| Ethanol | 50 | 20 | # | # | # | O | # | # |
| Phenol solution | 5 | 50 | O | O | X | X | X | X |
| Sodium hydroxide | 60 | 50 | # | # | # | # | # | # |
| Chlorinated hydrocarbons | | | X | X | # | X | X | X |
| Hydrofluoric acid | 40 | 20 | # | # | X | X | # | O |
| Hydrochloric acid | 36 | 20 | O | O | X | O | O | O |
| Chromic acid | 20 | | O | O | X | O | O | O |
| Acetic acid | 5 | 20 | # | # | X | # | # | O |
| Sulfuric acid | 96 | 20 | # | # | X | # | # | O |
| Sulfuric acid | 30 | 20 | # | # | X | # | # | O |
| Medicinal oil | | | # | # | # | # | # | X |
| Methanol | | | # | # | # | X | # | # |
| Olive oil | | | # | # | # | # | # | X |
| Petroleum | | | # | # | # | # | # | X |
| Hydrogen peroxide | 20 | 20 | # | # | O | O | # | O |
| Tetrachlorocarbon | | | X | X | X | X | X | X |
| Transformer oil | | 20 | # | # | # | # | # | X |
| Sodium carbonate | | | # | # | # | # | # | # |

PPE (PPO) - in contact with fat, grease and oil the material degradation occurs (it becomes fragile and is cracking).

## Mechanical protection

Mechanical resistance of the electrical equipment covers or covers is classified according to ČSN EN 50102.
The test results according to this standard are defined by the letters IK, meaning international mechanical protection, and two digits - from 0 to 10 - marking the resistance value (e.g. IK07).

| IK code | IK00 | IK01 | IK02 | IK03 | IK04 | IK05 | IK06 | IK07 | IK08 | IK09 | IK10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **the impact energy (in joules)** | - | 0,15 | 0,2 | 0,35 | 0,5 | 0,7 | 1 | 2 | 5 | 10 | 20 |

## Surface finishes

**It is possible to protect the steel against corrosion by the following methods of surface treatments**

ZNCR **electrolytic galvanized products – Bichromatic galvanized** – ČSN EN ISO 2081, DIN 50 961
Zink layer 10 µm +/- 4 µm (supports for the wall, fastening material, bolts, washers, nuts ...)

S **Pre-Galvanized –** ČSN EN 10 143, ČSN EN 10346
galvanized steel Sendzimir: while cold the hot-rolled steelbelt goes after preparation through a continuous bath with liquid zinc. The thickness of the zinc-layer is 15-27 µm. Through this, a layer zinc arises which guarantees the increased corrosion protection. Medium corrosion resistance - group 2.

F **Hot Dip Galvanized** – ČSN EN ISO 1461
The finished pieces made from bare (black) sheet metal are plunged in a melt-bath with liquid zinc, after pre-treatment, at a temperature of 450°C. After removal from the zinc bath a zinc/iron alloy layer system is formed on the bare (black) sheet metal, which is covered with a pure zinc layer. The thickness of the zinc-layer is min. 35 µm, depending on the material thickness. High corrosion resistance - group 4.

GMT **GEOMET - neelektrolytické pokovení**
Základem povrchové úpravy DELTA jsou materialy Delta Tone 9000. Jsou to anorganické povlaky plněné zinkovými a hliníkovými mikrolamelami rozptýlenými v titanitovém pojivu. Metoda vytváří katodicky chránící povlak o tloušťce vrstvy 5-15 µm. Při této tloušťce vrstvy poskytuje ještě lepší povrchovou ochranu kovů než silnější vrstva zinku vytvořená metodou žárového zinkování. Metoda vyhovuje evropské směrnici o recyklaci, protože neobsahuje těžké kovy ani šestimocný chrom a je výhodná pro malé části. KOPOS KOLÍN v této povrchové úpravě dodává šrouby, matice, connectors a jiný drobný spojovací material a provedl zkoušku v solné mlze podle ČSN EN ISO 9227, kdy se prokázalo, že během působení solné mlhy po dobu 300 hodin nedošlo k poškození povlaku. Dlouhodobá teplotní stálost je zaručena do 180 °C, přičemž surface finish nevykazuje vodíkovou křehkost. Z výše uvedených důvodů můžeme tento způsob provedení povrchové úpravy zcela doporučit jako alternativu k žárovému zinkování.

ZN-Ni **zinc-nickel coat** – DIN 50962
The thickness of coat is 8-18 microns. The products were tested by independent test institute. The test was done according to ISO 7253:2002-04:1982 in salt chamber, according to DIN 50017 in climatic chamber. After all test reanalyzes, the zinc-nickel process coating was elected as the one of most effective. Also comparing to hot dip galvanizing. Even the surface is thinner, requested anticorrosive protection is done.

EOZ **peripheral varnish**
Galvanized steel Sendzimir with powder technology surface finish, black colour RAL 9005. Medium corrosion resistance - group 2.
At customer's request it can also be painted in other colour shades RAL.

ECZ **whole varnish**
Smooth steel material coated on both sides with black paint. Medium corrosion resistance - group 2.

## Fire-technical characteristics test records

Fire-technical lab as an accredited test shop no. 1007.7 reported these records for below-stated materials:

**Testing method for determination of total heating value (PCS): ČSN EN ISO 1716**

| Report no. | Material | Measured values | | | Results | Extended uncertainty |
|---|---|---|---|---|---|---|
| | | 1st measurement | 2nd measurement | 3rd measurement | | |
| 12275 | PVC stabilized by CaZn | 18,125 | 18,104 | 18,182 | 18,14 | 0,09 |
| 12276 | PE - iten | 46,377 | 46,432 | 46,414 | 46,41 | 0,07 |
| 12277 | PE - box bodies 8130, 8135, steel pipes bushings | 44,889 | 44,867 | 44,866 | 44,87 | 0,03 |
| 12278 | PP - concrete program | 27,546 | 27,508 | 27,606 | 27,55 | 0,12 |
| 12279 | PP - box covers 8130, 8135 | 41,685 | 41,696 | 41,689 | 41,69 | 0,02 |

## Basic terms and concepts

**Flame-spread resistance (Self-snuffing ability):**
Flame-spread resistant products cannot flash or if they flash, they cannot further burn, when a source of flame is removed. The test is performed with exactly specified source of flame.

Tested sample passed the test, if:
- it didn't flash
- in case of fire, the flame or smouldering of the sample extinguishes within 30 s after the removal of the test flame and there will be no ignition of the silk paper nor the board underneath the test sample

**Excess heat and combustion resistance:**
Parts of isolation material that could be subject of heat stress caused by electrical effects and that could break safety are not allowed to be affected too much by excessive heat and combustion. The test is performed using flaming loop.

Tested sample passed the flaming loop test, if:
- no flame or lasting glow is visible
- flames and glow on tested sample expire within 30 s after the flaming loop is removed
- the silk paper didn't flash and the board under tested sample isn't chard

**Heat resistance:**
Isolation material parts necessary for fixing power current parts and/or protective circuit parts in their position are subject of steel ball compression test.

Tested sample passed the test, if the impress diameter caused by the ball doesn't exceed given size under given temperature.

## The meaning of marpcs used with the products of KOPOS KOLÍN a.s.

| | |
|---|---|
| | Trade mark of KOPOS KOLÍN a.s. |
| | The approval mark of EZÚ PRAHA – indicates compliance with Czech electrical standard. |
| CE | Compliance mark with EU directions for particular product. |
| DVE | The approval mark of VDE – test and certification institute in Offenbach. Indicates compliance with German electrical standard. |
| 960°C 850°C | Test temperature of flaming loop in compliance with ČSN 34 5615-84. |
| 03 PVC 2 HDPE | Product material labeling in compliance with ČSN 77 0052. |
| H | Product designed for installation for hollow walls (850 °C in compliance with ČSN EN IEC 60670-1 ed.2). |
| B | Product designed for installation in concrete (650 °C in compliance with ČSN EN IEC 60670-1 ed.2). |

## Returnable packages



**IP1 - pipe pallet**
dimension: 120 x 80 x 63 cm
EAN: 8595057687660



**IP3-1 - wooden pallet EUR**
dimension: 120 x 80 cm
EAN: 8595057687684



**IP3-3 - wooden pallet**
dimension: 160 x 240 cm
EAN: 8595057687677



**IP3-4 - wooden pallet**
dimension: 120 x 183 cm
EAN: 8595568926906



**IP3-5 - wooden base**
dimension: 205 x 112 cm
EAN: 8595568931696



**IP5 - wooden base**
dimension: 300 x 65 cm
EAN: 8595057687714



**IP7 - wooden base**
dimension: 200 x 65 cm
EAN: 8595057687738



**IP9 - pallet extension**
dimension: 120 x 80 x 20 cm
EAN: 8595568925923



**IP10 - metal pallet**
dimension: 180 x 120 x 82 cm
EAN: 8595057688230



**M6500 - drum M220**
dimension: 225 x 116 cm
EAN: 8595057687769



**M6502 -steel drum**
dimension: 230 x 116 cm
EAN: 8595568910639

## Alphabetical list of products


| item | pg. |
|---|---|
| 003.CS.K | 75 |
| 005.CS.K | 75 |
| 02040 | 246 |
| 02050 | 246 |
| 02063 | 246 |
| 02075 | 246 |
| 02090 | 246 |
| 02110 | 246 |
| 02125 | 246 |
| 02160 | 246 |
| 0216E | 230 |
| 0216HF | 238 |
| 0220 | 230 |
| 02200 | 246 |
| 0220HF | 238 |
| 0225 | 230 |
| 0225HF | 238 |
| 0232 | 230 |
| 0232HF | 238 |
| 0240 | 230 |
| 0240HF | 238 |
| 0250 | 230 |
| 0250HF | 238 |
| 0263 | 230 |
| 0263HF | 238 |
| 05024 | 252 |
| 05025 | 251 |
| 05030 | 251 |
| 05031 | 252 |
| 05033 | 252 |
| 05040 | 251 |
| 05041 | 252 |
| 05043 | 252 |
| 05050 | 251 |
| 05051 | 252 |
| 05053 | 252 |
| 06025 | 250 |
| 06032 | 250 |
| 06040 | 250, 251 |
| 06050 | 250 |
| 06058/2 | 247 |
| 06110/2 | 247, 248 |
| 06110P/2 | 248 |
| 06160/2 | 247 |
| 07050/8 | 246 |
| 07063/8 | 246 |
| 07075/8 | 246 |
| 07090/8 | 246 |
| 07110/8 | 246 |
| 07125/8 | 246 |

| item | pg. |
|---|---|
| 07160/8 | 246 |
| 07200/8 | 246 |
| 1216E | 226 |
| 1216EHFPP | 234 |
| 1216EICE | 226 |
| 1220 | 226 |
| 1220HFPP | 234 |
| 1220ICE | 226 |
| 1225 | 226 |
| 1225HFPP | 234 |
| 1225ICE | 226 |
| 1232 | 226 |
| 1232HFPP | 234 |
| 1232ICE | 226 |
| 1240 | 226 |
| 1240HFPP | 234 |
| 1240ICE | 226 |
| 1250 | 226 |
| 1250HFPP | 234 |
| 1250ICE | 226 |
| 1416E | 225 |
| 1420 | 225 |
| 1425 | 225 |
| 1432 | 225 |
| 1440 | 225 |
| 1450 | 225 |
| 1516E | 227 |
| 1516EHF | 236 |
| 1520 | 227 |
| 1520HF | 236 |
| 1525 | 227 |
| 1525HF | 236 |
| 1532 | 227 |
| 1532HF | 236 |
| 1540 | 227 |
| 1540HF | 236 |
| 1550 | 227 |
| 1550HF | 236 |
| 1563 | 227 |
| 1563HF | 236 |
| 16040 | 246 |
| 16050 | 246 |
| 16063 | 246 |
| 16075 | 246 |
| 16090 | 246 |
| 16110 | 246 |
| 16125 | 246 |
| 16160 | 246 |
| 16200 | 246 |
| 17040 | 246 |

| item | pg. |
|---|---|
| 17050 | 246 |
| 17063 | 246 |
| 17075 | 246 |
| 17090 | 246 |
| 17110 | 246 |
| 17125 | 246 |
| 17160 | 246 |
| 17200 | 246 |
| 2.9X13V | 82 |
| 2.9X13Z | 82 |
| 2.9X16 | 82 |
| 2.9X22 | 82 |
| 2313/LPE-2 | 235 |
| 2316/LPE-1 | 234 |
| 2316/LPE-2 | 235 |
| 2316E/LPE-1 | 234, 235 |
| 2320/LPE-1 | 234, 235 |
| 2323/LPE-1 | 234 |
| 2323/LPE-2 | 235 |
| 2325/LPE-1 | 234, 235 |
| 2329/LPE-1 | 234 |
| 2329/LPE-2 | 235 |
| 2332/LPE-1 | 234, 235 |
| 2336/LPE-2 | 235 |
| 2340/LPE-1 | 234 |
| 3.0X16 | 82 |
| 313/1 | 255 |
| 313/2 | 256 |
| 316/1 | 255 |
| 316/2 | 256 |
| 316E/1 ZN | 260 |
| 316E/1 | 260 |
| 316E/2 AL | 265 |
| 316E/2 ZN | 262 |
| 316E/2 | 262 |
| 320/1 ZN | 260 |
| 320/1 | 260 |
| 320/2 AL | 265 |
| 320/2 ZN | 262 |
| 320/2 | 262 |
| 321/1 | 255 |
| 321/2 | 256 |
| 325/1 ZN | 260 |
| 325/1 | 260 |
| 325/2 AL | 265 |
| 325/2 ZN | 262 |
| 329/2 | 256 |
| 3313 | 267 |
| 3316 | 267 |
| 332/1 ZN | 260 |

| item | pg. |
|---|---|
| 325/2 | 262 |
| 329/1 | 255 |
| 332/1 | 260 |
| 332/2 AL | 265 |
| 332/2 ZN | 262 |
| 332/2 | 262 |
| 3323 | 267 |
| 3329 | 267 |
| 3336 | 267 |
| 3348 | 267 |
| 336/1 | 255 |
| 336/2 | 256 |
| 340/1 ZN | 260 |
| 340/1 | 260 |
| 340/2 AL | 265 |
| 340/2 ZN | 262 |
| 340/2 | 262 |
| 342/1 | 255 |
| 342/2 | 256 |
| 350/1 ZN | 260 |
| 350/1 | 260 |
| 350/2 AL | 265 |
| 350/2 ZN | 262 |
| 350/2 | 262 |
| 3613 A | 267 |
| 3616 A | 267 |
| 3623 A | 267 |
| 3629 A | 267 |
| 363/1 ZN | 260 |
| 363/1 | 260 |
| 363/2 AL | 265 |
| 363/2 ZN | 262 |
| 363/2 | 262 |
| 3636 A | 267 |
| 3648 A | 267 |
| 3X20V-2CH | 82 |
| 3X35V-2CH | 82 |
| 4016E | 228 |
| 4016EHF | 228 |
| 4020 | 228 |
| 4020HF | 237 |
| 4025 | 228 |
| 4025HF | 237 |
| 4032 | 228 |
| 4032HF | 237 |
| 4040 | 228 |
| 4040HF | 237 |
| 4050 | 228 |
| 4063 | 228 |
| 4116 | 230 |

## Alphabetical list of products


| item | pg. |
|---|---|
| 4116HF | 238 |
| 4120 | 230 |
| 4120HF | 238 |
| 4125 | 230 |
| 4125HF | 238 |
| 4132 | 230 |
| 4132HF | 238 |
| 4140 | 230 |
| 4140HF | 238 |
| 4150 | 230 |
| 4150HF | 238 |
| 4813/P | 258 |
| 4816/P | 258 |
| 4816E | 264 |
| 4820 | 264 |
| 4821/P | 258 |
| 4825 | 264 |
| 4829/P | 258 |
| 4832 | 264 |
| 4836/P | 258 |
| 4840 | 264 |
| 4842/P | 258 |
| 4850 | 264 |
| 4863 | 264 |
| 4913 | 258 |
| 4916 | 258 |
| 4921 | 258 |
| 4929 | 258 |
| 4936 | 258 |
| 4942 | 258 |
| 5213 PC | 257 |
| 5216 D | 264 |
| 5216 PC | 257 |
| 5216E AL | 266 |
| 5216E PC AL | 266 |
| 5216E ZN | 264 |
| 5216E ZNM | 263 |
| 5220 AL | 266 |
| 5220 D | 264 |
| 5220 PC AL | 266 |
| 5220 PC ZN | 263 |
| 5220 PC | 263 |
| 5220 ZN | 257, 264 |
| 5220 ZNM | 257, 263 |
| 5221 PC | 257 |
| 5225 AL | 266 |
| 5225 D | 264 |
| 5225 PC AL | 266 |
| 5225 PC ZN | 263 |
| 5225 PC | 263 |

| item | pg. |
|---|---|
| 5225 ZN | 257, 264 |
| 5225 ZNM | 257, 263 |
| 5229 PC | 257 |
| 5232 AL | 266 |
| 5232 D | 264 |
| 5232 PC AL | 266 |
| 5232 PC ZN | 263 |
| 5232 PC | 263 |
| 5232 ZN | 257, 264 |
| 5232 ZNM | 257 263 |
| 5236 PC | 257 |
| 5240 AL | 266 |
| 5240 D | 264 |
| 5240 PC AL | 266 |
| 5240 PC ZN | 263 |
| 5240 PC | 263 |
| 5240 ZN | 257, 264 |
| 5242 PC | 257 |
| 5250 AL | 266 |
| 5250 D | 264 |
| 5250 PC AL | 266 |
| 5250 PC ZN | 263 |
| 5250 PC | 263 |
| 5250 ZN | 257, 264 |
| 5250 ZNM | 257, 263 |
| 5263 AL | 266 |
| 5263 D | 264 |
| 5263 PC AL | 266 |
| 5263 PC ZN | 263 |
| 5263 PC | 263 |
| 5263 ZN | 264 |
| 5263 ZNM | 257, 263 |
| 5316E | 231 |
| 5316EHF | 239 |
| 5320 | 231 |
| 5320HF | 239 |
| 5325 | 231 |
| 5325HF | 239 |
| 5332 | 231 |
| 5332HF | 239 |
| 5340 | 231 |
| 5340HF | 239 |
| 5350 | 231 |
| 5350HF | 239 |
| 5363 | 231 |
| 5363HF | 239 |
| 5820/20 | 214 |
| 5820/21 | 214 |
| 5820/30 | 214 |

| item | pg. |
|---|---|
| 5820/31 | 214 |
| 5822 DER | 214 |
| 6013 N | 254 |
| 6013 ZN | 254 |
| 6013 ZNM | 254 |
| 6013 | 254 |
| 6016 N | 254 |
| 6016 ZN | 254 |
| 6016 ZNM | 254 |
| 6016 | 254 |
| 6016E ZN | 259 |
| 6016E | 259 |
| 6020 ZN | 259 |
| 6020 ZNM | 259 |
| 6020 | 259 |
| 6021 N | 254 |
| 6021 ZN | 254 |
| 6021 ZNM | 254 |
| 6021 | 254 |
| 6025 ZN | 259 |
| 6025 ZNM | 259 |
| 6025 | 259 |
| 6029 N | 254 |
| 6029 ZN | 254 |
| 6029 ZNM | 254 |
| 6029 | 254 |
| 6032 ZN | 259 |
| 6032 ZNM | 259 |
| 6032 | 259 |
| 6036 N | 254 |
| 6036 ZN | 254 |
| 6036 ZNM | 254 |
| 6036 | 254 |
| 6040 ZN | 259 |
| 6040 ZNM | 259 |
| 6040 | 259 |
| 6042 N | 254 |
| 6042 ZN | 254 |
| 6042 ZNM | 254 |
| 6042 | 254 |
| 6050 ZN | 259 |
| 6050 | 259 |
| 6063 ZN | 259 |
| 6063 | 259 |
| 6113 ZN | **255** |
| 6113 ZNM | 255 |
| 6113 | 255 |
| 6116 ZN | 255 |
| 6116 ZNM | 255 |

| item | pg. |
|---|---|
| 6116 | 255 |
| 6116E ZN | 260 |
| 6116E | 260 |
| 6120 ZN | 260 |
| 6120 | 260 |
| 6121 ZN | 255 |
| 6121 ZNM | 255 |
| 6121 | 255 |
| 6125 ZN | 260 |
| 6125 | 260 |
| 6129 ZN | 255 |
| 6129 ZNM | 255 |
| 6129 | 255 |
| 6132 ZN | 260 |
| 6132 | 260 |
| 6136 ZN | 255 |
| 6136 ZNM | 255 |
| 6136 | 255 |
| 6140 ZN | 260 |
| 6140 | 260 |
| 6142 ZN | 255 |
| 6142 ZNM | 255 |
| 6142 | 255 |
| 6150 ZN | 260 |
| 6150 | 260 |
| 6163 ZN | 260 |
| 6163 | 260 |
| 6213 ZN | 256 |
| 6213 ZNM | 256 |
| 6216 N | 256 |
| 6216 ZN | 256 |
| 6216 ZNM | 256 |
| 6216E AL | 265 |
| 6216E ZN | 261 |
| 6216E | 261 |
| 6220 AL | 265 |
| 6220 ZN | 261 |
| 6220 ZNM | 261 |
| 6220 | 261 |
| 6221 ZN | 256 |
| 6221 ZNM | 256 |
| 6225 AL | 265 |
| 6225 ZN | 261 |
| 6225 ZNM | 261 |
| 6225 | 261 |
| 6229 N | 256 |
| 6229 ZN | 256 |
| 6229 ZNM | 256 |

## Alphabetical list of products


| item | pg. |
|---|---|
| 6232 AL | 265 |
| 6232 ZN | 261 |
| 6232 ZNM | 261 |
| 6232 | 261 |
| 6236 N | 256 |
| 6236 ZN | 256 |
| 6236 ZNM | 256 |
| 6240 AL | 265 |
| 6240 ZN | 261 |
| 6240 ZNM | 261 |
| 6240 | 261 |
| 6242 N | 256 |
| 6242 ZN | 256 |
| 6242 ZNM | 256 |
| 6250 AL | 265 |
| 6250 ZN | 261 |
| 6250 | 261 |
| 6263 AL | 265 |
| 6263 ZN | 261 |
| 6263 | 261 |
| 6316E AL | 265 |
| 6316E ZN | 262 |
| 6316E | 262 |
| 6320 AL | 265 |
| 6320 ZN | 262 |
| 6320 | 262 |
| 6325 AL | 265 |
| 6325 ZN | 262 |
| 6325 | 262 |
| 6332 AL | 265 |
| 6332 ZN | 262 |
| 6332 | 262 |
| 6340 AL | 265 |
| 6340 ZN | 262 |
| 6340 | 262 |
| 6350 AL | 265 |
| 6350 ZN | 262 |
| 6350 | 262 |
| 6363 AL | 265 |
| 6363 ZN | 262 |
| 6363 | 262 |
| 6401 | 280 |
| 6516 | 283 |
| 6526 | 283 |
| 6704 | 277, 286 |
| 6706 PO | 286 |
| 6706 POBD | 286 |
| 6706 | 277, 286 |
| 6708 PO | 286 |
| 6708 POBD | 286 |
| 6708 | 277, 286 |
| 6710 PO | 286 |
| 6710 POBD | 286 |
| 6710 | 277, 286 |
| 6712 PO | 286 |
| 6712 POBD | 286 |
| 6712 | 277, 286 |
| 6714 PO | 286 |
| 6714 POBD | 286 |
| 6716E PO | 286 |
| 6716E POBD | 286 |
| 6716ED PO | 286 |
| 6816 | 277 |
| 6718 PO | 286 |
| 6718 POBD | 286 |
| 6720 PO | 286 |
| 6720 POBD | 286 |
| 6722 PO | 286 |
| 6722 POBD | 286 |
| 6723 | 280 |
| 6724 | 280 |
| 6725 PO | 286 |
| 6725 POBD | 286 |
| 6808 | 277 |
| 6810 | 277 |
| 6812 | 277 |
| 6816 | 277 |
| 6820 | 277 |
| 6825 | 277 |
| 7116 B | 76 |
| 7116 C | 76 |
| 7121 B | 77 |
| 7121 C | 77 |
| 7216 B | 76 |
| 7216 C | 76 |
| 7221 B | 77 |
| 7221 C | 77 |
| 8016E | 229 |
| 8016EHF | 237 |
| 8020 | 229 |
| 8020HF | 237 |
| 8025 | 229 |
| 8025HF | 237 |
| 8032 | 229 |
| 8032HF | 237 |
| 8040 | 229 |
| 8040HF | 237 |
| 8050 | 229 |
| 8050HF | 237 |
| 8063 | 229 |
| 8063HF | 237 |
| 8130 | 74 |
| 8135 | 74 |
| 8211 - 8217 (PK 110X65 D) | 193 |
| 8211HF - 8217HF (PK 110X65 D HF) | 194 |
| 8221 - 8227 (PK 130X65 D) | 195 |
| 8231 - 8237 (PK 170X65 D) | 196 |
| 8231HF - 8237HF (PK 170X65 D HF) | 197 |
| 8401 - 8407 (PK 90X55 D) | 198 |
| 8401HF - 8407HF (PK 90X55 D HF) | 199 |
| 8450-11 | 208 |
| 8450-12 | 208 |
| 8450-13 | 208 |
| 8471 - 8477 (PK 120X55 D) | 200 |
| 8481 - 8487 (PK 160X65 D) | 201 |
| 8491 - 8497 (PK 210X70 D) | 202 |
| 8501 - 8506 (EKD 80X40) | 184 |
| 8501HF - 8506HF (EKD 80X40HF) | 185 |
| 8511 - 8516 (EKD 100X40) | 186 |
| 8511HF - 8516HF (EKD 100X40HF) | 187 |
| 8541 - 8546 (EKE 60X60) | 189 |
| 8550-11 | 208 |
| 8550-12 | 208 |
| 8550-13 | 208 |
| 8551 - 8556 (EKE 100X60) | 190 |
| 8560-11 | 208 |
| 8560-12 | 208 |
| 8560-13 | 208 |
| 8561 - 8566 (EKE 140X60) | 191 |
| 8571 - 8576 (EKE 180X60) | 192 |
| 8581 - 8586 (EKD 120X40) | 188 |
| 8601 - 8606 (LHD 32X15) | 146 |
| 8621 - 8629 (LHD 20X20) | 141 |
| 8621HF - 8629HF (LHD 20X20HF) | 142 |
| 8631 - 8639 (LHD 40X20) | 147 |
| 8631HF - 8639HF (LHD 40X20HF) | 148 |
| 8641 - 8646 (LHD 40X40) | 149 |
| 8641HF - 8646HF (LHD 40X40HF) | 150 |
| 8651 - 8656 (LH 60X40) | 152 |
| 8651HF - 8656HF (LH 60X40HF) | 153 |
| 8671 - 8676 (LHD 17X17) | 138 |
| 8681 - 8686 (LH 15X10) | 137 |
| 8691 - 8696 (LHD 25X15) | 143 |
| 8711 - 8719 Z (LV 40X15) | 134 |
| 8731 - 8739 Z (LV 18X13) | 132 |
| 8751 - 8757 (LE 40) | 154 |
| 8761 - 8766 (LE 60) | 155 |
| 8771 - 8776 (LE 80) | 156 |
| 8781 - 8786 (LE 100) | 157 |
| 8791 - 8797 (LV 24X22) | 133 |
| 8809 (LZK 15X12) | 136 |
| 8819 (LZ 15X12) | 135 |
| 8821 L - 8826 (LP 80X25) | 162 |
| 8821 L - 8824/xx (LPK 80X25) | 163 |
| 8824/xx | 135, 136, 141, 158, 159, 162, 163 |
| 8833 - 8837 (LO 35) | 158 |
| 8843 - 8847 (LO 50) | 159 |
| 8855 - 8856 (LR 30) | 161 |
| 8861 L - 8866 (LP 35) | 164 |
| 8873 - 8874 (LO 75) | 160 |
| 8911 - 8916 (LHD 25X20) | 144 |
| 8921 - 8926 (LHD 20X10) | 139 |
| 8921HF - 8926HF (LHD 20X10HF) | 140 |
| 8931 - 8936 (LHD 30X25) | 145 |
| 8991 - 8996 (LHD 50X20) | 151 |
| A16FL | 241 |
| A16FL-90 | 241 |
| A21FL | 241 |
| A21FL-45 | 241 |
| A21FL-90 | 241 |
| A28FL | 241 |
| A28FL-45 | 241 |
| A28FL-90 | 241 |
| A-ES16 | 241 |
| A-ES20 | 241 |
| A-ES28 | 241 |
| A-ES32 | 241 |
| A-ES40 | 241 |
| A-LN/PG13 | 242 |
| A-LN/PG16 | 242 |
| A-LN/PG21 | 242 |
| A-LN/PG29 | 242 |
| A-LN/PG36 | 242 |
| A-LN/PG48 | 242 |
| AM16/16 | 242 |
| AM16/16-45 | 242 |
| AM16/16-90 | 242 |
| AM20/20 | 242 |
| AM21/20 | 242 |
| AM21/20-45 | 242 |
| AM21/20-90 | 242 |
| AM25/25 | 242 |
| AM28/25 | 242 |
| AM28/25-45 | 242 |
| AM28/25-90 | 242 |
| AM34/32 | 242 |
| AM34/32-45 | 242 |

## Alphabetical list of products


| item | pg. |
|---|---|
| AM34/32-90 | 242 |
| AM42/40 | 242 |
| AM42/40-45 | 242 |
| AM42/40-90 | 242 |
| AM54/50 | 242 |
| AM54/50-45 | 242 |
| AM54/50-90 | 242 |
| APACS42 | 241 |
| APACS54 | 241 |
| APACS80 | 241 |
| APAFS16 | 241 |
| APAFS21 | 241 |
| APAFS28 | 241 |
| APAFS34 | 241 |
| APG16/13 | 242 |
| APG16/13-45 | 242 |
| APG16/13-90 | 242 |
| APG21/16 | 242 |
| APG21/16-45 | 242 |
| APG21/16-90 | 242 |
| APG28/21 | 242 |
| APG28/21-45 | 242 |
| APG28/21-90 | 242 |
| APG34/29 | 242 |
| APG34/29-45 | 242 |
| APG34/29-90 | 242 |
| APG42/36 | 242 |
| APG42/36-45 | 242 |
| APG42/36-90 | 242 |
| APG54/48 | 242 |
| APG54/48-45 | 242 |
| APG54/48-90 | 242 |
| A-SW/M16 | 242 |
| A-SW/M20 | 242 |
| A-SW/M25 | 242 |
| A-SW/M32 | 242 |
| A-SW/M40 | 242 |
| A-SW/M50 | 242 |
| A-SW/PG13 | 242 |
| A-SW/PG16 | 242 |
| A-SW/PG21 | 242 |
| A-SW/PG29 | 242 |
| A-SW/PG36 | 242 |
| A-SW/PG48 | 242 |
| BK 16 | 125 |
| BK 16 CSN | 125 |
| BK 20 | 125 |
| BK 23 | 125 |
| BK 25 | 125 |
| BK 32 | 125 |

| item | pg. |
|---|---|
| BV 1620 | 125 |
| BV 2532 | 125 |
| DR18 | 22 |
| DR42 | 22 |
| DUODREN 110 | 268 |
| DUODREN 75 | 268 |
| DUODREN 90 | 268 |
| EKD 100X40 | 186 |
| EKD 100X40HF | 187 |
| EKD 120X40 | 188 |
| EKD 80X40 | 184 |
| EKD 80X40HF | 185 |
| EKE 100X60 | 190 |
| EKE 140X60 | 191 |
| EKE 180X60 | 192 |
| EKE 60X60 | 189 |
| EPS 2 | 85 |
| EPS 3 | 85 |
| FR 68 SDS | 87 |
| GZS | 266 |
| HL 10 | 273 |
| HL 6 | 273 |
| HL 8 | 273 |
| HM 10 | 273 |
| HM 10 PE | 273 |
| HM 12 | 273 |
| HM 12 PE | 273 |
| HM 6 | 273 |
| HM 6 PE | 273 |
| HM 8 PE | 273 |
| HM 8/1 | 273 |
| HN 6X25 | 275 |
| HN 6X35 | 275 |
| HN 6X45 | 275 |
| HN 6X55 | 275 |
| HN 6X70 | 275 |
| HN 8X45 | 275 |
| HS 6 | 274 |
| HSV 6 | 274 |
| KBP-8 | 124 |
| KBS-120 | 125 |
| KD 09040 | 246 |
| KD 09050 | 246 |
| KD 09063 | 246 |
| KD 09075 | 246 |
| KD 09090 | 246 |
| KD 09110 | 246 |
| KD 09125 | 246 |
| KD 09160 | 246 |
| KD 09200 | 246 |

| item | pg. |
|---|---|
| KEFZ 80 | 30 |
| KEFZ 80/VDZ | 30 |
| KEZ | 31 |
| KEZ 300 | 31 |
| KEZ-3 | 32 |
| KF 09040 | 244, 245 |
| KF 09050 | 244, 245 |
| KF 09063 | 244, 245 |
| KF 09075 | 244, 245 |
| KF 09090 | 244, 245 |
| KF 09110 | 244, 245 |
| KF 09125 | 244, 245 |
| KF 09160 | 244, 245 |
| KF 09200 | 244, 245 |
| KHB C6-20 | 285 |
| KHB C6-25 | 285 |
| KHO HC6-15 | 285 |
| KHO HC6-15FH | 285 |
| KHO HC6-17 | 285 |
| KHO HC6-17FH | 285 |
| KHO HC6-22 | 285 |
| KHO HC6-22FH | 285 |
| KHP 6X32 | 279 |
| KHP 8X38 | 279 |
| KHP 8X60 | 279 |
| KHS 4X32 | 275 |
| KHS 4X45 | 275 |
| KHS 5X37 | 275 |
| KHS 5X52 | 275 |
| KHS 5X65 | 275 |
| KHS 6X37 | 275 |
| KHS 6X52 | 275 |
| KHS 6X65 | 275 |
| KI 68 L/1 | 47 |
| KKD 90 | 69 |
| KKD 115 | 69 |
| KKD 135 | 70 |
| KKD 160 | 70 |
| KKD 200 | 71 |
| KKD 250 | 71 |
| KO 100 | 18 |
| KO 100 E | 18 |
| KO 100 V | 26 |
| KO 110/L | 53 |
| KO 125 | 19 |
| KO 125 E | 19 |
| KO 125 E/EQ02 | 20 |
| KO 125 V | 26 |
| KO 125/1L | 54 |

| item | pg. |
|---|---|
| KO 180/LD | 54 |
| KO 68 | 24 |
| KO 97 V | 24, 57 |
| KO 97 V/1 HF | 24, 58 |
| KO 97/5 | 16 |
| KO 97/LD | 53 |
| KOM 97HF | 17 |
| KOPOBOX 57 | 94, 105 |
| KOPOBOX 80 | 97, 100, 106, 109 |
| KOPOBOX MINI B | 90 |
| KOPOBOX MINI L | 90 |
| KOPOBOX MINI P | 91 |
| KOPODREN 50 | 268 |
| KOPODREN 65 | 268 |
| KOPODREN 80 | 268 |
| KOPODREN 100 | 268 |
| KOPODREN 125 | 268 |
| KOPODREN 160 | 268 |
| KOPOKAN 1 | 249 |
| KOPOKAN 2 | 249 |
| KOPOKAN 3 | 249 |
| KOPOKAN 4 | 249 |
| KP 64/2 | 13 |
| KP 64/3 | 14 |
| KP 64/4 | 14 |
| KP 64/5 | 15 |
| KP 67/2 | 12 |
| KP 67/3 | 13 |
| KP 67X67 | 15 |
| KP 68 | 11 |
| KP 68/2 | 10 |
| KP 68/2HF | 11 |
| KP 68/D | 6 |
| KP 68-30 | 7 |
| KP 68-45 | 7 |
| KP 80 PK | 206 |
| KP 80 PK HF | 206 |
| KP EKE | 207 |
| KP PK | 206 |
| KP PK HF | 207 |
| KPL 64-40/2LD | 50 |
| KPL 64-40/3LD | 51 |
| KPL 64-40/LD | 48 |
| KPL 64-45/LD | 48 |
| KPL 64-50/2LD | 50 |
| KPL 64-50/2LD HF | 50 |
| KPL 64-50/3LD | 51 |
| KPL 64-50/3LD HF | 51 |
| KPL 64-50/4LD | 52 |

## Alphabetical list of products


| item | pg. |
|---|---|
| KPL 64-50/5LD | 52 |
| KPL 64-50/LD | 48 |
| KPL 64-50/LD HF | 48 |
| KPNL 15 | 287 |
| KPNL 25 | 287 |
| KPO 10X115 | 276 |
| KPO 10X175 | 276 |
| KPO 10X95 | 276 |
| KPO 12X120 | 276 |
| KPO 6X50 | 276 |
| KPO 6X70 | 276 |
| KPO 8X110 | 276 |
| KPO 8X77 | 276 |
| KPO 8X97 | 276 |
| KPOZ 10 | 276 |
| KPOZ 6 | 276 |
| KPOZ 8 | 276 |
| KPP 80 | 97, 107 |
| KPR 68 | 12 |
| KPR 68/71L | 46 |
| KPR 68/D | 6 |
| KPR 68-70 | 9 |
| KPR 68-70/HF | 10 |
| KPRL 64-60/LD | 49 |
| KPRL 64-60/LD HF | 49 |
| KPRL 68-70/LD | 46 |
| K-PULSA | 284 |
| K-PULSA-BAT | 284 |
| KR 97/5 | 17 |
| PcsK 100 | 64 |
| PcsK 125 | 65 |
| PcsK 175 | 65 |
| PcsK 80 | 64 |
| KT 250 | 20 |
| KT 250 V | 26 |
| KT 250/1 | 21 |
| KT 250/L | 55 |
| KU 68 LD/1HF | 45 |
| KU 68/71L1 | 45 |
| KU 68-45 | 8 |
| KU 68-45/HF | 8 |
| KU 68-45/V | 9 |
| KUH 1 | 16 |
| KUH 1/L | 55 |
| KUL 68-45/LD | 44 |
| KUL 68-45/LD2 | 44 |
| KUP 57 | 95 |
| KUP 80 | 95, 99, 101, 103 |
| KUZ-V | 37 |
| KUZ-VI | 38 |
| KUZ-VO | 37 |
| KUZ-VOI | 38 |
| KVD 5X16 | 279 |
| KVD 5X20 | 279 |
| KVD 5X25 | 279 |
| KVD 5X30 | 279 |
| KVD 5X40 | 279 |
| KVD 5X50 | 279 |
| KVD 5X60 | 279 |
| KVD 5X70 | 279 |
| KVD 6X40 | 279 |
| KVD 6X50 | 279 |
| KVD 6X60 | 279 |
| L-42W | 182 |
| LE 100 | 157 |
| LE 40 | 154 |
| LE 60 | 155 |
| LE 80 | 156 |
| LH 15X10 | 137 |
| LH 60X40 | 152 |
| LH 60X40HF | 153 |
| LHD 17X17 | 138 |
| LHD 20X10 | 139 |
| LHD 20X10HF | 140 |
| LHD 20X20 | 141 |
| LHD 20X20HF | 142 |
| LHD 25X15 | 143 |
| LHD 25X20 | 144 |
| LHD 30X25 | 145 |
| LHD 32X15 | 146 |
| LHD 40X20 | 147 |
| LHD 40X20HF | 148 |
| LHD 40X40 | 149 |
| LHD 40X40HF | 150 |
| LHD 50X20 | 151 |
| LK 80/1 | 176 |
| LK 80/2 | 177 |
| LK 80R/1 | 172 |
| LK 80R/2 | 172 |
| LK 80X16 T | 167 |
| LK 80X20R/1 | 171 |
| LK 80X28 2R | 175 |
| LK 80X28 2T | 170 |
| LK 80X28 2ZK | 174 |
| LK 80X28 2ZKHF | 174 |
| LK 80X28 2ZT | 168 |
| LK 80X28 2ZTHF | 169 |
| LK 80X28 T | 166 |
| LK 80X28 THF | 166 |
| LK 80X28/1 | 176 |
| LK 80X28R/1 | 170 |
| LK 80X28R/1HF | 171 |
| LK 85X28 ZNI HF | 165 |
| LK 85X28 ZNI/2 HF | 165 |
| LKM 45 | 178 |
| LO 35 | 158 |
| LO 50 | 159 |
| LO 75 | 160 |
| LP 35 | 164 |
| LP 80X25 | 162 |
| LPK 80X25 | 163 |
| LR 30 | 161 |
| LV 11X10 | 131 |
| LV 18X13 | 132 |
| LV 24X22 | 133 |
| LV 40X15 | 134 |
| LZ 15X12 | 135 |
| LZK 15X12 | 136 |
| M3X40-3CH | 82 |
| M3X45-3CH | 82 |
| MAGNET | 284 |
| MDFZ 80 | 33 |
| MDFZ 80/VDZ | 33 |
| MDZ | 34 |
| MDZ 300 | 34 |
| MDZ XL | 35 |
| MDZ XL 300 | 35 |
| MP3-3CH | 82 |
| MVH P800 | 284 |
| ND KEZ | 36 |
| ND KEZ-3/Z | 36 |
| ND MDZ | 36 |
| NR 2ZT | 169 |
| NR 5X5 | 23 |
| NR 68/10 | 23 |
| NR 68/6 | 23 |
| NR 80/R | 173 |
| NRB 60/12 | 124 |
| NRB 60/24 | 124 |
| NRT | 168 |
| P-16 | 78 |
| P-21 | 78 |
| PATKA CR | 82 |
| PEKD 40 | 209 |
| PEKD 40HF | 209 |
| PEKE 60 | 210 |
| PEKE 60 HF | 210 |
| PEP 60 | 211 |
| PEP 60/K | 212 |
| PI 80 2ZK | 178 |
| PI 80 2ZT | 178 |
| PI 80R | 178 |
| PI 80T | 178 |
| PK 110X65 D | 193 |
| PK 110X65 D HF | 194 |
| PK 120X55 D | 200 |
| PK 130X65 D | 195 |
| PK 160X65 D | 201 |
| PK 170X65 D | 196 |
| PK 170X65 D HF | 197 |
| PK 210X70 D | 202 |
| PK 90X55 D | 198 |
| PK 90X55 D HF | 199 |
| PKS 70/60 | 211 |
| PKUP | 98, 108 |
| PLSK | 213 |
| PLUK | 104 |
| PLUK1 | 104 |
| PLYN | 285 |
| PN 40X15 | 179 |
| PN 40X20 | 179 |
| PN 80X25 | 181 |
| PN 80X25 2Z | 181 |
| PN EKE | 207 |
| PN KUZ | 39 |
| PNE 100X20 | 180 |
| PNE 40 2Z | 181 |
| PNE 60X20 | 180 |
| PNE 60X20 2Z | 180 |
| PNE 80X20 | 180 |
| PNLP 35 2Z | 180 |
| PNQ 20X10 | 179 |
| PNQ 32X15 | 179 |
| PNQ 40X20 | 179 |
| PNQ LP 35 | 179 |
| PP 80/0 | 98, 107 |
| PP 80/3 | 98, 107 |
| PP 80/45 | 98, 107 |
| PP 80/45/6 | 101, 110 |
| PP 80/K-5 | 102 |
| PPK 16E | 67, 72 |
| PPK 20 | 67, 72 |
| PPK 25 | 67, 72 |
| PPK 32 | 67, 72 |
| PPK 40 | 67, 72 |
| PSK 1 | 213 |
| PUK 38X150 S1 | 104 |

## Alphabetical list of products


| item | pg. |
|---|---|
| QD 45X22.5–COVER | 205 |
| QD 45X22.5–HDMI | 205 |
| QD 45X22.5-HOLDER | 205 |
| QD 45X22.5–RJ-45 | 205 |
| QD 45X22.5-RJ45/6 | 205 |
| QD 45X22.5-RJ45/6A | 205 |
| QD 45X22.5–USB | 205 |
| QD 45X22.5–USB_C | 205 |
| QP 45X45 | 203 |
| QP 45X45 C | 203 |
| QS 45X45 | 204 |
| QS 45X45 C | 204 |
| REKE 100 | 190 |
| REKE 140 | 191 |
| REKE 180 | 192 |
| REKE 60 | 189 |
| REKO 100X40 | 186 |
| REKO 100X40HF | 187 |
| REKO 120X40 | 188 |
| REKO 80X40 | 184 |
| REKO 80X40HF | 185 |
| RK 100X60 | 216 |
| RK 25X25 DIN | 216 |
| RK 30X30 | 216 |
| RK 30X40 | 216 |
| RK 37.5X75 DIN | 216 |
| RK 40X60 | 216 |
| RK 40X80 | 216 |
| RK 50X50 DIN | 216 |
| RK 50X75 DIN | 216 |
| RK 60X60 | 216 |
| RK 60X80 | 216 |
| RK 75X75 DIN | 216 |
| RK 80X60 | 216 |
| RK-OVK20 | 217 |
| RK-OVK30 | 217 |
| RK-OVK40 | 217 |
| RK-PN6 | 217 |
| RK-ST12 | 217 |
| RK-ST22 | 217 |
| RK-ST6 | 217 |
| RLE 100 | 157 |
| RLE 80 | 156 |
| RLH 60X40 | 152 |
| RLH 60X40HF | 153 |
| S-66 | 83 |
| S-96 | 83 |
| SB 6.3X35 | 278 |
| SB 6.3X45 | 278 |
| SB-H 50 | 123 |
| SB-H 70 | 123 |
| SB-KP 60-50/L | 118 |
| SB-KP 60-50/M | 115 |
| SB-KP 60-70/L | 118 |
| SB-KP 60-70/M | 115 |
| SB-KP 68-50/L | 119 |
| SB-KP 68-50/M | 116 |
| SB-KP 68-70/L | 119 |
| SB-KP 68-70/M | 116 |
| SB-KPS 1 | 121 |
| SB-M1 | 124 |
| SB-MK 1 | 123 |
| SB-P 1 | 122 |
| SB-ST 1 | 123 |
| SB-VKPS 1 | 121 |
| SF16 | 232 |
| SF20 | 232 |
| SF25 | 232 |
| SF32 | 232 |
| SFM20 | 232 |
| SFM25 | 232 |
| SFM32 | 232 |
| SFM40 | 232 |
| SK 40X20 | 212 |
| SK 40X33 | 212 |
| SKLD 2 | 56 |
| S-KSK 1 | 66 |
| S-KSK 2 | 66 |
| SN | 95, 99, 101, 103 |
| SP 100X2.5 | 281 |
| SP 12X1/10 | 214 |
| SP 140X3.5 | 281 |
| SP 140X4.5 | 281 |
| SP 15X1/10 | 214 |
| SP 160X2.5 | 281 |
| SP 180X4.5 | 281 |
| SP 200X4.5 | 281 |
| SP 250X4.5 | 281 |
| SP 280X4.5 | 281 |
| SP 360X4.5 | 281 |
| SP 360X7.5 | 281 |
| SP 360X7.5 | 281 |
| SP 380X4.5 | 281 |
| SP 430X4.5 | 281 |
| SP-96 | 83 |
| SPM 100X2.5 | 281 |
| SPOJKA K1 | 249 |
| SPOJKA K2 | 249 |
| SPOJKA K3 | 249 |
| SPOJKA K4 | 249 |
| SPP 19X19 | 282 |
| SPP 9 | 283 |
| SPPN 19X19 | 282 |
| SPUK | 104 |
| STP 4.2X13 | 278 |
| SVD 30 | 278 |
| SVD 40 | 278 |
| TN 68 | 25 |
| TN 97 | 25 |
| TR 5340HF | 240 |
| TR 5350HF | 240 |
| TR 5363HF | 240 |
| TS35 | 215 |
| TS KKD 90 | 73 |
| TS KKD 115 | 73 |
| TS KKD 135 | 73 |
| TS KKD 160 | 73 |
| TS KKD 200 | 73 |
| TS KKD 250 | 73 |
| TYP015 | 84 |
| TYP016 | 84 |
| TYP017 | 84 |
| TYP018 | 84 |
| TYP210 | 84 |
| TYP310 | 84 |
| TYP412 | 84 |
| TYP512 | 84 |
| TYP612 | 84 |
| UVD 6 | 287 |
| UVD 8 | 287 |
| V 100 E | 26 |
| V 110 L | 59 |
| V 125/1 | 26, 59 |
| V 180 | 40, 58 |
| V 68 | 25, 57, 122 |
| V 68HF | 25, 57, 122 |
| VDS 68 | 87 |
| VK 20 | 182 |
| VKP 64/2L | 26, 59 |
| VKT 250/L | 26, 59 |
| VLK 80 | 177 |
| VLK 80/2R | 175 |
| VLK 80/R | 173 |
| VLK 80/T | 167 |
| VLK 85/ZNI HF | 165 |
| VO 180 | 40 |
| VPT 40 | 86 |
| VPT 64 | 86 |
| VPT 68 | 86 |
| VPT 79 | 86 |
| VPT 97 | 86 |
| VPTU | 86 |
| WEICON 375 | 266 |
| WEICON 750 | 266 |
| ZPP | 98, 108 |
| ZV 68 | 21 |
| ZV 97 | 21 |

# KOPOS KOLÍN a.s.

ABOUT US

KOPOS KOLÍN a.s.
Havlíčkova 432
280 02 Kolín IV
Česká republika
tel.: +420 321 730 111
e-mail: kopos@kopos.cz
www.kopos.cz




www.kopos.com

EUM-ENG-06/26-5.0
Changes reserved.
The photos to be mentioned in the catalogue are just illustrative.