

You stand for our success

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

KOPOS KOLÍN a.s. is a leading manufacturer of wiring material with over 90 years of tradition. We currently produce over 5 000 products. The plastic category includes wiring boxes, trunkings, parapet trunkings, pipes, double wall protector conduits it is registered bussiness mark KOPOFLEX® and KOPODUR® system, divided cable duct KOPOHALF®. We also include cable management systems such as cable trays, MARS cable trays, JUPITER®, wire trays or a stainless steel program. With the increasing demands on object safety, we have expanded and introduced systems to maintain functionality in the fire. Choose from a variety of carefully tested systems. The company considers it natural to produce products from halogen-free materials. By replacing lead in plastic mixtures and other environmental activities, we don't want to stand out in the environmental protection.

The products comply with the requirements of the European standards and are tested in the electrotechnical institutes. The company also owns the production technology used for the production of NEUTROSTOP shieldings. Their use is especially important where it is necessary to protect the environment from neutron radiation. We sell our products around the world through 10 daughter company. KOPOS KOLÍN a.s. is a holder of certificates according to ISO 9001 and ISO 14001, Czech Quality and Safety Certificate.



WIRING BOXES AND ACCESSORIES

1



WIRING TRUNKINGS AND ACCESSORIES

2



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4



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COV

In compliance with the common standard ČSN EN 60 670-1 - Boxes and covers for house electric accessories and other similar fixed electrical installations.

In compliance with the common standard ČSN EN IEC 60670-1 ed. 2 - Boxes and covers for house electric accessories and other similar fixed electrical installations.

Under parget <u>1</u>

Material: Hard self-snuffing polyvinylchloride (PVC) with temperature resistance from -5 °C to +60 °C.

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 D, in accordance with 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 lid or device with IP30 or higher protection meet IP30 protection (KP 68/D, KPR 68/D).

A basic color of boxes under plaster is light grey (RAL 7035). Boxes can be also produced in different colors.

Into thermal insulation

1-19

Wiring boxes and accessories

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 XI, and MDZ XI, 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.

Into hollow walls 1-3

Material: Hard self-snuffing polyvinylchloride (PVC) with temperature resistance from -5 °C to +60 °C.

According to the requirements of ČSN EN 60670-1 \S 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. Instrument and universal boxes are designed for distribution system with voltage 400 V and with maximum current 16 A. Boxes fitted with an appropriate lid 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 valid 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 1-91 - 1-92.

Boxes for fire-resistant partitions wall 1-42

Material: Self-extinguishing polypropylene (PP) with temperature resistance -5 $^{\circ}$ C to +60 $^{\circ}$ C, foaming material.

The boxes according to the requirements of ČSN EN 60670-1 Art. 18 pass the test of resistance to excessive heat and burning with a hot loop with a temperature of 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. The KPZ-1_PO box meets the classification El 15 to El 120 according to ČSN EN 1363-1:2013.

According to ČSN EN 332312 ed. 2 KOPOS KOLÍN a.s. as a manufacturer, it recommends the installation of boxes on and in building materials of reaction to fire class A1 to F in the sense of ČSN EN 13501-1.

The boxes are designed for distributions with a voltage of up to 400 V and a current of 16A max. Boxes fitted with an appropriate lid or device with IP30 protection or higher meet IP30 protection.

For the installation of hollow walls, we recommend using the milling cutter assemblies supplied by us, see pages 1-91 - 1-92.

Trunking boxes <u>1-46</u>

Material: Hard self-snuffing polyvinylchloride (PVC) with temperature resistance from -5 °C to +60 °C.

According to the requirements of ČSN EN 60670-1 \S 18, the boxes comply with the excessive-heat resistance test as well as the test with flaming loop with temperature 850 $^{\circ}\text{C}.$

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 $\underline{1-87}$) 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

Closed boxes - plastic (IP 40, 54, 65, 66)

... 1-54

 $\label{eq:Material:$

Self-snuffing polypropylene (PP) and polyethylene (PE) with temperature resistance from -5 °C to +60 °C is used for boxes 8130 and 8135.

Flame retardant polypropylene (PP) and polycarbonate (PC) with temperature resistance from -25 to +60°C is used for KSK series boxes. In addition to the requirements, a test of a needle burner according to ČSN EN 60695-11-5 is performed for KSK boxes with a satisfactory result.

According to the requirements of ČSN EN 60670-1 \S 18, the boxes comply with the excessive-heat resistance test as well as the test with flaming loop with temperature 650 °C (850°C for KSK series boxes).

According to ČSN EN 332312 ed. 2, the company KOPOS KOLÍN a.s. as manufacturer recommends the assembly of boxes (with the exception of 003.CS.K and 005.CS.K types) on and into building materials with fire reaction class from A1 to C or D, in accordance with ČSN EN 13501-1.

In combination with 5 mm heat-insulating pad, the installation on construction materials can be carried out fire class A1 - F without limitation.

In the case of installation on construction materials with fire class A2 to C or D according to $\bar{C}SN$ EN 13501-1 they are designed for wiring with voltage of 400 V and current of max 16 A.

In the case of installation on construction materials with reaction to fire class A1 or with heat-insulating pad, they are designed for distribution system with voltage 500 V. The 003.CS.K and 005.CS.K type boxes may be used only on construction materials with reaction to fire class A1.

Closed boxes - metal (IP 54) ..

... 1-04

aterial: Al-alloy suitable for installation on construction materials with reaction to fire class A1 to C or D (see page 5–3). Temperature resistance is -25 to +60 ° C.

In combination with heat-insulating nonflammable pad with thickness of 5 mm made of material with reaction to fire class A1, the installation on construction materials may be carried out without any limitation. The boxes are designed for distribution with voltages up to 500 V.

Halogen-free (HF)

... <u>1-69</u>

Material: Self-extinguishing polycarbonate (PC-ABS) with temperature resistance -20° C to +80° C.

Self-extinguishing polypropylene (PP) with temperature resistance -5° to +60° C.

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

Wiring boxes and accessories

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 (this classification applies to KU 68 LD/1HF and KP 64/LD HF boxes). For other halogen-free jjunction box, the manufacturer recommends mounting on and in construction materials with fire class A1 to C or D according to ČSN EN 13 501-1.

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

In combination with heat-insulating non-flammable pad with thickness of 5 mm made of material (see page 1-87) over the whole contact surface, or with heatinsulating bed, the installation on construction materials may be carried out without any limitation.

The material is resistant to flame propagation and is halogen free. It is used for environment with higher concern over public and health protection.

Compared to commonly manufactured types, the jjunction distribution boxes differ only in used material, which is marked with the HF letters at the end of the type code

Accessories	<u>1-78</u>
Terminal plates	<u>1-88</u>

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

Help tools and utilities	<u>1-91</u>
Multi-purpose box KOPOBOX MINI	<u>1-94</u>

Material: self-snuffing PC-ABS of temperature resistance from -5 till +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 intended for distributions of max. voltage of 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.



self-extinguishing halogen-free polyamide (PA), halogen-free

polyethylene (PE). Temperature resistance is -5 to +60 ° C. According to the requirements of ČSN EN 60 670-1 § 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.

Sets are designed for use in cast concrete floors, IP30 protection. The boxes are designed for distribution system with voltage up to 500 V.

Into poured concrete 1-107

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.

Boxes pass the test of resistance to excessive heat and burning with a hot loop with a temperature of 650 ° C according to the requirements of ČSN EN 60670-1 Art. 18, the polyethylene used is not self-extinguishing. The boxes are designed for distribution system with voltage up to 400 V.



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

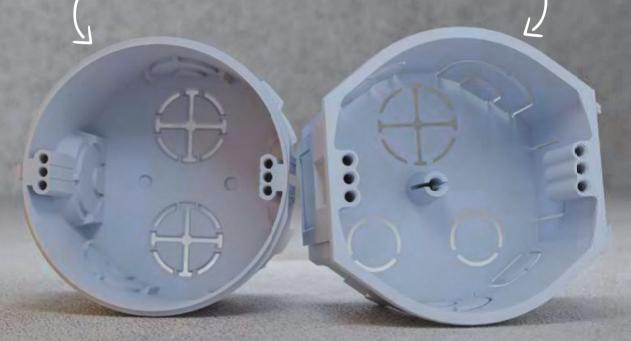
	Icons - legend					
MAT	material	M	product for sound insulation walls			
	temperature resistance, scope of application (°C)		length (mm)			
	flaming loop test (°C)	IK N	mechanical protection			
	fire reaction class of underlying material	‡ 	dimensions - width, height, depth (mm)			
	self-extinguishing		number of conductors x diameter (mm²), load-current capacity (A)			
99	spacing when joining two boxes (mm)		milled (drilled) hole diameter (mm)			
	allows to install double-socket		package (pcs)			
Pb	products manufactured from leadless material		accessories, additional assortment			
Ť	level of protection - IP classification	*	tools for installation			
HF	halogen-free material					



WIRING BOXES

CHOOSE YOUR WAY

STANDARD SHAPE INNOVATIVE SHAPE



KP 68

KU 68-45

www.kopos.com

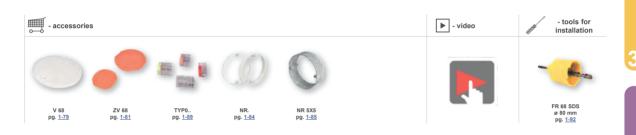




-5 - +60°C 850°C A1 - F

- IP30
- 30 sec Connection in a continuous row with a spacing of 71 mm possible
- The boxes can be connected to KPR 68/D.
- Inlet openings made of flexible material.
- The installation of the cable or pipe is performed by tearing out the prepressed inlet on the flexible membranes and inserting the cable or pipe into the created hole.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Suitable for low-energy or passive houses.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.
- European Industrial design protection and European Utility models protection.
- Sale in whole packages (100 pcs).

item	description		EAN
KP 68/D_KA	boxes loosely inserted into the carton, instrument screws included	100	8595568932327





- instrument box



- MAT -5 - +60°C 850°C A1 - F 30 sec.
- Easy installation of devices with great depth.
- Connection in a continuous row with a spacing of 71 mm possible.
- The boxes can be connected to KP 68/D.
- Inlet openings made of flexible material.
- The installation of the cable or pipe is performed by tearing out the prepressed inlet on the flexible membranes and inserting the cable or pipe into the created hole.

IP30

- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Suitable for low-energy or passive houses.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.
- European Industrial design protection and European Utility models protection.
- Sale in whole packages (66 pcs).

item	description		EAN
KPR 68/D_KA	boxes loosely inserted into the carton, instrument screws included	66	8595568932334















Ø 6-12 (7x)

Ø 6-16 (20)

for mounting a double-socket

index

KP 68-30

- universal box

MAT

-5 - +60°C 850°C A1 - D 30 sec

- Connection in a continuous row with a spacing of 71 mm possible. The boxes can be connected to KU 68-45, KPR 68-70, KP 68/D, KPR 68/D and KP 68-45.
- More space for the electroinstallation.
- Allows the installation of wiring in thin partitions.
- European Industrial design protection and European Utility models protection.

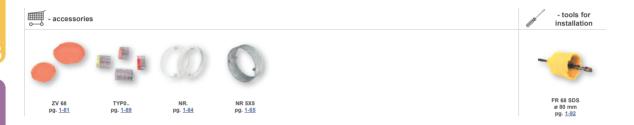




Ø20 (3x)

.Ø15(2x)

item	description		EAN
KP 68-30_KA	boxes loose in cardboard, device screws not placed in boxes	100	8595568938497



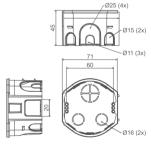




- MAT

- Connection in a continuous row with a spacing of 71 mm possible.

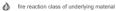
 The boxes can be connected to KP 68-30, KU 68-45, KPR 68-70, KP 68/D and KPR 68/D.
- More space for the electroinstallation.
- European Industrial design protection and European Utility models protection.
- Sale in whole packages (100 pcs).



item	description		EAN
KP 68-45	boxes loose in cardboard, device screws not placed in boxes	100	8595568939678















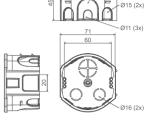
KU 68-45 - universal box





-5 - +60°C 850°C A1 - D 30 sec

- Connection in a continuous row with a spacing of 71 mm possible. The boxes can be connected to KPR 68-70, KP 68/D, KPR 68/D, KP 68-30 and KP 68-45.
- More space for the electroinstallation.
- European Industrial design protection and European Utility models protection.
- Sale in whole packages (100 pcs).
- Direct replacement for the box KU 68-1901.



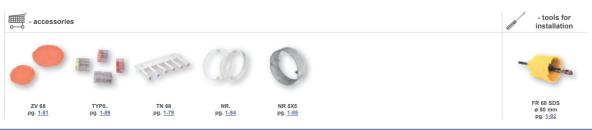
item	description		EAN
KU 68-45_KA	boxes loosely inserted into the carton, instrument screws included	100	8595568936233





- Sale in whole packages (80 pcs).
- Direct replacement for the box KU 68-1902.



















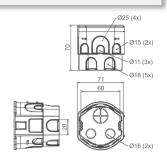


- universal box

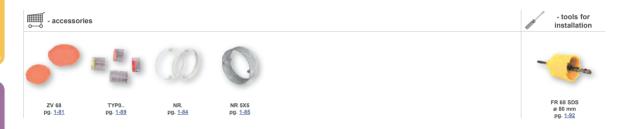


-5 - +60°C 850°C A1 - D 30 sec

- Connection in a continuous row with a spacing of 71 mm possible. The boxes can be connected to KU 68-45, KP 68/D, KPR 68/D, KP 68-30 and KP 68-45.
- More space for the electroinstallation.
 European Industrial design protection and European Utility models protection.
- Sale in whole packages (66 pcs).



item	description		EAN
KPR 68-70_KA	boxes loosely inserted into the carton, instrument screws included	66	8595568936240

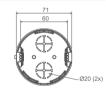








- Possibility to join into and continuous series with and spacing of 71 mm.
- Connection of up to three boxes in and row is recommended.
- The boxes can be connected to KP 68 and KPR 68.
- Allows the installation of wiring in thin partitions.
- Sale in whole packages (150 pcs).





item	description		EAN
KP 68/2_KA	boxes loose in cardboard, device screws not placed in boxes	150	8595057600089















KP 68

- instrument box







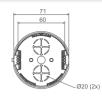






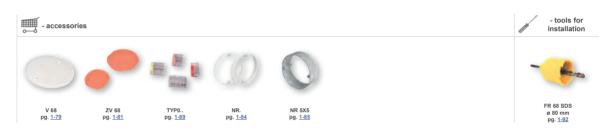
-5 - +60°C 850°C A1 - D 30 sec

- Possibility to join into and continuous series with and spacing of 71 mm.
- Connection of up to three boxes in and row is recommended. The boxes can be connected to KP 68/2 and KPR 68.
- Universal box for most devices. Sale in whole packages (100 pcs).





item	description		EAN
KP 68_KA	boxes loose in cardboard, device screws not placed in boxes	100	8595568910592





- instrument box















-5 - +60°C 850°C A1 - D 30 sec.

- Easy installation of devices with great depth.

 Possibility to join into and continuous series with and spacing of 71 mm.
- Connection of up to three boxes in and row is recommended.
- Possibility to easily clamp under the device using screwless terminals.
- The boxes can be connected to KP 68/2 and KP 68.
- Sold in the smallest complete packages (10 pcs).



Ø20 (1x)

item	description		EAN
KPR 68_KA	packed in packs of 10 pieces in shrink foil, packs placed in cardboard	10; 100	8595057648302















KP 67/2

- instrument box



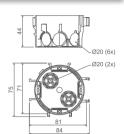


-5 - +60°C 850°C A1 - D 30 sec.

- Vertical and horizontal connection with a spacing of 71 or 81 mm.
- Possibility to connect up to 5 boxes vertically and horizontally.

 Possibility to increase axial distance with a spacer DR 18 for the design lines Element, Neo, etc.

 Sale in whole packages.



item	description		EAN
KP 67/2_KA	boxes loose in cardboard, device screws not placed in boxes	90	<u>8595057615496</u>

- accessories









V 68 pg. <u>1-79</u> DR18 pg. <u>1-85</u>

NR. pg. <u>1-84</u>

KP 67/3







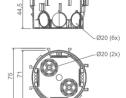






-5 - +60°C 850°C

- Possibility to connect up to 5 boxes vertically and horizontally.
- Suitable for 2x double frame.
- When using the DR18 spacers, boxes are suitable for devices with larger widths, such as Neo.
- Sale in whole packages (100 pcs).



item	description		EAN
KP 67/3_KA	boxes loose in cardboard, device screws not placed in boxes	100	<u>8595057650558</u>

















- instrument box



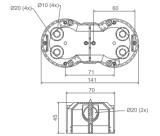








- For modern installations in combined frames.
- Significant rigidity makes device installation easier. Sold in the smallest complete packages (2 pcs).



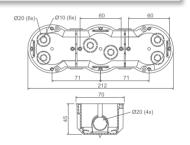
item	description		EAN
KP 64/2_KA	two boxes packed in shrink foil and covered with label, device screws included in the bag, packs placed in cardboard	2; 50	<u>8595057632707</u>



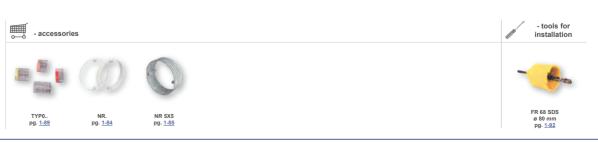




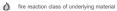
- For modern installations in combined frames.
- Significant rigidity makes device installation easier. Sold in the smallest complete packages (2 pcs).



item	description		EAN
KP 64/3_KA	two boxes packed in shrink foil and covered with label, device screws included in the bag, packs placed in cardboard	2; 32	<u>8595057632714</u>













KP 64/4

- instrument box





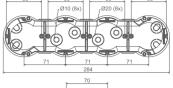






-5 - +60°C 850°C A1 - D 30 sec

- For modern installations in combined frames.
- Significant rigidity makes device installation easier. Sold in the smallest complete packages (2 pcs).





item	description		EAN
KP 64/4_KA	two boxes packed in shrink foil and covered with label, device screws included in the bag, packs placed in cardboard	2; 28	8595057632721









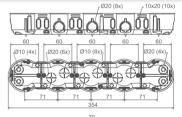






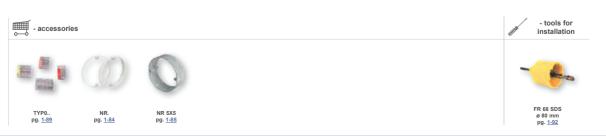


- For modern installations in combined frames.
- Significant rigidity makes device installation easier. Sold in the smallest complete packages (2 pcs).





item	description		EAN
KP 64/5_KA	two boxes packed in shrink foil and covered with label, device screws included in the bag, packs placed in cardboard	2; 16	8595057657212











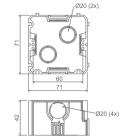
under parget **KP 67X67**



- instrument box

MAT

- -5 +60°C 850°C A1 - D 30 sec
- 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	description		EAN
KP 67X67_KA	boxes loose in cardboard, device screws not placed in boxes	100	8595057600072





- universal box







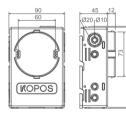








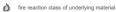
- -5 +60°C 850°C A1 D 30 sec. PVC
- More space in the box allows the insertion of active elements under the device.
- Possibility to insert the terminal S-66 directly under the device.
- Suitable for modern electrical system with higher space requirements.



item	description		EAN
KUH 1_KA	boxes packed individually in shrink foil, installation screws included	1; 35	<u>8595057688445</u>

















KO 97/5

- junction box with cover KO 97 V

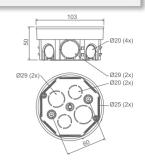




-5 - +60°C 850°C A1 - D

- A large number of knockouts to make larger installations.
- Projections against ripping the box out of the wall.

 Sufficient space for terminal plate and circuit connection.



item	description		EAN
KO 97/5_KA	boxes with attached lids placed in a cardboard separately	90	<u>8595057600164</u>



- accessories



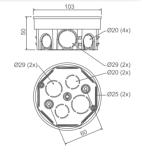
KR 97/5

- junction box with cover KO 97 V and terminal plate SP-96



- MAT

- A large number of knockouts to make larger installations. Projections against ripping the box out of the wall. Sufficient space for terminal plate and circuit connection.



item	description		EAN
KR 97/5_KA	terminal plate SP-96 screwed into the box, lids included and each box placed into cardboard	80	<u>8595057600256</u>



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









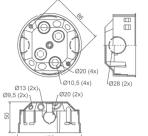






- A large number of knockouts to make larger installations.
- Projections against ripping the box out of the wall.

 Sufficient space for terminal plate and circuit connection.



item	description		EAN
KOM 97_KA	boxes with attached lids placed in a cardboard separately	1; 40	8595057632752



- accessories



KO 100

- box with cover









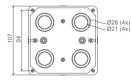




-5 - +60°C 850°C A1 - D 30 sec. PVC

A large number of knockouts for inserting cables and pipes.





item	description		EAN
KO 100_KA	individual boxes with lids individually packed in shrink foil and provided with a label, screws inserted in package	1; 74	8595057600133



- accessories









KO 100 E

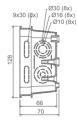
- box with cover V 100 E





-5 - +60°C 850°C A1 - D

- A large number of knockouts for inserting cables and pipes.
- Possibility to install the support trunking TS 35. Possibility to set the lid in and horizontal position.
- Possibility to break the sidewall for easier cable handling.





item	description		EAN
KO 100 E_KA	individual boxes with lids individually packed in shrink foil and provided with a label, screws inserted in package	1; 42	<u>8595057612655</u>



- accessories



KO 125

- box with cover KO 125 V







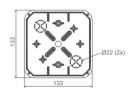




-5 - +60°C 850°C A1 - D 30 sec.

- A large number of knockouts for inserting cables and pipes. Possibility to install the support trunking TS 35 and terminal plates.





item	description		EAN
KO 125_KA	individual boxes with lids individually packed in shrink foil and provided with a label, screws inserted in package	1; 34	<u>8595057600140</u>



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





TS35 pg. <u>2-70</u>

KO 125 E

- box with cover V 125/1





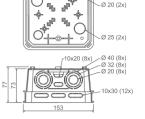






-5 - +60°C 850°C A1 - D

- A large number of knockouts for inserting cables and pipes.
- Possibility to install the support trunking TS 35.
 Possibility to set the lid in and horizontal position.
- Possibility to break the sidewall for easier cable handling.



11	
-466	۱

item	description		EAN
KO 125 E_KA	individual boxes with lids individually packed in shrink foil and provided with a label, screws inserted in package	1; 20	<u>8595057612587</u>

- accessories



KO 125 E/EQ02

- box with cover and equipotential terminal



inserted in package

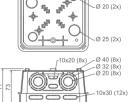








- Equipotential terminal plates for 5 wires of 25 mm and 1 flat wire of 30x4 mm.
- A large number of knockouts for inserting cables and pipes.
- Possibility to set the lid in and horizontal position.
- Possibility to break the sidewall for easier cable handling.



11.200	. 153	
description		EAN
individual boxes with lid and terminal block packed separately in shrink foil and provided with a label, screws	1; 20	<u>8595568909169</u>



- accessories

item

KO 125 E/EQ02_KA



V 125/1 pg. <u>1-80</u>











KT 250 - junction box

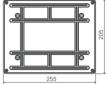




-5 - +60°C 850°C A1 - D

- Boxes for communication and power distribution.
- At the bottom of the box are grooves for mounting the telephone terminals. Suitable for surface mounting lid follows the size of the box.
- Boxes without preformed knockouts.





item	description		EAN
KT 250_KB	individual boxes with lids packed in shrink foil and provided with a label and placed in a carton	1; 11	8595057600294



- accessories



KT 250 V

pg. <u>1-80</u>



pg. <u>1-88</u>



pg. <u>1-88</u>



pg. <u>1-88</u>





pg. <u>1-89</u>

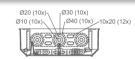
TS35 pg. <u>2-70</u>

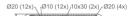
KT 250/1

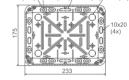
- box with cover VKT 250/L



- MAT A1 - D 30 sec.
- A large number of knockouts for inserting cables and pipes. Possibility to install support trunking TS 35 and equipotential terminal plate.
- Option to set the lid using oval holes in the box to the horizontal position.
- Possibility to break the sidewall for easier cable handling.









item	description		EAN
KT 250/1_KB	individual boxes with lids packed in shrink foil and provided with a label and placed in a carton	1; 12	8595057632738

















KEFZ 80/VDZ

- wiring box for final insulation with a drill









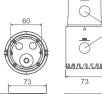




- For the installation of devices in insulated facades of buildings from an
- The box is suitable for facade polystyrenes and mineral wool.

 The box can also be mounted in finally made insulated facades.

 The package includes a manual drilling, box carrier, wiring box, assembly
- instructions and appropriate screws.
- To install more boxes, it is possible to order one KEFZ 80/VDZ set and hereinafter just KEFZ 80.
- Robust construction.
- See assembly video at www.kopos.com







Ø 20

	escription
KEFZ 80/VDZ_KBindividual sets packed in individual cartons185955688	1 8595568936271







KEFZ 80

- wiring box for final insulation



- MAT





A1 - F

- For the installation of devices in insulated facades of buildings from an insulation layer thickness of 80 mm.
- The box is suitable for facade polystyrenes and mineral wool.
- The box can also be mounted in finally made insulated facades.
- The package includes a box carrier, wiring box, assembly instructions and appropriate screws.
- For the first installation, it is necessary to buy the KEFZ 80/VDZ set, which also contains a manual drilling set.
- Robust construction.
- See assembly video at www.kopos.com







item	description		EAN
KEFZ 80_KB	individual boxes packed in separate cardboard	1	8595568936288











temperature resistance

flaming loop test









KEZ

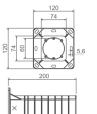
- installation box into thermal insulation





PP -25 - +60°C 850°C A1 - F 30 sec

- ▶ 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.
- Robust construction.
- See assembly video at www.kopos.com



item	description		EAN
KEZ_KB	individual boxes packed in separate cardboard	1	8595057698499









KEZ 300

- installation box into thermal insulation







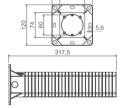






850°C A1 - F 30 se

- -25 +60°C 850°C A1 F 30 s
- 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.
- ► Robust construction.
- See assembly video at www.kopos.com



item	description		EAN
KEZ 300_KB	individual boxes packed in separate cardboard	1	8595568930798











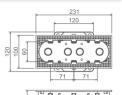
KEZ-3

- multiple electroinstallation box into thermal insulation





- For installation of two or three devices with a 71 mm axial distance in the insulated
- facades of buildings with a thickness of 100 250 mm. In the case of the use of a low-shield tripple frame, it is necessary to inform the
- suppliers about the possible way of sealing up it to 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.
- Robust construction.
- See assembly video at www.kopos.com





item	description		EAN
KEZ-3_KB	individual boxes packed in separate cardboard	1	<u>8595568910561</u>





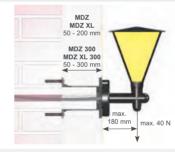




Assembling system into thermal insulation







MDZ, MDZ 300 - mounting desk into thermal insulation KEZ, KEZ 300 - electroinstallation box into thermal insulation





KEZ-3 - multiple electroinstallation box into thermal insulation

98 1

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.

MAT material

fire reaction class of underlying material

flaming loop test







MDFZ 80/VDZ

- mounting plate for final insulation with a drill











- 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. The box can also be mounted in finally made insulated facades.
- 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.
- See assembly video at www.kopos.com

item	description		EAN
MDFZ 80/VDZ_KB	MDFZ 80/VDZ_KB individual sets packed in individual cartons		<u>8595568936295</u>







MDFZ 80

- mounting plate for final insulation











- 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.
- The box can also be mounted in finally made insulated 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.
- See assembly video at www.kopos.com









material

fire reaction class of underlying material

temperature resistance



leadless material





10.74.74.74.74.00

Ø 20

MDZ

- mounting plate for final insulation





- 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.
- Robust construction.
- See assembly video at www.kopos.com



item	description		EAN
MDZ_KB	MDZ_KB individual mounting plates are packed in separate cardboard		<u>8595057698505</u>









MDZ 300

- mounting plate for final insulation











- Extended assembly for installation of electrical equipment (outdoor lights, motion
- 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.

sensors, 400 V sockets, etc.) on insulated facades of buildings with a thickness of 50 -

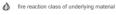
- Screws with a diameter of 4 to 5 mm are suitable for the mounting desk.
- Robust construction.
- See assembly video at www.kopos.com

item	description		EAN
MDZ 300_KB individual mounting plates are packed in separate cardboard		1	8595568930804

















MDZ XL

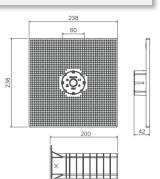
- mounting plate for final insulation





-25 - +60°C 850°C A1 - F 30 sec

- 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 mounting.
- Screws with a diameter of 4 to 5 mm are suitable for the mounting desk.
- Robust construction.
- The mounting desk has a clamping area.
- See assembly video at www.kopos.com



item	description		EAN
MDZ XL_KB	individual mounting plates are packed in separate cardboard	1	<u>8595568930491</u>







MDZ XL 300

- mounting plate for final insulation

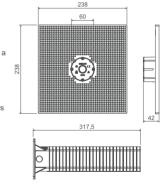
MAT





-25 - +60°C 850°C A1 - F 30 sec

- 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 mounting.
- Screws with a diameter of 4 to 5 mm are suitable for the mounting desk.
- Robust construction.
- The mounting desk has a clamping area.
- See assembly video at www.kopos.com



item	description		EAN
MDZ XL 300_KB	individual mounting plates are packed in separate cardboard	1	<u>8595568930811</u>









flaming loop test





ND KEZ

- spare part wiring box for thermal insulation





- 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	description		EAN
ND KEZ_KB	ND KEZ_KB individual boxes packed in shrink foil		<u>8595568925275</u>

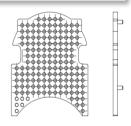
ND KEZ-3/Z

- spare plug for electrical installation box for thermal insulation



MAT

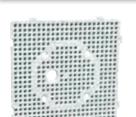
- Spare part KEZ-3 / Z_KB is a separate blanking plug, which is usually supplied in a set of boxes for insulation KEZ-3
- The blanking plug must be used only for the purposes prescribed in the installation instructions for the KEZ-3 box, ie for blinding one or both end positions of the KEZ-3 box.
- The blanking plug is not load-bearing, it is only used to cover the edge positions.



item	description		EAN
ND KEZ-3/Z_KB	individual plugs wrapped in foil	1; 30	<u>8595568934956</u>

ND MDZ

- spare part mounting desk for thermal insulation

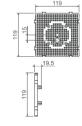


- MAT
- with the MDZ set. The plate must be used in combination with the supporting tube only, by means of standard assembly procedure.
- assembly procedure.

 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.

The spare part mounting desk for thermal insulation is an individual plate, normally supplied



item	description		EAN
ND MDZ_KB	individual mounting plates packed in shrink foil	1; 30	8595568925282











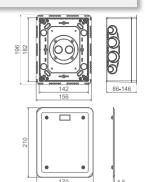


- universal box to thermal insulation with a lid





- 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.
 - The configuration includes a box and a flat lid + stainless steel screws + seal.
- Robust construction.
- European Industrial design protection and European Utility models protection.
- See assembly video at www.kopos.com
- It is possible to buy the lid V180_HB as a spare part.



item	description		EAN
KUZ-V_KB	individual boxes packed in separate cardboard	1	8595568923660



KUZ-VO

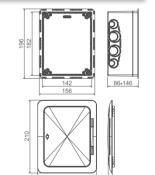
- universal box to thermal insulation with an opening lid







- 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.
- The configuration includes a box and an opening lid, inner mounting desk and stainless steel screws + seal.
- Robust construction.
- European Industrial design protection and European Utility models protection.
- See assembly video at www.kopos.com
 It is possible to buy the opening lid VO 180_KB as a spare part.



item	description		EAN
KUZ-VO_KB	individual boxes packed in separate cardboard	1	8595568923677

















index



- universal box to thermal insulation with a tube and a lid

MAT tube - PP





For device installation in insulated building facades with a thickness







Use as a junction box, for lightning rod measuring clamp and other applications according to the customer. Eliminates thermal bridging.

Adjustable depth of the box.

from 120 - 330 mm.

The configuration includes a box, a tube, external and internal insulation, assembly set insert, flat lid and stainless steel screws + seal.

- Robust construction
- European Industrial design protection and European Utility models protection.
- See assembly video at www.kopos.com
 It is possible to buy the lid V180_HB as a spare part.

+0		_	156	
-		•		
	210			
4,5	L		170	

item	description		EAN
KUZ-VI_KB	VI_KB individual boxes packed in separate cardboard		8595568923684







KUZ-VOI

- universal box to thermal insulation with a tube and an opening lid

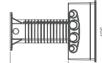












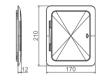


- For device installation in insulated building facades with a thickness from 120 - 330 mm.
- Use as a junction box, for lightning rod measuring clamp and other applications according to the customer.
 - Eliminates thermal bridging.
- Adjustable depth of the box.
- The configuration includes a box, a tube, external and internal insulation, assembly set insert, opening lid, mounting desk desk and stainless steel screws + seal.
- Robust construction

MAT tube - PP

box - PC-ABS

- European Industrial design protection and European Utility models protection.
- See assembly video at www.kopos.com
- It is possible to buy the opening lid VO 180_KB as a spare part.

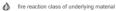


item	description		EAN
KUZ-VOI_KB	individual boxes packed in separate cardboard	1	<u>8595568923691</u>





















PN KUZ

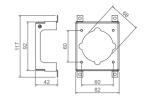
- instrument carrier for three-phase sockets

MAT

steel

- The instrument 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.
- Please remove mounting posts inside the KUZ box prior to the installation.

 Suitable instruments: SEZ IEN 1653, SEZ IEN 1643. With set depth of box KUZ min. 105 mm MENNEKES TYPE 1385, BALS TYPE 132001, ABB 416RU6.



item	description		EAN
PN KUZ_S	packed 1 pc in foil	1	8595568923844

Mounting the KUZ system to thermal insulation



KUZ-VI - universal box to thermal insulation with a lid



KUZ-VO - universal box to thermal insulation with an opening lid





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



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





WIRING BOXES

IN FLAMMABLE MATERIALS



- wiring boxes to hollow walls suitable for wiring in wooden structures - construction materials with fire classes A1 to F (according to ČSN EN 13501-1)
- air proof boxes for low-energy buildings
- complete range of instrument and junction boxes

KUL 68-45/LD

- universal box

PVC

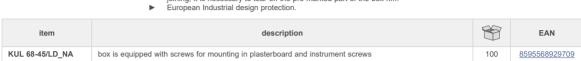




- -5 +60°C 850°C A1 - F 30 sec
- Inlet openings made of flexible material.
- The instalation of the cable is done by pulling the pre-pressed inlet on the flexible membranes and inserting the cable or pipe into the hole formed.

IP30

- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- The fixing screws as well as the instrument screws are double-threaded for quick installation; the box has plastic flanges.
- Prevents airflow through the installation.
- Sale in whole packages (100 pcs).
- When mounting, it is not necessary to countersink the plasterboard edge.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection
- Boxing with 71 mm axial spacing can be done with the SKLD 2 coupling (not included), when joining, it is necessary to tear off the pre-marked part of the box rim.





KUL 68-45/LD2

- universal box with cover V 68





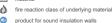
- Inlet openings made of flexible material.
- The instalation of the cable is done by pulling the pre-pressed inlet on the flexible membranes and inserting the cable or pipe into the hole formed.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
 - Mounting screws are fitted with a double thread for quick installation, the box includes plastic feet.
 - Prevents airflow through the installation.
 - Sale in whole packages.
 - The IP30 protection complys a box fitted with a lid.
 - When mounting, it is not necessary to countersink the plasterboard edge.



item	description		EAN
KUL 68-45/LD2_NA	the box is fitted with screws for fixing onto plasterboard, the lid is screwed onto the box	100	8595568930644

















- universal box



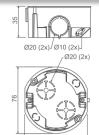


-5 - +60°C 850°C A1 - F 30 sec

- Connection in a continuous series with axial distance of 71 mm.
- Possibility to connect 3 boxes in a series.
- Integrated tip to mark the centre of drilling
- Jointed boxes can be interconnected using single insulated wires.
- Connectable with the box KPR 68/71L.
- Mounting screws are fitted with a triple thread for quick installation.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.

ID30

When mounting, it is not necessary to countersink the plasterboard edge.



item	description		EAN
KU 68/71L1_NA	boxes fitted with screws for mounting into double wall, device screws packed separately	120	<u>8595057688414</u>





- universal box

MAT



- 850°C A1 - F
- Inlet openings made of flexible material. The cable or tube installation is performed by extracting the pre-pressed inlet to the flexible membranes and then inserting the required item into the opening.
- Installation box in the hole is made by tightening mounting screws
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB. Mounting screws are fitted with a double thread for quick installation, the box includes plastic feet.
- The connecting pieces for the assembly of boxes with pitch 71 mm are part of the set; during
- assembly it is necessary to remove the pre-marked part of the box edge.
- When mounting, it is not necessary to countersink the plasterboard edge.
- Minimum unit for sale 8 pcs.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.
- Boxing with 71 mm axial spacing can be done with the SKLD 2 coupling (not included), when joining, it is necessary to tear off the pre-marked part of the box rim.
- European Industrial design protection.

item	description		EAN
KPRL 68-70/LD_NA	packed in 8-pc packages in schrink foil, packs aligned in cardboard, box is equipped with screws for mounting in plasterboard and instrument screws	8; 96	8595568925879



MAT material

> fire reaction class of underlying material product for sound insulation walls









0



- universal box

MAT

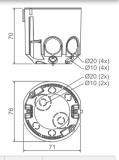
-5 - +60°C 850°C A1 - F 30 sec

- Easy installation of devices with great depth Connection in a continuous series with axial distance of 71 mm. 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 triple thread for quick installation.
- Sale in whole packages.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.

IP30

When mounting, it is not necessary to countersink the plasterboard edge.



item	description		EAN
KPR 68/71L_NA	individual boxes fitted with screws for mounting into double wall	60	<u>8595057687929</u>





- junction box

PVC













IP30

- According to the formerly valid standard ČSN 73 0862 the box complies with materials of fire classes A - C3.
- Special added outer sheat.

-5 - +60°C 850°C

- Mounting screws are fitted with a triple thread for quick installation.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.





item	description		EAN
KI 68 L/1_NA	individual boxes fitted with screws for mounting into double wall	80	<u>8595057600119</u>















KPL 64-../LD

- instrument box





- Inlet openings made of flexible material.
- The instalation of the cable is done by pulling the pre-pressed inlet on the flexible membranes and inserting the cable or pipe into the hole formed.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- Installation box in the hole is made by tightening mounting screws.
 Ensured airtightness of the passage even when the cable or pipe is inserted.
- The fixing screws as well as the instrument screws are double-threaded for quick installation; the box has plastic flanges.
- Sale in whole packages.
- When mounting, it is not necessary to countersink the plasterboard edge.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection
- KPL 64-45/LD protected by European industrial design trademark.





item	description	A mm		EAN
KPL 64-40/LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	40	110	<u>8595568924605</u>
KPL 64-45/LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	45	100	<u>8595568930835</u>
KPL 64-50/LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	50	110	8595568925299



- accessories



- tools for installation







TYP0 PATKA CR+3X pg. <u>1-87</u> pg. <u>1-79</u> pg. 1-89

VPTU: VPT 64 Ø 68 mm pg. <u>1-91</u>

KPRL 64-60/LD

- universal box





- Inlet openings made of flexible material.
- The instalation of the cable is done by pulling the pre-pressed inlet on the flexible membranes and inserting the cable or pipe into the hole formed.
- Installation box in the hole is made by tightening mounting screws.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- The fixing screws as well as the instrument 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 lid or a device with a higher or equal IP30 protection
- European Industrial design protection.





item	description		EAN
KPRL 64-60/LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	84	8595568929921





- tools for installation



pg. 1-89





VPTU; VPT 64 Ø 68 mm pg. <u>1-91</u>

pg. 1-79

temperature resistance

PATKA CR+3X

pg. 1-87



IP classification

product for sound insulation walls





<u></u>

20-25 (2x).Ø16-20 (4x).Ø6-9 (2x).Ø6-10 (12x)

KPL 64-../2LD

- instrument box





- For modern installations in combined frames
- Highly rigid design makes the device installation simpler. Inlet openings made of flexible material.
- Ensured airtightness of the passage even when the cable or pipe is inserted
- Prevents airflow through the installation.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB
- Two tips on the external side indicate the drilling points.
- Mounting bolts feature double-threaded design for quick installation.
- Installation box in the hole is made by tightening mounting screws. Cable installation is done by removing (breaking) pre-pressed membrane inlet and followed by inserting the cable possibly pipe.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.

IP30

- European Industrial design protection.
- Sale in whole packages (40 pcs).
- When mounting, it is not necessary to countersink the plasterboard edge.

item	description		EAN
KPL 64-50/2LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	40	<u>8595568926968</u>
KPL 64-40/2LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box, the box is equipped with a removable partition wall	50	8595568924612





- instrument box







-5 - +60°C 850°C













- Inlet openings made of flexible material.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Prevents airflow through the installation.
- Suitable for low-energy or passive houses and for soundproof walls
- with attenuation up to 69 dB.
 - Three tips on the external side indicate the drilling points.
 - Mounting bolts feature double-threaded design for quick installation.
 - Installation box in the hole is made by tightening mounting screws.
- Cable installation is done by removing (breaking) pre-pressed membrane inlet and followed by inserting the cable possibly pipe. European Industrial design protection.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.
- Sale in whole packages (30 pcs).
- When mounting, it is not necessary to countersink the plasterboard edge.

item	description		EAN
KPL 64-50/3LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	30	<u>8595568927705</u>
KPL 64-40/3LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box, the box is equipped with a removable partition walls	36	8595568932372





fire reaction class of underlying material









KPL 64-50/4LD

- instrument box













- Highly rigid design makes the device installation simpler.
- Inlet openings made of flexible material.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Prevents airflow through the installation.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- Four tips on the external side indicate the drilling points.
- Mounting bolts feature double-threaded design for quick installation.
- Installation box in the hole is made by tightening mounting screws.
- Cable installation is done by removing (breaking) pre-pressed membrane inlet and followed by inserting the cable possibly pipe.
- European Industrial design protection.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.
- Sale in whole packages (25 pcs).
- When mounting, it is not necessary to countersink the plasterboard edge.

item	description		EAN
KPL 64-50/4LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	25	8595568931948



KPL 64-50/5LD

- instrument box

















- Highly rigid design makes the device installation simpler.
- Inlet openings made of flexible material.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Prevents airflow through the installation.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- Five tips on the external side indicate the drilling points.
- Mounting bolts feature double-threaded design for quick installation.
- Installation box in the hole is made by tightening mounting screws.
- Cable installation is done by removing (breaking) pre-pressed membrane inlet and followed by inserting the cable possibly pipe.
- European Industrial design protection.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.
- Sale in whole packages (14 pcs),
- When mounting, it is not necessary to countersink the plasterboard edge

item	description		EAN
KPL 64-50/5LD_NA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	14	8595568934246

















VPTU; VPT 64

Ø 68 mm pg. 1-91

⊘6**-**10 (18x)



φφ spacing



KO 97/LD

- junction box with cover KO 97 V







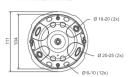




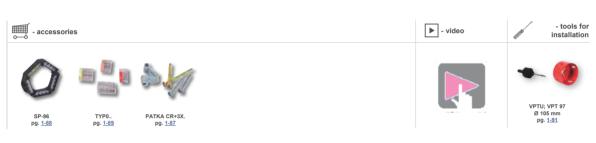


IP30

- Sufficient space to create larger electrical installations.
- Inlet openings made of flexible material.
- The installation of the cable or pipe is performed by tearing out the prepressed inlet on the flexible membranes and inserting the cable or pipe into the created
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Prevents airflow through the installation.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- When mounting, it is not necessary to countersink the plasterboard edge.
- Mounting bolts feature double-threaded design for quick installation.
 - European Industrial design protection. Sale in whole packages (72 pcs).



item	description		EAN
KO 97/LD_NA	the box is equipped with screws for mounting in plasterboard and with the enclosed lids inserted separately into the carton	72	8595568932594





- junction box with cover V 110 L and partition wall P 110 L





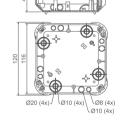




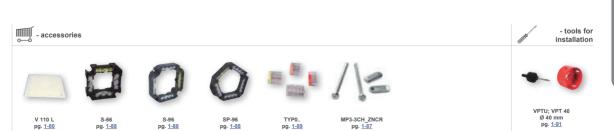




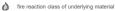
- The box can be used with an S-96 or SP-96 terminal strip or with two S-66 terminal strips, separated by a partition.
- Possibility to connect two different circuits of up to 400 V separated by a partition.
- Mounting screws are fitted with a triple thread for quick installation.
- Outer side of the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



item	description		EAN
KO 110/L_NA	lid screws inserted together with partition into box, each box with a lid sealed in shrink foil and labelled	1; 28	8595057611672















KO 125/1L

- box with cover V 125/1







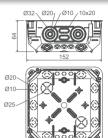








- A large number of knockouts for inserting cables and pipes. Possibility to install the support trunking TS 35.
- Possibility to set the lid in and horizontal position.
- Possibility to break the sidewall for easier cable handling. Outer side of the bottom contains holes for marking drill holes.
- Mounting screws are fitted with a triple thread for quick installation.
- The IP30 protection complys a box fitted with a lid.



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



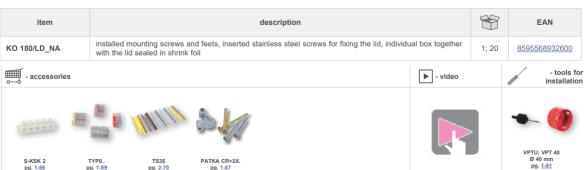


- box with cover V 180





- Possibility to install the support trunking TS 35
- 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
- Inlet openings made of flexible material.
- The installation of the cable or pipe is performed by tearing out the prepressed inlet on the flexible membranes and inserting the cable or pipe into the created hole
- Ensured airtightness of the passage even when the cable or pipe is inserted. Prevents airflow through the installation.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
 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.
 It is possible to buy the lid V 180_HB as a spare part.















KT 250/L

- box with cover VKT 250/L







-5 - +60°C 850°C







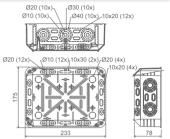


- IP30
- A large number of knockouts for inserting cables and pipes.
- Possibility to install the support trunking TS 35. Possibility to set the lid in and horizontal position.

- 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 triple thread for quick installation.
- The IP30 protection complys a box fitted with a lid.



item	description		EAN
KT 250/L_NB	the screws for fixing the lid and the screws for fixing to plasterboard are installed in the box, individual boxes together with the lid are packed in shrink wrap	1; 12	8595057618640



















VPTU; VPT 40 Ø 40 mm pg. 1-91

VKT 250/L pg. <u>1-80</u>

S-66 pg. <u>1-88</u>

S-96 pg. <u>1-88</u>

SP-96 pg. <u>1-88</u>

EPS 3 pg. <u>1-90</u>

TYP0.. pg. <u>1-89</u>

TS35 pg. <u>2-70</u> MP3-3CH_ZNCR pg. 1-87



KUH 1/L

- universal box









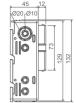






- -5 +60°C 850°C A1 - F 30 sec Installation on the reverse side of double wall with a thickness of 12.5 mm
- using the included screws. More space in the box allows the insertion of active elements under the device
- Possibility to insert the terminal S-66 directly under the device.
- Suitable for modern electrical system with higher space requirements.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.





item	description		EAN
KUH 1/L_NA	inserted into each box are installation and device screws, each box is individually wrapped in shrink foil and labelled	1; 35	<u>8595057687950</u>



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 <u>1-92</u>).



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















FIRE RESISTANT INSTRUMENT

HALOGEN FREE MATERIAL

SOUND-PROOF BOX BODY

MOUNTING AND DEVICE SCREWS INCLUDED IN THE BOX

SUITABLE FOR SOUNDPROOF WALLS
WITH ATTENUATION UP TO 69 dB

DRILL DIAMETER FOR INSTALLATION 73 MM

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

MULTIPLE VARIANTS



KPZ-1

- fire resistant instrument box

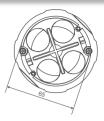


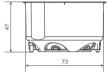


-5 - +60°C 850°C A1 - F 30 sec.

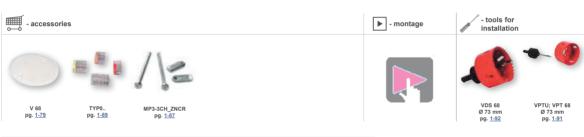
- Wiring device box for fire partitions.
- Suitable for installation in plasterboard and aerated concrete structures.
- Designed for distribution with voltage up to 400 V.
- Inlet openings made of flexible material.
- Ensured airtightness of the passage even when the cable or pipe is inserted. Foaming material on the outside and inside of the box. In the event of a fire, this material quickly changes its volume (swells) and thus seals the installation opening of the box and prevents the passage of fire through the partition.
- The diameter of the installation hole is 73 mm.
- Mounting screws and metal feets are provided with a three-way thread for quick installation.
- Suitable for buildings with increased personal and property protection in case of fire.
- The box is available in selected countries.

* For more detailed information, see the catalog Systems with Maintained Functionality in the Fire.





item	description		EAN
KPZ-1_PO	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	1; 36	8595568932358
KPZ-1_PO	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	1; 36	85955689323



Permissible technical parameters of the route	
max. number of boxes below each other	horizontally max. 3 pieces of boxes next to each other, vertically max. 2 pieces next to each other
fire resistance classification according to ČSN EN 1363-1:2013	El 15 - El 120, protocol number: PKO-19-031*



Demonstration of the behavior of a fire resistant instrument box.









KPZ 68-45

- fire resistant instrument box





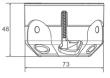
A1 - F 30 sec. -5 - +60°C 850°C

Provides integrity and insulation for up to 90 minutes in the event of a fire (EI 15 - EI 90).

IP30

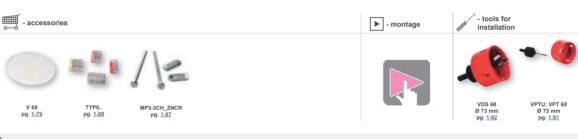
- Inlets made of flexible material
- Fire-resistant material is placed outside the box
- The diameter of the drill for installation is 73 mm.
- The box is soundproof (sound insulation up to 69 dB).
- Mounting screws are equipped with a three-way thread and metal feet for quick installation.
- Fire resistance classification: ČSN EN 1363-1, ČSN EN 1364-1, ČSN EN 1366-3, ČSN 73 0810.
- The box is intended primarily for buildings with an increased need for protection of people and property







item	description		EAN
KPZ 68-45_PO	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	1	<u>8595568937605</u>



KPZ 68-60

- fire resistant instrument box











IP30

- Provides integrity and insulation for up to 90 minutes in the event of a fire (EI 15 EI 90).
- Inlets made of flexible material.
- Fire-resistant material is placed outside the box.
- The diameter of the drill for installation is 73 mm
- The box is soundproof (sound insulation up to 69 dB).
- Mounting screws are equipped with a three-way thread and metal feet for quick installation.
- Fire resistance classification: ČSN EN 1363-1, ČSN EN 1364-1, ČSN EN 1366-3, ČSN 73 0810.
- The box is intended primarily for buildings with an increased need for protection of people and property.



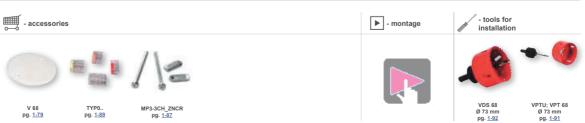


* For more detailed information, see the catalog Systems with Maintained Functionality





item	description		EAN
KPZ 68-60_PO	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	1	8595568937612



- 0 fire reaction class of underlying material product for sound insulation walls
- temperature resistance flaming loop test







index

KPZ 68-50/2

- fire resistant instrument box





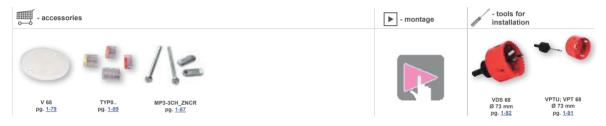
A1 - F 30 sec. -5 - +60°C

- Provides integrity and insulation for up to 90 minutes in the event of a fire (FI 15 - FI 90)
 - Inlets made of flexible material.
- Fire-resistant material is placed outside the box.
- The diameter of the drill for installation is 73 mm.
- The box is soundproof (sound insulation up to 69 dB).
- Mounting screws are equipped with a three-way thread and metal feet for quick installation.
- Fire resistance classification: ČSN EN 1363-1, ČSN EN 1364-1, ČSN EN 1366-3, ČSN 73 0810.
- The box is intended primarily for buildings with an increased need for protection of people and property.

* For more detailed information, see the catalog Systems with Maintained Functionality in the Fire.

IP30





KPZ 68-50/3

- fire resistant instrument box



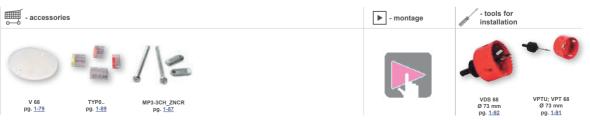


- a fire (El 15 El 90). Inlets made of flexible material.
- Fire-resistant material is placed outside the box.
- The diameter of the drill for installation is 73 mm.
- The box is soundproof (sound insulation up to 69 dB).
- Mounting screws are equipped with a three-way thread and metal feet for quick installation.

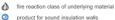
Provides integrity and insulation for up to 90 minutes in the event of

- Fire resistance classification: ČSN EN 1363-1, ČSN EN 1364-1,
- ČSN EN 1366-3. ČSN 73 0810.
- The box is intended primarily for buildings with an increased need for protection of people and property. * For more detailed information, see the catalog Systems with Maintained Functionality in the Fire.







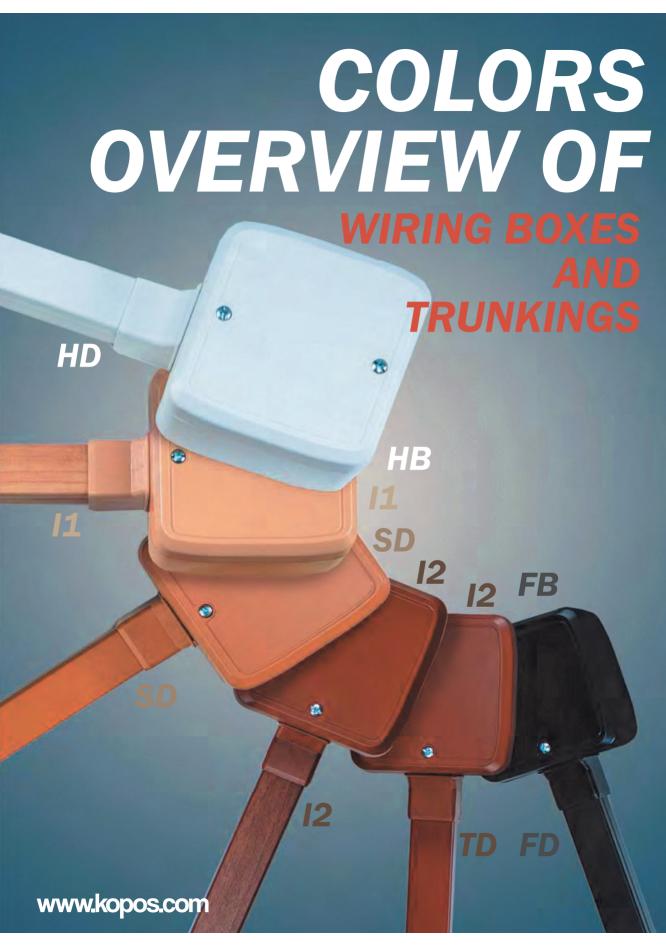












- instrument box





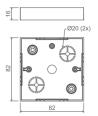






A1 - D -5 - +60°C 850°C

- Its shape is also suitable for older devices.
- To install on materials with fire classes E or F, use insulating pad.



item	description		EAN
LK 80/1_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 160	<u>8595057616387</u>



- accessories



LK 80/2

- junction box with cover VLK 80







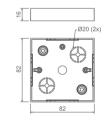




-5 - +60°C 850°C A1 - D 30 sec.

- 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 lid can be purchased separately.



item	description		EAN
LK 80/2_HB	boxes packed in shrink foil in packages of 10 pieces, lid screws included, lids individually wrapped in packages of 10 pieces	10; 110	<u>8595057616394</u>













LK 80X28/1

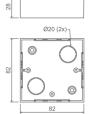
- instrument box







- 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	description		EAN
LK 80X28/1_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 100	8595057617193





LK 80R/1

- instrument box





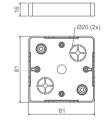








- Intended for devices of Classic and Swing ABB series. To install on materials with fire classes E or F, use insulating pad.



item	description		EAN
LK 80R/1_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 160	8595057616349











LK 80R/2

- junction box with cover VLK 80/R



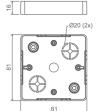








- -5 +60°C 850°C A1 - D To install on materials with fire classes E or F, use insulating pad.
- The lid can be purchased separately.



item	description		EAN
LK 80R/2_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 110	<u>8595057616356</u>









NR 80/R pg. <u>1-83</u>

TYP0.. pg. <u>1-89</u>

LK 80X20R/1

- instrument box





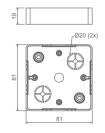






-5 - +60°C 850°C PVC

- 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	description		EAN
LK 80X20R/1_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 160	<u>8595057616486</u>













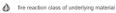
VLK 80/R pg. <u>1-81</u>

NR 80/R pg. <u>1-83</u>

PI 80R pg. <u>1-87</u>

S-66 pg. <u>1-88</u>

TYP0.. pg. <u>1-89</u>



















-5 - +60°C 850°C A1 - D 30 sec

PVC 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.

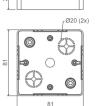
To install on materials with fire classes E or F, use insulating pad.











item	description		EAN
LK 80X28R/1_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - white RAL 9003	10; 120	8595057616479
LK 80X28R/1_I1	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - pink birch	10; 120	8595568908940
LK 80X28R/1_I2	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - dark oak	10; 120	8595568908988
LK 80X28R/1_SD	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - light wood	10; 120	8595568909022



- accessories



LK 80X28 2ZK

- instrument box

PVC





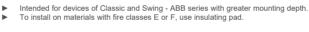








PC ABS - conf. I1

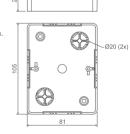












item	description		EAN
LK 80X28 2ZK_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - white RAL 9003	10; 80	<u>8595057616370</u>
LK 80X28 2ZK_I1	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - pink birch	10; 80	<u>8595568908957</u>
LK 80X28 2ZK_I2	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - dark oak	10; 80	<u>8595568908995</u>
LK 80X28 2ZK_SD	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - light wood	10; 80	8595568909039



- accessories



TYP0.. pg. <u>1-89</u>

PI 80 2ZK pg. 1-87

temperature resistance



index

LK 80X28 2R

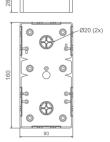
- instrument box







- A1 D -5 - +60°C 850°C
- 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 (2 pcs PI 80 2ZK). Installation of two devices or and double-socket.



item	description		EAN
LK 80X28 2R_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included for 2 devices included	10; 60	<u>8595057615519</u>



- accessories



VLK 80/R pg. <u>1-81</u>



VLK 80/2R pg. <u>1-82</u>



PI 80 2ZK pg. <u>1-87</u>





S-66 pg. <u>1-88</u>





LK 80X16 T

- instrument box



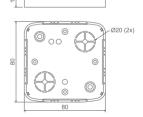






-5 - +60°C 850°C

- Intended for devices of Tango ABB series. To install on materials with fire classes E or F, use insulating pad.



item	description		EAN
LK 80X16 T_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 160	<u>8595057619296</u>



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



LK 80X28 T

- instrument box









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.

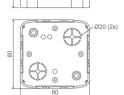












item	description		EAN
LK 80X28 T_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - white RAL 9003	10; 100	8595057617308
LK 80X28 T_I1	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - pink birch	10; 100	8595568908964
LK 80X28 T_I2	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - dark oak	10; 100	8595568909008
LK 80X28 T_SD	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - light wood	10; 100	8595568909046
LK 80X28 T_FB	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - black	10; 100	8595568936264













VLK 80/T pg. <u>1-82</u>

NRT pg. <u>1-83</u>

PI 80T pg. <u>1-87</u>

S-66 pg. <u>1-88</u>

TYP0.. pg. <u>1-89</u>

LK 80X28 2ZT

- instrument box















A1 - D 30 sec. PVC

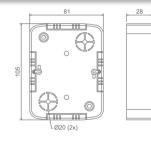
PC ABS - conf. I1 Intended for devices of Tango - ABB series with greater mounting depth. To install on materials with fire classes E or F, use insulating pad.











item	description		EAN
LK 80X28 2ZT_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - white RAL 9003	10; 80	<u>8595057616332</u>
LK 80X28 2ZT_I1	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - pink birch	10; 80	<u>8595568908971</u>
LK 80X28 2ZT_I2	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - dark oak	10; 80	<u>8595568909015</u>
LK 80X28 2ZT_SD	boxes packed in shrink foil in packages of 10 pieces, device screws included, color - light wood	10; 80	<u>8595568909053</u>







fire reaction class of underlying material

flaming loop test







index

LK 80X28 2T

- instrument box





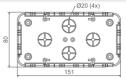




-5 - +60°C 850°C

- 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	description		EAN
LK 80X28 2T_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included for 2 devices included	10; 60	<u>8595057617315</u>

- accessories



LKM 45

- universal box





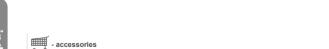


The box consists of two parts, the top and bottom part.

To install on materials with fire classes E or F, use insulating pad.



item	description		EAN
LKM 45_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 120	<u>8595057634855</u>





pg. <u>1-89</u>











KSK 80

- junction box with IP protection











- cover DA Intended for installation in environments that require IP 66 protection.
- Made of UV stabile material.
- Integrated knockouts for mounting on base.
 Intended for direct installation on the surface without having to support with insulating pad.
- Perfect sealing of cables and pipes.
- The stainless screws for lid installation and caps for the heads of the mounting screws are included in the package.
- Option to install special terminal plate (S-KSK 1).
- Integrated O-ring to install cable glands.
- 8x knockouts with Ø20 mm.
- European Utility models protection.





item	description		EAN
KSK 80_KA	plugs and lid screws inserted in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 60	8595568910608
KSK 80_FA	plugs and lid screws inserted in the box, each box packed in shrink foil and labelled, color - black	1; 60	8595568930910



KSK 100

- junction box with IP protection



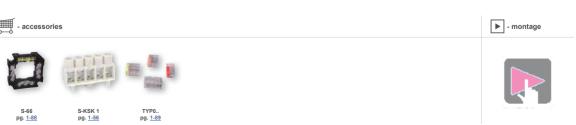


- Intended for installation in environments that require IP 66 protection.
- Made of UV stabile material.
- Integrated knockouts for mounting on base.
- Intended for direct installation on the surface without having to support with insulating pad.

 Perfect sealing of cables and pipes.
- The stainless screws for lid installation and caps for the heads of the mounting screws are included in the package.
- Option to install special terminal plate (S-KSK 1).
- Integrated O-ring to install cable glands.
- 7x knockouts with Ø25 mm and 1x Ø20 mm.
- European Utility models protection.

9	Ø20 (1x) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
50	101

item	description		EAN
KSK 100_KA	plugs and lid screws inserted in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 30	<u>8595568910615</u>
KSK 100_FA	plugs and lid screws inserted in the box, each box packed in shrink foil and labelled, color - black	1; 30	8595568930927













KSK 125

- junction box with IP protection







cover - DA















Made of UV stabile material.

Integrated knockouts for mounting on base.

- Intended for direct installation on the surface without having to support with insulating pad.
- Perfect sealing of cables and pipes.
- The stainless screws for lid installation and caps for the heads of the mounting screws are included in the package.
- Option to install special terminal plate (S-KSK 2)
- Integrated O-ring to install cable glands.
- 7x membrane inputs with Ø20 mm, 6x Ø25 mm and 5x break-out inputs with Ø32 mm.
 - European Utility models protection.

item	description		EAN
KSK 125_KA	plugs and lid screws inserted in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 36	8595568919670



- accessories



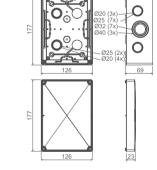
KSK 175

- junction box with IP protection





- Intended for installation in environments that require IP 66 protection.
- Made of UV stabile material.
- Integrated knockouts for mounting on base.
- Intended for direct installation on the surface without having to support with insulating pad.
- Perfect sealing of cables and pipes.
- The stainless screws for lid installation and caps for the heads of the
- mounting screws are included in the package. Option to install special terminal plate (S-KSK 2). Integrated O-ring to install cable glands.
- 7x membrane inputs Ø20 mm, 9x Ø25 mm, 7x break-out inputs Ø32 mm and 3x Ø40 mm.
- European Utility models protection.



item	description		EAN
KSK 175_KA	plugs and lid screws inserted in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 22	8595568919687















S-KSK 1

- terminal plate







A1 - F 30 sec

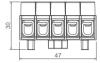




- Suitable for boxes KSK 80 and KSK 100.
- Branching terminal plate are composed of five separate terminals.

 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	description		EAN
S-KSK 1_KB	10 pcs of terminal plates are packed in shrink wrap, provided with a label	10; 460	<u>8595568919656</u>





S-KSK 2

- terminal plate









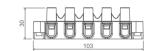
-40 - +85°C 850°C

A1 - F

- 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.



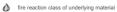




item	description		EAN
S-KSK 2_KB	10 pcs of terminal plates are packed in shrink wrap, provided with a label	10; 200	<u>8595568919663</u>













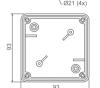
47 cover (







- For installation in environment with increased humidity, dust, chemical and corrosion resistance in environments with increased risk of mechanical damage.
- Universal grommets for cables and pipes, grommets can be ordered separately. To install on materials with fire classes E or F, use thermally insulating pad.



item	description		EAN
8101_LA	cable grommets and lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 55	<u>8595057608801</u>
8101_KA	cable grommets and lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 55	8595057655959



- accessories



8102

- junction box with sealing 1601 and terminal plate S-66







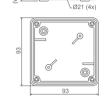






- For installation in environment with increased humidity, dust, chemical and corrosion
- resistance in environments with increased risk of mechanical damage. Universal grommets for cables and pipes, grommets and terminal plates can be ordered separately.

 To install on materials with fire classes E or F, use thermally insulating pad.



item	description		EAN
8102_LA	cable grommets, terminal plates and lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 55	<u>8595057608818</u>
8102_KA	cable grommets, terminal plates and lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 55	<u>8595057655966</u>



- accessories



1601 pg. <u>1-66</u>

fire reaction class of underlying material

flaming loop test



IP classification



leadless material

index

8106

- junction box with sealing G-49





For installation in environment with increased humidity, dust, chemical and corrosion

- resistance in environments with increased risk of mechanical damage. Universal grommets for cables and pipes, grommets can be ordered separately. To install on materials with fire classes E or F, use thermally insulating pad.





item	description		EAN
8106_LA	cable grommets and lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 100	8595057603332
8106_KA	cable grommets and lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 100	8595057655973



- accessories

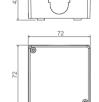


8107

- junction box with sealing G-49 and terminal plate S-66



- MAT
- For installation in environment with increased humidity, dust, chemical and corrosion resistance in environments with increased risk of mechanical damage. Universal grommets for cables and pipes, grommets and terminal plates can be ordered separately.
- To install on materials with fire classes E or F, use thermally insulating pad.



item	description		EAN
8107_LA	cable grommets, terminal plates and lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 100	<u>8595057603387</u>
8107_KA	cable grommets, terminal plates and lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 100	8595057655980







8110

- junction box with sealing 1611











- For installation in environment with increased humidity, dust, chemical and corrosion resistance in environments with increased risk of mechanical damage.

 Universal grommets for cables and pipes, grommets can be ordered separately.

 To install on materials with fire classes E or F, use thermally insulating pad.





item	description		EAN
8110_LA	cable grommets and lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 28	8595057603349
8110_KA	cable grommets and lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 28	8595057655997



- accessories









S-96 pg. <u>1-88</u>

SP-96 pg. <u>1-88</u>

TYP0.. pg. <u>1-89</u>

1611 pg. <u>1-66</u>

8111

- junction box with sealing 1611 and terminal plate S-96













- For installation in environment with increased humidity, dust, chemical and corrosion resistance in environments with increased risk of mechanical damage.
- Universal grommets for cables and pipes, grommets and terminal plates can be ordered separately. To install on materials with fire classes E or F, use thermally insulating pad.

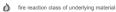
item	description		EAN
8111_LA	cable grommets, terminal plates and lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 20	<u>8595057603394</u>
8111_KA	cable grommets, terminal plates and lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 20	<u>8595057656000</u>



- accessories















8112

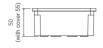
- box





-5 - +60°C 850°C A1 - D

- For installation in environment with increased humidity, dust, chemical and corrosion resistance in environments with increased risk of mechanical damage.
- Closed box without inlets.
- To install on materials with fire classes E or F, use thermally insulating pad.





item	description		EAN
8112_LA	lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 28	<u>8595057603356</u>
8112_KA	lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 28	<u>8595057656017</u>



- accessories







S-96 pg. <u>1-88</u>

pg. <u>1-88</u>

TYP0.. pg. <u>1-89</u>

8117

- junction box with sealing 1618





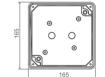








- For installation in environment with increased humidity, dust, chemical and corrosion resistance in environments with increased risk of mechanical damage.
- Universal grommets for cables and pipes, grommets can be ordered separately. To install on materials with fire classes E or F, use thermally insulating pad.



item	description		EAN
8117_LA	cable grommets and lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 24	<u>8595057603363</u>
8117_KA	cable grommets and lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 24	<u>8595057656024</u>













SP-96 pg. <u>1-88</u>

TYP0.. pg. <u>1-89</u>

1618 pg. <u>1-66</u>

fire reaction class of underlying material



















C -5 - +60°C 850°C A1 - D 30 sec. I

- For installation in environment with increased humidity, dust, chemical and corrosion resistance in environments with increased risk of mechanical damage.
- Universal grommets for cables and pipes, grommets and terminal plates can be ordered separately.
- To install on materials with fire classes E or F, use thermally insulating pad.





item	description		EAN
8118_LA	cable grommets, terminal plates and lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 24	8595057603400
8118_KA	cable grommets, terminal plates and lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 24	<u>8595057656031</u>





8119 - box



MAT











VC -5 - +60°C 850°C A1 - D 30 sec. IP5

- For installation in environment with increased humidity, dust, chemical and corrosion resistance in environments with increased risk of mechanical damage.
- Closed box without inlets.
- ▶ To install on materials with fire classes E or F, use thermally insulating pad.



item	description		EAN
8119_LA	lid screws placed in the box, each box packed in shrink foil and labelled, color - dark grey RAL 7012	1; 24	8595057603370
8119_KA	lid screws placed in the box, each box packed in shrink foil and labelled, color - light grey RAL 7035	1; 24	<u>8595057656048</u>









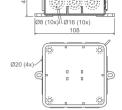


8130 - box





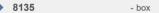
- For installation in environments with increased humidity and dust.
- Inlets for cables or pipes of 16 and 20 mm in accordance with EN 60423.
- Possibility to install on materials of fire classes A1 to D.



item	description		EAN
8130_HA	box pack loosely in a box, color - white RAL 9003	1; 60	<u>8595057697300</u>
8130_KA	box pack loosely in a box, color - light grey RAL 7035	1; 60	<u>8595057619050</u>



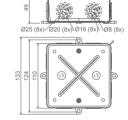




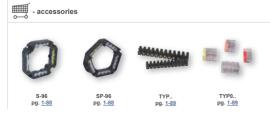




- For installation in environments with increased humidity and dust. Inlets for cables or pipes of 16, 20 and 25 mm in accordance with EN 60423. Possibility to install on materials of fire classes A1 to D.



item	description		EAN
8135_HA	box pack loosely in a box, color - white RAL 9003	1; 30	8595057697317
8135_KA	box pack loosely in a box, color - light grey RAL 7035	1; 30	<u>8595057616493</u>













003.CS.K

- box with IP protection



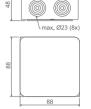








- Equipped with an eye for sealing.
- To install on materials with fire classes A2-D, use thermally insulating pad.
- 8x knockouts with max. Ø 23 mm.



item	description		EAN
003.CS.K_KB	boxes packed loosely in cardboard, color - light grey RAL 7035	1; 66	8595057624658

- accessories



TYP0.. pg. <u>1-89</u>

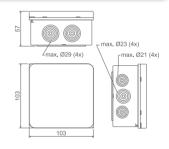
005.CS.K

- box with IP protection





- Equipped with an eye for sealing.
- To install on materials with fire classes A2-D, use thermally insulating pad.
- 12 inlets 4x knockouts with Ø 21 mm; 4x knockouts with Ø 23 mm; 4x knockouts with Ø 29 mm.



item	description		EAN
005.CS.K_KB	boxes packed loosely in cardboard, color - light grey RAL 7035	1; 30	8595057624665

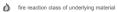


- accessories



TYP0.. pg. <u>1-89</u>













7116 B 7116 C

- box with cover and protective terminal
- box with cover





- Boxes for piping with steel threaded or metal flexible pipes.
- Three glands and one plug evenly distributed 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 protective terminal for installation in TNC networks.

item	description	1		EAN
7116 B_P16	glands for threaded pipes P16	96 x 96 x 64 mm	1; 12	8595057604124
7116 B_M20	glands for threaded pipes M20		1; 12	8595057689527
7116 C_P16	glands for threaded pipes P16		1; 12	<u>8595057604131</u>
7116 C_M20	glands for threaded pipes M20		1; 12	<u>8595057689534</u>



- accessories



P-16 pg. <u>1-67</u>

pg. <u>1-89</u>

7216 B 7216 C

- box with cover and protective terminal
- box with cover





- Boxes for piping with steel threaded or metal flexible pipes. **Four glands and one plug** evenly distributed 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 protective terminal for installation in TNC networks.

item	description	1		EAN
7216 B_P16	glands for threaded pipes P16	96 x 96 x 64 mm	1; 12	8595057604186
7216 B_M20	glands for threaded pipes M20		1; 12	<u>8595057689541</u>
7216 C_P16	glands for threaded pipes P16		1; 12	8595057604193
7216 C_M20	glands for threaded pipes M20		1; 12	<u>8595057689558</u>





TYP0.. pg. <u>1-89</u>

P-16 pg. <u>1-67</u>







7121 B 7121 C

- box with cover and protective terminal
- box with cover





- Boxes for piping with steel threaded or metal flexible pipes.

 Three glands and one plug evenly distributed 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 protective terminal for installation in TNC networks.

item	description	1		EAN
7121 B_P21	glands for threaded pipes P21	120 x 120 x 76 mm	1; 12	<u>8595057604155</u>
7121 B_M25	glands for threaded pipes M25		1; 12	<u>8595057689565</u>
7121 C_P21	glands for threaded pipes P21		1; 12	8595057604162
7121 C_M25	glands for threaded pipes M25		1; 12	8595057689572





P-21 pg. <u>1-67</u>

TYP0.. pg. <u>1-89</u>

7221 B 7221 C

- box with cover and protective terminal
- box with cover





-25 - +70°C A1 - D IK10

- Boxes for piping with steel threaded or metal flexible pipes.
- Four glands and three plugs evenly distributed 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 protective terminal for installation in TNC networks.

item	description	1		EAN
7221 B_P21	glands for threaded pipes P21	120 x 120 x 76 mm	1; 12	8595057604216
7221 B_M25	glands for threaded pipes M25		1; 12	<u>8595057689589</u>
7221 C_P21	glands for threaded pipes P21		1; 12	8595057604223



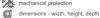
- accessories



TYP0.. pg. <u>1-89</u>

P-21 pg. <u>1-67</u>









1601

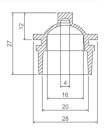
- sealing grommet





- For 8101 and 8102 type boxes.
- Suitable for pipe with and diameter of 20 mm.

 When removing the projections, it is designed for cables of max. 16 mm in diameter.



item	description		EAN
1601_LB	color - dark grey	10; 900	8595057627222
1601_KB	color - light grey	10; 900	8595057656703

1611; 1618

- sealing grommet

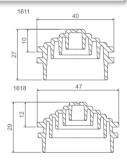








- Holes for cable and pipe inlet are marked gradually. Grommet 1611: for 8110 and 8111 type boxes, for pipes with 16, 25, 32 in dimension.
- Grommet 1618: for 8117 and 8118 type boxes, for pipes with 16, 25, 32, 40 in dimension.



item	description	A mm	B mm		EAN
1611_KB	color - light grey	40	27	7; 490	<u>8595057656710</u>
1611_LB	color - grey		21	7; 490	<u>8595057629325</u>
1618_KB	color - light grey	48	20	7; 420	<u>8595057656727</u>
1618_LB	color - grey		29	7; 420	8595057629332

P-16; P-21

- sealing cork



-25 - +70°C

- AL
- 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	description		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

index



WIRING HALOGEN FREE BOXES







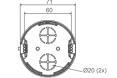
KP 68/2HF

- instrument box



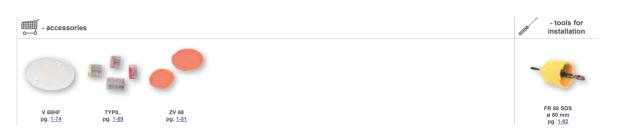


- For premises with increased need for protection of persons and property.
- Cylindrical head screws Ø 2.9 x 6.5 mm are used to fasten the devices. Countersunk screws Ø 2.9 x 9.5 mm are used to fasten the V 68HF cover.





item	description		EAN
KP 68/2HF_FA	packed in shrink foil, packaging labelled, screws included	10; 120	8595057634923



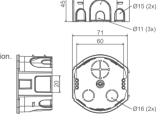


- universal box

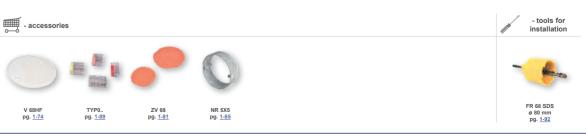




- Connection in a continuous row with a spacing of 71 mm possible.
- Boxes can be joined with boxes KPR 68-70/HF.
- More space for the electroinstallation.
- For premises with increased need for protection of persons and property.
- European Industrial design protection and European Utility models protection.



item	description		EAN
KU 68-45/HF_HA	packed in shrink foil, packaging labelled, screws included	8; 96	8595568936417

















- universal box

MAT

- PC ABS -5 +60°C 850°C A1 - D 30 sec
- For premises with increased need for protection of persons and property.
- Connection in a continuous row with a spacing of 71 mm possible. Boxes can be joined with boxes KU 68-45/HF.
- •
- More space for the electroinstallation.

 European Industrial design protection and European Utility models protection.



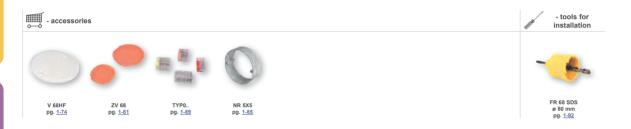


Ø25 (4x)

Ø15 (2x)

-Ø16 (2x)

item	description		EAN
KPR 68-70/HF_HA	boxes loosely inserted into the carton, instrument screws included	8; 48	8595568936424

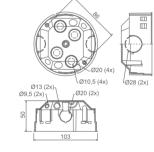




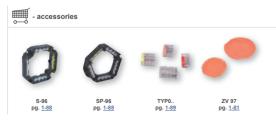
- box with cover KO 97 V/1 HF



- PC-ABS -20 +80°C 850°C A1 D 30 sec
- For premises with increased need for protection of persons and property. Lid KO 97 V/1HF can be ordered separately.



item	description		EAN
KOM 97HF_FA	boxes and lids packed loosely in cardboard	40	8595057635012





















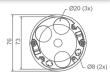






- For premises with increased need for protection of persons and property.
- Inlet openings made of flexible material.
- Cable installation is performed by perforating the membrane with a sharp tool (e.g. screwdriver) and then inserting the cable, or by extracting the pre-pressed membrane inlet. Ensured airtightness of the passage even when the cable or pipe is inserted.

- Mounting screws are fitted with a triple thread for quick installation.
- Prevents airflow through the installation.
- When mounting, it is not necessary to countersink the plasterboard edge.





item	description		EAN
KU 68 LD/1HF_HA	box is equipped with screws for mounting in plasterboard and instrument screws	90	<u>8595568910585</u>



KP 64/LD HF

- instrument box in hollow walls













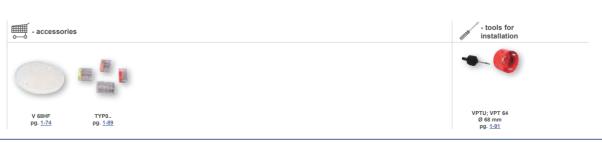
-5 - +60°C 850°C A1 - F 30 sec.

- For premises with increased need for protection of persons and property.
- Inlet openings made of flexible material.
- Cable installation is performed by perforating the membrane with a sharp tool (e.g. screwdriver) and then inserting the cable, or by extracting the pre-pressed membrane inlet.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Mounting screws are fitted with a triple thread for quick installation.
- Prevents airflow through the installation.
- When mounting, it is not necessary to countersink the plasterboard edge.



index

item	description		EAN
KP 64/LD HF_HA	box is equipped with screws for mounting in plasterboard and instrument screws	100	8595568910578





















index

KPL 64-50/LD HF

- instrument box





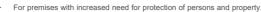












- Inlet openings made of flexible material.
- The instalation of the cable is done by pulling the pre-pressed inlet on the flexible membranes and inserting the cable or pipe into the hole formed. Installation box in the hole is made by tightening mounting screws.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- The fixing screws as well as the instrument 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 lid or a device with a higher or equal IP30 protection





item	description		EAN
KPL 64-50/LD HF_KA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	110	8595568937643



- accessories



- tools for installation







pg. 1-74

TYP0 pg. 1-89

PATKA CR+3X pg. <u>1-87</u>

VPTU; VPT 64 Ø 68 mm pg. <u>1-91</u>

KPRL 64-60/LD HF

- universal box



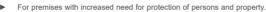








IP30



- Inlet openings made of flexible material.
- The instalation of the cable is done by pulling the pre-pressed inlet on the flexible membranes and inserting the cable or pipe into the hole formed.
 - Installation box in the hole is made by tightening mounting screws.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB. The fixing screws as well as the instrument 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 lid or a device with a higher or equal IP30 protection.



item	description		EAN
KPRL 64-60/LD HF_KA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	84	8595568937674



pg. 1-74













- tools for

installation





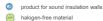




















<u></u>

20-25 (2x)-Ø16-20 (4x)-Ø6-9 (2x)-Ø6-10 (12x)

KPL 64-50/2LD HF

- instrument box



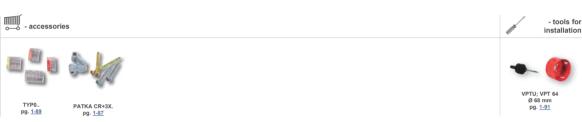






- For premises with increased need for protection of persons and property.
- For modern installations in combined frames. Highly rigid design makes the device installation simpler.
- Inlet openings made of flexible material.
- Ensured airtightness of the passage even when the cable or pipe is inserted.
- Prevents airflow through the installation.
- Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- Two tips on the external side indicate the drilling points.
- Mounting bolts feature double-threaded design for quick installation.
- Installation box in the hole is made by tightening mounting screws.
- Cable installation is done by removing (breaking) pre-pressed membrane inlet and followed by inserting the cable possibly pipe.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection.
- European Industrial design protection.
- When mounting, it is not necessary to countersink the plasterboard edge.

item	description		EAN
KPL 64-50/2LD HF_KA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	40	8595568937650





- instrument box





MAT

















- 30 sec For premises with increased need for protection of persons and property
- For modern installations in combined frames

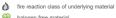
A1 - F

- Highly rigid design makes the device installation simpler.
- Inlet openings made of flexible material.
- Ensured airtightness of the passage even when the cable or pipe is
 - Prevents airflow through the installation.
 - Suitable for low-energy or passive houses and for soundproof walls with attenuation up to 69 dB.
- Three tips on the external side indicate the drilling points. Mounting bolts feature double-threaded design for quick installation.
- Installation box in the hole is made by tightening mounting screws
- Cable installation is done by removing (breaking) pre-pressed membrane inlet and followed by inserting the cable possibly pipe. European Industrial design protection.
- The IP30 protection a box fitted with an appropriate lid or a device with a higher or equal IP30 protection. When mounting, it is not necessary to countersink the plasterboard edge.

item	description		EAN
KPL 64-50/3LD HF_KA	box is equipped with screws for mounting in plasterboard and instrument screws, pack loosely in a box	30	<u>8595568937667</u>

















V 68HF

- cover

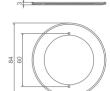














item	description		EAN
V 68HF_HB	lids in packs of 10 pcs, sealed in shrink foil, color - white RAL 9003	10; 100	<u>8595057634114</u>



- cover





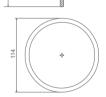








- For premises with increased need for protection of persons and property. For the final covering of box KOM 97HF.
- The lid is provided with edge that allows trouble-free covering of wiring boxes installed in concrete or hollow walls.



item	description		EAN
KO 97 V/1 HF_HB	the lids are packed in the bag, the bag is put in the carton	40	8595057633971



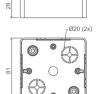








- For premises with increased need for protection of persons and property.
- To be intended for equipment of model range Classic or Swing ABB with high assembling depth – with the exception of small double socket.
- To install on materials with fire classes E or F, use insulating pad.





item	description		EAN
LK 80X28R/1HF_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 120	8595057634121





PI 80R pg. <u>1-87</u> TYP0.. pg. <u>1-89</u>

LK 80X28 2ZKHF

- instrument box









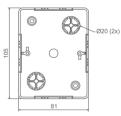




PC-ABS -20 - +80°C 850°C A1 - D 30 sec.

- For premises with increased need for protection of persons and property. Intended for double-socket of Classic or Swing series - ABB with high assembling depth.
- To install on materials with fire classes E or F, use insulating pad.





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HF

item	description		EAN
LK 80X28 2ZKHF_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 100	8595057634138





PI80 2ZK pg. <u>1-87</u>

TYP0.. pg. <u>1-89</u>







index

leadless material

LK 80X28 THF

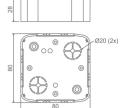
- instrument box





- 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	description		EAN
LK 80X28 THF_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 100	<u>8595057633995</u>





PI 80T pg. <u>1-87</u> TYP0.. pg. <u>1-89</u>

LK 80X28 2ZTHF

- instrument box







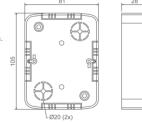






PC-ABS -20 - +80°C 850°C A1 - D 30 sec.

- For premises with increased need for protection of persons and property.
- Intended for double-sockets of Tango series ABB with high assembling depth. To install on materials with fire classes E or F, use insulating pad.





item	description		EAN
LK 80X28 2ZTHF_HB	boxes packed in shrink foil in packages of 10 pieces, device screws included	10; 80	<u>8595057634145</u>



- accessories



TYP0.. pg. <u>1-89</u> pg. <u>1-87</u>











ACCESSORIES FOR WIRING BOXES

www.kopos.com

KO 68

- cover









For the final covering of boxes KU 68-45, KU 68-45/V and KPM 64/LU





item	description		EAN
KO 68_HB	the lids are packed in the bag, the bag is put in the carton	100	<u>8595057600539</u>



- cover



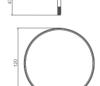




-5 - +60°C 850°C A1 - F 30 sec.

For the final covering of distribution and joint boxes KO 97/5, KR 97/5, KO 97/LD a KOM 97.

The lid is provided with a rim, which allows seamless covering of electrical installation boxes installed under plaster or hollow walls.



item	description		EAN
KO 97 V_HB	the lids are packed in the bag, the bag is put in the carton	40	8595057600546

TN... - extending piece











- To extend the central pin of cover lids, for boxes that are too recessed, where the cover lid pin is short and does not reach the central thread of the wiring box.
- The pin can be shortened to the required length.
- Attached ruler is used to measure the spacing of 71 mm when mounting devices in the combined frame
- Notches can be used as a gauge to identify cable sections.

 1 piece contains a plate of 6 adjusting pins.

	- 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	† @) (R	OPO:	ם ב	
35	9					

item	description		EAN
TN 68_KB	for boxes KU 68-45, color - grey	10; 800	8595057698512
TN 97_HB	for boxes KO 97/5, KR 97/5, KO 97/LD, KOM 97, color - white	10; 800	8595057698529

V 68

- cover







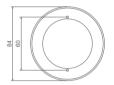








- To cover the boxes with fixing spacing of 60 mm using fastening screws. For boxes KU68-45, KP 68/D, KPR 68/D, KPR 68-70, KP 68/2, KP 68, KPR 68, KP 67/2, KP 67/3, KUH 1, KUL 68-45/LD, KU 68/71L1, KPRL 68-70/LD, KPR 68/71L, KI 68 L/1, KPL 64-40 (45,50)/LD, KPRL 64-60/LD.



item	description		EAN
V 68_HA	the lids are packed in the bag, the bag is put in the carton, color - white	100; 400	8595057600577

V 180

- lid for boxes KUZ-V and KUZ-VI





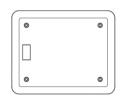








- For final covering of KUZ-V, KUZ-VI and KO 180/LD.
- The package includes stainless steel screws for installing the lid and seals to IP44.



item	description		EAN
V 180_HB	individual lids wrapped in foil	1	8595568934000









VO 180

- opening lid for boxes KUZ-VO and KUZ-VOI







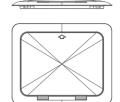






For final covering of KUZ-VO and KUZ-VOI boxes.

The package includes stainless steel screws for installing the lid and seals to IP44.



item	description		EAN
VO 180_KB	individual lids wrapped in foil	1	<u>8595568933997</u>

cover









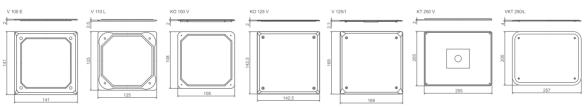


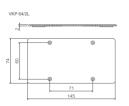


-5 - +60°C 850°C A1 - F 30 sec.

- Color white.
- Mounting screws must be purchased separately.

item	description		EAN
V 100 E_HB	for boxes KO 100 E	10; 100	<u>8595057617353</u>
V 110 L_HB	for boxes KO 110/L	10; 120	8595057612129
KO 100 V_HB	for boxes KO 100	10; 140	<u>8595057600515</u>
KO 125 V_HB	for boxes KO 125	10; 130	8595057600522
V 125/1_HB	for boxes KO 125 E and KO 125/1L		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, KPL 64-50/2LD	10; 450	8595057655164







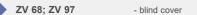


















- To cover boxes before rough casting; after plaster solidifies, lid is removed.
- Color orange.











item	description		EAN
ZV 68_AB	for boxes of series KU, KP 68, KBV-1	10; 400	<u>8595057600591</u>
ZV 97_AB	for boxes of series KO, KR 97	10; 220	<u>8595057600607</u>

VLK 80

- cover





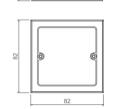








- To finally cover trunking boxes LK 80/1, 2, 3 and LK 80X28/1.
- Screws are not included.



item	description		EAN
VLK 80_HB	packed in shrink foil	10; 340	8595057616417

VLK 80/R

- cover





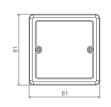






PC ABS - conf. I1 To finally cover trunking boxes LK 80R/1, LK 80R/2 a LK 80X20R/1, LK 80X28R/1,





o 📗

item	description		EAN
VLK 80/R_HB	packed in shrink foil, color - white RAL 9003	10; 380	<u>8595057616325</u>
VLK 80/R_I1	packed in shrink foil, color - pink birch	10; 380	8595568936387
VLK 80/R_I2	packed in shrink foil, color - dark oak	10; 380	8595568936394
VLK 80/R_SD	packed in shrink foil, color - light wood	10; 380	8595568936400

VLK 80/2R

- cover





To finally cover trunking boxes LK 80X28 2R when mounting double-socket.







item	description		EAN
VLK 80/2R_HB	packed in shrink foil	10; 560	<u>8595057614451</u>

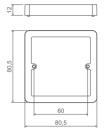


item	description		EAN
VLK 80/T_HB	packed in shrink foil, color - white RAL 9003	10; 420	<u>8595057610880</u>
VLK 80/T_I1	packed in shrink foil, color - pink birch	10; 420	8595568936349
VLK 80/T_I2	packed in shrink foil, color - dark oak	10; 420	<u>8595568936356</u>
VLK 80/T_SD	packed in shrink foil, color - light wood	10; 420	8595568936363
VLK 80/T_FA	packed in shrink foil, color - black	10; 420	8595568936370





Intended for greater assembly depth of trunking boxes compatible with instruments of the Classic or Swing model lines.



item	description		EAN
NR 80/R_HB	packed in shrink foil	10; 240	8595057615823

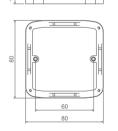
NRT

- extension frame





For trunking boxes LK 80X16 T and LK 80X28 T. For trunking boxes for devices of Tango series.



item	description		EAN
NRT_HB	packed in shrink foil	10; 300	8595057615755

NR 2ZT

- extension frame







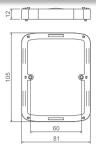






-5 - +60°C 850°C A1 - F 30 sec.

For trunking boxes LK 80X28 2ZT under the Tango double-socket.



item	description		EAN
NR 2ZT_HB	packed in shrink foil	10; 200	<u>8595057615779</u>

NR 68/6; NR 68/10

- extension frame





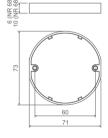








- For individually installed boxes of the KU, KP and KUH lines, with the edge under the plastering or tiling surface.
- Can also be used for boxes for combined devices KP 64/2, 3, 4, 5.



item	description		EAN
NR 68/6_ZB	packed in shrink foil, height 6 mm		<u>8595057619036</u>
NR 68/10_ZB	packed in shrink foil, height 10 mm	10; 420	8595057619043





- Extension frame for boxes under plaster or under tiles, suitable for KU, KP and KUH series boxes
- Can also be used for multiple boxes KP 64/2, 3, 4, 5.
- Five mounting frames in one, easy separation by 5 mm.



73		
	60	
	71	

item	description		EAN
NR 5X5_ZB	5X5_ZB packed in shrink foil		8595568932280



DR18

- compensating spacer











- 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	description		EAN
DR18_HB	packed loose in a PE bag	10; 1800	8595057612570

DR42

- compensating spacer

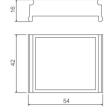








To increase the spacing between the boxes KP 67X67 by 12 mm (to 83 mm). For mounting of devices with individual frames of Classic, Tango, Swing, Time series by ABB.



item	description		EAN
DR42_HB	packed loose in a PE bag	250; 500	8595057600508

SKLD 2

- KUL box coupling





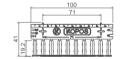






-5 - +60°C 850°C A1 - F 30 sec.

- 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	description		EAN
SKLD 2_NB	packed in 10 pcs of platinum, one tray includes 10 pcs of couplings	10	<u>8595568930828</u>









Thermo-isolating pad





CEMVIN

- 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.



PI	30 2ZK		PI8	0 2ZT
104	80	0	104	0 0

item	description		EAN
PI 80R_XX	for boxes LK 80/, LK 80X28/1, LK 80R/, LK 80XR/1, LK 80X28 2R	10; 40	8595057614697
PI 80T_XX	for boxes LK 80X16 T, LK 80X28 T	10; 40	<u>8595057614703</u>
PI 80 2ZK_XX	for boxes LK 80X28 2ZK	10; 40	<u>8595057614727</u>
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	<u>8595057614710</u>

Fixing material for wiring boxes



Fixing material used for wiring boxes.

item	description		EAN
2.9X13V_ZNCR	for mounting boxes KU, KP, semicircular head with cross groove	50; 4000	<u>8595057619371</u>
2.9X13Z_ZNCR	for mounting the lids 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	<u>8595057619395</u>
2.9X22_ZNCR	for mounting extension frames NRT, NR 2ZT, NR 80/R	50; 2500	<u>8595057619401</u>
3.0X16_ZNCR	for mounting devices into wiring boxes into concrete	50; 3000	8595057619418
M3X40-3CH_ZNCR	for mounting boxes into hollow walls, triple thread significantly accelerates the mounting of box	50; 1000	<u>8595057651470</u>
M3X45-3CH_ZNCR	for mounting hollow wall boxes KPRL 68/71L, triple thread significantly accelerates the mounting of boxes	50; 1000	8595057651487
MP3-3CH_ZNCR	metal foot for mounting hollow wall boxes, triple thread significantly accelerates the mounting of 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	instrument 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

S-66

- terminal plate



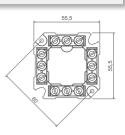








- Intended to universal distribution and instrument boxes with fixing spacing of 60 mm
- (E.g. KU 68 ... etc.).
 Four separate fields for connecting up to three conductors of up to 4 mm² in
- For voltages of up to 400 V.



item	description		EAN
S-66_FB	packed in shrink foil	10; 160	<u>8595057614734</u>

S-96

- terminal plate



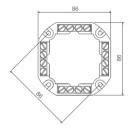








- Intended into distribution boxes with fixing spacing of 86 mm (KR 97, KR 97/5, KR 97/L).
- Four separate fields for connecting up to four conductors of up to 4 mm² in diameter.
- For voltages of up to 500 V.



item	description		EAN
S-96_FB	packed in shrink foil	10; 120	<u>8595057614741</u>

SP-96

- terminal plate



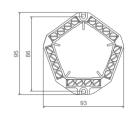








- Intended into distribution boxes with fixing spacing of 86 mm (KR 97, KR 97/5, KR 97/L).
- Five separate fields for connecting up to four conductors of up to 4 mm² in diameter.
- For voltages of up to 500 V.



item	description		EAN
SP-96_FB	packed in shrink foil	10; 180	<u>8595057614758</u>















- mutlipolar terminal plate













For voltages of up to 500 V.



item	description	1				EAN	
	<u> </u>		pcs	mm²	Α	pcs	
TYP210_FA	packed in cardboard, color - black	12 x 16 x 95	12	2.5	24	100	8595057613539
TYP210_HA	packed in cardboard, color - white	12 X 16 X 95	12	2,5	24	100	<u>8595057614321</u>
TYP310_FA	packed in cardboard, color - black	17 x 18 x 107	12	4	32	100	<u>8595057613553</u>
TYP310_HA	packed in cardboard, color - white	17 X 16 X 107	12	4	32	100	<u>8595057614345</u>
TYP412_FA	packed in cardboard, color - black	17 x 19 x 119	12	6	41	100	<u>8595057613577</u>
TYP412_HA	packed in cardboard, color - white	17 x 19 x 119	12	О	41	100	<u>8595057614369</u>
TYP512_FA	packed in cardboard, color - black	04 04 440	12	10	57	100	<u>8595057613591</u>
TYP512_HA	packed in cardboard, color - white	21 x 21 x 142	12	10	57	100	<u>8595057614383</u>
TYP612_FA	packed in cardboard, color - black	22 x 22 x 154	12	4.0	76	50	<u>8595057613607</u>
TYP612_HA	packed in cardboard, color - white	ZZ X ZZ X 154	12	16	76	50	<u>8595057614390</u>

TYP0...

- screwless terminal plate





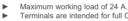












- Terminals are intended for full Cu conductors.
- For wires with cross-section from 1.0 mm² to 2.5 mm². For voltages of up to 450 V. Colour-coding stripe.

item	description	‡ _	ವ			EAN
		mm	pcs	mm²	pcs	
TYP015_XX	grey/transparent	2,5 x 9,5 x 9,5	5	1,0 - 2,5	100	<u>8595057613614</u>
TYP016_XX	orange/transparent	13,5 x 9,5 x 9,5	3	1,0 - 2,5	100	<u>8595057613621</u>
TYP017_XX	red/transparent	10,5 x 9,5 x 9,5	2	1,0 - 2,5	100	<u>8595057613638</u>
TYP018_XX	yellow/transparent	17,2 x 9,5 x 9,5	4	1,0 - 2,5	100	<u>8595057613645</u>



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EPS 2

- equipotential terminal plate

without cover









- Used for main connection according to ČSN 1-35 2000-4-41.
- Bonding.
- 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	description	1[[]				EAN 8595057618374
		max. dimension (mm)		mm²	pcs	
EPS 2_XX	without cover	426 u 60 u 50 (60 at ura arraya da arraya)	4	2,5 - 6 4 - 16	1	8595057618374
EPS 2_X1 with co	with cover	126 x 60 x 50 (62 at unscrewed screws)	2 1	10 - 95 30 x 4 (belt)	1	8595057687806

EPS 3

- equipotential terminal plate













Bonding.

Use only for bonding the zero potential, cannot be used as a phase connection etc. Can be used in the box KO 100 E.

item description		ţ _				EAN
		max. dimension (mm)	pcs	mm²	pcs	
EPS 3_XX	without cover	104 x 60 x 40 (48 at unscrewed screws)	8 6	0,75 - 10 1,5 - 16	1	8595057668676

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	pcs	EAN
VPTU_XX	6	1	<u>8595057616141</u>

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.

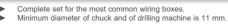
item	mm	pcs	EAN
VPT 40_XX	40	1	<u>8595057616097</u>
VPT 64_XX	68	1	<u>8595057616103</u>
VPT 68_XX	73	1	<u>8595057616110</u>
VPT 79_XX	79,5	1	<u>8595057616127</u>
VPT 97_XX	105	1	<u>8595057616134</u>

Parts needed for setting up the drill

universal carrier			saw-dril			for boxes
VPTU	VPT 40	VPT 64	VPT 68	VPT 79	VPT 97	
Χ	Х					KT 250/L, KO 110/L, KO 125/1L, KO 180/LD
Х					Х	KO 97/LD
Х			Х			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, KPM 64/LU, KPZ-1, KPZ 68-45, KPZ 68-60, KPZ 68-50/2, KPZ 68-50/3
Х		Х				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, KPL 64-60/LD HF, KPL 64-50/2LD HF, KPL 64-50/3LD HF
Χ				Х		KI 68 L/1

VDS 68

- drill for hollow walls





item	ca 🚺 — mm	pcs	EAN	parts of configuration	for boxes
VDS 68_XX	73	1	8595057658967	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

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, and KP 64/....



item	mm	pcs	EAN
FR 68 SDS_XX	80	1	<u>8595057615915</u>





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KOPOBOX MINI B

- the configuration of multi-purpose device box





- The dimension of completed configuration: 175 x 80 x 68 mm.
- The configuration is intended for assembling to/under parget or to concrete floors
- Prior to installation of assembling box there is necessary to insert the distance rail, which is replaced upon the plaster induration.
- Subgrade assembling box puts down into plaster seam. During the completion the assembling box is subsequently shouldered by KOPOBOX MINI box frame.
- It enables the assembling of modular devices of 3 pcs 45x45, or 6 pcs 22,5x45 or their
- Suitable for QUADRO instruments (pg. 2-48), tailor-made for KOPOS products. Installation of instruments made by ABB, Legrand, PEHA, Simon connect, Schneider Electric is also possible.
- Max. load: 1000 N to total surface of cover (lid + frame).



item	description		EAN
KOPOBOX MINI B_HB	the color of perspective parts (lid + frame) - white RAL 9003	1	<u>8595568920065</u>
KOPOBOX MINI B_KB	the color of perspective parts (lid + frame) - light grey RAL 7035	1	8595568920072





KOPOBOX MINI L

- the configuration of multi-purpose device box





PC-ABS









- The dimension of completed configuration: 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 desks 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 instruments (pg. 2-48), tailor-made for KOPOS products. Installation of instruments made by ABB, Legrand, PEHA, Simon connect, Schneider Electric is also possible.



















KOPOBOX MINI P

- the configuration of multi-purpose device box











- The dimension of completed configuration: 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, FR 130X65 B, FR 170X65 B, FR 17 pcs 22,5x45 or their combination.
- Suitable for QUADRO instruments (pg. 2-48), tailor-made for KOPOS products. Installation of instruments made by ABB, Legrand, PEHA, Simon connect, Schneider Electric is also possible.



item	description		EAN
KOPOBOX MINI P_HB	the color of perspective parts (lid + frame) - white RAL 9003	1	8595568920089













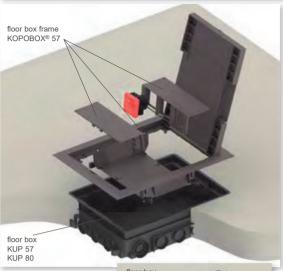




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KOPOBOX® 57 - floor box assembly for 6 modular devices - use in concrete floor





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 $\mathsf{KOPOBOX}^{\textcircled{\$}}$ 57 into $\mathsf{KUP}.$

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.

 $\mathsf{KOPOBOX}^{\circledR}$ 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 instruments in the system (pg. 2-48), or instruments 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





- Designed for installation into the universal floor box KUP 57 or KUP 80.
- It is possible to assemble QUADRO modular instruments of 45 x 45 mm (max 6 pcs pg. 2-48) 45 x 45 mm (max. 6 pcs), or instruments with compatible construction, e.g. those made by ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric;
- Reinforcement of the lid 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 lid 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. $KOPOBOX^{\textcircled{6}}$ 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	description		EAN
KOPOBOX 57_LB	color - dark grey RAL 7012	1	8595057690721



























- The box is designed for concrete floors. After hardening of the concrete mixture, the floor box $\mathsf{KOPOBOX}^{\textcircled{\$}}$ is installed.
- 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	description		EAN
KUP 57_FB	57 - 75	color - black	1	<u>8595057690745</u>
KUP 80_FB	80 - 95	color - black	1	8595057690752

SN

- leveling set













- 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.



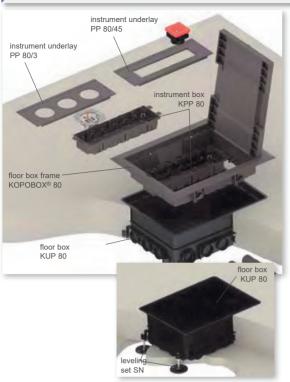


item	description		EAN
SN_XX	the package includes 4 pieces - for all corners of the box	1; 90	8595057690844





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 $KOPOBOX^{\circledR}$ 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.

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 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 instrument boxes KPP 80 are inserted to the frame. On the base of installed apparatus, PP 80 instrument underlay should

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 can 7PP

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 instruments in the system (pg. 2-48), or instruments 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 $^\circledR$ are designed for a maximum load of 1500 N. See assembly video at www.kopos.com

KOPOBOX® 80

- floor box frame







- Designed for installation into the universal floor box KUP 80.
- The use of KPP 80 instrument boxes (max 2 pcs) together with PP 80/3 instrument plates allows the assembly of standard instruments (max 6 pcs); with PP 80/45 instrument plates allows the assembly of QUADRO modular instruments (max 8 pcs - pg. 2-48) or instruments with compatible construction, e.g. those made by ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric Altira.
- Reinforcement of the lid 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 lid 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. $KOPOBOX^{\textcircled{\$}}$ 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	description		EAN
KOPOBOX 80_LB	color - dark grey RAL 7012	1	8595057690738





















KPP 80

- instrument floor box







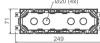






- Universal device box for mounting into KOPOBOX $^{\circledR}$ 80 (max. 2 pcs). Device screws, cable link screws and cable fixing links are included. Depth of the box is adjustable by changing the position of the bottom.







item	description		EAN
KPP 80_LB	color - dark grey	1	8595057690769

PP 80/...

- instrument underlay





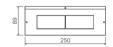








- Device plate is installed into the floor box KOPOBOX® 80 frame.
- Installation is recommended together with the device box KPP 80.
- When installing multiple modular devices, it is appropriate to remove the inner partition.
- External dimensions of other device pads are identical with the drawing.





item	description		EAN
PP 80/0_LB	full plate for covering the unoccupied parts of KOPOBOX®, color - dark grey	1; 100	<u>8595057690783</u>
PP 80/3_LB	plate for mounting up to 3 pcs of standard devices, color - dark grey	1; 100	<u>8595057690790</u>
PP 80/45_LB	serve for assembly of up to 4 QUADRO modular instruments (pg. 2-48), or instruments with compatible construction, e.g. those made by companies ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric, color - dark grey	1; 100	<u>8595057690806</u>

ZPP - end cap









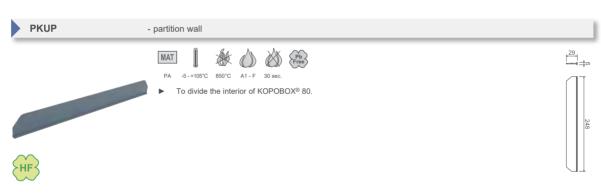
A -5 - +105°C 850°C A1 - F 30 sec

► To blind vacant holes on the device pad PP 80/3.





item	description		EAN
ZPP_LB	color - dark grey	1; 1800	8595057690820



item	description		EAN
PKUP_LB	color - dark grey	10; 480	<u>8595057690837</u>









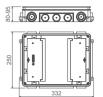






- The box is designed for concrete floors. After hardening of the concrete mixture, the floor box $\mathsf{KOPOBOX}^{\textcircled{B}}$ is installed.
- box NOPOBOX® Is installed. KUP 80 is designed for concrete layer 80 95 mm. The desired height of the box is adjusted by raising the internal insert using 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



item	description		EAN
KUP 80_FB	color - black	1	<u>8595057690752</u>

SN

- leveling set













- 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.





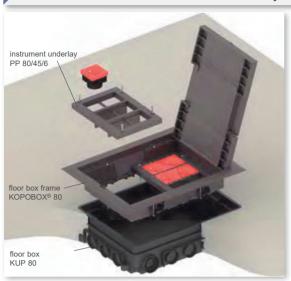


item	description		EAN
SN_XX	the package includes 4 pieces - for all corners of the box	1; 90	8595057690844





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 $KOPOBOX^{\circledR}$ 80 into KUP 80.

Instructions for the assembly of KOPOBOX $^{\! (\! R \!)}$ 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.

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 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 $^{\circledR}$ 80. Afterwards, the PP 80/45/6 (max. 2 pieces) instrument washers are installed in the frame for the installation of modular devices 45x45 (max. 12 modules).

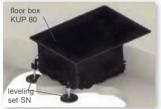
 $\mathsf{KOPOBOX}^{\circledR}$ 80 is mainly designed for cables with indirect plugs. Use of cables with direct plugs is limited and use of adapters and chargers is limited.

It is possible to install QUADRO modular instruments in the system (pg. 2-48), or instruments 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







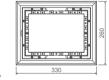






- Designed for installation into the universal floor box KUP 80.
- The use of PP 80/45/6 instrument pads (max. 2 pcs) allows the installation of modular QUADRO devices (max. 12 pcs) or devices of the same design, eg ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric Altira.
- Reinforcement of the lid 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 lid 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	description		EAN
KOPOBOX 80_LB	color - dark grey RAL 7012	1	<u>8595057690738</u>



















PP 80/45/6

- instrument underlay



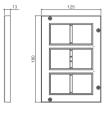








- The PP 80/45/6 instrument washer is installed in the frame of the KOPOBOX[®] 80 floor box (max. 2 pieces).
- When installing double modular devices, it is advisable to remove the inner partition.
- The pack includes 1 PP 80/45/6 instrument pad, 2 separating partitions and 4 mounting screws.
- The washer is designed for the installation of 6 modular QUADRO devices (pg. 2-48), or instruments with compatible construction, e.g. those made by ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric.



item	description		EAN
PP 80/45/6_LB	color - dark grey RAL 7012	1	<u>8595568930781</u>

KUP 80

- universal floor box





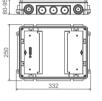






850°C

- The box is designed for concrete floors. After hardening of the concrete mixture, the floor box $\mathsf{KOPOBOX}^{\textcircled{\$}}$ is installed.
- 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	description		EAN
KUP 80_FB	color - black	1	8595057690752

SN

- leveling set

-5 - +105°C 850°C



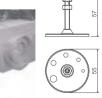






- To set the exact height of the universal box KUP 57 or KUP 80 when pouring into concrete floors. It allows to raise the height of the concrete by up to 35 mm.
- To prevent wash-up with concrete, fix the box using M6 nuts included in the package.
- The leveling set includes 4 adjustable elements (in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





item	description		EAN
SN_XX	the package includes 4 pieces - for all corners of the box	1; 90	8595057690844















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



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 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.

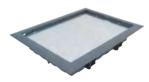
The pulling floor box is designed for floor coverings with a maximum height of 8 mm. Considering IP30, the box is not suitable to be moistened with the floor cleaning machines. Recommended floor covering are carpets or floating wooden floors.

Floor boxes KOPOBOX $^{\circledR}$ are designed for a maximum load of 1500 N.



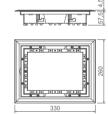
PP 80/K-5

- pulling floor box





- Designed for installation into the floor box KUP 80.
- Use as a blind lid 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 is laid on the
- support plate.
- The proposition of hole to insert the floor box is 218 x 288 mm.



item	description		EAN
PP 80/K-5_LB	color - dark grey RAL 7012	1	<u>8595057699571</u>







KUP 80 - universal floor box













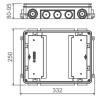
- The box is designed for concrete floors. After hardening of the concrete mixture, the floor box KOPOBOX $^{\textcircled{\tiny{0}}}$ is installed.
- KUP 80 is designed for concrete layer 80 95 mm. The desired height of the box is

- 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	description		EAN
KUP 80_FB	color - black	1	8595057690752

SN

- leveling set











- 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	description		EAN
SN_XX	the package includes 4 pieces - for all corners of the box	1; 90	8595057690844













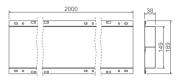




PUK 38X150 S1

- floor trunking

- The floor canal is designed to connect individual boxes of KUP 57 or KUP 80.
- Canal outputs are prepared to provide conductive coupling via the PLUK or PLUK1 connecting cable.
- When using the SN leveling set for KOPOBOX boxes, it is necessary to underlaid the floor trunking in a suitable way, or to use electroinstallation pipes for the connection.



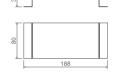
item	description		EAN
PUK 38X150 S1_S	galvanized Sendzimir	2; 240	8595568904416

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	description		EAN
SPUK_S	galvanized Sendzimir	1	8595568904423

PLUK

- connecting string

Provides a conductive bonding of floor channels.



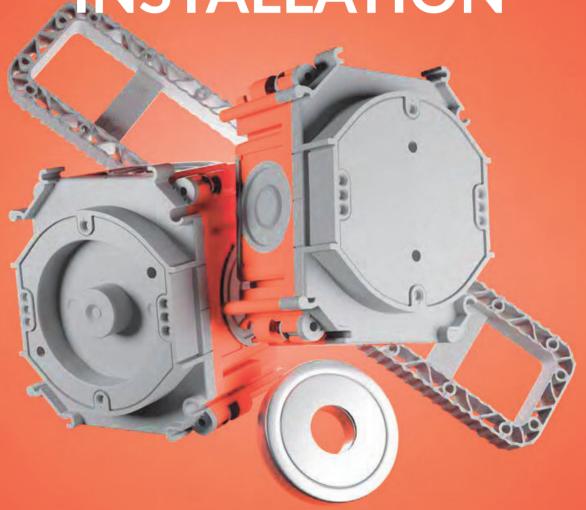




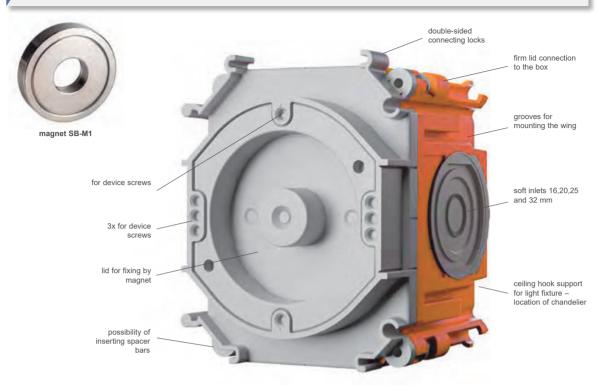
item	description		EAN
PLUK_XX	length 250 mm, to connect channels when coming out at an angle of 90°	10	<u>8595568904430</u>
PLUK 1_XX	length 550 mm, to connect channels when coming out at an angle of 180°	10	8595568904447



SYSTEM FOR CONCRETE INSTALLATION



System for cast concrete installation - magnet fixing



- fixing of boxes by 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





► - montage







SB-KP 60-50/M

- device box for cast concrete installation, magnet fix



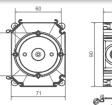








- Device box for cast concrete installation depth 50 mm.
- Box lid designed for the SB-M1 magnet use to fix the box to the metal formwork
- Possibility of fixing the box lid with nails or screws on wooden formwork.
- Sealed connection of the lid to the box.
- Inlets for pipes fitted with a sealing membrane against intrusion of the
- Possibility of fixed connection of the boxes at 71 mm and 90 mm spacing.
- 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).





<u>Ø 20-25 (6x)</u> /	
	EAN

item	description		EAN
SB-KP 60-50/M_AB	5 pcs of boxes with lids in shrink wrap	5; 60	8595568938602



pg. 1-116





pg. 1-114



pg. <u>1-114</u>





pg. <u>1-115</u>



pg. <u>1-115</u>





pg. <u>1-116</u>

SB-KP 60-70/M

- device box for cast concrete installation, magnet fix







KBP-8 pg. <u>1-116</u>

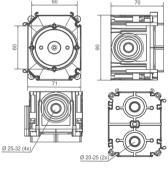






-25 - +60 (90)°C 71/90

- Device box for cast concrete installation depth 70 mm.
- Box lid designed for the SB-M1 magnet use to fix the box to the metal formwork.
- Possibility of fixing the box lid with nails or screws on wooden formwork.
- Sealed connection of the lid to the box.
- Inlets for pipes fitted with a sealing membrane against intrusion of the concrete mix.
- Possibility of fixed connection of the boxes at 71 mm and 90 mm spacing.
- 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	description		EAN
SB-KP 60-70/M_AB	5 pcs of boxes with lids in shrink wrap	5; 30	8595568938619





pg. 1-116

pg. 1-114



pg. 1-114

KBP-8 pg. <u>1-116</u>



SB-ST 1 pg. <u>1-115</u>



pg. 1-115





NRB 60.. pg. <u>1-116</u> pg. 1-85















- device box for cast concrete installation, magnet fix

99 MAT

- Device box for cast concrete installation depth 50 mm.
- Box lid designed for the SB-M1 magnet use to fix the box to the metal formwork.
- Possibility of fixing the box lid with nails or screws on wooden formwork. Sealed connection of the lid to the box.
- Inlets for pipes fitted with a sealing membrane against intrusion of the concrete mix.
- Possibility of fixed connection of the boxes at 71 mm and 90 mm spacing.
- 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).

8	50
D-25 (6x)	

item	description		EAN
SB-KP 68-50/M_AB	5 pcs of boxes with lids in shrink wrap	5; 60	<u>8595568938640</u>



















pg. <u>1-116</u> pg. <u>1-114</u>

pg. 1-114

MAT

pg. <u>1-116</u>

SB-ST 1 pg. <u>1-115</u>

pg. 1-115

NR 5X5

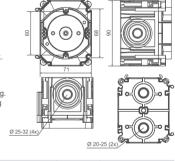
pg. 1-116

SB-KP 68-70/M

- device box for cast concrete installation, magnet fix



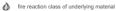
- -25 +60 (90)°C 71/90
- Device box for cast concrete installation depth 70 mm. Box lid designed for the SB-M1 magnet use to fix the box to the metal formwork.
- Possibility of fixing the box lid with nails or screws on wooden formwork. Sealed connection of the lid to the box.
- Inlets for pipes fitted with a sealing membrane against intrusion of the
- concrete mix. Possibility of fixed connection of the boxes at 71 mm and 90 mm spacing.
- 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	description		EAN
SB-KP 68-70/M_AB	5 pcs of boxes with lids in shrink wrap	5; 30	8595568938657



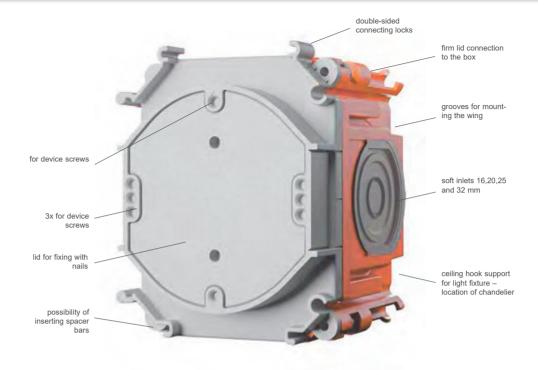












- fixing of boxes with nails (suitable for the production of site concrete monolithic construction)
- ► four types of device boxes
- sealed double-injection design
- ▶ 71 mm spacing for combined frames and 90 mm spacing for individual devices
- halogen-free material



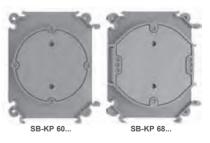
► - montage



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



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

•

2

6

4

5

index

SB-KP 60-50/L

- device box for cast concrete installation, nail fix

MAT



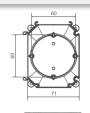








- Device box for cast concrete installation depth 50 mm.
- Box lid adapted for nailing or screwing to wooden formwork.
- Possibility of fixing the box lid with glue from a hot melt gun. Sealed connection of the lid to the box.
- Inlets for pipes fitted with a sealing membrane against intrusion of the concrete mix.
- Possibility of fixed connection of the boxes at 71 mm and 90 mm spacing.
- 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).



Ø 20-25 (6)





item	description		EAN
SB-KP 60-50/L_AB	5 pcs of boxes with lids in shrink wrap	5; 60	<u>8595568938626</u>



- accessories



pg. 1-114



KBP-8 pg. <u>1-116</u>



pg. <u>1-115</u>



pg. <u>1-115</u>





NR 5X5 pg. 1-85

pg. <u>1-116</u>

SB-KP 60-70/L

pg. <u>1-114</u>

- device box for cast concrete installation, nail fix



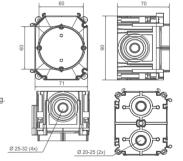








- Device box for cast concrete installation depth 70 mm.
- Box lid adapted for nailing or screwing to wooden formwork.
- Possibility of fixing the box lid with glue from a hot melt gun.
- Sealed connection of the lid to the box.
- Inlets for pipes fitted with a sealing membrane against intrusion of the concrete mix.
- Possibility of fixed connection of the boxes at 71 mm and 90 mm spacing. 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	description		EAN
SB-KP 60-70/L_AB	5 pcs of boxes with lids in shrink wrap	5; 30	<u>8595568938633</u>

















NR 5X5

SB-MK 1 pg. <u>1-114</u>

SB-P 1 pg. <u>1-114</u>

KBP-8 pg. <u>1-116</u>

SB-ST 1 pg. 1-115

pg. 1-115

pg. 1-85

pg. 1-116













SB-KP 68-50/L

- device box for cast concrete installation, nail fix



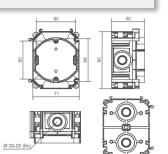








- Device box for cast concrete installation depth 50 mm.
- Box lid adapted for nailing or screwing to wooden formwork.
- Possibility of fixing the box lid with glue from a hot melt gun. Sealed connection of the lid to the box.
- Inlets for pipes fitted with a sealing membrane against intrusion of the concrete mix.
- Possibility of fixed connection of the boxes at 71 mm and 90 mm spacing.
- 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	description		EAN
SB-KP 68-50/L_AB	5 pcs of boxes with lids in shrink wrap	5; 60	<u>8595568938664</u>



pg. <u>1-114</u>



pg. <u>1-114</u>





pg. 1-115





pg. <u>1-116</u>

SB-KP 68-70/L

- device box for cast concrete installation, nail fix

pg. <u>1-115</u>





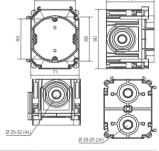






- Device box for cast concrete installation depth 70 mm.
- Box lid adapted for nailing or screwing to wooden formwork.
- Possibility of fixing the box lid with glue from a hot melt gun.
- Sealed connection of the lid to the box.
- Inlets for pipes fitted with a sealing membrane against intrusion of the concrete mix.
- Possibility of fixed connection of the boxes at 71 mm and 90 mm spacing. 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	description		EAN
S	SB-KP 68-70/L_AB	5 pcs of boxes with lids in shrink wrap	5; 30	8595568938671













SB-P 1

- support





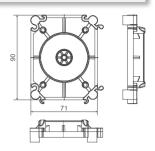




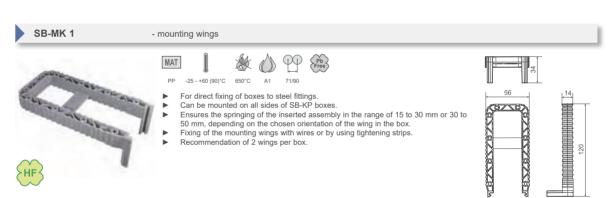




- Support for cast-in-place concrete for splitting the box between opposing formwork
- Support adapted for the insertion of the SB-M1 adhesion magnet for fixing the box to the metal formwork.
- Possibility of fixing with nails or screws on wooden formwork.
- Possible to connect with 71 mm or 90 mm spacing.
 Allows fixing of the opposite box with 6mm KBP-8 steel bars (not included).



item	description		EAN
SB-P 1_KB	5pcs packed in plastic bag	5; 110	8595568938718



item	description		EAN
SB-MK 1_KB	10 mounting wings in shrink wrap	10; 210	<u>8595568938725</u>





- Hook for hanging the lighting.
 Two lengths of the hook according to the chosen depth of the box.
 Cover, insulating sleeve and screws included.
 Maximum load 25 kg.



item	description	A (mm)		EAN
SB-H 50_XX	ceiling hook for 50 mm deep boxes, 5 pcs packed in a plastic bag	50	5; 50	<u>8595568938695</u>
SB-H 70_XX	ceiling hook for 70 mm deep boxes, 5 pcs packed in a plastic bag	70	5; 50	<u>8595568938701</u>

SB-ST 1

- ceiling hook support

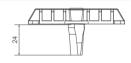


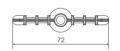


Ceiling hook support for light fixture.

Can be installed in all box variants for cast concrete installation by screwing into the bottom before concreting,

Maximum load 25 kg.





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6		
	· · · ·)	
1	\sim	

item	description		EAN
SB-ST 1_KB	5pcs packed in plastic bag	5; 60	8595568938688

SB-M1

- magnet







- Adhesion magnet for installation on steel formwork Force 500 N.





item	description		EAN
SB-M1_XX	packed 1pc per carton	1	8595568937384

KBP-8

- steel rod



- To bracing the boxes between formwork walls when pouring concrete.
 Use together with lids and supports see assembly diagrams.
 The rod must be cut to length determining the length is specified for each assembly.

item	description	m	EAN
KBP-8_ZA	steel rod Ø 6 mm	3	<u>8595057610231</u>

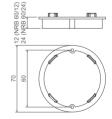
NRB 60...

- extension frame into concrete





To adjust the box height when applying plaster.



item	description	pcs	EAN
NRB 60/12_AB	packed in bags of 10 pieces	10; 340	<u>8595057616455</u>
NRB 60/24_AB	packed in bags of 10 pieces	10; 160	8595057616462



BV...

- bushing for pipes









- The glands are fixed to the formwork using nails.
- After hardening of the concrete mixture, formwork is removed together with front lid. To introduce the pipe, use BK-type fittings as per pipe dimension:

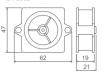
 BV 1620 fittings BK 16, BK 20,

 BV 2532 fittings BK 25, BK 32, BK 16 CSN, BK 23









		ļ	21
item	description		EAN
BV 1620_KA	for dimensioned pipes EN 16, 20	40; 560	<u>8595057621985</u>
BV 2532_KA	for dimensioned pipes EN 25, 32 a ČSN 16, 23	40; 280	8595057621992

BK...

- ending for pipes







For insertion of pipes LPE-1 into the BV glands.





item	description	A (mm)	B (mm)		EAN
BK 16_AA	for dimensioned pipes EN 16	19	27	40; 600	8595057621688
BK 16 ČSN_AA	for dimensioned pipes ČSN 16	24	40	40; 320	<u>8595057629165</u>
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	<u>8595057629158</u>
BK 25_AA	for dimensioned pipes EN 25	28	40	40; 320	<u>8595057621701</u>
BK 32_AA	for dimensioned pipes EN 32	35	40	40; 320	<u>8595057621695</u>

KBS-120

- spacer into concrete







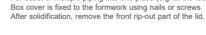


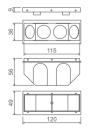




-5 - +60 (90)°C 650°C

- For outlet of multiple piping into one place (e.g. at the location of future distribution systems).



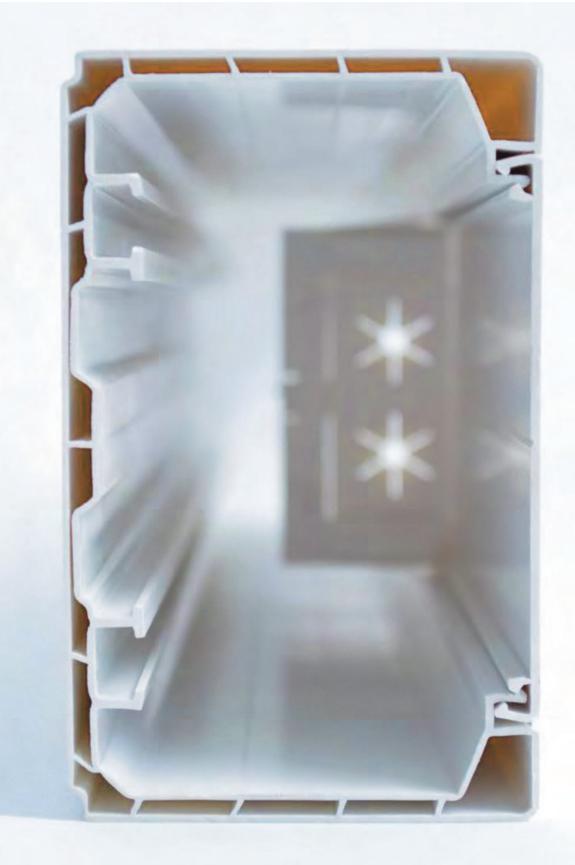


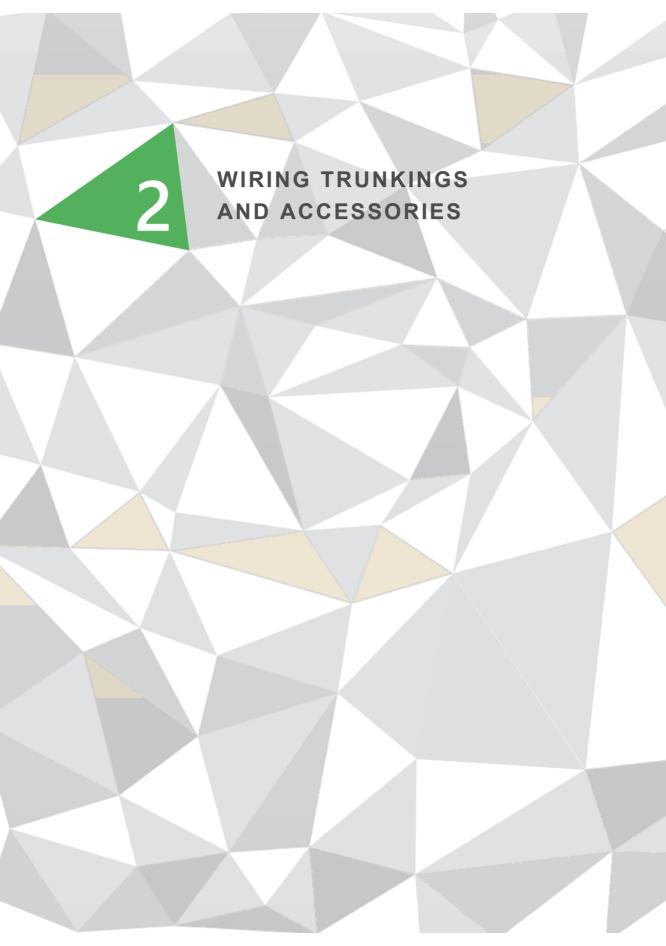


item	description		EAN
KBS-120_AB	packed in shrink foil, color - orange	10; 60	8595057624269









Wiring 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 CSN 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 pg. 5-4). 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 instrument that has higher or equal protection IP 40, it applies for the trunkings as well. Only for low voltage use.

The trunking lids (covers) are manufactured together with the trunking and must be also assembled together with the trunking.

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. Non-offered color shades are also possible upon agreement. 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 \pm 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.

Insertion trunkings	<u>2-</u> ;
Snap-on trunkings	<u>2-</u> ç
Angular trunkings	<u>2-1</u>
Elegant trunkings	<u>2-2</u> ;
Round trunkings	<u>2-2</u>
Corner trunking	2-30
Floor trunkings	<u>2-3</u>
Wiring trunkings and elegant wiring trunkings	2-34
Parapet trunkings	
Modular devices QUADRO	
Halogen-free trunkings	
Partition walls	
Shielding canals	
-	
Instrument carriers and accessories	
Support rails	
Distributing trunkings	<u>2-7</u>



All trunkings and respective accessories are in compliance with EU directions.



All trunkings and respective accessories (except for shielding canals and support trunkings) are in compliance with German electrical standard.

	Icons - legend								
MAT	material	Q	area with a risk of explosion						
	temperature resistance, scope of application (°C)	Ÿ	level of protection - IP classification						
	flaming loop test (°C)	IK Y	mechanical protection						
	fire reaction class of underlying material		wiring trunkings with protective foil						
	self-extinguishing	8	antibacteriality						
T _E	impact strength (J) very low = 0,5 J; low = 1 J; medium = 2 J	HF	halogen-free material						
	inside area (mm²)		color						
	allows to install double-socket		outer dimensions - width, height (mm)						
	spacing when joining two boxes (mm)	←	inner dimensions - width, height (mm)						
000	allows installing wall socket 400 V / 16 A (32 A)		outside diameter (mm)						
			package (m)						



DO NOT GIVE BACTERIA A CHANCE

ANTIBACTERIAL PVC AND PC/ABS TRUNKINGS



Full range of white trunkings and the accessories

N

RESISTANT TO:

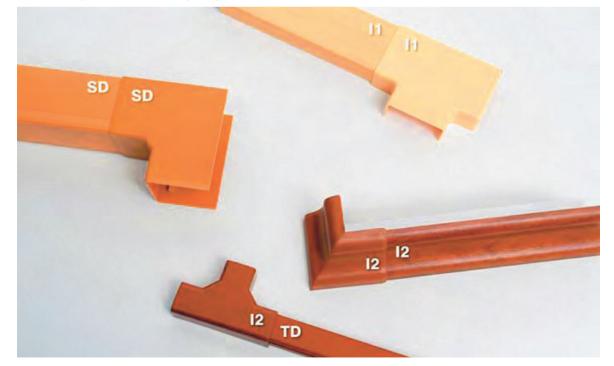
ESCHERICHIA COLI | STAPHYLOCOCCUS AUREUS | KLEBSIEL/A PNEUMONIAE PSEUDOMONAS AERUGINOSA | ENTEROCOCCUS FAECALIS | BACILLUS SUBTILIS SALMONELLA ENTERICA | LEGIONELLA PNEUMOPHILA | CANDIDA ALBICANS

www.kopos.com



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 with protective foil



- Protection against damage during the transport and installation. Protection against dirt and scratching. Lid coated for square trunkings up to LHD 40X40.

- Lid and sides coated for square trunkings larger than LHD 40X40.

LV 11X10





















-5 - +60°C A1 - F 30 sec.

- 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	description		
LV 11X10_HD	white	2	150	carton	8595057608504	-
LV 11X10_P2	white	2	150	carton	<u>8595057690936</u>	self-adhesive tape

material

fire reaction class of underlying material antibacteriality

l temperature resistance package





color

d area with a risk of explosion

index

LV 18X13









- Standard shape.
 Designed for wall or ceiling mounting.
 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item	mum .	L	EAN										note
		m	m	description									
LV 18X13_HC	white	2	176	foil	8595057601659	without protective foil							
LV 18X13_HD	white	2	70	carton	<u>8595057608511</u>	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	<u>8595568903075</u>	-							

Accessories								
	item	package	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					
BING	8733_I2	1	8595568905499					
- A-C-A-2	8733_SD	1	<u>8595568905505</u>					
branching								
	8734_HB	10	8595057609327					
S. 170-4	8734_I2	1	<u>8595568909657</u>					
A STATE OF THE PARTY OF THE PAR	8734_SD	1	8595568909640					
inner corner								
	8735_HB	10	<u>8595057610651</u>					
K-dely fi	8735_I2	1	8595568909633					
	8735_SD	1	8595568909626					
outer corne								
6	8736_HB	10	8595057609341					
	8736_12	1	8595568909619					
	8736_SD	1	8595568909602					
grommet								
	8737_HB	10	8595057612143					
8	intended for LK 80X16 T	transition	to trunking box					
grommet								
	8738_HB	10	8595057615311					
	intended for LK 80X20	transition	to trunking box					
grommet								
	8739_HB	10	8595057611252					
	8739_12	1	8595568909107					
8	8739_SD	1	8595568909138					
	intended for LK 80X28		to trunking box					
raised grom	met							
	8739 Z_HB	10	8595057614406					
-	intended for transition to trunking box LK 80X28 with PI insulation pad							

1





l temperature resistance











LV 24X22







Accessories								
	item	package	EAN					
end								
P	8791_HB	10	<u>8595057651609</u>					
connecting								
	8792_HB	10	<u>8595057651616</u>					
bending								
1	8793_HB	10	<u>8595057651623</u>					
branching								
*	8794_HB	10	8595057651630					
inner corne	r							
1	8795_HB	10	8595057651647					
outer corne	r							
F	8796_HB	10	<u>8595057651654</u>					
grommet								
	8797_HB	10	<u>8595057651661</u>					
	intended for LK 80X28	intended for transition to trunking box						

















-5 - +60°C 850°C A1 - F 30 sec.

- Standard shape.
 Designed for wall or ceiling mounting.
 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item	MAIN	L	EAN note				note
		m	m	description			
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	





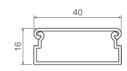




LV 40X15



















Standard shape.
Designed for wall or ceiling mounting.
Also available are accessories for instrument installation.

item	MAN	L			EAN	note
		m	m	description		
LV 40X15_HD	white	2	30	carton	8595057609433	with protective foil
LV 40X15_P2	white	2	30	carton	8595057690967	self-adhesive tape

	Acces	sories	
	item	package	EAN
end			
	8711_HB	10	8595057608696
connecting			
	8714_HB	10	8595057611849
bending			
	8716_HB	10	8595057611559
branching			
4	8715_HB	10	8595057610040
inner corner			
1	8713/2_HB	10	8595057610354
outer corner	r		
	8712/2_HB	10	8595057610613
raised grom	met		
	8717_HB	10	8595057610620
	intended for LK 80X16 wi		to trunking box lation pad
grommet			
	8719_HB	10	8595057608719
	intended for LK 80X28	transition	to trunking box
raised grom	met		
	8719 Z_HB	10	8595057614420
	intended for LK 80X28 wi		to trunking box





l temperature resistance









instrument carrier

PN 40X15_HB

more information on pg. 2-63



8595057610569

LZ 15X12



	Acces	sories					
	item	package	EAN				
grommet							
	8819_HB	10	8595057612679				
	intended for transition to trunking box LK 80X28						
transition b	ranching						
	8824/41_HB	10	8595057612693				
	intended for transition to trunking LP 80X25						







One side of the lid is a part of the trunking body, the second side of the lid can be simply snapped on, it is fitted with double lock increasing the trunking's rigidity and ensuring stronger cover fixation.

item	m)M	L			EAN
		m	m	description	
LZ 15X12_HD	white	2	96	carton	8595057612426



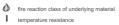


LZK 15X12

index



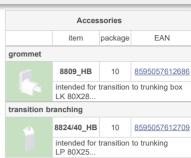




















- One side of the rounded lid is a part of the trunking body, the second side of the lid can be simply snapped on, it is fitted with double lock increasing the trunking's rigidity and ensuring stronger cover fixation. European Industrial design protection.

item		L											T T		T T		T)		W W				- 0		EAN	note
		m	m	description																						
LZK 15X12_HD	white	2	96	carton	<u>8595057620551</u>	-																				
LZK 15X12_P2	white	2	96	carton	8595057690998	self-adhesive tape																				



Accessories									
	item	package	EAN						
end									
	8681_HB	10	8595057616813						
connecting									
1	8682_HB	10	<u>8595057616806</u>						
bending									
	8683_HB	10	8595057616790						
branching									
	8684_HB	10	<u>8595057616783</u>						
inner corner	•								
	8685_HB	10	<u>8595057616776</u>						
outer corner	•								
	8686_HB	10	<u>8595057616769</u>						





MAT		*			T _E		
PVC	-5 - +60°C	850°C	A1 - F	30 sec.	0,5 J	104 mm ²	

Standard shape.
Designed for wall or ceiling mounting.

item		L			EAN	note
		m	m	description		
LH 15X10_HC	white	2	176	foil	<u>8595057616516</u>	without protective foil
LH 15X10_HD	white	2	128	carton	8595057621374	with protective foil
LH 15X10 P2	white	2	128	carton	8595057690974	self-adhesive tape

IK06

index

























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	brand
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	inner



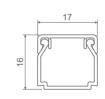
8676_HB

10

8595057616707

Accessories





MAT		*			 ■		Ŏ		IK N
PVC	-5 - +60°C	850°C	A1 - F	30 sec	0.5.1	190 mm ²		IP 40	IK06

- Standard shape.
- Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item		L			EAN	note	
		m	m	description			
LHD 17X17_HC	white	2	176	foil	<u>8595057616530</u>	without protective foil	
LHD 17X17_HD	white	2	70	carton	8595057619920	with protective foil	
LHD 17X17_P2	white	2	70	carton	<u>8595057691001</u>	self-adhesive tape	













LHD 20X10









		175	
	- 1		
			ı



MAT



- Standard shape.

 Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

 Products in black color (conf. FD and FB) are made of UV stable material.

item		L			EAN	note
		m	m	description		
LHD 20X10_HD	white	2	96	carton	8595057620582	with protective foil
LHD 20X10_P2	white	2	96	carton	<u>8595057691018</u>	self-adhesive tape
LHD 20X10_FD	black	2	96	carton	8595568935175	with protective foil

	item	package	EAN	
end				
-	8921_HB	10	<u>8595057619975</u>	
	8921_FB	10	8595568935182	
connecting				
	8922_HB	10	8595057619982	
	8922_FB	10	<u>8595568935199</u>	
bending				
	8923_HB	10	<u>8595057619999</u>	
	8923_FB	10	<u>8595568935205</u>	
branching				
	8924_HB	10	<u>8595057620001</u>	
	8924_FB	10	8595568935212	
inner corner	r			
-	8925_HB	10	<u>8595057620018</u>	
7	8925_FB	10	8595568935229	
outer corne	r			
	8926_HB	10	<u>8595057620025</u>	
Ä	8926_FB	10	8595568935236	
instrument	carrier QUAD	RO		
Tel.	PNQ 20X10_HB	82	8595568927194	

more information on pg. 2-63

Accessories



LHD 20X20









- Standard shape.
 Designed for wall or ceiling mounting.
 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.
 Products in black color (conf. FD and FB) are made of UV stable material.

item	in Na	L			EAN	note	
		m	m	description			
LHD 20X20_HC	white	2	98	foil	8595057608894	without protective foil	
LHD 20X20_HD	white	2	48	carton	<u>8595057609617</u>	with protective foil	
LHD 20X20_P2	white	2	48	carton	<u>8595057691025</u>	self-adhesive tape	
LHD 20X20_I1	pink birch	2	24	carton	8595057656659	-	
LHD 20X20_I2	dark oak	2	24	carton	8595057656666	-	
LHD 20X20_SD	light wood	2	48	carton	8595568903044	-	
LHD 20X20_TD	dark wood	2	48	carton	<u>8595568903051</u>	-	
LHD 20X20_FD	black	2	48	carton	8595568935243	with protective foil	

Accessories							
	item	package	EAN				
end							
	8621_HB	10	8595057609754				
	8621_I1	1	8595057656734				
≥16	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				
4	8623_I2	1	<u>8595057656789</u>				
	8623_SD	1	8595568910318				
	8623_FB	10	8595568935274				
branching							
a.u.ioiiiig	8624_HB	10	8595057610552				
	8624_I1	1	<u>8595057656796</u>				
	8624_12	1	8595057656802				
	8624_SD	1	<u>8595568910325</u>				
	8624_FB	10	8595568935281				
inner corne							
	8625_HB	10	8595057611825				
	8625_I1	1	8595057656826				
100	8625_I2	1	8595057656833				
	8625_SD	1	8595568910332				
	8625_FB	10	8595568935298				
outer corne	r						
	8626_HB	10	8595057611214				
	8626_I1	1	8595057656840				
	8626_I2	1	8595057656857				
ja.	8626_SD	1	8595568910349				
	8626_FB	10	8595568935304				
grommet							
	8629_HB	10	8595057608535				
	8629_I1	1	8595568909060				
	8629_12	1	8595568909091				
0.55	8629_SD	1	8595568909121				
	8629_FB	1	8595568936219				
intended for	transition to tr	unking bo					
transition bi	ranching						
	8824/12_HB	10	<u>8595057611191</u>				
	intended for						
	LP 80X25	u ai i oi li Ui i	to truining				







temperature resistance







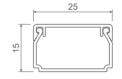






Accessories								
	item	package	EAN					
end								
	8691_HB	10	8595057616622					
connecting								
	8692_HB	10	<u>8595057616615</u>					
bending								
	8693_HB	10	8595057616608					
branching								
	8694_HB	10	8595057616592					
inner corner	•							
1	8695_HB	10	<u>8595057616585</u>					
outer corner	•							
F	8696_HB	10	<u>8595057616691</u>					





MAT	(**************************************	*			₽		Š		IK
PVC	-5 - +60°C	850°C	A1 - F	30 sec.	0,5 J	300 mm ²		IP 40	IK06

- Standard shape.
 Designed for wall or ceiling mounting.
 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item	MAN	L					EAN	note
		m	m	description				
LHD 25X15_HD	white	2	50	carton	8595057620599	with protective foil		
LHD 25X15_P2	white	2	50	carton	8595057691032	self-adhesive tape		





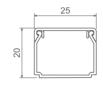






Accessories									
item package EAN									
end									
	8911_HB	10	8595057616684						
connecting									
F)	8912_HB	10	8595057616677						
bending									
	8913_HB	10	8595057616660						
branching									
	8914_HB	10	8595057616639						
inner corner									
5	8915_HB	10	8595057616646						
outer corner	·								
•	8916_HB	10	<u>8595057616653</u>						





MAT					T _E		Š	$\tilde{\mathcal{T}}$	IK N
PVC	-5 - +60°C	850°C	A1 - F	30 sec.	0,5 J	400 mm ²		IP 40	IK06

- Standard shape.
 Designed for wall or ceiling mounting.
 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item		L					EAN	note
		m	m	description				
LHD 25X20_HD	white	2	40 carton		8595057616844	with protective foil		
LHD 25X20_P2	white	2	40	carton	8595057691049	self-adhesive tape		









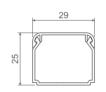






Accessories							
	item	package	EAN				
end							
	8931_HB	10	8595057633889				
connecting							
	8932_HB	10	8595057633896				
bending							
	8933_HB	10	8595057633902				
branching							
	8934_HB	10	8595057633919				
inner corner	•						
	8935_HB	10	<u>8595057633926</u>				
outer corner	•						
•	8936_HB	10	<u>8595057633933</u>				





MAT		*			₽ E		Š	~	IK N
PVC	-5 - +60°C	850°C	A1 - F	30 sec.	0,5 J	480 mm ²		IP 40	IK06

- Standard shape.
 Designed for wall or ceiling mounting.
 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item	MAN	L			EAN	note
		m	m	description		
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	<u>8595057691056</u>	self-adhesive tape



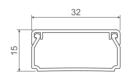




LHD 32X15 instrument carrier PNQ 32X15 inner corner 8605 end branching 8601 8604 bending 8603 8606





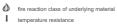


MAT		*			₽ E		ð	Ť	lk /
PVC	-5 - +60°C	850°C	A1 - F	30 sec.	0,5 J	340 mm ²		IP 40	IK06

- Standard shape.
- Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item	man.	L			EAN	note
		m	m	description		
LHD 32X15_HD	white	2	80	carton	<u>8595057620605</u>	with protective foil
LHD 32X15_P2	white	2	80	carton	8595057691063	self-adhesive tape











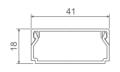


Accessories

LHD 40X20

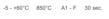








MAT











- Standard shape.

 Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

 Products in black color (conf. FD and FB) are made of UV stable material.

item	item MA				EAN	note	
		m	m	description			
LHD 40X20_HC	white	2	70	foil	<u>8595057610163</u>	without protective foil	
LHD 40X20_HD	white	2	24	carton	<u>8595057610170</u>	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	<u>8595568935311</u>	with protective foil	



	Acces	sories					
	item	pack.	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							
g	8634_HB	10	8595057608658				
	8634_I1	1	8595057656949				
	8634 12	1	8595057656956				
	8634 SD	1	8595568905444				
	8634 FB	10	8595568935359				
inner corne							
	8635 HB	10	8595057609105				
	8635_I1	1	8595057656963				
	8635_I2	1	8595057656970				
	8635 SD	1	8595568909961				
	8635 FB	10	8595568935366				
outer corne			300000000000000000000000000000000000000				
outer corne	8636_HB	10	8595057610811				
	8636_I1	10	8595057656987				
		1	8595057656994				
	8636_I2 8636_SD	1	8595568909183				
	8636_SB	10	8595568935373				
grommet							
5. Ommet	8639_HB	10	8595057608672				
	8639_HB	10	8595568909084				
		1	859556890906 ²				
	8639_I2 8639_SD	1	8595568909114				
	8639_SB	1	8595568936226				
intond1 f							
		unking b	ox LK 80X28				
instrument		40	050505704050				
	PN 40X20_HB	10	859505761058				
	PN 40X20_I1 PN 40X20_I2	1	859505765702				
	_		8595057657038 8595568910370				
PN 40X20_SD 1 8595568910370 more information on pg. 2-63							
· • —							
instrument carrier QUADRO							

fire reaction class of underlying material

flaming loop test a self-extinguishing impact strength

inside area mechanical protection

Ť package

with protective foil antibacteriality

more information on pg. 2-63

8595568927200

PNQ 40X20_HB

index

area with a risk of explosion

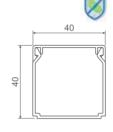
m)

index

LHD 40X40



	branching 8644	nner corner 8645	end 8641
bending 8643		outer corner 8646	
	connecting 8642		







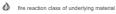
- Standard shape
- Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.
- Products in black color (conf. FD and FB) are made of UV stable material.

item	mum .	L			EAN	note	
		m m descripti		description			
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	<u>8595568903105</u>	-	
LHD 40X40_TD	dark wood	2	20	carton	8595568903112	-	
LHD 40X40_FD	black	2	20	carton	8595568935380	with protective foil	















Accessories

package

1

1

10

10

1

10

10

1

10

10

1

1

10

10

1

10

10

1

1

10

EAN

8595057611023

8595568905482

8595568905475

8595568935397

8595057611931

8595568905536 8595568905529

8595568935403

8595057611986

8595568905826 8595568905819

8595568935410

8595057612020

8595568909893

8595568909886

8595568935427

8595057613157

8595568909978 8595568909985

8595568935434

8595057614055

8595568910042

8595568910035

8595568935441

item

8641_HB

8641_I2

8641_FB

8642 HB

8642_I2

8642_FB

8643_HB

8643_I2

8643_FB

8644 HB

8644_I2

8644_FB

8645_HB

8645_FB

8646_HB

8646_I2

8646 FB

end

connecting

bending

branching

inner corner

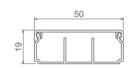
outer corner





	Accessories								
	item	package	EAN						
end									
	8991_HB	10	8595568922380						
connecting									
	8992_HB	10	<u>8595568922397</u>						
bending									
A.	8993_HB	10	8595568922403						
branching									
	8994_HB	10	8595568922410						
inner corner									
1	8995_HB	10	8595568922427						
outer corner	•								
	8996_HB	10	<u>8595568922434</u>						







- Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

 Three options without partition wall, with one partition wall, with two partition walls.

item	MAIN	L			EAN	note	
		m	m	description			
LHD 50X20_HD	white	2	32	carton	8595568922458	without partition wall	
LHD 50X20/1_HD	white	2	32	carton	8595568923530	one partition wall	
LHD 50X20/2_HD	white	2	32	carton	8595568923547	two partition walls	





fire reaction class of underlying material temperature resistance

flaming loop test self-extinguishing impact strength

inside area mechanical protection Q

area with a risk of explosion

8 package

Mah

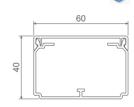
with protective foil antibacteriality

index

LH 60X40









- Standard shape.
 Designed for wall or ceiling mounting.
 Double lock on lid 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.
 Products in black color (conf. FD and FB) are made of UV stable material.

item	mum.	L			EAN	note
		m	m	description		
LH 60X40_HC	white	2	24	foil	8595057610446	without protective foil
LH 60X40_HD	white	2	16	carton	<u>8595057610491</u>	with protective foil
LH 60X40_P2	white	2	16	carton	8595057666047	self-adhesive tape
LH 60X40_FD	black	2	16	carton	<u>8595568935458</u>	with protective foil

Accessories									
	item	package	EAN						
end									
	8651_HB	10	8595057614109						
	8651_FB	10	8595568935465						
connecting									
	8652_HB	10	8595057613256						
	8652_FB	10	8595568935472						
bending									
	8653_HB	10	8595057614284						
A	8653_FB	10	8595568935489						
bending rou	ınd								
	8653R_HB	2	8595057698598						
	8653R_FB	2	8595568935526						
branching									
	8654_HB	10	8595057613270						
	8654_FB	10	8595568935496						
branching r	ound								
	8654R_HB	2	8595057698604						
	8654R_FB	2	8595568935533						
inner corne	r (variable)								
	8655_HB	10	8595057614260						
1	8655_FB	10	8595568935502						
outer corne	r (variable)								
	8656_HB	10	8595057614246						
3	8656_FB	10	8595568935519						
spacer									
	RLH 60X40_HB	100	<u>8595057610385</u>						
partition wa	II								
	PEKD 40C	20 m	8595057690448						
سا	more informa	ation on p	g. <u>2-60</u>						





temperature resistance





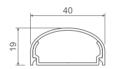




LE 40























- Elegant shape.
 Designed for wall mounting.
 Not to be mounted on the floor or to be loaded by being stepped on.
 Possibility to insert instrument carrier.

item	MAN	L	m description		EAN	note
		m				
LE 40_HD	white	2	24	carton	8595057620827	with protective foil

Accessories								
	item	item package						
end								
	8751_HB	2	8595057622166					
connecting								
	8752_HB	2	8595057622173					
bending								
	8753_HB	2	8595057622180					
branching								
4	8754_HB	2	8595057622197					
inner corner								
	8755_HB	2	8595057622203					
outer corne	r							
	8756_HB	2	8595057622210					
grommet								
	8757_HB	2	8595057622227					
	intended for LK 80X28	transition	to trunking box					
instrument	carrier							
00	PNE 40 2Z_HB	10	8595057652347					
	more informa	ation on p	g. <u>2-64</u>					







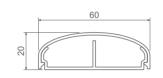






Accessories								
	item	package	EAN					
end								
	8761_HB	2	8595057622296					
connecting								
	8762_HB	2	<u>8595057622302</u>					
bending								
	8763_HB	2	<u>8595057622319</u>					
branching								
4	8764_HB	2	<u>8595057622326</u>					
inner corne	r							
	8765_HB	2	<u>8595057622333</u>					
outer corne	r							
	8766_HB	2	<u>8595057622340</u>					
instrument	carrier							
177	PNE 60X20_HB	10	<u>8595057627475</u>					
	more informa	ation on p	g. <u>2-64</u>					
instrument	carrier for mo	unting a	double-socket					
	PNE 60X20 2Z_HB	10	8595057627482					
	more informa	ation on p	g. <u>2-64</u>					







- Elegant shape.
 Designed for wall mounting.
 Not to be mounted on the floor or to be loaded by being stepped on.
 Possibility to insert instrument carrier.

item		L			EAN	note
		m	m	description		
LE 60_HD	white	2	18	carton	8595057620889	with protective foil



inside area

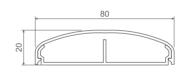
























- Elegant shape.
 Designed for wall mounting.
 Not to be mounted on the floor or to be loaded by being stepped on.
 Possibility to insert instrument carrier.

item	MAM	L			EAN	note
		m	m m description			
LE 80_HD	white	2	20	carton	8595057620940	with protective foil

Accessories						
	item	package	EAN			
end						
	8771_HB	2	8595057621923			
connecting						
	8772_HB	2	8595057621930			
bending						
	8773_HB	2	8595057621947			
branching						
	8774_HB	2	<u>8595057621961</u>			
inner corne	r					
	8775_HB	2	<u>8595057621954</u>			
outer corne	r					
	8776_HB	2	8595057621978			
spacer						
	RLE 80_HB	10	8595057624702			
instrument	carrier					
TA	PNE 80X20_HB	10	8595057624689			
	more informa	ation on p	g. <u>2-64</u>			





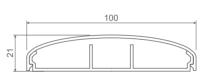


index

LE 100 inner corner RLE 100 8785 outer corner 8786 connecting 8782







MAT -5 - +60°C

- Designed for wall mounting.

 Not to be mounted on the floor or to be loaded by being stepped on.

 Possibility to insert instrument carrier.

Elegant shape

item		L			EAN	note	
		m	m	description			
LE 100_HD	white	2	16	carton	8595057621008	with protective foil	



0 fire reaction class of underlying material temperature resistance

flaming loop test 8

*

self-extinguishing impact strength

inside area for mounting a double-socket Q area with a risk of explosion

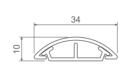






Accessories							
	item package EAN						
bending							
	8833_HB	2	8595057655218				
	8833_KB	2	8595057656505				
	8833_LB	2	8595057662230				
transition branching							
	8824/43_HB	10	8595057634008				
	intended for transition to trunking LP 80X25						
branching							
	8834_HB	2	8595057655225				
	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 tr	unking bo	x LK 80X28				





















0,5 J - conf. HD, P2 2 J - conf. KD, LD, L2 -5 - +60°C 850°C 65; 65 mm²

Designed for mounting on the floor.
Designed for load capacity common in apartments and offices.

item		L			EAN	note	
		m	m	description			
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	





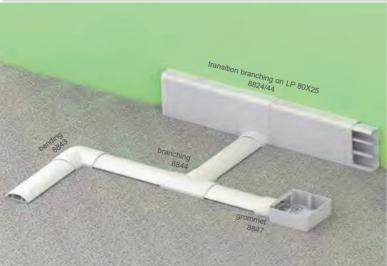






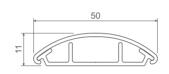
index

LO 50



Accessories							
	item	EAN					
bending							
	8843_HB	2	859505765496				
	8843_KB	2	859505765652				
	8843_LB	2	859505766226				
transition b	ranching						
	8824/44_HB	10	859505763401				
	intended for transition to trunking LP 80X25						
branching							
	8844 HB	2	859505765497				
	0044_ND		039303703497				
	8844_KB	2					
		_	859505765653 859505766227				
grommet	8844_KB	2	859505765653				
grommet	8844_KB	2	859505765653 859505766227				
grommet	8844_KB 8844_LB	2 2	859505765653				





















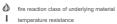
- Designed for mounting on the floor.

 Designed for load capacity common in apartments and offices.

item	MAN	L			EAN	note	
		m	m	description			
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	<u>8595057668959</u>	self-adhesive tape	









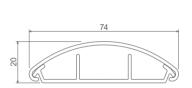






Accessories							
	item	package	EAN				
bending							
	8873_HB	2	8595057656604				
	8873_KB	2	8595057656611				
	8873_LB	2	<u>8595057662292</u>				
branching							
	8874_HB	2	8595057656628				
	8874_KB	2	<u>8595057656635</u>				
	8874_LB	2	8595057662308				



















-5 - +60°C 850°C A1 - F 30 sec. 0,5 J - conf. HD, P2 170; 360; 170 mm² 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	description			
LO 75_HD	white	2	28	carton	8595057656574	with protective foil	
LO 75_P2	white	2	28	carton	<u>8595568902405</u>	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	







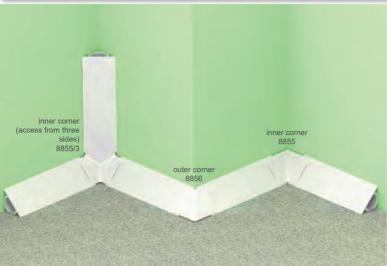


1

4

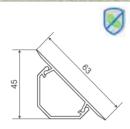
index





Accessories												
	item	package	EAN									
inner corner												
	8855_HB	5	8595057634039									
inner corner	(access from	n three s	ides)									
	8855/3_HB	5	8595057634022									
outer corner	•											
	8856_HB	10	8595057634046									

















- -5 +60°C 850°C A1 F 30 sec.
 - - 560 mm²

- 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.

 Lid edge manufactured with softened material for better adhesion to the foundation.

 European Industrial design protection.

item		L			EAN	note	
		m	m	description			
LR 30_HB	white	2,6	26	carton	8595057615908	with protective foil	





- fire reaction class of underlying material
 - temperature resistance
- flaming loop test
- Ø self-extinguishing ₽. impact strength
- package d area with a risk of explosion

inside area

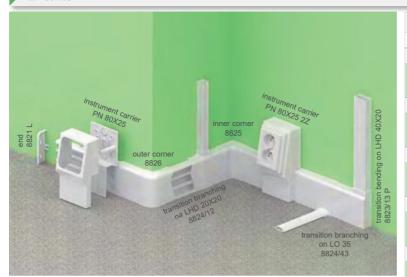


antibacteriality

color with protective foil

Accessories

LP 80X25













-5 - +60°C 850°C A1 - F 30 sec.











It is designed for installation in the corner between the floor and wall.

item	MAN	L			EAN	note	
		m	m	description			
LP 80X25_HD	white	2	16	carton	8595057609471	with protective foil	



end left 8821 L_HB
end right 8821 P_HB
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
8822_HB
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
8825_HB
8825_HB 10 8595057611719 outer corner 8826_HB 10 8595057611283 transition branching 8824/12_HB 10 8595057611191 intended for transition to trunking LHD 20X20
8826_HB 10 8595057611283 transition branching 8824/12_HB 10 8595057611191 intended for transition to trunking LHD 20X20
10
transition branching 8824/12_HB 10 8595057611191 intended for transition to trunking LHD 20X20
8824/12_HB 10 8595057611191 intended for transition to trunking LHD 20X20
intended for transition to trunking LHD 20X20
LHD 20X20
8824/40_HB 10 <u>8595057612709</u>
intended for transition to trunking LZK 15X12
transition branching
8824/41_HB 10 <u>8595057612693</u>
intended for transition to trunking LZ 15X12
transition branching
8824/43_HB 10 <u>8595057634008</u>
intended for transition to trunking LO 35
transition branching
8824/44_HB 10 <u>8595057634015</u>
intended for transition to trunking LO 50
transition bending left
8823/13 L_HB 10 8595057611467
intended for transition to trunking LHD 40X20
transition bending right
8823/13 P_HB 10 8595057611481
intended for transition to trunking LHD 40X20



0 fire reaction class of underlying material temperature resistance



flaming loop test a self-extinguishing impact strength



inside area package 0 area with a risk of explosion







instrument carrier

PN 80X25_HB

PN 80X25 2Z_HB

10

10

more information on pg. 2-65

8595057611443

8595057611399

index

LPK 80X25

















450; 520; 400 mm²





- 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	description		
LPK 80X25_HD	white	2	10	carton	<u>8595057616318</u>	

Accessories													
	item	package	EAN										
end left													
=	8821 L_HB	10	<u>8595057611337</u>										
end right													
1	8821 P_HB	10	<u>8595057611313</u>										
transition branching													
	8824/12_HB	10	<u>8595057611191</u>										
	intended for LHD 20X20	transition	to trunking										
transition br	anching												
	8824/40_HB	10	8595057612709										
	intended for LZK 15X12	transition	to trunking										
transition branching													
	8824/41_HB	10	8595057612693										
	intended for transition to trunking LZ 15X12												
transition br	anching												
	8824/43_HB	10	8595057634008										
	intended for	transition	to trunking LO 35										
transition be	anching												
	8824/44_HB	10	<u>8595057634015</u>										
	intended for	transition	to trunking LO 50										
transition be	ending left												
	8823/13 L_HB	10	<u>8595057611467</u>										
	intended for LHD 40X20	transition	to trunking										
transition be	ending right												
	8823/13 P_HB	10	<u>8595057611481</u>										
	intended for LHD 40X20	transition	to trunking										
instrument of	carrier												
-	PN 80X25 HB	10	8595057611443										



carrier								
PN 80X25_HB	10	8595057611443						
PN 80X25 2Z_HB	10	8595057611399						
more information on pg. 2-65								















Accessories

package

10

10

1 1

1

10

1

10

1

10

1

80

more information on pg. 2-63

item

8861 L_HB

8861 L_I1

8861 L_I2

8861 P_HB

8861 P I1

8865_HB

8865_I1

8865_I2

8866 HB

8866 I1

8866_I2

PNLP 35 2Z_HB

PNLP 35 2Z_I1

more information on pg. 2-64

instrument carrier QUADRO PNQ LP 35_HB

end left

end right

inner corner

outer corner

instrument carrier

FAN

8595057634053

8595057669291

8595057669314 8595568905543

8595057638792

8595057669246

8595057669321

8595568905550

8595057634060

8595057669253

8595057669338 8595568905567

8595057634077

8595057669307

8595057669345 8595568905512

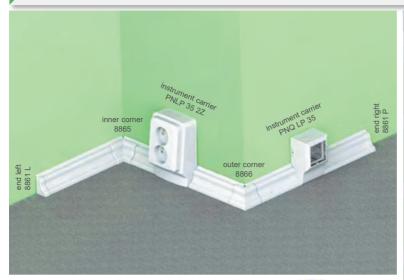
8595057655041

8595057669239

8595057669352 8595568910387

8595568927378

LP 35













A1 - F 30 sec.









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	m/m	L			EAN	note
		m	m	description		
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	-







0 fire reaction class of underlying material

1 flaming loop test Ø self-extinguishing 1

inside area for mounting a double-socket 0 area with a risk of explosion





index

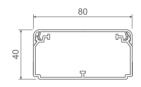
EKD 80X40































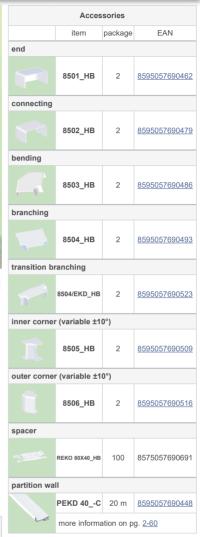
- It is designed for inserting multiple cables or cables of larger diameters.

 Possibility to insert PEKD 40 partition wall.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

▶	Spacers	are	included	in	the	package -	always	1	pc per 1 m	١.

item		L			EAN	note	
		m	m	description			
EKD 80X40_HC	white	2	20	foil	<u>8595057697591</u>	without protective foil	
EKD 80X40_HD	white	2	10	carton	<u>8595057690455</u>	with protective foil	







flaming loop test impact strength



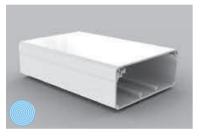


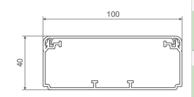




























-5 - +60°C 850°C A1 - F 30 sec. 0,5 J 3010 mm²

- It is designed for inserting multiple cables or cables of larger diameters.

 Possibility to insert PEKD 40 partition wall.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

 Spacers are included in the package always 1 pc per 1 m.

item	MNM	L			EAN	note	
		m	m	description			
EKD 100X40_HD	white	2	8	carton	8595057690530	with protective foil	

Accessories							
	item	package	EAN				
end							
	8511_HB	2	<u>8595057690547</u>				
connecting							
	8512_HB	2	8595057690554				
bending							
	8513_HB	2	<u>8595057690561</u>				
branching							
	8514_HB	2	<u>8595057690578</u>				
transition be	anching						
	8514/EKD_HB	2	<u>8595057690608</u>				
inner corner	(variable ±1	D°)					
	8515_HB	2	<u>8595057690585</u>				
outer corner	r (variable ±1	0°)					
	8516_HB	2	8595057690592				
spacer							
	REKO 100X40_HB	100	8575057690707				
partition wa	II						
	PEKD 40C	20 m	8595057690448				
Le	more informa	ation on p	g. <u>2-60</u>				







index

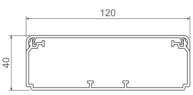
EKD 120X40

























- It is designed for inserting multiple cables or cables of larger diameters.

 Possibility to insert PEKD 40 partition wall.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

 Spacers are included in the package always 1 pc per 1 m.

item	mun	L			EAN	note	
		m	m m descript				
EKD 120X40_HC	white	2	20	foil	8595057699328	without protective foil	
EKD 120X40_HD	white	2	8	carton	8595057690615	with protective foil	

Accessories									
	item	package	EAN						
end									
	8581_HB	2	8595057690622						
connecting									
	8582_HB	2	8595057690639						
bending									
	8583_HB	2	8595057690646						
branching									
	8584_HB	2	<u>8595057690653</u>						
transition b	ranching								
	8584/EKD_HB	2	8595057690684						
inner corner	r (variable ±1	0°)							
Î	8585_HB	2	<u>8595057690660</u>						
outer corne	r (variable ±1	0°)							
	8586_HB	2	<u>8595057690677</u>						
spacer									
-	REKO 120X40_HB	100	<u>8595057690714</u>						
partition wa	II								
	PEKD 40C	20 m	8595057690448						
Le	more informa	ation on p	g. <u>2-60</u>						





temperature resistance









EAN





Accessories

item

package





















-5 - +60°C 850°C A1 - F 30 sec. 2 J 2600 mm²

- It is designed for inserting multiple cables or cables of larger diameters. Possibility to insert PEKE 60 and PKS 70/60 partition walls. Spacers are included in the package always 1 pc per 1 m. **European Industrial design protection.**

item	MAN	L description		EAN	note	
				description		
EKE 60X60_HD	white	2	18	carton	8595057620766	with protective foil



8546_HB

2

8595057622050

8595057626416

8595057627079

8595057664364

outer corner

spacer











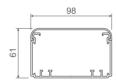


index

EKE 100X60









- It is designed for inserting multiple cables or cables of larger diameters.

 Possibility to insert partition wall or shielding canal.

 Possibility to insert an instrument box and subsequently mount common types of instruments.

 Spacers are included in the package always 1 pc per 1 m.

 European Industrial design protection.

item	MAM	min L			EAN	note	
	n		m	description			
EKE 100X60_HD	white	2	8	carton	<u>8595057620735</u>	with protective foil	

	item	nackage	EAN
	item	package	EAN
end			
	8551_HB	2	8595057622418
connecting			
N	8552_HB	2	8595057622425
bending			
	8553_HB	2	8595057622432
branching			
F	8554_HB	2	8595057622449
inner corne	r		
V	8555_HB	2	8595057622456
outer corne	r		
4	8556_HB	2	8595057622463
spacer			
	REKE 100_HB	9	8595057626409
partition wa	ıll		
PEKE 600		20 m	8595057627079
PKS 70/60_		20 m	8595057664364
PEP 60_HD		32 m	8595057668768
PEP 60/K_S		24 m	8595057668775
more informa	ation on pg. <u>2</u> -	<u>60 - 2-61</u>	
shielding ca	anal		
SK 40X20_5		12 m	8595057614840
SK 40X33_5	3	12 m	8595057630291
more informa	ation on pg. 2-	62	
instrument	box		
KP EKE_HE	3	10	8595057621732
more informa	ation on pg. 2-	66	
instrument	underlay		
8550-11_HB		2	8595057646667
8550-12_HE		2	8595057646674
8550-13_HB		2	8595057646681









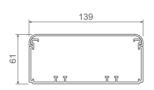




EKE 140X60

























- 2 J
- It is designed for inserting multiple cables or cables of larger diameters.
 Possibility to insert partition wall or shielding canal.
 Possibility to insert an instrument box and subsequently mount common types of instruments.
 Spacers are included in the package always 1 pc per 1 m.
 European Industrial design protection.

item	MAM L				EAN	note	
		m	m	description			
EKE 140X60_HD	white	2	6	carton	8595057620704	with protective foil	

Accessories							
	item	package	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 60C		20 m	8595057627079				
PKS 70/60_X	Х	20 m	8595057664364				
PEP 60_HD		32 m	8595057668768				
PEP 60/K_S		24 m	859505766877				
more informat	ion on pg. 2-	60 - 2-61					
shielding car							
SK 40X20_S	iai	12 m	8595057614840				
SK 40X20_S SK 40X33 S		12 m	8595057614840 8595057630291				
			000000100029				
more informat							
instrument b	ox, instrume						
KP EKE_HB		10	8595057621732				
PN EKE_S		1	8595057658028				
more informat	ion on pg. <u>2-</u>	<u>66</u> - <u>2-67</u>					
	nderlay						
instrument u		2	8595057646698				
instrument u 8560-11_HB							
		2					
8560-11_HB			8595057646704 8595057646711				

material

fire reaction class of underlying material

flaming loop test impact strength





for mounting a double-socket for mounting a wall socket

inside area



package of area with a risk of explosion 苧 IP classification



with protective foil 8 antibacteriality

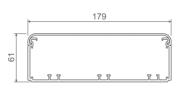
index

EKE 180X60 shielding canal SK 40X33 clamp for shielding canal PSK 1 spacer REKE 180 instrument box KP EKE inner corner 8575 end 8571 outer corner 8576 bending 8573 partition wall branching PEKE 60 8574 connecting 8572











- It is designed for inserting multiple cables or cables of larger diameters.

 Possibility to insert partition wall or shielding canal.

 Possibility to insert an instrument box and subsequently mount common types of instruments.

 Spacers are included in the package always 1 pc per 1 m.

 European Industrial design protection.

item		L			EAN	note	
		m	m	description			
EKE 180X60_HD	white	2	6	carton	8595057620674	with protective foil	

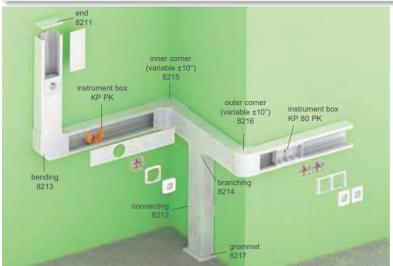
	8571_HB	2	8595057622357
connecting			
	8572_HB	2	8595057622364
bending			
	8573_HB	2	8595057622371
branching			
	8574_HB	2	8595057622388
inner corne	•		
	8575_HB	2	<u>8595057622395</u>
outer corne			
4	8576_HB	2	8595057622401
spacer			
	REKE 180_HB	9	8595057626386
partition wa	II		
PEKE 60C		20 m	8595057627079
PKS 70/60_2	CX	20 m	8595057664364
PEP 60_HD		32 m	8595057668768
PEP 60_HD PEP 60/K_S	etion on ng 2	24 m	8595057668775
PEP 60_HD PEP 60/K_S more informa	ition on pg. <u>2-</u>	24 m	8595057668775
PEP 60_HD PEP 60/K_S more informa shielding ca	nal	24 m 60 - 2-61	8595057668775
PEP 60_HD PEP 60/K_S more informa shielding ca SK 40X20_S	nal	24 m	8595057668775 8595057614840
PEP 60_HD PEP 60/K_S more informations shielding cat SK 40X20_S SK 40X33_S	nal	24 m 60 - 2-61 12 m 12 m	8595057668775 8595057614840
PEP 60_HD PEP 60/K_S more informa shielding ca SK 40X20_S SK 40X33_S more informa	nal	24 m 60 - 2-61 12 m 12 m	8595057668775 8595057614840 8595057630291
PEP 60_HD PEP 60/K_S more informa shielding ca SK 40X20_S SK 40X33_S more informa	nal ation on pg. 2-	24 m 60 - 2-61 12 m 12 m	8595057668775 8595057614840 8595057630291
PEP 60_HD PEP 60/K_S more informa shielding ca SK 40X20_S SK 40X33_S more informa instrument I	nal ation on pg. 2-	24 m 60 - 2-61 12 m 12 m 62 ent carrie	8595057668775 8595057614840 8595057630291



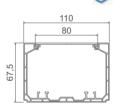
- 0 fire reaction class of underlying material
- temperature resistance
- flaming loop test a self-extinguishing impact strength
- **/////** for mounting a double-socket 000 for mounting a wall socket
- package Q
- area with a risk of explosion 苧
- with protective foil 8 antibacteriality



PK 110X65 D

























- Designed for inserting power and communication circuits, security lines and other lines. Individual lines can be electromagnetically shielded by inserting a shielding canal, which is fixed to the trunking by clamps PSK 1.
- For classical instruments that are installed in a closed instrument box KP 80 PK clicked in the body of the canal or into an open instrument box KP PK installed in the bottom of the parapet trunkings.
- With using KOPOBOX MINI P, modular devices can be installed (pg. 1-95).
- To install devices with very rounded corners, KOPOS recommends using of the KP PK instrument box and drilling the hole in the lid using the VPT 64 drill.
- Quick lid instalation is done by pressing it in the middle.

item	m/Jm	L	L 🟐		EAN	note	
		m	m	description			
PK 110X65 D_HD	white	2	6	carton	8595568924636	with protective foil	





Accessories							
	item	package	EAN				
end							
	8211_HB	2	8595568924643				
connecting							
	8212_HB	2	<u>8595568924650</u>				
bending							
7	8213_HB	2	8595568924667				
branching							
	8214_HB	2	8595568924674				
inner corner	(variable ±1	0°)					
	8215_HB	2	<u>8595568924681</u>				
outer corner	r (variable ±1	0°)					
	8216_HB	2	8595568924698				
grommet							
	8217_HB	2	8595568927132				
partition wa	II						
PEKE 60C		20 m	<u>8595057627079</u>				
PKS 70/60_2	ΚΧ	20 m	8595057664364				
PEP 60_HD		32 m	8595057668768				

more information on	ng 260 261	n.a	
more information on	1 pg. <u>2-60</u> - <u>2-61</u>	pg.	

more information on pg. 2-62

shielding canal		
SK 40X20_S	12 m	8595057614840
SK 40X33_S	12 m	8595057630291
SK 40X33 - only when usi	na KP PK	

24 m <u>8595057668775</u>

i	nei	hrii	me	nt	box	
ı	115	u u	HIE	2111	DUX	

PEP 60/K S

KP 80 PK_HB	2	8595568930224
KP PK_HB	10	8595057629011

more information on pg. 2-66 - 2-67













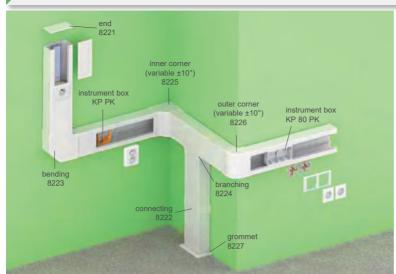
0 fire reaction class of underlying material with protective foil



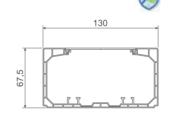
Q area with a risk of explosion



PK 130X65 D























- Designed for inserting power and communication circuits, security lines and other lines.
- Individual lines can be electromagnetically shielded by inserting a shielding canal, which is fixed to the trunking by clamps PSK 1.
- For classical instruments that are installed in a closed instrument box KP 80 PK clicked in the body of the canal or into an open instrument box KP PK installed in the bottom of the parapet trunkings.
- With using KOPOBOX MINI P, modular devices can be installed (pg. 1-95).
- To install devices with very rounded corners, KOPOS recommends using of the KP PK instrument box and drilling the hole in the lid using the VPT 64 drill.
- Quick lid instalation is done by pressing it in the middle.

item	mum.	L									EAN	note
		m	m	description								
PK 130X65 D_HD	white	2	6	carton	8595568924704	with protective foil						





- MAT
- fire reaction class of underlying material
- temperature resistance
- flaming loop test
- impact strength
- self-extinguishing
- for mounting a double-socket
- IP classification





Accessories

package

2

2

2

2

2

20 m

20 m

32 m

24 m

12 m

10

item

8221_HB

8222 HB

8223_HB

8224_HB

8225 HB

8226_HB

8227_HB

more information on pg. 2-60 - 2-61

SK 40X33 - only when using KP PK, more information on pg. 2-62 instrument box KP 80 PK HB

more information on pg. 2-66 - 2-67

inner corner (variable ±10°)

outer corner (variable ±10°)

end

connecting

bending

branching

arommet

partition wall

PEKE 60_-C

PEP 60_HD

PEP 60/K_S

shielding canal

SK 40X20_S

SK 40X33_S

KP PK HB

PKS 70/60 XX

FAN

8595568924711

8595568924728

8595568924735

8595568924742

8595568924759

8595568924766

8595568927149

8595057627079

8595057664364

8595057668768

8595057668775

8595057614840

8595057630291

8595568930224

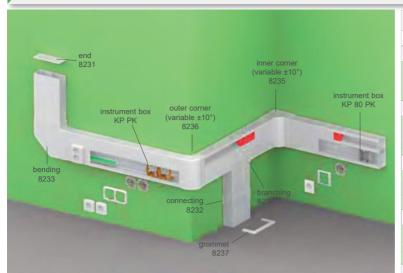
8595057629011

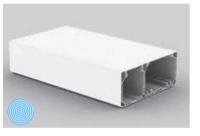
with protective foil

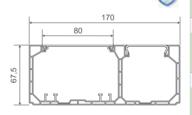


FAN

PK 170X65 D

























- Designed for installation of standard and modular devices 45 x 45 or 45 x 22,5 mm.
- Installation devices from other manual depth of 52 mm.

 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 channel and the lid is attached to the box. The open device box KP PK is snapped into the bottom of the channel and the lid must be drilled with a VPT 64 drill.
- Installation of modular devices without additional accessories.
- Maximum number of modular instruments placed next to each other is 3 pcs. When installing multiple instruments next to each, it is necessary to put about 5 cm wide piece of lid after 3 pieces to fasten them.

item	[m]N] ^m	L			EAN	note
		m	m	description		
PK 170X65 D_HD	white	2	6	carton	8595568924773	with protective foil





- MAT
- fire reaction class of underlying material
 - temperature resistance
- flaming loop test
- 8
- self-extinguishing impact strength
- for mounting a double-socket Q area with a risk of explosion
- 苧 IP classification mechanical protection



package with protective foil antibacteriality

end			
	8231_HB	2	8595568924780
connecting			
	8232_HB	2	8595568924797
bending			
7	8233_HB	2	8595568924803
branching			
1	8234_HB	2	8595568924810
inner corner	(variable ±1	0°)	
1	8235_HB	2	8595568924827
outer corner	(variable ±1	0°)	
F.	8236_HB	2	8595568924834
grommet			
	8237_HB	2	8595568927156
partition wal	I		
PEKE 60C		20 m	8595057627079
PKS 70/60_X	X	20 m	8595057664364
PEP 60_HD		32 m	8595057668768
PEP 60/K_S		24 m	8595057668775
more informa	tion on pg. 2-	<u>60</u> - <u>2-61</u>	

Accessories

package

item

more information on pg. 2-62

more information on pg. 2-66 - 2-67

shielding canal		
SK 40X20_S	12 m	8595057614840
SK 40X33_S	12 m	8595057630291
SK 40X33 - only when usi	na KP PK	

instrument box		
KP 80 PK_HB	2	<u>8595568930224</u>
KP PK_HB	10	<u>8595057629011</u>

PK 90X55 D





8402 HB 8595057688070 8403_HB 2 8595057688087

Accessories

package

2; 10

EAN

8595057688063

8595057688117

8595057688124

item

8401_HB









arommot		
grommet		

8407_HB

partition wall

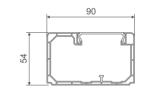
PEKE 60C	20 m	8595057627079
more informa	ition on p	g. <u>2-60</u>

PKS 70/60_XX 20 m 8595057664

partition wall

more informa	ation on p	g. <u>2-61</u>







- Designed for installation of modular devices 45 x 45 or 45 x 22,5 mm. KOPOS recommends installing QUADRO instruments (pg. $\underline{2-48}$), 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 instruments placed next to each other is 3 pcs. When installing multiple
- instruments next to each, it is necessary to put about 5 cm wide piece of lid after 3 pieces to fasten them. Installation of modular devices without additional accessories.

item	mun	L			EAN	note	
		m	m	description			
PK 90X55 D_HD	white	2	12	carton	<u>8595057688056</u>	with protective foil	











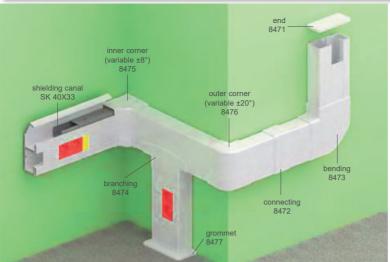




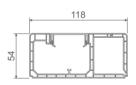




PK 120X55 D













A1 - F 30 sec.











1 J

- Designed for installation of modular devices 45 x 45 or 45 x 22,5 mm.

 KOPOS recommends installing QUADRO instruments (pg. 2-48), 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 canal SK 40X20 or SK 40X33, which ensures perfect shielding of data circuits. If shielding and therefore inserting shielding canals is required, parapet trunking must be installed with tilting section up.
- Maximum number of modular instruments placed next to each other is 3 pcs. When installing multiple instruments next to each, it is necessary to put about 5 cm wide piece of lid after 3 pieces to fasten them.
- Installation of modular devices without additional accessories.
- European Industrial design protection.

Accessories						
	item	package	EAN			
end						
	8471_HB	2; 10	<u>8595057650589</u>			
connecting						
	8472_HB	2	<u>8595057650596</u>			
bending						
	8473_HB	2	8595057650602			
branching						
1	8474_HB	2	8595057650619			
inner corne	r					
	8475_HB	2	<u>8595057650626</u>			
outer corne	r					
C	8476_HB	2	8595057650633			
grommet						
	8477_HB	2	<u>8595057657052</u>			
partition wa	II					
	PEKE 60C	20 m	<u>8595057627079</u>			
more information on pg. 2-60						
partition wall						
	PKS 70/60_XX	20 m	8595057664364			
	more informa	ation on p	g. <u>2-61</u>			
shielding ca	ınal					
SK 40X20_S	3	12 m	8595057614840			
SK 40X33_S	3	12 m	8595057630291			
more information on pg. <u>2-62</u>						

item	MAIM	L 🗑		EAN	note	
		m	m description			
PK 120X55 D_HD	white	2	6	carton	8595057650572	with protective foil



MAT

0 fire reaction class of underlying material





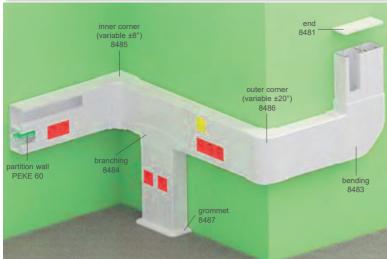




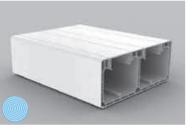


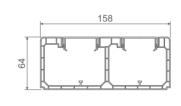
index



















3800/ 3600 mm²



- Designed for installation of modular devices 45 x 45 or 45 x 22,5 mm. KOPOS recommends installing QUADRO instruments (pg. $\underline{2-48}$), 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 instruments placed next to each other is 3 pcs. When installing multiple instruments next to each, it is necessary to put about 5 cm wide piece of lid after 3 pieces to fasten them.
- Installation of modular devices without additional accessories.

	item	package	EAN	
end				
	8481_HB	2; 10	8595057657069	
connecting				
	8482_HB	2	8595057657076	
bending				
	8483_HB	2	8595057657083	
branching				
	8484_HB	2	8595057657090	
inner corner	r			
	8485_HB	2	8595057657106	
outer corner	r			
	8486_HB	2	8595057657113	
grommet				
	8487_HB	2	8595057657120	
partition wa	II			
	PEKE 60C	20 m	8595057627079	
more inform		ation on p	g. <u>2-60</u>	
partition wa	II			
	PKS 70/60_XX	20 m	8595057664364	
	more information on pg. <u>2-64</u>			

item	mylm	L			EAN	note	
		m m description					
PK 160X65 D_HD	white	2	6	carton	<u>8595057657205</u>	with protective foil	





fire reaction class of underlying material







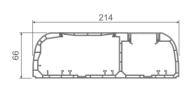




PK 210X70 D

























- Designed for installation of standard and modular devices 45×45 or $45 \times 22,5$ mm. KOPOS recommends installing QUADRO instruments (pg. <u>2-48</u>), tailor-made for KOPOS products. The installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann,
- Installation devices from our maintanations is possible e.g. Abb, FETIA, Egyatta, 300 bettermines. 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 instrument box with 8450 instrument washers are designed for mounting standard instruments and allow the installation of combined frames.
- Maximum number of modular instruments placed next to each other is 3 pcs. When installing multiple instruments next to each, it is necessary to put about 5 cm wide piece of lid after 3 pieces to fasten them.
- Installation of modular devices without additional accessories.
- European Industrial design protection.

item	MAN	L	m description		EAN	note	
		m					
PK 210X70 D_HD	white	2	6	carton	8595057668683	with protective foil	

Accessories							
	item	package	EAN				
end							
	8491_HB	2; 10	8595057668690				
connecting							
	8492_HB	2	8595057668706				
bending							
1	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	<u>8595057668751</u>				
partition wa	II						
PEKE 60C		20 m	8595057627079				
PKS 70/60_)	CX	20 m	8595057664364				
PEP 60_HD		32 m	8595057668768				
PEP 60/K_S		24 m	8595057668775				
more informa	ition on pg. 2-	<u>60 - 2-61</u>					
shielding ca	nal						

shielding canal		
SK 40X20_S	12 m	8595057614840
SK 40X33_S	12 m	8595057630291
more information on pg. 2-	62	

instrument box						
KP PK_HB	10	8595057629011				
more information on pg. 2-6	more information on pg. 2-67					

instrument underlay						
8450-11_HB	2	8595057644052				
8450-12_HB	2	8595057644069				
8450-13_HB	2	8595057644076				
more information on pg. 2-68						















QP 45X45

- QUADRO socket module with protective pin



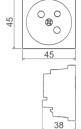




PC-ARS

IP 20

- For 1.5-2.5 mm² Cu wires. The fixing of the conductor is performed by means of 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 $^{\otimes}$. 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	m/m	for trunkings		EAN
QP 45X45_HB	white	PK 90X55 D, PK 90X55 D HF, PK 120X55 D, PK 160X65 D, PK 170X65 D,	1; 20	<u>8595568919175</u>
QP 45X45_BB	red	PK 170X65 D HF, PK 210X70 D	1; 20	<u>8595568919168</u>

QP 45X45 C

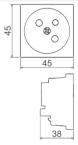
- QUADRO socket module with protective pin and screens





IP 20

- For 1.5-2.5 mm 2 Cu wires. The fixing of the conductor is performed by means of 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 $\mathsf{KOPOBOX}^{\textcircled{\$}}$.
- 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,	1; 20	8595568919199
QP 45X45 C_BB	red	PK 170X65 D HF, PK 210X70 D	1; 20	8595568919182

QS 45X45

- QUADRO socket module with protective contacts (SCHUKO)

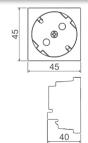






IP 20 PC-ABS

- For 1.5-2.5 mm² Cu wires. The fixing of the conductor is performed by means of 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 $\mathsf{KOPOBOX}^{\textcircled{\$}}$.
- 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
QS 45X45_HB	white	PK 90X55 D, PK 90X55 D HF, PK 120X55 D, PK 160X65 D, PK 170X65 D,	1; 20	<u>8595568925558</u>
QS 45X45_BB	red	PK 170X65 D HF, PK 210X70 D	1; 20	<u>8595568925565</u>









QS 45X45 C

- QUADRO socket module with protective contacts (SCHUKO) and screens

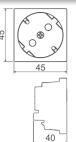


MAT

IP 20 PC-ABS

- For 1.5-2.5 mm 2 Cu wires. The fixing of the conductor is performed by means of screws. Rated voltage 250 V AC, rated current 16 A.
- Recommended tightening torque 0.6 Nm.

- Recommended tightening torque U.D 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
QS 45X45 C_HB	white	PK 90X55 D, PK 90X55 D HF, PK 120X55 D, PK 160X65 D, PK 170X65 D,	1; 20	8595568919502
QS 45X45 C_BB	red	PK 170X65 D HF, PK 210X70 D	1; 20	8595568919519

QD 45X22.5

- modular sockets QUADRO - data

Instalation by click only.



PC-ABS IP 20

	item	description	for trunkings	MAM		EAN
	QD 45X22.5–COVER_HB	Dimensions: 45 x 22,5 x 17 mm		white	1; 20	8595568927231
THE STATE OF THE S	QD 45X22.5-HOLDER_HB	Dimensions: 45 x 22,5 x 17 mm		white	1; 20; 200	8595568932051
1	QD 45X22.5-RJ-45_HB	Dimensions: 45 x 22,5 x 36 mm Cat5E	PK 90X55 D PK 90X55 D HF PK 120X55 D PK 160X65 D	white	1; 20; 200	8595568927279
	QD 45X22.5-RJ45/6_HB	Dimensions: 45 x 22,5 x 30 mm Cat6	PK 170X65 D PK 170X65 D PK 170X65 D HF PK 210X70 D	white	1; 20; 200	8595568931542
	QD 45X22.5–HDMI_HB	Dimensions: 45 x 22,5 x 36 mm 90° connection Not suitable for KOPOBOX®.		white	1; 20	8595568927248
1	QD 45X22.5-USB_HB	Dimensions: 45 x 22,5 x 36 mm 90° connection Not suitable for KOPOBOX®.		white	1; 20	8595568927255

index

LHD 20X10HF



Accessories								
	item	package	EAN					
end								
	8921HF_HB	10	8595057698536					
connecting								
	8922HF_HB	10	8595057698543					
bending								
	8923HF_HB	10	8595057698550					
branching								
4	8924HF_HB	10	8595057698567					
inner corner	•							
100	8925HF_HB	10	8595057698574					
outer corne	r							
1	8926HF_HB	10	<u>8595057698581</u>					





MAT					T _E		J	$\H \to$	IK N
HF	-25 - +90°C	850°C	A1 - F	30 sec.	0,5 J	140 mm ²		IP 40	IK06

- It does not contain halogen elements, suitable for environments with high concentrations of people. Standard shape.

 Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item		L S		EAN	note		
		m	m	description			
LHD 20X10HF_HD	white	2	60	carton	8595057697744	with protective foil	















LHD 20X20HF









intended for transition to trunking box

LK 80X28...

Accessories





- It does not contain halogen elements, suitable for environments with high concentrations of people.
- Standard shape.

- Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

 Use is also possible in systems with maintained functionality in fire see catalogue "Systems with maintained functionality in fire".

item	M) M	L			EAN	note	
		m	m	description			
LHD 20X20HF_HD	white	2	24	carton	<u>8595057657175</u>	with protective foil	











LHD 40X20HF



Accessories								
	item	package	EAN					
end								
	8631HF_HB	10	8595057655744					
connecting								
4	8632HF_HB	10	<u>8595057655805</u>					
bending								
7	8633HF_HB	10	8595057655614					
branching								
4	8634HF_HB	10	8595057655768					
inner corner	r							
1	8635HF_HB	10	8595057655775					
outer corne	r							
F	8636HF_HB	10	8595057655782					
grommet								
grommet								

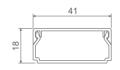
8639HF_HB

LK 80X28...

8595057656642

intended for transition to trunking box







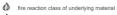
- It does not contain halogen elements, suitable for environments with high concentrations of people.

- Standard shape.

 Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item	MN ^M	L			EAN	note	
		m	m	description			
LHD 40X20HF_HD	white	2	12	carton	8595057656437	with protective foil	













8595057655843

LHD 40X40HF

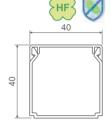


Accessories								
	item	package	EAN					
end								
	8641HF_HB	10	8595057655799					
connecting								
	8642HF_HB	10	<u>8595057655812</u>					
bending								
	8643HF_HB	10	8595057655812					
branching								
PAI	8644HF_HB	10	8595057655829					
inner corne	r							
	8645HF_HB	10	8595057655836					
outer corne	r							

8646HF_HB

10





MAT		*			₽		O	Ť	IK N
HE	-25 - +90°C	850°C	A1 - F	30 sec.	0.5.1	1300 mm ²		IP 40	IK06

- It does not contain halogen elements, suitable for environments with high concentrations of people. Standard shape.

 Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

item	M) M	L			EAN	note
		m	m	description		
LHD 40X40HF_HD	white	2	12	carton	8595057657199	with protective foil







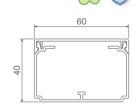
5



LH 60X40HF









- It does not contain halogen elements, suitable for environments with high concentrations of people.
- Standard shape.
- **▶**
- Designed for wall or ceiling mounting.

 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.

 The possibility of inserting partition wall PEKD 40HF.

 Spacers are included in the package always 1 pc per 1 m.

item	MAN	L			EAN	note
		m	m	description		
LH 60X40HF_HD	white	2	16	carton	8595568933782	with protective foil

	Acces	sories	
	item	package	EAN
end			
	8651HF_HB	2	8595568933799
connecting			
	8652HF_HB	2	8595568933805
bending			
	8653HF_HB	2	8595568933812
bending rou	nd		
	8653RHF_HB	2	8595568933829
branching			
	8654HF_HB	2	8595568933836
branching re	ound		
	8654RHF_HB	2	8595568933843
inner corne	(variable)		
	8655HF_HB	2	8595568933850
outer corner	r (variable)		
8	8656HF_HB	2	8595568933867
spacer			
	RLH 60X40HF_HB	50	8595568933874
partition wa	II		
	PEKD 40HFC	20 m	859505769155
Le	more informa	ation on p	g. <u>2-59</u>

TAM	material











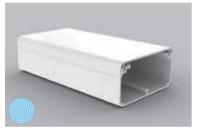


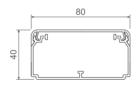


EKD 80X40HF

























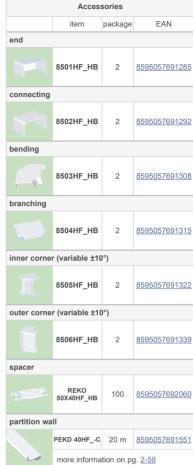


0,5 J 2430 mm²

- It does not contain halogen elements, suitable for environments with high concentrations of people.

- It is designed for inserting multiple cables or cables of larger diameters.
 The possibility of inserting partition wall PEKD 40HF.
 Double lock on lid increasing the trunking's rigidity and ensuring stronger cover fixation.
 Spacers are included in the package always 1 pc per 1 m.

item	MAM	L			EAN	note
		m	m	description		
EKD 80X40HF_HD	white	2	10	carton	8595057691278	with protective foil



material

fire reaction class of underlying material

* self-extinguishing ₩. impact strength

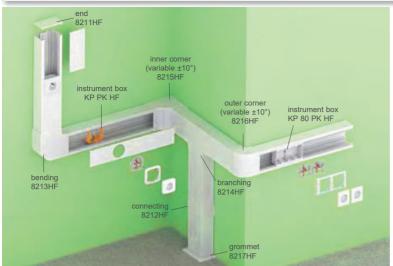




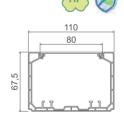


index

PK 110X65 D HF









- It does not contain halogen elements, suitable for environments with high concentrations of people.
- Designed for inserting power and communication circuits, security lines and other lines. Individual lines can be electromagnetically shielded by inserting a shielding canal. For classic devices installed in the KP 80 PK HF device box.

- With using KOPOBOX MINI P, modular devices can be installed (pg. 1-95).

 Use is also possible in systems with maintained functionality in fire see catalogue "Systems with maintained functionality in fire".

item	MVM	L			EAN	note
		m	m	description		
PK 110X65 D HF_HD	white	2	6	carton	8595568934734	with protective foil

	Acces	sories	
	item	package	EAN
end			
	8211HF_HB	2	<u>8595568934741</u>
connecting			
	8212HF_HB	2	8595568934758
bending			
7	8213HF_HB	2	8595568934765
branching			
	8214HF_HB	2	8595568934772
inner corne	(variable ±1	0°)	
	8215HF_HB	2	8595568934789
outer corne	r (variable ±1	0°)	
	8216HF_HB	2	8595568934796
grommet			
	8217HF_HB	2	8595568934802
partition wa	II		
-	PEKE 60 HF_HD	20 m	8595568934826
	more informa	ation on p	g. <u>2-59</u>
instrument l	оох		
KP 80 PK H	F_HB	2	8595568934819
more informa	ation on pg. 2-	<u>59</u>	
shielding ca	ınal		
SK 40X20_S		12 m	8595057614840
SK 40X33_S		12 m	8595057630291
more informa	ation on pg. <u>2-</u>	<u>62</u>	







fire reaction class of underlying material I temperature resistance











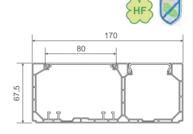


FAN

PK 170X65 D HF









- It does not contain halogen elements, suitable for environments with high concentrations of people. Designed for installation of standard and modular devices 45 x 45 or 45 x 22,5 mm.
 - KOPOS recommends installing QUADRO instruments (pg. 2-48), tailor-made for KOPOS products. The installation devices from other manufacturers is possible e.g. ABB, PEHA, Legrand, OBO Bettermann, Schneider Electric Altira 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 is snapped into the body of the channel and the lid is attached to the box. The open device box KP PK is snapped into the bottom of the channel and the lid must be drilled with a VPT 64 drill.
- Installation of modular devices without additional accessories. Maximum number of modular instruments placed next to each other is 3 pcs. When installing multiple instruments next to each, it is necessary to put about 5 cm wide piece of lid after 3 pieces to fasten them.

item	mulm	L			EAN	note
		m	m	description		
PK 170X65 D HF_HD	white	2	6	carton	8595568934833	with protective foil





- MAT
- fire reaction class of underlying material 1
- temperature resistance
 - antibacteriality
- flaming loop test 8
- self-extinguishing impact strength
- for mounting a double-socket 0 area with a risk of explosion

1	color	
_		



¥	packa	ige	
-			

12 m

12 m

8595057614840

8595057630291





more information on pg. 2-59

more information on pg. 2-62

shielding canal

SK 40X20_S

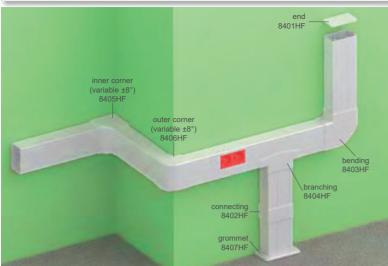
SK 40X33 S

Accessories

package

item

PK 90X55 D HF







Accessories

package

EAN

8595568925480

8595568925527

8595568925541

item

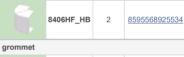
8401HF_HB



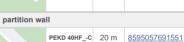




8405HF HB



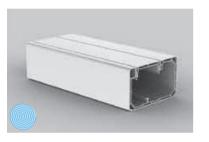
|--|--|--|

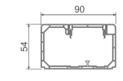


8407HF_HB

|--|









- It does not contain halogen elements, suitable for environments with high concentrations of people.
- Designed for installation of modular devices 45 x 45 or 45 x 22,5 mm. KOPOS recommends installing QUADRO instruments (pg. 2-48), 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 instruments placed next to each other is 3 pcs. When installing multiple instruments next to each, it is necessary to put about 5 cm wide piece of lid after 3 pieces to fasten them.
- Installation of modular devices without additional accessories

item	MAM	L			EAN	note
		m	m	description		
PK 90X55 D HF_HD	white	2	12	carton	8595568925473	with protective foil





fire reaction class of underlying material

temperature resistance



8 self-extinguishing impact strength







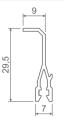


PEKD 40HF - partition wall





It serves to divide the internal space of halogen-free channels and thus for better handling of inserted cables and clarity.



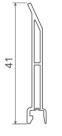
item	for trunkings		L		EAN	
			m	m		
PEKD 40HFC	EKD 40HFC LH 60X40HF, EKD 80X40HF, PK 90X55 D HF		2	20	<u>8595057691551</u>	

PEKE 60 HF - partition wall





It serves to divide the internal space of halogen-free channels and thus for better handling of inserted cables and clarity.



item	for trunkings	for trunkings			EAN
	-		m	m	
PEKE 60 HF_HD	PEKE 60 HF_HD PK 110X65 D HF, PK 170X65 D HF		1	10	8595568934826

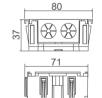
KP 80 PK HF - instrument box for halogen-free channels PK





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		pcs	EAN
KP 80 PK HF_HB	PK 110X65 D HF, PK 170X65 D HF	white	2; 132	8595568934819











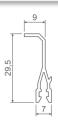




PEKD 40 - partition wall



It uses to divide the internal space of the canals and thus to improve the handling of the cables and their clarity.



item	item for trunkings		L		EAN
			m	m	
PEKD 40C	LH 60X40, EKD 80X40, EKD 100X40, EKD 120X40		2	120	8595057690448

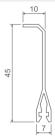
PEKE 60

- partition wall





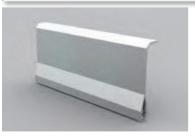
It uses to divide the internal space of the canals and thus to improve the handling of the cables and their clarity.



item	for trunkings		L		EAN	
			m	m		
PEKE 60C	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	

PKS 70/60

- partition wall







- 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	2	20	<u>8595057664364</u>

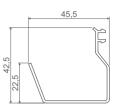








It uses to divide the internal space of the canals and thus to improve the handling of the cables and their clarity.



	item	for trunkings		L		EAN
		MM	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

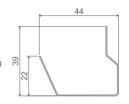
PEP 60/K

- metal partition wall



MAT

- It is fixed by PSK 1.
 It uses to divide the internal space of the canals and thus to improve the handling of the cables and their clarity.
 Individual partition walls should be connected using PLSK connecting
- Use is also possible in systems with maintained functionality in fire see catalogue "Systems with maintained functionality in fire".



item	for trunkings			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	<u>8595057668775</u>	

SK 40X..

- shielding canal





ZN

SK 40X20 - 770 mm²

- SK 40X33 1200 mm² They are used to separate individual types of lines in terms of electromagnetic
- 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 instruments 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		12	<u>8595057614840</u>
SK 40X33_S			12	<u>8595057630291</u>

PSK 1

- clamp for shielding canal





-5 - +60°C

- It uses to secure the shielding canals to the EKE, PK and partition PEP 60/K.
- To install, simply snap into the opposite holes in the shielding canal sides
- It can be used to attach wires together with a fixing tape with a width
- 1 pc PSK 1 (12 pcs of clamps) are used for fixing 1 pc of shielding canal SK (2 m).



item		EAN
	pcs	
PSK 1_HB	5; 320	<u>8595057629035</u>

PLSK

- interconnecting cable of shield trunking



- 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
- Supplied including the screws.
- Screw material is ZNCR.

item			EAN
	mm	pcs	
PLSK_XX	110	10	<u>8595057627345</u>







PNQ...

- instrument carrier QUADRO for modular instruments









-5 - +60°C A1 - F 30 sec.

- It consists of three parts carrier, frame and cover.
- Intended for the assembly of modular instruments QUADRO (pg. <u>2-48</u>), suitable for 45 x 45 45 x 22,5 devices or other manufacturers.





item	А	В	С	for trunkings	man.		EAN
	mm	mm	mm			pcs	
PNQ 20X10_HB	65,8	86	48,2	LHD 20X10		1; 82	8595568927194
PNQ 32X15_HB	65,8	98	48,2	LHD 32X15		1; 80	8595568927187
PNQ 40X20_HB	65,8	108	48,2	LHD 40X20	white	1; 66	8595568927200
PNQ LP 35_HB	65,8	101	48,2	LP 35		1; 80	8595568927378

PN 40X...

- instrument carrier for LV 40X15 and LHD 40X20











-5 - +60°C A1 - D 30 sec.

- It consists of two parts the carrier and cover.
- The instrument carrier includes 1 pcs of blinding pieces. Suitable for the following instruments: Classic, Tango, Swing, Time and others with a max. width of 83 mm.





item	for trunkings			EAN	
			pcs		
PN 40X15_HB	LV 40X15	white	10; 60	8595057610569	
PN 40X20_HB		write	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		light wood	1; 60	8595568910370	

PNLP 35 2Z

- instrument carrier for trunkings LP 35











-5 - +60°C A1 - D

- It consists of two parts the carrier and cover.
- Suitable for the following instruments: Classic, Tango, Swing, Time, Element and others with a max. width of 89 mm.
- Instrument carrier with I2 type is suitable for the trunking with TD type.

item			EAN
		pcs	
PNLP 35 2Z_HB	white	10; 80	<u>8595057655041</u>
PNLP 35 2Z_I1	pink birch	1; 40	8595057669239
PNLP 35 2Z_I2	dark oak	1; 40	<u>8595057669352</u>
PNLP 35 2Z_SD	light wood	1; 40	<u>8595568910387</u>

PNE...

- instrument carrier for trunkings LE











-5 - +60°C A1 - D 30 sec.

- It consists of two parts the carrier and cover.
- After removing the members in the vertical axis, you can mount the double socket.
- Suitable for the following instruments: Classic, Tango, Swing, Time, Element and others with a max. width of 89 mm.



item	Α	В	h	for trunkings			EAN	
	mm	mm	mm			pcs		
PNE 60X20_HB	95	95	38	LE 60	LE 60		10; 60	8595057627475
PNE 60X20 2Z_HB	112	95	38			white	10; 50	8595057627482
PNE 80X20_HB	96	96	38		wnite	10; 60	<u>8595057624689</u>	
PNE 100X20_HB	112	95	38	LE 100		10; 50	8595057624672	

PNE 40 2Z

- instrument carrier for trunkings LE











-5 - +60°C A1 - D 30 sec.

- It consists of two parts the carrier and cover.
- After removing the members in the vertical axis, you can mount the double
- Suitable for the following instruments: Classic, Tango, Swing, Time, Element and others with a max. width of 89 mm.

item	for trunkings	MAN		EAN
			pcs	
PNE 40 2Z_HB	LE 40	white	10; 80	<u>8595057652347</u>

PN 80X25...

- instrument carrier for trunkings LP (LPK) 80X25











-5 - +60°C A1 - D 30 sec.

- It consists of two parts the carrier and cover.
- Suitable for the following instruments: Classic, Tango, Swing, Time and others with a max. width of 83 mm.
 PN 80X25 2Z allows to install double-socket.





item	Α	В	h			EAN
	mm	mm	mm		pcs	
PN 80X25_HB	171	92	55	white	10; 70	8595057611443
PN 80X25 2Z_HB	183	92	57	white	10; 60	<u>8595057611399</u>



index

KP 80 PK

- instrument box for trunking PK











-5 - +60°C A1 - D

- 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		pcs	EAN
KP 80 PK_HB	PK 110X65 D, PK 130X65 D, PK 170X65 D	white	2; 132	8595568930224

KP EKE

- instrument box for trunkings EKE











-5 - +60°C A1 - D 30 sec.

- Allows inserting a shielding canal SK 40X...
- After removing the members for instrument screws (in the vertical axis), you can mount the double-socket.

 The snap-in feet have holes for 2.9x13 screws with a semicircular head (2.9x13V_ZNCR) for efficient securing of the box against unnecessary moving.



item	MN ^M		EAN	
		pcs		
KP EKE_HB	white	10; 70	8595057621732	

KP PK

- instrument box for trunkings PK













- -5 +60°C A1 D Allows inserting a shielding canal SK 40X...
- After removing the members for instrument screws (in the vertical axis), you can mount the double-socket.
- The snap-in feet have holes for 2.9x13 screws with a semicircular head (2.9x13V_ZNCR) for efficient securing of the box against unnecessary



item	for trunkings		pcs	EAN
КР РК_НВ	PK 110X65 D, PK 130X65 D, PK 170X65 D, PK 210X70 D	white	10; 80	8595057629011

PN EKE

- instrument carrier for trunkings EKE



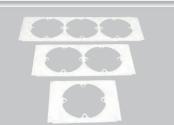


- Instrument carrier for installing sockets 400 V (only 16 A direct). The pitch for socket mounting is 50 and 60 mm. ZNCR finish.
 Suitable eg. the sockets Bals, SEZ etc.

item for trunkings			EAN
		pcs	
PN EKE_S	EKE 140X60, EKE 180X60	1; 24	8595057658028

8450...

- instrument washer for trunkings PK





-5 - +60°C A1 - D 30 sec.

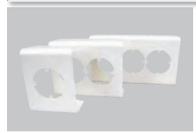
To cover the mounting space of parapet trunking PK 210X70.



item	L	Α	h	for trunkings	for trunkings		EAN
	mm	mm	mm		pcs		
8450-11_HB	110	80	4		white	2; 10; 730	<u>8595057646759</u>
8450-12_HB	181	80	4	PK 210X70 D		2; 10; 440	<u>8595057646766</u>
8450-13_HB	253	80	4			2; 10; 300	<u>8595057646773</u>

8550...; 8560...

- instrument washer for trunkings EKE









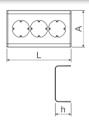




-5 - +60°C A1 - D 30 sec.

- To cover the mounting space of EKE trunkings.

 The 8560-11 single washer allows mounting the double-socket after removing the two fixing eyes.



item	L	Α	h	for trunkings			EAN	
	mm	mm	mm			pcs		
8550-11_HB	110	104	62	EKE 100X60	EKE 100X60 white	2; 52	<u>8595057646667</u>	
8550-12_HB	181	104	62			2; 78	<u>8595057646674</u>	
8550-13_HB	253	104	62			2; 22	<u>8595057646681</u>	
8560-11_HB	110	144	62			2; 42	8595057646698	
8560-12_HB	181	144	62	EKE 140X60	EKE 140X60		2; 56	<u>8595057646704</u>
8560-13_HB	253	144	62			2; 34	8595057646711	



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	pcs	
SP 12X1/10_XX	12 x 1	10	1	<u>8595057620155</u>
SP 15X1/10_XX	15 x 1	10	1	8595057620162

VK 20

- blanking pliers



- Intended for cutting a hole into the side of the trunking for turnout. Width of cut is c. 20 mm.

item	pcs	EAN
VK 20_XX	1	<u>8595057610125</u>





L-42W

- trunking and pipes scissors



Intended for cutting trunkings into size 40 x 20 mm and pipes into 40 mm diameter.

item		EAN
	pcs	
L-42W_XX	1	<u>8595057611962</u>





5822 DER

- plastic support rail



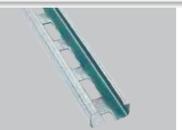


- Designed for mounting standard clips (pg. 4–11) when mounting cables next to each other in a row. In the central axis of the trunking, holes of 4.3×15 mm are cut to fasten the surface material.

item		L		EAN
	mm	m	m	
5822 DER_HA	20 x 10	3	90	<u>8595057605640</u>

5820/..

- metal support rail



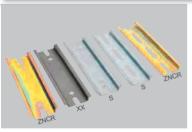


- Designed for mounting standard clips (pg. 4-11) when mounting cables next to each other in a row. In the central axis of the perforated trunking, holes of 4.3×15 mm are cut to fasten the surface material. Can be used to fasten PVC clamps of steel rigid EN pipes (pg. 3-14).

item		L	perforation	material		EAN	
	mm	m			m		
5820/20_S		3	non perforated	Sendzimir	75	<u>8595057605657</u>	
5820/21_S	20 x 10	3	perforated	Sendziniii	Sendziniii	75	8595057605664
5820/30_XX	20 X 10	3	non perforated	withnout surface	75	<u>8595057605671</u>	
5820/31_XX		3	perforated	finish	75	8595057605688	

TS

- metal support rail





- Designed for attaching instruments (circuit breakers, contactors, terminals, etc.) in distributors and
- At both ends there are holes and grooves for attaching to the washer.

Example: TS 35 DZN-CR 0.2: perforated rail, ZNCR surface, length 0,2

item	description	surface finish		L	
			mm	m	
TS35_XX		withnout surface finish			
TS35 ZN_S	with cleaving (5,2 x 25 mm)	Sendzimir		according to specification	
TS35 ZN-CR_ZNCR		ZNCR	35 x 7,5		
TS35 P_XX		withnout surface finish		0	
TS35 ZNP_S	non perforated	Sendzimir		3	
TS35 D_XX		withnout surface finish			
TS35 DZN_S		Sendzimir		according to specification	
TS35 DZN-CR_ZNCR	perforated (ø 5,2 mm)	ZNCR	35 x 7,5		
TS35 DP_XX		withnout surface finish		0	
TS35 DZNP_S		Sendzimir		3	

- I temperature resistance
- dimensions height, width + sheet metal thickness
- mackage package

RK ..X..

- distribution trunking









- Optimal closing, fixed cover. Easy installation and removal.

- Easy installation and removal.

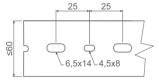
 Trunkings are supplied with cover.

 Rib can be easily breaked out at the bottom of the trunking.

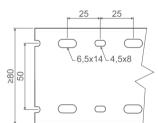
 For construction height 60 mm and above there are shaped ribs.

 Rib width 5,5 mm, cut-out width 4,5 mm.

	0		- +	L				f conductors v	
item		w x h (mm)	w x h (mm)	(m)	(m)	EAN	0,75 mm² Ø 2,8 mm	1 mm² Ø 2,9 mm	1,5 mm² Ø 3,2 mm
RK 30X30_LD		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	grey	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	<u>8595057623255</u>	350	326	268



The perforation is in one row up to the width of 60 mm.



The perforation in two rows above the width of 80 mm.

Accessories to distribution trunkings

				01	9	ð	EAN
cecconnin	flexible conductor trunking (installation by means of bonding tape)	RK-OVK20_LA RK-OVK30_LB RK-OVK40_LB	500 500 500	20 30 40	60 36 24	m	8595057623811 8595057623828 8595057623835
The state of the s	spiral tube	RK-ST6_H25 RK-ST12_H20 RK-ST22_H25		4 9 16		25 20 25	8595057623842 8595057623859 8595057623866
-	fixing rivers (to fix the canal to the underlying material)	RK-PN6_FA		6	4000		8595057623927

fire reaction class of underlying material

I temperature resistance self-extinguishing

dimensions - height, width

inner dimensions - height, width

O outside diameter package

index

RK ..X.. DIN

- distribution trunking DIN

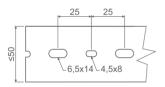




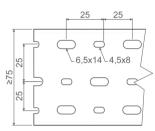
-20 - +60°C A1 - F

- 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.

	0	□ ‡	- 	L				f conductors v unking capacit		
item		w x h (mm)	w x h (mm) (m)		x h (mm) w x h (mm) (m) (m)		EAN	0,75 mm² Ø 2,8 mm	1 mm² Ø 2,9 mm	1,5 mm² Ø 3,2 mm
RK 25X25 DIN_LD		25 x 25	20 x 20	2	48	<u>8595057623606</u>	32	30	25	
RK 50X50 DIN_LD		50 x 50	45 x 45	2	42	<u>8595057623668</u>	165	153	126	
RK 37.5X75 DIN_LD	grey	37,5 x 75	33 x 70	2	24	<u>8595057623712</u>	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	<u>8595057623736</u>	398	371	305	



DIN perforation in one row up to the width of 50 mm.



DIN perforation in three rows above the width of 75 mm..



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 LHD 20X10HF	2	1	-	-	-	-	-	-	-	-	-	-	-
LHD 20X20 LHD 20X20HF	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 LHD 40X20HF	6	5	3	3	2	2	2	2	1	1	1	1	-
LHD 40X40 LHD 40X40HF	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 LH 60X40HF	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 EKD 80X40HF	28	20	14	12	12	10	10	8	6	5	4	4	4
EKD 100X40	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 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 PK 170X65 D HF	93	74	60	55	48	42	37	34	30	22	20	15	12
PK 90X55 D 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

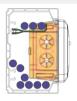
The chart counts with 60 % usage of inner trunking cross-section.

Parapet trunkings - examples of channel usability

Examples of channel usability in combination with accessories. The examples do not represent maximum capacity.

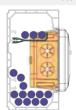
	Examples with s	hielding channel	Examples with partition				
	Ø cable 6 mm (data)	Ø cable 9,5 mm (power)	Ø cable 6 mm (data)	Ø cable 9,5 mm (power)			
PK 90X55 D PK 90X55 D HF	-	-	0	12			
PK 120X55 D	16	6	-	-			
PK 160X65 D	-	-	24	11			
PK 110X65 D PK 110X65 D HF	10	5	0	10			
PK 130X65 D	10	9	0	15			
PK 170X65 D PK 170X65 D HF	10	9	0 14				
PK 210X70 D	16	17	0	22			

PK 110X65 D (HF)



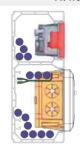


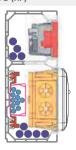
PK 130X65 D





PK 170X65 D (HF)





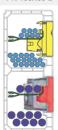
PK 90X55 D (HF)



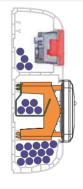


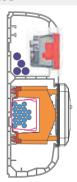


PK 160X65 D



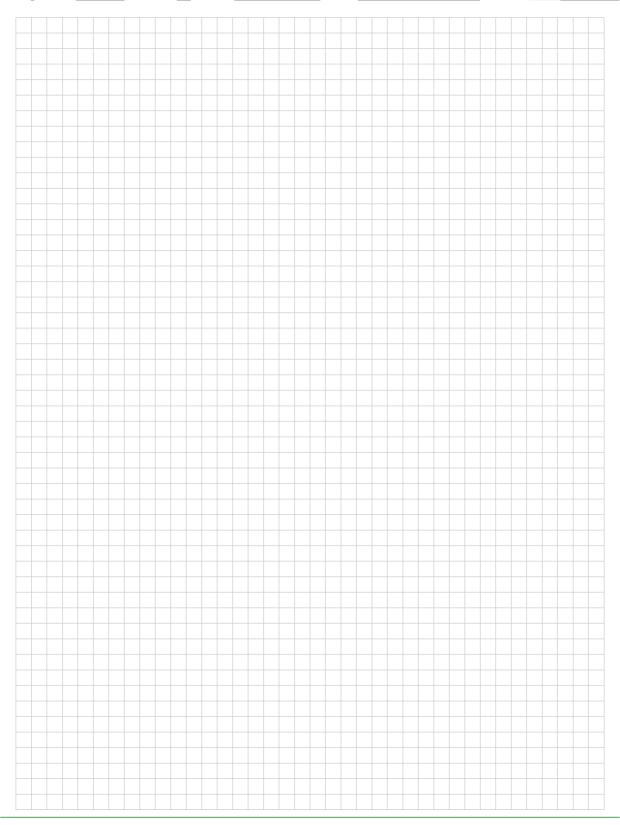




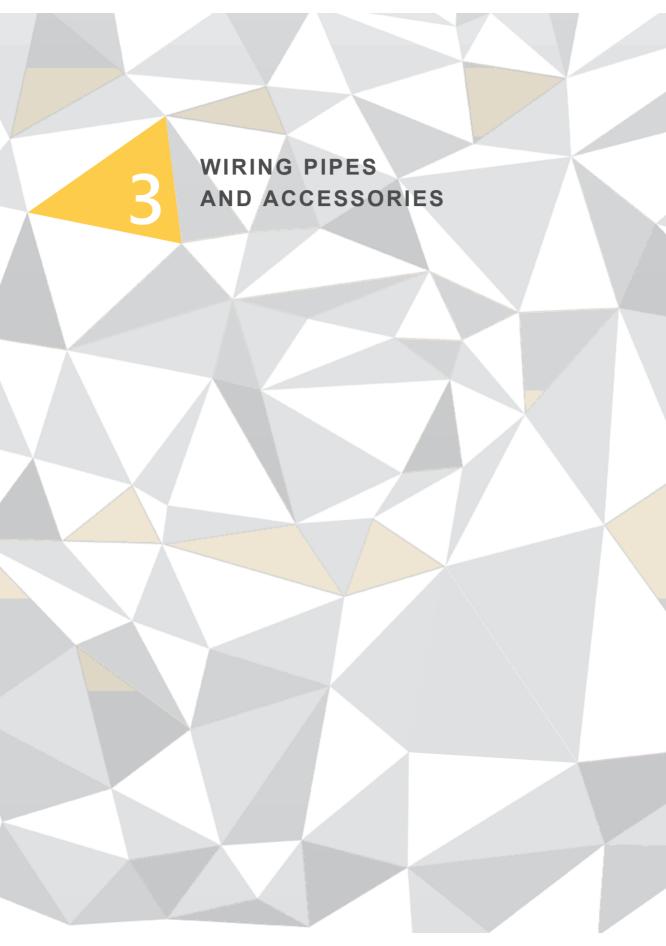


Legend
power cable Ø 9,5 mm
data cable Ø 6 mm
shielding channel (SK 40X33, SK 40X20)
clamp for shielding canal PSK 1
instrument box KP PK
instrument box KP 80 PK
partition walls (PEP 60, PEKE 60)
data socket module QUADRO
power socket module QUADRO

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Wiring pipes and accessories

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.

Flexible pipes
Rigid socket pipes
Cable protection KOPOFLEX® and KOPODUR®
Sectional protection KOPOHALF®
Earthen channel KOPOKAN 3-22
Optical cable protectors - HDPE
Steel pipes
Aluminium pipes
Flexible metal pipe
Drainage pipes 3-40

Tube length tolerance

- rigid: ± 10 mm - flexible: ±1%

Protective tube length tolerance - KOPOFLEX®: - KOPODUR®:

± 0,5 m

- HDPE: - KOPOHALF®:

± 2 mm/m ± 10 mm ± 10 mm

- DUODREN: ± 1 %

- KOPOKAN:

MAT	material		color
	temperature resistance, scope of application (°C)		thread
	fire reaction class of underlying material	—	wall thickness
	self-extinguishing	r _{min}	minimum bending radius (mm)
F	mechanical resistance / load limit value (N)	+	sheet metal thickness
	classification code according to ČSN EN 61386-1	IK NE	mechanical protection
	classification code according to ČSN EN 61386-25		package (m; pcs)
Š	area with a risk of explosion		dimension package
Ť	level of protection - IP classification		accessories, additional assortment
E 90	functionality during a fire	dn	outside diameter
HF	halogen-free material	di	minimal inner diameter
	made of recycled material	R	bending radius
UV E	UV stable	L	length
LSOH	low-smoke and halogen-free material (low smoke zero halogen)		

Classification codes for the declared properties of the piping 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	
re	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			
							+250 °C			
Pipes	KOPOS TYP 1516E - KOPOS TYP 4016E - KOPOS TYP 8016E -	4063	EN 2241 (320 N) EN 3341 (750 N) EN 4441 (1250 N)	PVC PVC PVC		7	+400 °C			

Classification codes for the declared properties of the fixing equipment according to ČSN EN 61386-25

Classification codes for the declared properties of the piping system fixing equipment.

		2	low lateral load
first digit	resistance to lateral load	3	medium lateral load
		4	high lateral load
		1	very low impact strength
		2	low impact strength
second digit	impact resistance	3	medium impact strength
		4	high impact strength
		5	very high impact strength
		1	+5 °C
	range of low temperatures	2	5 °C
third digit		3	15 °C
	·	4	25 °C
		5	45 °C
		0	+40 °C
	range of high temperatures	1	+60 °C
		2	+90 °C
fourth digit		3	+105 °C
Tourtir digit		4	+120 °C
		5	+150 °C
		6	+250 °C
		7	+400 °C
		1	low protection inside and outside
		2	medium protection inside and outside
fifth digit	corrosion resistance	3	medium protection inside, high protection outside
		4	high protection inside and outside
sixth digit	flame spread resistance	1	flame retardant
JIAUI UIGIL	name spread resistance	2	spreading flame
seventh digit	resistance to axial load	0	not specified
seventii uigit	resistance to axiai load	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.

MONOFLEX®

- low mechanical resistance











-5 - +60°C A1 - F 30 sec.

- For surface installation, into or under parget. Suitable for mounting into hollow walls, plaster walls, ceilings and woo
- 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	description	MVM.	di min.	L		EAN	
	mm				mm	m	m		pg.
		1416E_F50	-	black		50	5400	8595568909664	
		1416E_H10	-	white		10	1920	8595568932419	
	16	1416E_K10	-	light grey	10,7	10	1920	8595568924940	
		1416E_K50	-	light grey		50	5400	8595057616035	
		1416E_K50D	with wire	light grey		50	5400	8595057619753	
		1420_F50	-	black		50	4500	8595568909671	
		1420_H10		white	14,1	10	1600	8595568932426	
	20	1420_K10	-	light grey		10	1600	8595568924957	
		1420_K50	-	light grey		50	4500	8595057616042	
		1420_K50D	with wire	light grey		50	4500	8595057619760	3-13 - 3-14
		1425_F50	-	black		50	3000	8595568909695	
EN		1425_H10		white		10	900	8595568932433	
	25	1425_K10	-	light grey	17,8	10	900	8595568927019	
		1425_K50	-	light grey		50	3000	8595057616059	
		1425_K50D	with wire	light grey		50	3000	8595057619777	
		1432_F50	-	black		50	1600	8595568909718	
		1432_H10		white		10	900	8595568932440	
	32	1432_K10	-	light grey	23,8	10	900	8595568927026	
		1432_K50	-	light grey		50	1600	8595057616066	
		1432_K50D	with wire	light grey		50	1600	8595568930767	
		1440_F25	-	black		25	1000	8595568922076	
	40	1440_K25	-	light grey	31,2	25	1000	8595057619715	
		1440_K25D	with wire	light grey		25	1000	8595057621510	
	50	1450_F25	-	black	20.0	25	800	8595568909732	
	50	1450_K25	-	light grey	39,6	25	800	8595057619722	







SUPER MONOFLEX

- medium mechanical resistance





- For surface installation, into or under parget.
- Suitable for mounting into hollow walls, plaster walls, ceilings and wooden
- 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	description	m) N	di min.	L		EAN	
	mm				mm	m	m		pg.
	16	1216E_L50	-	dark grey	10,7	50	5400	8595057612914	
	10	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	14,1	50	4500	8595057619821	3-13
EN	25	1225_L50	-	dark grey	47.0	50	3000	8595057612938	
	25	1225_L50D	with wire	dark grey	17,8	50	3000	8595057619838	-
	32	1232_L25	-	dark grey	20.0	25	1500	8595057612945	<u>3-14</u>
	32	1232_L25D	with wire	dark grey	23,8	25	1500	8595057619845	
	40	1240_L25	-	dark grey	24.0	25	1000	8595057612952	
	40	1240_L25D	with wire	dark grey	31,2	25	1000	8595057693753	
	50	1250_L25	-	dark grey	39,6	25	800	8595057612969	

SUPER MONOFLEX HFPP

- medium mechanical resistance







- 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
- considerations. 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).
- 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.

	dn	item		di min.	L		EAN	
	mm			mm	m	m		pg.
	16	1216EHFPP_L100	grey	10,7	100	5400	8595057621800	5057621817
EN	20	1220HFPP_L100	grey	14,1	100	4800	8595057621817	
EN	25	1225HFPP_L50	grey	18,2	50	2700	8595568927033	<u>3-16</u>
	25	1225HFPP_L100	grey	10,2	100	3600	8595057621824	-
	32	1232HFPP_L50	grey	24,2	50	1600	8595057621831	3-17
	40	1240HFPP_L50	grey	32,5	50	1200	8595057621848	
	50	1250HFPP_L25	grey	41,2	25	700	<u>8595057621855</u>	









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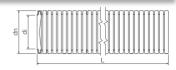
LPE-1

- UV stable, low mechanical resistance



MAT -25 - +90°C 320 N/5 cm 22423 A1

Flexible UV stable pipe to be suitable for outside installations.



	dn	item	item description		di min.	L		EAN	
	mm				mm	m	m		pg.
	16	2316E/LPE-1_F1.DU	with wire	black	10,7	100	7200	8595568936202	
EN	20	2320/LPE-1_F1.DU	with wire	black	14,1	100	4000	8595568902498	
	20	2320/LPE-1_F1.U	-	black		100	4000	8595568902481	
	25	2325/LPE-1_F1.DU	with wire	black	40.0	100	3200	<u>8595057699366</u>	<u>3-17</u>
	25	2325/LPE-1_F1.U	-	black	18,3	100	3200	<u>8595568902504</u>	
	32	2332/LPE-1_F50DU	with wire	black	04.0	50	1600	<u>8595568902573</u>	
	32	2332/LPE-1_F50U	-	black	24,3	50	1600	8595568902566	







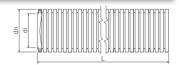
LPE-1

- low mechanical resistance



MAT 320 N/5 cm 22423 -25 - +90°C

Suitable for direct monolithic concreting or under the parget.





white

28,4

50

1600

LPE-2

34,5

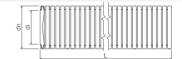
- very low mechanical resistance



2329/LPE-1 H50



Suitable for installing into prefabricated concrete elements.



8595057603721



	dn	item			L		EAN
	mm			mm	m	m	
	18,7	2313/LPE-2_H100	white	13,5	100	4000	<u>8595057603646</u>
	21,2	2316/LPE-2_H100	white	16,0	100	3600	8595057603653
ČSN	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	<u>8595057603684</u>

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APAFS, APACS

- low mechanical resistance















- 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	item		di min.	L	EAN
	mm			mm	m	
	15,8	APAFS16_F50	black	11,8	50	<u>8595057656321</u>
	21,2	APAFS21_F50	black	16,5	50	<u>8595057662179</u>
EN	28,5	APAFS28_F50	black	22,6	50	<u>8595057667266</u>
	34,5	APAFS34_F50	black	28,8	50	<u>8595057658196</u>
	42,5	APACS42_F25	black	35,2	25	8595057667273
	54,5	APACS54_F25	black	46,5	25	<u>8595057651517</u>
	79,3	APACS80_F10	black	67,3	10	8595057667280

Accessories for flexible pipes APAFS / APACS











stable mounting: -50- +120°C 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.
- Combination of utilities is driven by outside diameter of used pipe.

	HF3		HF?		HF		HF	
	Adaptalol	direct flange	Adaptalok	90° flange	Adaptalok	45° flange	Adaptalo	ok termination
pipe dn	item	EAN	item	EAN	item	EAN	item	EAN
mm								
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

















		Adaptal	ok direct	Adapta	llok 90°	Adaptalok 45°		
	pipe dn		item	EAN	item	EAN	item	EAN
	mm							
	16	M16x1,5	AM16/16_FB	<u>8595057626676</u>	AM16/16-90_FB	8595057625228	AM16/16-45_FB	<u>8595057625341</u>
	20	M20x1,5	AM20/20_FB	<u>8595057626133</u>	-	_	_	-
	21	M20x1,5	AM21/20_FB	<u>8595057626683</u>	AM21/20-90_FB	<u>8595057625235</u>	AM21/20-45_FB	<u>8595057625358</u>
EN	25	M25x1,5	AM25/25_FB	<u>8595057626140</u>	-	_	_	-
EN	28	M25x1,5	AM28/25_FB	8595057626690	AM28/25-90_FB	8595057625242	AM28/25-45_FB	<u>8595057625365</u>
	34	M32x1,5	AM34/32_FB	<u>8595057626706</u>	AM34/32-90_FB	8595057625259	AM34/32-45_FB	8595057625372
	42	M40x1,5	AM42/40_FB	<u>8595057626713</u>	AM42/40-90_FB	8595057625266	AM42/40-45_FB	8595057625389
	54	M50x1,5	AM54/50_FB	<u>8595057625150</u>	AM54/50-90_FB	8595057625273	AM54/50-45_FB	8595057625396













		Adaptalok direct		Adapta	lok 90°	Adaptalok 45°		
	pipe dn		item	EAN	item	EAN	item	EAN
	mm							
	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	<u>8595057625419</u>
ČSN	28	PG21	APG28/21_FB	<u>8595057625181</u>	APG28/21-90_FB	8595057625303	APG28/21-45_FB	8595057625426
CSN	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

			HF	O	HF	0		
			Adaptal	ok washer	Adapta	alok nut		
	pipe dn		item	EAN	item	EAN		
	mm							
	16	M16x1,5	A-SW/M16_FB	<u>8595057625686</u>				
	21	M20x1,5	A-SW/M20_FB	<u>8595057625693</u>				
EN	28	M25x1,5	A-SW/M25_FB	<u>8595057625709</u>	The nut is a part of the AM adaptalok			
EIN	34	M32x1,5	A-SW/M32_FB	<u>8595057625716</u>	pacl	package.		
	42	M40x1,5	A-SW/M40_FB	<u>8595057625723</u>				
	54	M50x1,5	A-SW/M50_FB	<u>8595057625730</u>				
	16	PG13,5	A-SW/PG13_FB	8595057625747	A-LN/PG13_FB	8595057625624		
	21	PG16	A-SW/PG16_FB	<u>8595057625754</u>	A-LN/PG16_FB	8595057625631		
ČSN	28	PG21	A-SW/PG21_FB	8595057625761	A-LN/PG21_FB	8595057625648		
CON	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		

SPIROFLEX

- low mechanical resistance





- Flexible 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	n mechanical strain a	and constant pressure,	e.g.: industrial systems a	ind machine equipment.
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dn	item	item di min.		L		EAN
mm			mm	m	m	
20,7	SF16_K30	light grey	16	30	4320	<u>8595057625891</u>
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	<u>8595057625921</u>

Conduit bushing SPIROFLEX





item	main	di trubky	pro typ trubky			EAN	
		mm	пирку	mm	pcs		
SFM20_KB	light grey	16	SF16	M20x1,5	25	<u>8595057625938</u>	
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	









Rigid socket pipes are fireproof-tested.
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	[PIN	di min.	L		EAN	
	mm			mm	m	m		pg.
		1516E_FA	black		3	30	8595568934307	
	16	1516E_HA	white	13.7	3	30	<u>8595057619067</u>	
	10	1516E_KA	light grey	13,7	3	30	8595057617209	
		1516E_KC	light grey		2	20	<u>8595057617216</u>	
		1520_FA	black		3	30	8595568934314	
	20	1520_HA	white	17,4	3	30	8595057619074	
	20	1520_KA	light grey	17,4	3	30	<u>8595057616905</u>	
		1520_KC	light grey		2	20	<u>8595057613867</u>	
		1525_FA	black		3	30	8595568934321	
	25	1525_HA	white	22.1	3	30	<u>8595057619081</u>	
EN	25	1525_KA	light grey	22,1	3	30	8595057616912	
		1525_KC	light grey		2	20	8595057616882	3-13 - 3-14
		1532_FA	black		3	30	8595568934338	
	32	1532_HA	white	28.6	3	30	<u>8595057619098</u>	
	32	1532_KA	light grey	20,0	3	30	8595057616929	
		1532_KC	light grey		2	20	<u>8595057616875</u>	
		1540_HA	white		3	30	8595057619104	
	40	1540_KA	light grey	36,6	3	30	<u>8595057616936</u>	
		1540_KC	light grey		2	20	8595057616943	
		1550_HA	white		3	30	<u>8595057619111</u>	
	50	1550_KA	light grey	45,9	3	30	8595057617704	
		1550_KC	light grey		2	20	8595057644946	
	63	1563_HA	white	58.4	3	15	8595057657373	
	03	1563_KA	light grey	56,4	3	15	8595057626317	



index

Rigid wiring pipes

- medium mechanical resistance





- Rigid socket pipes are fireproof-tested.
- 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).

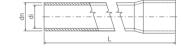
	dn	item		di min.	L		EAN	
	mm			mm	m	m		pg.
	16	4016E_KA	light grey	13,0	3	30	8595057689602	
	10	4016E_LA	dark grey	13,0	3	30	8595057617223	
		4020_KA	light grey		3	30	8595057689954	
	20	4020_KC	light grey	16,9	2	20	<u>8595568903655</u>	
		4020_LA	dark grey		3	30	8595057617018	
	25	4025_KA	light grey	21,4	3	30	8595057689930	
		4025_KC	light grey		2	20	8595568902955	
EN		4025_LA	dark grey		3	30	<u>8595057616981</u>	3-13
		4032_KA	light grey	28,0	3	30	8595057690011	- 1
	32	4032_KC	light grey		2	20	8595568902962	3-14
		4032_LA	dark grey		3	30	8595057617001	
	40	4040_KA	light grey	05.0	3	30	8595057689961	
	40	4040_LA	dark grey	35,8	3	30	8595057616998	
	50	4050_KA	light grey	45.0	3	30	8595057690394	
	50	4050_LA	dark grey	45,0	3	30	8595057617728	
	63	4063_KA	light grey	57.4	3	15	8595057696402	
	03	4063_LA	dark grey	57,4	3	15	8595057626324	

Rigid wiring pipes

- high mechanical resistance



MAT				₽ F		ð	IK	
PVC	-25 - +60°C	A1 - F	30 sec.	1250 N/5 cm	44411		IK09	



- Rigid socket pipes are fireproof-tested.

 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	item	di min.	L		EAN			
	mm			mm	m	m		pg.	
	16	8016E_FA	black	12,2	3	30	8595057617247		
	20	8020_FA	black	15,8	3	30	8595057617087		
EN	25	8025_FA	black	20,6	3	30	<u>8595057617070</u>	3-13	
	32	8032_FA	black	27,0	3	30	<u>8595057617063</u>	3-14	
	40	8040_FA	black	35,0	3	30	<u>8595057617056</u>		
	50	8050_FA	black	44,1	3	30	<u>8595057617711</u>		
	63	8063_FA	black	55,4	3	15	<u>8595057626331</u>		













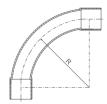








- The elbows with double-sided necks are intended for 90° bends.
- Bending radius ensures smooth transition and allows easy retraction of wires and cables.
- Rigid and flexible pipes can be connected using accessories for rigid pipe.
- If a bend other than 90° is required, it is possible to replace the elbow with a flexible pipe and connecting parts.
 - this 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).



pipe dn	item		R		EAN
mm			mm	pcs	
	4116_FB	black		10; 480	<u>8595057617735</u>
16	4116_HB	white	55	10; 480	8595057643888
10	4116_KB	light grey	55	10; 480	<u>8595057617834</u>
	4116_LB	dark grey		10; 480	<u>8595057617780</u>
	4120_FB	black		10; 240	8595057617742
20	4120_HB	white	70	10; 240	<u>8595057643895</u>
20	4120_KB	light grey	70	10; 240	<u>8595057617841</u>
	4120_LB	dark grey		10; 240	<u>8595057617797</u>
	4125_FB	black		10; 120	8595057617759
25	4125_HB	white	85	10; 120	<u>8595057643901</u>
25	4125_KB	light grey	00	10; 120	<u>8595057617858</u>
	4125_LB	dark grey		10; 120	<u>8595057617803</u>

pipe dn	item		R		EAN
mm			mm	pcs	
	4132_FB	black		10; 60	8595057617322
32	4132_HB	white	110	10; 60	<u>8595057643918</u>
32	4132_KB	light grey	110	10; 60	<u>8595057617346</u>
	4132_LB	dark grey		10; 60	<u>8595057617339</u>
	4140_FB	black		5; 35	8595057617773
40	4140_HB	white	135	5; 35	8595057650657
40	4140_KB	light grey	133	5; 35	<u>8595057617865</u>
	4140_LB	dark grey		5; 35	<u>8595057617810</u>
	4150_FB	black		5; 30	<u>8595057617766</u>
50	4150_HB	white	170	5; 30	8595057668874
30	4150_KB	light grey	170	5; 30	8595057617872
	4150_LB	dark grey		5; 30	8595057617827

Connectors for EN pipes





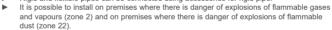


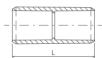






Rigid and flexible pipes can be connected using accessories for rigid pipe.





index

pipe dn	item	MAM	L		EAN
mm			mm	pcs	
	0216E_FB	black		10; 1300	<u>8595057618060</u>
16	0216E_HB	white	45	10; 1300	<u>8595057643925</u>
10	0216E_KB	light grey	45	10; 1300	<u>8595057618183</u>
	0216E_LB	dark grey		10; 1300	<u>8595057618121</u>
	0220_FB	black		10; 800	<u>8595057618077</u>
20	0220_HB	white	50	10; 800	<u>8595057643932</u>
20	0220_KB	light grey		10; 800	<u>8595057618190</u>
	0220_LB	dark grey		10; 800	<u>8595057618138</u>
	0225_FB	black		10; 480	<u>8595057618084</u>
25	0225_HB	white	60	10; 480	8595057643949
25	0225_KB	light grey	00	10; 480	<u>8595057618206</u>
	0225_LB	dark grey		10; 480	<u>8595057618145</u>
	0232_FB	black		10; 260	<u>8595057618091</u>
32	0232_HB	white	70	10; 260	<u>8595057643956</u>
32	0232_KB	light grey	10	10; 260	<u>8595057618213</u>
	0232_LB	dark grey		10; 260	<u>8595057618152</u>

pipe dn	item		L		EAN	
mm			mm	pcs		
	0240_FB black			10; 120	<u>8595057618107</u>	
40	0240_HB	white	80	10; 120	8595057643963	
	0240_KB	light grey	00	10; 120	8595057618220	
	0240_LB	dark grey		10; 120	<u>8595057618169</u>	
50	0250_FB	black	88	10; 180	<u>8595057618176</u>	
	0250_HB	white		10; 180	<u>8595057657359</u>	
50	0250_KB	light grey		10; 180	<u>8595057618114</u>	
	0250_LB	dark grey		10; 180	<u>8595057618237</u>	
	0263_FB	black		2; 44	<u>8595057625884</u>	
63	0263_HB	white	105	2; 44	8595057657366	
63	0263_KB	light grey	103	2; 44	<u>8595057625860</u>	
	0263_LB	dark grey		2; 44	<u>8595057625877</u>	

Clamps for EN pipes





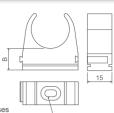








- The clamps are intended to fix the pipes to the underlying material.
- Pipes are installed by pushing between the clamp jaws.
- The clamps are equipped with elements for placing next to each other to create a continuous series of tubes, and also grooves for installation in supporting trunkings of 5820/ .. (see page <u>2-70</u>).
- DOZU/ .. (see page <u>Z-r(0</u>). 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).



pipe dn	item	MAIM	A	В		EAN
mm			mm	mm	pcs	
	5316E_FB	black			10; 100; 500	8595057619340
16	5316E_HB	white	4,3x6,5	12	10; 100; 500	8595057643833
10	5316E_KB	light grey	4,380,3	12	10; 100; 500	8595057619357
	5316E_LB	dark grey			10; 100; 500	8595057619364
	5320_FB	black			10; 100; 400	<u>8595057618015</u>
20	5320_HB	white	4,3x6,5	12	10; 100; 400	8595057643840
20	5320_KB	light grey	4,380,3	12	10; 100; 400	8595057617896
	5320_LB	dark grey			10; 100; 400	8595057617957
	5325_FB	black			10; 100; 600	8595057618022
25	5325_HB	white	4 20 5	12	10; 100; 600	8595057643857
25	5325_KB	light grey	4,3x6,5		10; 100; 600	8595057617902
	5325_LB	dark grey			10; 100; 600	8595057617964
	5332_FB	black		14	10; 100; 740	8595057618039
32	5332_HB	white	5x10		10; 100; 740	8595057643864
32	5332_KB	light grey			10; 100; 740	8595057617919
	5332_LB	dark grey			10; 100; 740	8595057617971
	5340_FB	black		14	10; 100; 400	8595057618046
40	5340_HB	white	5x10		10; 100; 400	8595057643871
40	5340_KB	light grey	5X 1U		10; 100; 400	8595057617926
	5340_LB	dark grey			10; 100; 400	8595057617988
	5350_FB	black			10; 100; 350	8595057618053
50	5350_HB	white	6,6x10,2	14	10; 420	8595057657045
50	5350_KB	light grey	0,0X1U,2	14	10; 100; 350	8595057617933
	5350_LB	dark grey			10; 100; 350	8595057617995
	5363_FB	black			10; 240	8595057657496
63	5363_HB	white	0.0.40.0	14	10; 240	8595057657502
03	5363_KB	light grey	6,6x10,2	14	10; 240	8595057657519
	5363_LB	dark grey			10; 240	8595057657526



self-extinguishing







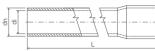












- Halogen-free rigid socket pipes suitable for distribution systems in apartments and industrial environments
- Up to a diameter of 25, the pipes are rigid socket pipes at one end. Diameters 32 63 are fitted with a coupling.
- Halogen-free pipes are used on premises where the safety of people and property 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 Systems maintaining functionality during a fire).
- The black pipes are UV-stabilized.

	dn	item		di min.	L		EAN	
				mm	m	m		pg.
	16	1516EHF_FA	black	13,1	3	30	8595057626423	
EN	10	1516EHF_KA	light grey	13,1	3	30	<u>8595057631854</u>	
	20	1520HF_FA	black	17,1	3	30	<u>8595057626430</u>	
	20	1520HF_KA	light grey	17,1	3	30	<u>8595057631861</u>	3-16 - 3-17
	25	1525HF_FA	black	21,6	3	30	8595057626966	
	23	1525HF_KA	light grey	21,0	3	30	<u>8595057631878</u>	
	20	1532HF_FA	black	20.4	3	30	<u>8595057626973</u>	
	32	1532HF_KA	light grey	28,4	3	30	<u>8595057631885</u>	
	40	1540HF_FA	black	36.0	3	30	8595057626447	
	40	1540HF_KA	light grey	30,0	3	30	8595057631892	
	50	1550HF_FA	black	45.0	3	30	8595057626454	
	50	1550HF_KA	light grey	45,6	3	30	8595057631908	
	63	1563HF_FA	black	50.4	3	15	8595057631489	
	03	1563HF_KA	light grey	58,4	3	15	<u>8595057631915</u>	

Halogen-free rigid wiring pipes

- medium mechanical resistance





















- 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 Systems maintaining functionality during a fire).
- The black pipes are UV-stabilized.

	dn	item	di min.		L		EAN	
	mm 16			mm	m	m		pg.
	mm 16 20 EN 25	4016EHF_FA	black	12,7	3	15	8595057688254	
		4016EHF_KA	light grey	12,7	3	15	8595057690868	
	20	4020HF_FA	black	16,7	3	15	<u>8595057688261</u>	
EN		4020HF_KA	light grey	10,7	3	15	<u>8595057690875</u>	
	25	4025HF_FA	black	21,0	3	15	<u>8595057688278</u>	<u>3-16</u>
	25	4025HF_KA	light grey	21,0	3	15	8595057690882	3-17
	22	4032HF_FA	black	28,0	3	15	<u>8595057688285</u>	
	20 44 25 44 32 44 44	4032HF_KA	light grey	20,0	3	15	8595057690899	
	16 20 25 32	4040HF_FA	black	35,4	3	15	8595057688292	
	40	4040HF_KA	light grey	33,4	3	15	<u>8595057690905</u>	

self-extinguishing









index

fire reaction class of underlying material

Halogen-free rigid wiring pipes

- high mechanical resistance





MAT

- 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 Systems maintaining functionality during a fire)
- The black pipes are UV-stabilized.

	dn	item	mn-	di min.	L		EAN	
	mm			mm	m	m		pg.
	16	8016EHF_FA	black	11,7	3	15	8595057688322	
EN	20	8020HF_FA	black	15,7	3	15	8595057688339	
	25	8025HF_FA	black	20,2	3	15	8595057688346	3-16
	32	8032HF_FA	black	27,0	3	15	<u>8595057688353</u>	-
	40	8040HF_FA	black	34,8	3	15	8595057688360	<u>3-17</u>
	50	8050HF_FA	black	44,2	3	15	8595057688377	
	63	8063HF_FA	black	56,8	3	15	8595057688384	

Elbows for halogen-free EN pipes









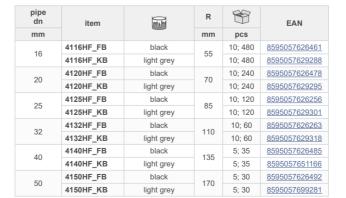






PC ABS

- The elbows with double-sided necks 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 gases and 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 Systems maintaining functionality during a fire).
- Elbows in black are UV stable.





















Connectors for halogen-free EN 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).

The couplings are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).

Connectors in black are UV stable.



pipe dn	item		L		EAN	
mm			mm	pcs		
16	0216HF_FB	black	45	10; 100; 1300	8595057626508	
10	0216HF_KB	light grey	45	10; 100; 1300	8595057631922	
20	0220HF_FB	black	- 50	10; 100; 800	<u>8595057626515</u>	
20	0220HF_KB	light grey	50	10; 100; 800	<u>8595057631939</u>	
25	0225HF_FB	black	60	10; 480	8595057626270	
23	0225HF_KB	light grey	60	10; 100; 480	8595057631946	
32	0232HF_FB	black	70	10; 260	8595057626287	
32	0232HF_KB	light grey	70	10; 260	<u>8595057631953</u>	
40	0240HF_FB	black	80	10; 120	8595057626522	
40	0240HF_KB	light grey	80	10; 120	8595057631960	
50	0250HF_FB	black	- 88	10; 180	8595057626539	
50	0250HF_KB	light grey	00	10; 180	8595057631977	
63	0263HF_FB	black	105	2; 44	8595057629356	
03	0263HF_KB	light grey	105	2; 44	8595057631984	

Clamps for halogen-free EN pipes













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 2-70).

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).

Clamps in black are UV stable.



6,6x10,2

6,6x10,2

fire reaction class of underlying material

self-extinguishing (E90) functionality during a fire

5350HF_KB

5363HF_FB

5363HF_KB

50

63





light grey

black

light grey



14

14

10; 420

10; 240

10; 240

8595057632769

8595057688759

8595057688742

KOPOFLEX®

- flexible doublecoat corrugated pipe



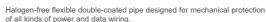


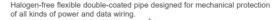
installation temperature: -25- +90°C







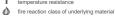




- The pipes are made in compliance with ČSN EN 61386-24.
- Each coil is equipped with a pull-through string or wire that ensures easy cable insertion and a coupling on one end. When using a sealing ring, the protection class is IP 67. In case of mechanical compaction of layers above the protector, take 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. The product KF 09***_BA is listed in the database for building products that can be used in Nordic Swan Ecolabelled

dn	item	(MA)	di	r _{min}	L			in stock	EAN	
mm			mm	mm	m	m	cm			pg.
	KF 09040_AA	orange		230	50	3000	64 x 31	🕒 - min. 3000 m	<u>8595057619425</u>	
	KF 09040_BA	red			50	3000	64 x 31	•	8595057606333	
	KF 09040_BB	red			25	3000	50 x 27	•	8595568917423	
40	KF 09040_CA	blue	32		50	3000	64 x 31	•	<u>8595057615625</u>	
40	KF 09040_CB	blue	32	250	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	
	KF 09050_BA	red			50	1800	77 x 33	•	8595057606340	
	KF 09050_BB	red			25	1500	60 x 33	•	8595568917430	
50	KF 09050_CA	blue	41	350	50	1800	77 x 33	•	8595057655935	
00	KF 09050_CB	blue		000	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	KF 09063_BA	red			50	1500	80 x 46	•	8595057643703	
	KF 09063_BB	red	52	350	25	1050	70 x 35	•	8595568936431	
	KF 09063_CA	blue	52	330	50	1500	80 x 46	•	8595057644977	
	KF 09063_FA	black			50	1500	80 x 46	•	8595057650527	
	KF 09075_BA	red			50	-	94 x 50	•	<u>8595057643710</u>	3-20
	KF 09075_BB	red			25	900	81 x 38	•	8595568936448	
75	KF 09075_CA	blue	61	350	50	-	94 x 50	•	8595057644991	
	KF 09075_CB	blue			25	900	81 x 38	•	8595057645004	
	KF 09075_FA	black			50	-	94 x 50	•	<u>8595057650534</u>	
	KF 09090_AA	orange			50	-	113 x 50	🕒 - min. 1000 m	<u>8595568918796</u>	
	KF 09090_BA	red			50	-	113 x 50	•	8595057643727	
90	KF 09090_BB	red	75	400	25	400	98 x 39	•	<u>8595568936455</u>	
	KF 09090_CA	blue			50	-	113 x 50	•	8595057650435	
	KF 09090_FA	black			50	-	113 x 50	•	8595057650442	
	KF 09110_BA	red			50	-	124 x 60	•	8595057606364	
	KF 09110_BB	red			25	-	100 x 46	•	8595057692824	
110	KF 09110_CA	blue	94	400	50	-	124 x 60	•	8595057615649	
	KF 09110_CB	blue			25	-	100 x 46	•	8595057655911	
	KF 09110_FA	black			50	-	124 x 60	•	8595057616240	
	KF 09125_BA	red			50	-	135 x 62	•	8595057618336	
	KF 09125_BB	red			25	-	109 X 50	•	8595568937681	
125	KF 09125_CA	blue	108	500	50	-	135 x 62	•	8595568937698	
	KF 09125_CB	blue			25	-	109 X 50	•	8595568937704	
	KF 09125_FA	black			50	-	135 x 62	•	8595568937407	
	KF 09160_BA	red			50	-	194 x 58	•	8595057643741	
400	KF 09160_BB	red	100	050	25	-	128 x 58	•	8595057647800	
160	KF 09160_CB	blue	136	650	25	-	128 x 58	•	8595057647794	
	KF 09160_FA	black			50	-	194 x 58	•	8595057650565	
	KF 09200_BB	red			25	_	160 x 60	•	8595568903587	
200	KF 09200_FB	black	176	850	25	_	160 x 60	•	8595057688568	













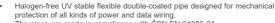
MAT operating temperature: -55 - +90°C











The pipes are made in compliance with ČSN EN 61386-24.

Each coil is equipped with a pull-through string or wire that ensures easy cable insertion 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	man	di	r _{min}	L			in stock	EAN	
mm			mm	mm	m	m	cm			pg.
40	KF 09040_UVFA	black	32	230	50	3000	64 x 31	•	8595057698147	
50	KF 09050_UVFA	black	41	350	50	1800	77 x 33	•	8595057698178	
63	KF 09063_UVFA	black	52	350	50	1500	80 x 46	•	8595057698208	
75	KF 09075_UVFA	black	61	350	50	-	94 x 50	•	8595057698338	
90	KF 09090_UVFA	black	75	400	50	-	113 x 50	•	8595057698239	3-20
110	KF 09110_UVFA	black	94	400	50	-	124 x 60	•	8595057698260	
125	KF 09125_UVFA	black	108	500	50	-	135 x 62	•	8595568937414	
160	KF 09160_UVFA	black	136	650	50	-	194 x 58	•	8595057698369	
200	KF 09200 UVFB	black	176	850	25	-	190 x 70	•	8595568940742	

KOPOFLEX®

- antistatic and antibacterial halogen-free flexible doublecoat protector











- Antistatic and antibacterial halogen-free flexible doublecoat protector.
- Both ends are blinded by a closing plug.
- The pipes 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	m		di	, min	L	1	in stock	EAN
mm		outer	inner	mm	mm	m	cm		
63	KF 09063_PLCA	blue	white	52	350	50	80 x 46	(b)	8595568930958
75	KF 09075_PLCA	blue	white	61	350	50	94 x 50	(b)	<u>8595568920096</u>
90	KF 09090_PLCA	blue	white	75	400	50	113 x 50	(b)	<u>8595568930965</u>









등

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KOPODUR®

- rigid doublecoat corrugated pipe











450 N/20 cm



- Halogen-free rigid double-coated pipe designed for mechanical protection of all kinds of power and data wiring.
- The pipes are made in compliance with ČSN EN 61386-24.
- The pipe is available in form of a bar, the coupling is put on one end of it
- The connection is sealed dust/sand resistant.
- 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.

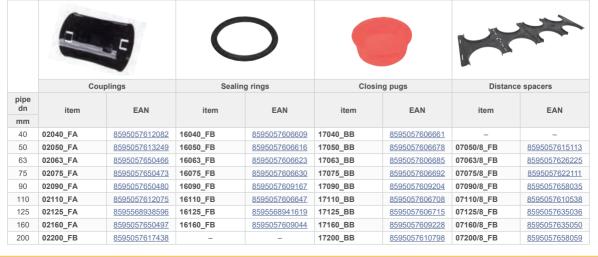
dn	item		di	L			in stock	EAN
mm			mm	m	m	cm		
40	KD 09040_BC	red	32	6	432	45 x 45 x 605	🕒 - min. 1296 m	8595057643758
	KD 09050_BC	red		6	360		•	8595057643765
50	KD 09050_CC	blue	41	6	360	82 x 66 x 605	•	8595057650459
	KD 09050_FC	black		6	360		•	8595057689404
63	KD 09063_BC	red	52	6	312	80 x 52 x 605	•	8595057643772
7.5	KD 09075_BC	red	0.4	6	312	404 00 007	•	8595057643789
75	KD 09075_CC	blue	61	6	312	104 x 88 x 607	•	8595057650121
90	KD 09090_BC	red	75	6	312	120 x 76 x 607	•	8595057643796
110	KD 09110_BC	red	94	6	462	112 x 95 x 610	•	8595057606449
110	KD 09110_CC	blue	94	6	216	77 x 64 x 610	•	8595057655942
125	KD 09125_BC	red	108	6	318	129 x 90 x 610	•	8595057618299
	KD 09160_BC	red		6	198		•	8595057643819
160	KD 09160_CC	blue	136	6	198	120 x 72 x 610	•	8595057647848
	KD 09160_FC	black		6	198		•	8595057651418
200	KD 09200_BC	red	176	6	120	122 x 74 x 615	•	8595057618312
200	KD 09200_FC	black	176	6	162	122 x /4 X 615	(8595057684041

Accessories for corrugated pipes KOPOFLEX® and KOPODUR®



Couplings Sealing rings Closing plugs Distance spacers

- slip-over couplings are the same for both types of pipes and are used to join the pipes
- the same for both types of pipes and are used to seal the joint to prevent it against humidity and water.
- for blinding of backup lines and for temporary blinding of pipes when installing.
- 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. Per order only.

















installation temperature: -25- +90°C











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.

06160/2 - 750 N/20 cm

- 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	description		di min.	L		EAN
mm			r		m	m	
	06110/2_BA	in distributed position	red		3	162	8595057651814
110	06110/2_CA	in distributed position	blue	97	3	162	<u>8595057651821</u>
	06110/2_FA	in distributed position	black		3	162	<u>8595057688506</u>
	06160/2_BA	in distributed position	red		3	72	<u>8595057651791</u>
160	06160/2_CA	in distributed position	blue	136	3	72	8595057651807
	06160/2_EA	in distributed position	yellow		3	min. 72	8595057695931

KOPOHALF®

- divided cable duct made of recycled HDPE

















- 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

installation temperature: -25- +90°C

HDPF operating temperature: -55 - +90°C

- 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	description		di min.	L		EAN
mm				mm	m	m	
110	06110/2_BRGA	in distributed position	red	100	3	162	8595568936905
110	06110/2_CRGA	in distributed position	blue	100	3	162	8595568936912

KOPOHALF®

- divided cable duct made of recycled PVC





montage: -5 - +60°C







A1 - F 30 sec. 750 N/20 cm IP30





index

- 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	description		di min.	L		EAN
mm				mm	m	m	
	06110P/2_BA	in distributed position	red		3	162	8595568922007
440	06110P/2_CA	in distributed position	blue	97	3	162	8595568922021
110	06110P/2_EA	in distributed position	yellow	97	3	min. 162	8595568926890
	06110P/2_FA	in distributed position	black		3	min. 162	8595568928634





KOPOKAN

- earthen channel





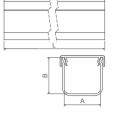






Earthen channels are intended for mechanical protection of installation of engineering

- networks 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 earthen
- engineering networks.
- Floor trunkings are supplied with a colour lid.
- Connected using connectors and folding the lid over, thus interconnecting the individual
- Strength limit on compression tested on length 300 mm.
 Earthen channels are manufactured according to ČSN EN 61386-1 and ČSN EN 61386-24.



item	MAN	Α	В	L		₽ F	EAN
		mm mm		m	m	N/20 cm	
KOPOKAN 1_CD	grey body / blue lid	100	100	2	140	750	<u>8595568915474</u>
KOPOKAN 1_ZD	grey body / red lid	100	100	2	140	750	<u>8595568905116</u>
KOPOKAN 2_CD	grey body / blue lid	120	400	2	162	750	8595568926975
KOPOKAN 2_ZD	grey body / red lid	120	100	2	162	750	8595568905123
KOPOKAN 3_ZD	grey body / red lid	130	140	2	96	750	8595568905130
KOPOKAN 4_CD	grey body / blue lid	200	405	2	70	250	<u>8595568922205</u>
KOPOKAN 4_ZD	grey body / red lid	200	125	2	70	250	8595568905147

connection for KOPOKAN











-5 - +60°C A1 - F 30 sec.

- Connector is used to connect the ground channels.
- It provides a straight direction.





item	description	Α	В	L		EAN
		mm	mm	mm	pcs	
SPOJKA K1_ZB	for channel KOPOKAN 1	111	75	100	1	<u>8595568905154</u>
SPOJKA K2_ZB	for channel KOPOKAN 2	137	77	125	1	<u>8595568905161</u>
SPOJKA K3_ZB	for channel KOPOKAN 3	149	75	130	1	8595568905178
SPOJKA K4_ZB	for channel KOPOKAN 4	217	75	125	1	<u>8595568905185</u>







Optical cable protectors HDPE



MAT





750 N/20 cm



- 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. Shock 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 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	description	MA	di	L		in stock	EAN	
mm				mm	m	mm			pg.
25	06025_FS100	harness	black	20	100	400	🕒 - min. 1200 m	8595568903730	
23	06025_KS100	harness	light grey	20	100	400	🕒 - min. 1200 m	8595568903860	
	06032_AS100	harness	orange		100		•	8595057657328	
	06032_BS100	harness	red		100		•	8595057656390	
32	06032_ES100	harness	yellow	27	100	400	•	8595057656413	
32	06032_FB	drum	black	21	1750	400	🕒 - min. 1750 m	8595568915573	
	06032_FS100	harness	black		100		•	8595057665552	
	06032_LS100	harness	dark grey		100		•	8595057665569	
	06040_AB	drum	orange		1750		🕒 - 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	<u>8595057655416</u>	
	06040_BS100	harness	red		100		•	<u>8595057655423</u>	
	06040_BS300	harness	red		300		🕒 - min. 1800 m	8595568903303	
	06040_CB	drum	blue		1750		🕒 - min. 1750 m	8595057655430	
	06040_CS100	harness	blue		100		•	8595057655447	3-24
40	06040_CS300	harness	blue	33	300	400	•	8595568903457	<u>3-25</u>
	06040_DS100	harness	green		100		🕒 - min. 1600 m	<u>8595057655461</u>	
	06040_EB	drum	yellow		1750		🕒 - min. 1750 m	8595057655478	
	06040_ES100	harness	yellow		100		•	<u>8595057655485</u>	
	06040_ES300	harness	yellow		300		🕒 - min. 1800 m	<u>8595568903716</u>	
	06040_FB	drum	black		1750		🕒 - min. 1750 m	8595057655492	
	06040_FS100	harness	black		100		•	8595057655508	
	06040_KS100	harness	light grey		100		•	8595057655546	
	06040_KS1VO	harness	light grey		100		•	8595568927286	
	06040_LB	drum	dark grey		1750		🕒 - min. 1750 m	<u>8595057655553</u>	
	06050_AB	drum	orange		1250		🕒 - min. 1250 m	8595057657298	
	06050_AS100	harness	orange		100		•	8595057657304	
	06050_BS100	harness	red		100		•	8595057699540	
50	06050_CP	harness - palett	blue	44	1250	500	min. 1250 m	<u>8595057689411</u>	
	06050_CS100	harness	blue		100		•	8595057691070	
	06050_FB	drum	black		1250		min. 1250 m	8595568912558	
	06050_FS100	harness	black		100		•	8595057665576	







index

mechanical resistance

Optical cable protectors from recycled HDPE









- 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.

 Shock 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

dn	item	description		di	L		in stock	EAN	
mm				mm	m	mm			pg.
	06040_ARGB	drum	orange/black		1750		🕒 - min. 1750 m	8595568930880	3-24
40	06040_ARGS1	harness	orange/black	33	100	400	•	8595568930897	-
	06040_CRGS1	harness	blue/black		100		•	8595568932457	3-25

Screw connectors for optical cable protectors









- The connector is designed to join HDPE optic cable protector when routing and ensures a perfect connection.

pipe dn	item	MN		EAN
mm			pcs	
25	05025_KB	grey	1	<u>8595568905451</u>
32	05030_KB	grey	1	<u>8595057657335</u>
40	05040_KB	grey	1	<u>8595057606821</u>
50	05050_KB	grey	1	<u>8595057651579</u>

Push connectors for optical cable protectors









- 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

pipe dn	item	MA		EAN
mm			pcs	
32	05033_KB	grey	1	<u>8595057657694</u>
40	05043_KB	grey	1	<u>8595057657700</u>
50	05053_KB	grey	1	<u>8595057657717</u>















Fittings for optical cable protectors







- The fitting is used to end the routing. PN16 pressure line.

pipe dn	item	man.		EAN	
mm			pcs		
25	05024_KB	grey	1	8595568905468	
32	05031_KB	grey	1	8595057657342	
40	05041_KB	grey	1	8595057629271	
50	05051_KB	grey	1	<u>8595057651586</u>	

ČSN steel threaded pipes

- high mechanical resistance



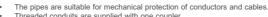












The pipes are suitable for mechanical protection of conductors and cables. Threaded conduits are supplied with one coupler.

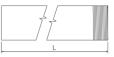
While using pipes along with bushing 4813/P - 4842/P and 4913 - 4942 is scope of application only -5 - +60 °C.

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 Systems maintaining functionality during a fire).

dn	dn item	description	di min.	0		L		EAN	
mm			mm	mm		m	m		pg.
			Unv	arnished					
20,4	6013 N_XX		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	with a suffered finish	25,7	1,3	P21	3	30; 750	8595057607514	3-27
37	6029 N_XX	withnout surface finish	34,4	1,3	P29	3	15; 450	8595057607521	3-29 3-36
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		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	3-27
37	6029 ZNM_S	Sendzimir galvanized	34,4	1,3	P29	3	15; 450	8595057626171	3-29 3-36
47	6036 ZNM_S		44	1,5	P36	3	15; 300	8595057626188	
54	6042 ZNM_S		51	1,5	P42	3	15; 225	8595057626195	
			Va	rnished					
20,4	6013_EOZ		18,2	1,1	P13,5	3	30; 1200	8595057618657	
22,5	6016_EOZ	Condeins and senior d	20,3	1,1	P16	3	30; 1200	8595057618664	
28,3	6021_EOZ	Sendzimir galvanized steel circumferentially	25,7	1,3	P21	3	30; 750	8595057618671	3-27
37	6029_EOZ	painted black	34,4	1,3	P29	3	15; 450	8595057618688	3-29 3-36
47	6036_EOZ	using powder technology	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		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	h . t . t' t	25,7	1,3	P21	3	30; 750	8595057618732	3-27
37	6029 ZN_F	hot-dip galvanized	34,4	1,3	P29	3	15; 450	8595057618749	3-29 3-36
47	6036 ZN_F		44	1,5	P36	3	15; 300	8595057618756	3 00
54	6042 ZN_F		51	1,5	P42	3	15; 225	8595057618763	







Connectors for steel threaded ČSN pipes





The connectors are designed to join steel pipes and elbows for mechanical protection of cables or



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

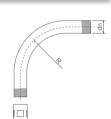
Elbows for ČSN steel threaded pipes

- high mechanical resistance





- Elbows are fitted with a connector on one side.
- ZNM: Sendzimir galvanized, zinc layer 15 27 μ m, 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
- contosion resistance 9. 4 The elbows are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).



dn	item	description		R		EAN			
mm		•		mm	pcs				
ZNM									
20,4	6113 ZNM_S		P13,5	80	1; 25	8595057627277			
22,5	6116 ZNM_S		P16	100	1; 25	8595057627284			
28,3	6121 ZNM_S	Sendzimir galvanized	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	<u>8595057627321</u>			
Varnished									
20,4	6113_EOZ		P13,5	80	1; 25	<u>8595057618893</u>			
22,5	6116_EOZ	Sendzimir galvanized	P16	100	1; 25	<u>8595057618909</u>			
28,3	6121_EOZ	steel circumferentially	P21	120	1; 20	<u>8595057618916</u>			
37	6129_EOZ	painted black using powder technology	P29	155	1; 20	8595057618923			
47	6136_EOZ	using powder technology	P36	185	1; 5	<u>8595057618930</u>			
54	6142_EOZ		P42	200	1; 5	<u>8595057618947</u>			
		ZN							
20,4	6113 ZN_F		P13,5	80	1; 25	<u>8595057618954</u>			
22,5	6116 ZN_F		P16	100	1; 25	<u>8595057618961</u>			
28,3	6121 ZN_F	hot-dip galvanized	P21	120	1; 20	<u>8595057618978</u>			
37	6129 ZN_F	not-dip galvanized	P29	155	1; 20	<u>8595057618985</u>			
47	6136 ZN_F		P36	185	1; 5	8595057618992			
54	6142 ZN_F		P42	200	1; 5	<u>8595057619005</u>			

ČSN steel unthreaded pipes

- high mechanical resistance

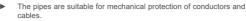












- While using pipes along with bushing 4813/P 4842/P and 4913 4942
- is scope of application only -5 +60 °C. Unvarnished: without surface finish, without corrosion resistance, suitable mostly for construction purposes
- ZNM: Sendzimir galvanized, zinc layer 15 27 µm, replaces shop primer, medium corrosive resistance g. 2
- ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 μ m, high corrosion resistance g. 4

dn	item	description	di min.	0	L		EAN			
mm			mm mm m		m		pg.			
Unvarnished										
22,5	6216 N_XX		20,3	1,1	3	1200	<u>8595057607583</u>			
28,3	6221 N_XX		25,7	1,3	3	750	<u>8595057607613</u>	3-28		
37	6229 N_XX	withnout surface finish	34,4	1,3	3	450	8595057607644	3-29		
47	6236 N_XX		44	1,5	3	300	8595057607675	<u>3-36</u>		
54	6242 N_XX		51	1,5	3	225	8595057607705			
ZNM										
20,4	6213 ZNM_S		18,2	1,1	3	30; 1200	<u>8595057607576</u>			
22,5	6216 ZNM_S		20,3	1,1	3	30; 1200	8595057607606			
28,3	6221 ZNM_S	Candeinsia aabaasiaad	25,7	1,3	3	30; 750	8595057607637	3-28		
37	6229 ZNM_S	Sendzimir galvanized	34,4	1,3	3	15; 450	8595057607668	3-29 3-36		
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		18,2	1,1	3	30; 1200	8595057698390			
22,5	6216 ZN_F		20,3	1,1	3	30; 1200	<u>8595057698406</u>			
28,3	6221 ZN_F	hat die eekseeieed	25,7	1,3	3	30; 750	8595057698413	3-28		
37	6229 ZN_F	hot-dip galvanized	34,4	1,3	3	15; 450	8595057698420	3-29 3-36		
47	6236 ZN_F		44	1,5	3	15; 300	8595057698437			
54	6242 ZN_F		51	1,5	3	15; 225	8595057698444			

Slide-on connectors for ČSN steel pipes



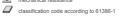


- The connectors are designed to join steel pipes for mechanical protection of cables or wires.
- Both ends are fitted with sockets.
- The connectors are manufactured from strip steel by welding.

pipe dn		description	di		EAN
mm			mm	pcs	
20,4	313/2_XX		20,9	10; 300	<u>8595057620094</u>
22,5	316/2_XX		23,1	10; 260	<u>8595057620100</u>
28,3	321/2_XX	ZNCR	28,8	10; 150	8595057620117
37,0	329/2_XX	ZNCR	37,5	10; 100	8595057620124
47,0	336/2_XX		47,5	10; 50	<u>8595057620131</u>
54,0	342/2_XX		54,6	10; 100	<u>8595057620148</u>







Double-sided clamps for ČSN steel pipes



MAT

The clamps are designed to attach ČSN steel pipes to the pad.



		L
d		EAN
mm	pcs	
	100; 600	8595057605008
	100: 600	8595057605015

item	description	D	L	Α	+	d		EAN
		mm	mm	mm	mm	mm	pcs	
5213 PC_S		20,4	60,5		0.0	0,8	100; 600	<u>8595057605008</u>
5216 PC_S		22,5	62,5		0,0		100; 600	<u>8595057605015</u>
5221 PC_S	Sendzimir	28,3	69,5		1,2		100; 400	8595057605022
5229 PC_S	galvanized	37	78,0	16			50; 300	<u>8595057605039</u>
5236 PC_S		47	88,0				50; 200	<u>8595057605046</u>
5242 PC_S		54	95,0				50; 150	<u>8595057605053</u>

OMEGA clamps for ČSN steel pipes













The clamps are designed to attach ČSN steel pipes to the pad. The clamps are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).



pipe dn	n item	description	Α	di		EAN
mm			mm	mm	pcs	
20,4; 22,5	5220 ZNM_S			19 - 23	1; 100	<u>8595057692091</u>
28,3	5225 ZNM_S			24 - 28	1; 50	<u>8595057692107</u>
37	5232 ZNM_S	Sendzimir galvanized	6,3 x 9,8	30 - 40	1; 50	8595057692114
47	5250 ZNM_S	galvanized		39 - 52	1; 25	<u>8595057692138</u>
54	5263 ZNM_S			53 - 63	1; 25	<u>8595057692145</u>

OMEGA clamps for ČSN steel pipes



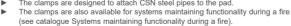














pipe dn	item	description	Α	di		EAN
mm			mm	mm	pcs	
20,4; 22,5	5220 ZN _F			19 - 24	1; 50	<u>8595568915276</u>
28,3	5225 ZN_F				24 - 29	1; 50
37	5232 ZN_F	hot-dip galvanized	6,4 x 10	29 - 38	1; 25	8595568915290
47	5240 ZN_F			38 - 47	1; 20	<u>8595568915306</u>
54	5250 ZN_F			47 - 55	1; 20	8595568915313

EN steel threaded pipes

- very high mechanical resistance





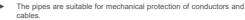












- Threaded conduits are supplied with one coupler.
- While using pipes along with bushing 4816E 4863 is scope of application only -5 +60 $^{\circ}\text{C}.$
- ZNM: Sendzimir galvanized, zinc layer 15 27 μm, replaces shop primer, medium corrosive resistance g. 2
- Varnished ECZ: smooth steel material 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 -
- 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 Systems maintaining functionality during a fire).

dn	item	description	di min.	O		L		EAN		
mm			mm	mm		m	m		pg.	
ZNM										
20	6020 ZNM_S		15,8	1,5	M20x1,5	3	30; 1200	<u>8595568919601</u>		
25	6025 ZNM_S	Sendzimir galvanized	20,6	1,5	M25x1,5	3	30; 600	8595568920393	3-31 3-34	
32	6032 ZNM_S	Seridzimii galvanized	26,6	1,5	M32x1,5	3	21; 420	8595568922342	3-35	
40	6040 ZNM_S		34,4	1,5	M40x1,5	3	15; 450	<u>8595568923752</u>		
Varnished										
16	6016E_ECZ	painted in black on both sides	12,2	1,4	M16x1,5	3	30; 1200	8595057634152		
20	6020_EOZ		15,8	1,5	M20x1,5	3	30; 1200	<u>8595568919595</u>		
25	6025_EOZ	painted in black circumferentially	20,6	1,5	M25x1,5	3	30; 600	8595568920379	3-31	
32	6032_EOZ	painted in black circumferentially	26,6	1,5	M32x1,5	3	21; 420	<u>8595568922366</u>	3-34	
40	6040_EOZ		34,4	1,5	M40x1,5	3	15; 450	8595568923769	<u>3-35</u>	
50	6050_ECZ	painted in black on both sides	43,8	1,6	M50x1,5	3	15; 300	8595057634206		
63	6063_ECZ	painted in black on both sides	58,8	1,8	M63x1,5	3	15; 150	8595057634213		
			ZN							
16	6016E ZN_F		12,2	1,4	M16x1,5	3	30; 1200	<u>8595057631304</u>		
20	6020 ZN_F		15,8	1,5	M20x1,5	3	30; 1200	<u>8595057631311</u>		
25	6025 ZN_F		20,6	1,5	M25x1,5	3	30; 600	8595057631328	3-31	
32	6032 ZN_F	hot-dip galvanized	26,6	1,5	M32x1,5	3	21; 420	<u>8595057631335</u>	3-34	
40	6040 ZN_F		34,4	1,5	M40x1,5	3	15; 450	8595057631342	<u>3-35</u>	
50	6050 ZN_F		43,8	1,6	M50x1,5	3	15; 300	<u>8595057631359</u>		
63	6063 ZN_F		58,8	1,8	M63x1,5	3	15; 150	8595057631595		







Connectors for steel threaded EN pipes











item	description	L			EAN						
	·	mm		pcs							
	Varnished										
316E/1_ECZ		30	M16x1,5	1; 25	<u>8595057634640</u>						
320/1_ECZ		30	M20x1,5	1; 50	8595057634657						
325/1_ECZ	painted in black on both sides	36	M25x1,5	1; 50	<u>8595057634664</u>						
332/1_ECZ		45	M32x1,5	1; 50	<u>8595057634671</u>						
340/1_ECZ		48	M40x1,5	1; 25	8595057634688						
350/1_ECZ		70	M50x1,5	1; 10	<u>8595057634695</u>						
363/1_ECZ		105	M63x1,5	1; 5	<u>8595057634701</u>						
		ZN-I	Ni								
316E/1 ZN_F		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	<u>8595057634596</u>						
332/1 ZN_F	zinc - nickel coating	45	M32x1,5	1; 50	<u>8595057634602</u>						
340/1 ZN_F		48	M40x1,5	1; 25	<u>8595057634619</u>						
350/1 ZN_F		70	M50x1,5	1; 10	<u>8595057634626</u>						
363/1 ZN_F		105	M63x1,5	1; 5	<u>8595057634633</u>						

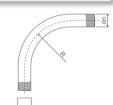
Elbows for EN steel threaded pipes

- very high mechanical resistance





- 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.
- The elbows are also available for systems maintaining functionality during a fire (see catalogue Systems maintaining functionality during a fire).



item	description	dn		R		EAN
		mm		mm	pcs	
		Varnish	ed			
6116E_ECZ		16	M16x1,5	55	1; 15	<u>8595057634367</u>
6120_ECZ		20	M20x1,5	70	1; 25	8595057634374
6125_ECZ]	25	M25x1,5	115	1; 25	<u>8595057634381</u>
6132_ECZ	steel, painted in black on both sides	32	M32x1,5	125	1; 20	<u>8595057634398</u>
6140_ECZ	o.ues	40	M40x1,5	140	1; 15	<u>8595057634404</u>
6150_ECZ		50	M50x1,5	170	1; 5	<u>8595057634411</u>
6163_ECZ		63	M63x1,5	210	1; 3	8595057634428
		ZN				
6116E ZN_F		16	M16x1,5	55	1; 15	<u>8595057631366</u>
6120 ZN_F		20	M20x1,5	70	1; 25	<u>8595057631373</u>
6125 ZN_F		25	M25x1,5	115	1; 25	<u>8595057631380</u>
6132 ZN_F	hot-dip galvanized	32	M32x1,5	125	1; 20	<u>8595057631397</u>
6140 ZN_F		40	M40x1,5	140	1; 15	<u>8595057631403</u>
6150 ZN_F		50	M50x1,5	170	1; 5	<u>8595057631410</u>
6163 ZN F		63	M63x1.5	210	1: 3	8595057631670

EN steel unthreaded pipes

- high mechanical resistance





- The pipes are suitable for mechanical protection of conductors and

- g. 2
 ZN: after steel bar welding hot-galvanized using immersion, zinc layer min. 35 µm, high corrosion resistance g. 4

dn	item	description	di min.	O +	L		EAN	
mm	Item	description	mm	mm	m	m	LAN	pg.
			ZNM					
20	6220 ZNM_S		15,8	1,0	3	30; 1200	8595568919625	
25	6225 ZNM_S	Condeignin and coninnel	20,6	1,2	3	30; 600	8595568920409	3-33
32	6232 ZNM_S	Sendzimir galvanized	26,6	1,2	3	21; 420	8595568922359	3-34 3-35
40	6240 ZNM_S		34,4	1,2	3	15; 450	8595568923745	
		Va	arnishe	d				
16	6216E_ECZ	painted in black on both sides	12,2	1,0	3	30; 1200	8595057634299	
20	6220_EOZ		15,8	1,0	3	30; 1200	8595568919618	
25	6225_EOZ	painted in black circumferentially	20,6	1,2	3	30; 600	8595568920386	3-33
32	6232_EOZ	painted in black circumferentially	26,6	1,2	3	21; 420	8595568922373	3-34
40	6240_EOZ		34,4	1,2	3	15; 450	8595568923776	<u>3-35</u>
50	6250_ECZ	painted in black on both sides	43,8	1,2	3	15; 300	8595057634343	
63	6263_ECZ	painted in black on both sides	58,8	1,2	3	15; 150	<u>8595057634350</u>	
			ZN					
16	6216E ZN_F		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	3-33
32	6232 ZN_F	hot-dip galvanized	26,6	1,2	3	21; 420	<u>8595057634251</u>	3-34
40	6240 ZN_F		34,4	1,2	3	15; 450	8595057634268	<u>3-35</u>
50	6250 ZN_F		43,8	1,2	3	15; 300	8595057634275	
63	6263 ZN_F		58,8	1,2	3	15; 150	8595057634282	





Slide-on connectors for EN steel pipes





- 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	description	di		EAN
		mm	pcs	
	Varnis	shed		
316E/2_ECZ		16	1; 25	8595057631427
320/2_ECZ		20	1; 50	<u>8595057631434</u>
325/2_ECZ		25	1; 50	<u>8595057631441</u>
332/2_ECZ	painted in black on both sides	32	1; 50	<u>8595057631458</u>
340/2_ECZ	botti sides	40	1; 25	<u>8595057631465</u>
350/2_ECZ		50	1; 10	8595057631472
363/2_ECZ		63	1; 5	8595057631588
	ZN or 2	ZN-Ni		
316E/2 ZN_F		16	1; 25	<u>8595057634718</u>
320/2 ZN_F		20	1; 50	<u>8595057634725</u>
325/2 ZN_F		25	1; 50	8595057634732
332/2 ZN_F	hot-dip galvanized or zinc - nickel coating	32	1; 50	8595057634749
340/2 ZN_F	Zino - moker coating	40	1; 25	8595057634756
350/2 ZN_F		50	1; 10	8595057634763
363/2 ZN_F		63	1; 5	8595057634770

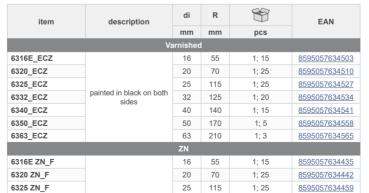
Elbows for EN steel unthreaded pipes

- high mechanical resistance





- Both 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.



32

40

50

63

125

140

170

210

1; 20

1; 15

1; 5

1; 3

8595057634466

8595057634473

8595057634480

8595057634497

material

hot-dip galvanized

6332 ZN_F

6340 ZN_F

6350 ZN_F

6363 ZN_F

index

Double-sided clamps for EN steel pipes





F - 3456410

For attaching EN steel pipes to the pad.



item	description	D	L	а	+	d		EAN
	•	mm	mm	mm	mm	mm	pcs	
			Varn	ished				
5220 PC_ECZ		20	45	10	0,8		1; 100	<u>8595057631618</u>
5225 PC_ECZ		25	50	10	0,8		1; 100	<u>8595057631625</u>
5232 PC_ECZ	painted in black on	32	57	12	0,8	5,3	1; 100	8595057631632
5240 PC_ECZ	both sides	40	70	12	1,1	5,5	1; 50	<u>8595057631649</u>
5250 PC_ECZ		50	85	12	1,1		1; 50	<u>8595057631656</u>
5263 PC_ECZ		63	96	12	1,1		1; 50	<u>8595057631663</u>
			Z	N.				
5220 PC ZN_F		20	45	10	0,8		1; 100	8595057634794
5225 PC ZN_F		25	50	10	0,8		1; 100	8595057634800
5232 PC ZN_F	hot-dip galvanized	32	57	12	0,8	5,3	1; 100	8595057634817
5240 PC ZN_F	not-dip gaivanized	40	70	12	1,1	5,5	1; 50	8595057634824
5250 PC ZN_F		50	85	12	1,1		1; 50	<u>8595057634831</u>
5263 PC ZN_F		63	96	12	1,1		1; 50	<u>8595057634848</u>

Clamps OMEGA for EN steel pipes





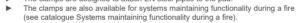
-60 - +250°C















pipe dn	item	description	Α	di		EAN
mm			mm	mm	pcs	
16	5216E ZNM_S			15 - 18	1; 100	8595057692084
20	5220 ZNM_S			19 - 23	1; 100	8595057692091
25	5225 ZNM_S	Candainain nabaninad	0.2 0.0	24 - 28	1; 50	8595057692107
32; 40	5232 ZNM_S	Sendzimir galvanized	6,3 x 9,8	30 - 40	1; 50	8595057692114
50	5250 ZNM_S			39 - 52	1; 25	8595057692138
63	5263 ZNM_S			53 - 63	1; 25	8595057692145

Clamps OMEGA for EN steel pipes









- 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 Systems maintaining functionality during a fire).



pipe dn	item	description	А	di		EAN
mm			mm	mm	pcs	
16	5216E ZN_F			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	hot-dip galvanized	6,4 x 10	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









-45 - +250°C

- 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 Systems maintaining functionality during a fire).



pipe dn	item	description thread		di		EAN
mm				mm	pcs	
16	5216 D_ZNCR			16	1; 50	<u>8595568927521</u>
20	5220 D_ZNCR			20	1; 50	8595568927538
25	5225 D_ZNCR			25	1; 50	<u>8595568927545</u>
32	5232 D_ZNCR	zinc coating steel	M6	32	1; 50	<u>8595568927552</u>
40	5240 D_ZNCR	51001		40	1; 50	8595568927569
50	5250 D_ZNCR			50	1; 25	<u>8595568927576</u>
63	5263 D_ZNCR			63	1; 25	8595568927583

Straight gland for EN pipes - external







- The bushings are designed to mechanically protect the conductors or cables coming from the steel pipe. Plug the bushing from outside on the end of pipe before installing cables.

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N		И
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-		-

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	<u>8595057688605</u>
40	4840_KA	35	50; 200	8595057688612
50	4850_KA	43	25; 100	<u>8595057688629</u>
63	4863_KA	57	10; 70	<u>8595057688636</u>





Index

Straight gland for ČSN steel pipes - external







E -5 - +60°C 30 s

- The bushings are designed to mechanically protect the conductors or cables coming from the steel pipe.
- Plug the bushing from outside on the end of pipe before installing cables.

dn	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 - internal







F -5 - +60°C 30 se

- ► The bushings are designed to mechanically protect the conductors or cables coming from the the steel pipe.
- from the the steel pipe.

 Plug the bushing from inside on the end of pipe before installing cables.





item	d1	d2		EAN
	mm	mm	pcs	
4913_XX	13,5	17	100; 2500	<u>8595057657236</u>
4916_XX	15,6	18,6	100; 2000	<u>8595057657243</u>
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

Aluminium seamless pipes

- high mechanical resistance

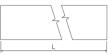






The pipes are proper for mechanical protection of conductors and cables. They can be used for industrial installations, high anticorrosive ability - class 4.





dn	item	di	L		EAN
mm		mm	m	m	
16	6216E AL_XX	14	3	30; 1800	<u>8595057657731</u>
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



AI





item	di		EAN
	mm	pcs	
316E/2 AL_XX	16	1; 50	<u>8595057657878</u>
320/2 AL_XX	20	1; 50	<u>8595057657885</u>
325/2 AL_XX	25	1; 50	8595057657892
332/2 AL_XX	32	1; 50	<u>8595057657908</u>
340/2 AL_XX	40	1; 20	<u>8595057657915</u>
350/2 AL_XX	50	1; 20	8595057657922
363/2 AL_XX	63	1; 20	8595057657939

Elbows for aluminium pipes

- high mechanical resistance



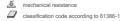


Both ends are fitted with sockets.

item	di	R		EAN
	mm	mm	pcs	
6316E AL_XX	16	55	1; 15	<u>8595057657809</u>
6320 AL_XX	20	70	1; 25	<u>8595057657816</u>
6325 AL_XX	25	115	1; 25	8595057657823
6332 AL_XX	32	125	1; 20	<u>8595057657830</u>
6340 AL_XX	40	140	1; 15	8595057657847
6350 AL_XX	50	170	1; 5	8595057657854
6363 AL_XX	63	210	1; 3	<u>8595057657861</u>



material



Aluminium clamps OMEGA









- For attaching aluminium pipes to the pad.

5240 AL XX

5250 AL_XX

5263 AL_XX

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.

1; 25

1; 25

1; 25

8595057689763

8595057689770

8595057689787

pipe dn	item	D		EAN		
mm	mm		pcs			
16	5216E AL_XX		1; 100	<u>8595057689725</u>		
20	5220 AL_XX		1; 100	<u>8595057689732</u>		
25	5225 AL_XX		1; 50	8595057689749		
32	5232 AL XX	6.4	1: 50	8595057689756		

Aluminium clamps







-45 - +250°C

40

50

63

- For attaching aluminium pipes to the pad.

 Pipes are installed by pushing between the clamp jaws.

pipe dn	item	d		EAN
mm		mm	pcs	
16	5216E PC AL_XX		1; 50	<u>8595057688650</u>
20	5220 PC AL_XX		1; 50	8595057688667
25	5225 PC AL_XX		1; 50	8595057688674
32	5232 PC AL_XX	6,4	1; 50	<u>8595057688681</u>
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.

description		EAN		
	pcs			
spray	1	<u>8595057633148</u>		
!	1	<u>8595057621183</u>		
EICON 750_XX	1	<u>8595057693609</u>		
	·	spray 1		

Flexible metal pipe





- The pipes are suitable for mechanical protection of conductors and cables inside
- The pipes are satisfies of medianical processor of conductors and capies inside halls (indoor). The pipes are made of galvanized steel bar at the top (zinc layer 3 4 μ m) and isolation layer inside.

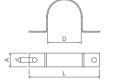
dn	item	di min.		EAN
mm		mm	m	
18.9	3313_B	13.5	10	8595057655850
18,9	3313 _XX	13,5	50	8595057604230
21,4	3316_B	16	10	8595057655867
21,4	3316 _XX	16	50	8595057604247
28,9	3323_B	22.9	10	8595057655874
20,9	3323 _XX	22,9	50	8595057604254
35,2	3329_B	28.4	10	<u>8595057655881</u>
35,2	3329 _XX	28,4	50	8595057604261
43	3336_B	35.9	5	8595057655898
43	3336 _XX	35,9	25	8595057604278
54,9	3348_B	47.7	5	8595057655904
54,9	3348 _XX	47,7	25	8595057604292

Double-sided clamps





The clamps are designed to attach flexible metal pipes to the pad.



item	description	D	L	а	#	d		EAN
		mm	mm	mm	mm	mm	pcs	
3613 A_S		18,5	40,5		0,8		100; 1300	8595057604629
3616 A_S		20,9	46,9	10		4,3	100; 1100	<u>8595057604636</u>
3623 A_S	Sendzimir	28,3	55,3				100; 400	<u>8595057604643</u>
3629 A_S	galvanized	34,5	67,5				50; 350	<u>8595057604650</u>
3636 A_S		42,2	82,2	15	1,1	5,3	50; 200	<u>8595057604667</u>
3648 A_S		54,0	95,0				50; 150	<u>8595057604674</u>

KOPODREN®

- drainage pipe





- $\mathsf{KOPODREN}^{\circledR}$ 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
- 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.

dn	item	item		EAN	
mm			m		
50	KOPODREN 50_F50	black	50	8595568926654	
65	KOPODREN 65_F50	black	50	<u>8595568926661</u>	
80	KOPODREN 80_F50	black	50	<u>8595568926678</u>	
100	KOPODREN 100_F50	black	50	<u>8595568926685</u>	
125,5	KOPODREN 125_F50	black	50	8595568926692	
159,5	KOPODREN 160_F50	black	50	<u>8595568926708</u>	

DUODREN

- doublecoat corrugated drainage pipe





HDPE



montage: -5 - +60°C





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

* perforation pipe TP, LP, MY, MP (eg: B50TP color = red, 50 m, perforation 6 holes)

dn	item	MAM	di min.	min	L			description
mm			mm	mm	m	m	cm	
	DUODREN 75_B50*	red		350	50	50		to order
	DUODREN 75_C50*	blue		350	50	50	110 x 40	to order
75	DUODREN 75_F50*	black	56	350	50	50		to order
75	DUODREN 75_B6*	red	50	-	6	312		to order
	DUODREN 75_C6*	blue		-	6	312	104 x 88 x 607	to order
	DUODREN 75_F6*	black		-	6	312		to order
	DUODREN 90_B50*	red		400	50	50		to order
	DUODREN 90_C50*	blue		400	50	50	120 x 45	to order
90	DUODREN 90_F50*	black	67	400	50	50		to order
90	DUODREN 90_B6*	red	67	-	6	312		to order
	DUODREN 90_C6*	blue		-	6	312	120 x 76 x 607	to order
	DUODREN 90_F6*	black		-	6	312		to order
	DUODREN 110_B50*	red		450	50	50		to order
	DUODREN 110_C50*	blue		450	50	50	120 x 65	to order
110	DUODREN 110_F50*	black	82	450	50	50		to order
110	DUODREN 110_B6*	red	82	-	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	84 X 87 X 810	to order













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	14,4	16
YV4CE EN	4	4	4	V	FLEXIBLE		V	V	V	V	V	V
XX16E - EN XX20 - EN	1	1	1	1 X	1 X	1 X	1 X	X	X	X	X	X
XX25 - EN	2 (3)	2	2	1	1	1	1	1	1	1	1 X	X
XX32 - EN	8	4	4	3	3	3	2	1	1	1	1	1
XX40 - EN	13	7	6	5	5	4	4	3	3	2	2	1
XX50 - EN	21	11	10	8	7	7	6	5	4	4	4	3
XX13 - ČSN	2	1	1	1	1	1	1	X	X	X	X	X
XX16 - ČSN	3	1 (2)	1	1	1	1	1	1	1	X	X	X
XX23 - ČSN	7	4	3	3	2	2	1 (2)	1	1	1	1	1
XX29 - ČSN	11	6	5	4	4	4	3	3	2	1	1	1
XX36 - ČSN	17	9	8	7	6	6	5	4	3	3	3	2
SF16	3	1	1	1	1	1	1	1	1	Х	Х	X
SF20	5	3	2	1 (2)	1	1	1	1	1	1	1	1
SF25	8	4	4	3	3	3	2 (3)	1 (2)	1	1	1	1
SF32	13	7	6	5	5	5	4	3	3	2 (3)	2 (3)	1 (2)
KF 09040	13	7	6	5	5	5	4	3	3	2	2	2
KF 09050	22	11	10	9	8	7	7	5	5	4	4	3
KF 09063	35	18	17	14	13	12	11	8	7	6	6	5
KF 09075	49	25	23	19	18	17	15	12	10	8	8	7
KF 09090	74	38	35	29	27	25	22	18	15	13	13	10
KF 09110	116	60	55	46	42	39	35	28	24	20	20	16
KF 09125	153	80	73	61	55	52	46	36	32	27	27	21
KF 09160	242	127	115	97	87	82	73	58	50	42	42	34
KF 09200	401	209	191	160	144	136	121	95	83	70	70	56
					RIGID PI	PES						
XX16E - EN	1 (2)	1	1	1	1	1	Х	Х	Х	Х	Х	Х
XX20 - EN	2 (3)	1	1	1	1	1	1	1	1	Х	X	X
XX25 - EN	6	3	3	2	1 (2)	1 (2)	1	1	1	1	1	1
XX32 - EN	9	5	4	4	3	3	23	2	1	1	1	1
XX40 - EN	15	8	7	6	6	5	5	4	3	3	3	1 (2)
XX50 - EN	24	13	12	10	9	8	7	6	5	4	4	3
XX63 - EN	43	22	20	17	15	14	13	10	9	7	7	6
6013 - ČSN	4	2	1 (2)	1	1	1	1	1	1	1	1	Х
6016 - ČSN	2 (3)	3	3	1 (2)	1	1	1	1	1	1	1	1
6021 - ČSN	9	5	4	3	3	3	3	1 (2)	1	1	1	1
6029 - ČSN	15	8	7	6	6	5	5	4	3	3	3	2
6036 - ČSN	25	13	12	10	9	9	8	6	5	4	4	4
6042 - ČSN	34	18	16	14	12	12	10	8	7	6	6	5
6016E - EN	3	1	1	1	1	1	1	1	Х	Х	X	Х
6020 - EN	4	2	1 (2)	1	1	1	1	1	1	1	1	X
6025 - EN	7	3	3	3	2	2	1	1	1	1	1	1
6032 - EN	11	6	5	5	4	4	3	3	2	1	1	1
6040 - EN	19	10	9	7	7	6	6	4	4	3	3	3
6050 - EN	30	15	14	12	11	10	9	7	6	5	5	4
6063 - EN	48	25	23	19	17	16	15	11	10	8	8	7
KD 09040	13	7	6	5	5	5	4	3	3	2	2	2
KD 09050	22	11	10	9	8	7	7	5	5	4	4	3
KD 09063	35	18	17	14	13	12	11	8	7	6	6	5
KD 09075	49	25	23	19	18	17	15	12	10	8	8	7
KD 09090	74	38	35	29	27	25	22	18	15	13	13	10
KD 09110	116	60	55	46	42	39	35	28	24	20	20	16
KD 09125	153	80	73	61	55	52	46	36	32	27	27	21
KD 09160	242	127	115	97	87	82	73	58	50	42	42	34
KD 09200	401	209	191	160	144	136	121	95	83	70	70	56





Fixing material
Dowels
Anchors
Metal clamps
Screws
Other clamps
Tightening belts
Tightening belt clamps 4-13
Nailing

All clamps, cable hangers and tightening belts are in compliance with EU directives.

	Icons - legend									
MAT	material	+	sheet metal thickness							
	temperature resistance, scope of application (°C)	M/M	color							
E 90	functionality during a fire	min	minimum wrap diameter (mm)							
	classification code according to ČSN EN 61386-25	max	maximum wrap diameter (mm)							
HF	halogen-free material		minimum tensile loop strengh (N)							
	drilling depth (mm)		dimensions - height, width (mm)							
	diameter screw (mm)		package (pcs)							
\bigcirc	outside diameter (mm)									

Ω

FOUTURE



- 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. For more information, see installation instructions.

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.



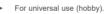
item	D	L	L			EAN	
	mm	mm	mm	mm	pcs		
HM 6_XX	6	30	35	ø 3,5 - 4	100; 14000	<u>8595057605213</u>	
HM 8/1_XX	8	40	45	ø 4 - 5	100; 6000	<u>8595057605251</u>	
HM 10_XX	10	50	55	ø 5 - 6	100; 3000	<u>8595057605176</u>	
HM 12_XX	12	60	65	ø 6 - 8	100; 2000	<u>8595057605190</u>	

HM PE

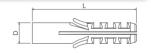
- dowels



PE



- 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. For more information, see installation instructions.





item	D	L				EAN	
	mm	mm	mm	mm	pcs		
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	<u>8595057632639</u>	
HM 10 PE_XX	10	50	55	ø 5 - 6	200; 3000	<u>8595057632646</u>	
HM 12 PE_XX	12	60	65	ø 6 - 8	200; 2000	<u>8595057632653</u>	



HL

- dowels



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.
 - For more information, see installation instructions.

item	D	D L				EAN	
	mm	mm	mm	mm	pcs		
HL 6_XX	6	34	40	ø 3,5 - 4	100; 10000	<u>8595057612280</u>	
HL 8_XX	8	48	55	ø 4 - 5	100; 4000	<u>8595057605329</u>	
HL 10_XX	10	59	65	ø 5 - 6	100; 2400	<u>8595057612273</u>	

HN

- hammering dowels



-30- +80°C



- To fix non-structural elements and various objects into the masonry of solid bricks and concrete. When installing, the screw-nail is not screwed, but rather pounded in; if necessary, it can be unscrewed.
- For more information, see installation instructions.

item	dn	L			EAN	
	mm	mm	mm	pcs		
HN 6X25_XX	6	25	25	200; 4800	<u>8595057618473</u>	
HN 6X35_XX	6	35	35	100; 2400	<u>8595057618480</u>	
HN 6X45_XX	6	45	45	100; 2400	<u>8595057618497</u>	
HN 6X55_XX	6	55	55	100; 2000	<u>8595057618503</u>	
HN 6X70_XX	6	70	70	70; 1200	<u>8595057618510</u>	
HN 8X45_XX	8	45	45	100; 1200	<u>8595057618527</u>	

HS

- dowels





- 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			EAN
	mm	pcs	
HS 6_ZA	Ø 3,5 - 4,5	100; 6000	<u>8595057608795</u>









HSV 6

- drill for HS 6





-30- +80°C

It is designed for mounting the HS 6 dowel in plasterboard materials.

item		EAN
	pcs	
HSV 6_ZA	10; 250	<u>8595057609051</u>

KHS

- metal anchor for chipboard





- The universal metal anchor is suitable for pre-assembled mounting into board construction

- The universal metal archor is suitable to 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

							gu	aranteed	oad - pul	l, cut, obl	ique pull			
	A B C	D			chipboard				l-fiber ard	cementfiber board				
item					thread	9,5 mm	12,5 mm	19 mm (2x9,5 mm)	25 mm (2x12,5 mm)	16 mm	25 mm	8 mm	V	EAN
	mm	mm	mm	mm		kN	kN	kN	kN	kN	kN	kN	pcs	
KHS 4X32_ZNCR	8	32	3-13	≤15-25	M 4 x 40	0,15	0,15	-	-	-	-	0,15	50	<u>8595568931047</u>
KHS 4X45_ZNCR	8	45	16-23	≤12-21	M 4 x 52	-	-	0,25	-	0,05	-	-	50	<u>8595568931054</u>
KHS 5X37_ZNCR	10	37	6-15	≤8-17	M 5 x 45	0,15	0,15	-	-	-	-	0,15	50	<u>8595568931061</u>
KHS 5X52_ZNCR	10	52	7-21	≤10-24	M 5 x 58	0,15	0,15	0,25	-	0,05	-	0,15	50	<u>8595568931078</u>
KHS 5X65_ZNCR	10	65	20-34	≤12-26	M 5 x 71	-	-	-	0,3	-	0,05	-	50	<u>8595568931085</u>
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	<u>8595568931108</u>
KHS 6X65_ZNCR	12	65	17-34	≤13-30	M 6 x 71	-	-	0,25	0,3	-	0,05	-	50	<u>8595568931115</u>

D

index

KPO

- anchor





- The anchors are designed for drag and thus fastening the structural elements to the underlying material (non-cracked concrete C20/25 to C50/60), a natural stone with a solid structure.
- 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 Systems with remained functionality in case of fire.
- A drill bit diameter
- B total length of anchor
- C effective anchor depth
 D maximum thickness of the material being attached

item	approved seismicity	Α	В	С	D	thread	spanner size		EAN
	class	mm	mm	mm	mm	mm	Size	pcs	
KPO 6X50_PO		6	65	60	10	M 6 x 25	10	1; 50	8595057691162
KPO 6X70_PO	-	6	65	60	10	M 6 x 25	10	1; 50	859505769117
KPO 8X77_PO	C1	8	75	65	10	M 8 x 38	13	1; 50	8595057691100
KPO 8X97_PO	C1	8	95	85	30	M 8 x 58	13	1; 50	859505769111
KPO 8X110_PO	C1/C2	8	115	105	50	M 8 x 78	13	1; 50	859556893113
KPO 10X95_PO	C1/C2	10	95	85	10	M 10 x 53	17	1; 50	859505769112
KPO 10X115_PO	C1/C2	10	115	105	30	M 10 x 73	17	1; 25	859505769113
KPO 10X175_PO	C1/C2	10	185	175	100	M 10 x 143	17	1; 20	859556893115
KPO 12X120_PO	C1/C2	12	110	100	10	M 12 x 61	19	1; 20	859505769114
KPO 8X77_POGMT	-	8	80	65	10	M8	13	1; 100	859556892796
KPO 8X97_POGMT	-	8	100	90	35	M8	13	1; 100	859556892963
KPO 10X95_POGMT	-	10	95	84	15	M10	17	1; 50	859556892797
KPO 10X115_POGMT	-	10	115	104	35	M10	17	1; 20	859556892964
KPO 10X120 POGMT	-	12	120	105	25	M12	19	1; 50	859556892965

- end-stop anchor





- 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 Systems with remained functionality in case of fire.
- A drill bit diameter
- B total length of anchor
- C anchor depth
- D maximum thickness of the material being attached

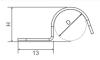
item	Α	В	С	D	thread		EAN	
	mm	mm	mm	mm	mm	pcs		
KPOZ 6_PO	8	30	13	30	M6	1; 100	8595568929938	
KPOZ 8_PO	10	30	13	30	M8	1; 50	<u>8595568919304</u>	
KPOZ 10_PO	12	40	15	40	M10	1; 50	<u>8595057692855</u>	



MAT

steel

► To fix cables with Ø 4-12.5mm on the pad.



item	surface finish	D	Н	+		EAN
		mm	mm	mm	pcs	
6704_S		4	4,5		100; 5000	<u>8595057605527</u>
6706_S		6	6,5		100; 5000	<u>8595057605534</u>
6708_S	Sendzimir galvanized	8	8,3	0,8	100; 5000	<u>8595057605541</u>
6710_S	garvarnzoa	10	10,3		100; 5000	<u>8595057605558</u>
6712_S		12	12,3		100; 5000	<u>8595057605565</u>



68xx

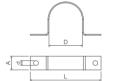
- double-sided clamps



MAT

steel

► To fix cables with Ø 8-25 mm on the pad.



item	surface finish	D	L	Α	+	d		EAN	
		mm	mm	mm	mm	mm	pcs		
6808_S		8	32		0,8	4,3	100; 3000	<u>8595057605572</u>	
6810_S		10	32	10			100; 3000	8595057605589	
6812_S	Sendzimir	12,5	39				100; 1800	8595057605596	
6816_S	galvanized	16	48				100; 1500	8595057605602	
6820_S		20	56	45	4.4	F 2	100; 500	<u>8595057605619</u>	
6825_S		25	61	15	1,1	5,3	100; 500	<u>8595057605626</u>	

index

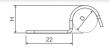
67xx

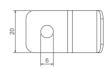
- cable clamps with fire resistance





- To fix cables with \varnothing 4-23 mm on the pad. More information on use in fire-resistant systems can be found in the catalog Systems with remained functionality in case of fire.





item	description	D	H (mm)	Ø cable	*		EAN
		singl	e-sided cla	mps			
6706_PO		6	7,2	4	1,2	100; 1000	8595568927804
6708_PO		8	9,2	6	1,2	100; 1000	8595568909930
6710_PO		10	11,2	8	1,2	100; 1000	8595568909947
6712_PO		12	13,2	10	1,2	100; 1000	8595568909954
6714_PO	Sendzimir	14	15,2	12	1,2	100; 1000	8595568935052
6716E_PO	galvanized	16	17,2	14	1,5	100; 500	8595057698031
6718_PO		18	19,5	16	1,5	100; 500	8595568935083
6720_PO		20	21,5	18	1,5	100; 500	8595568932464
6722_PO		22	23,5	20	1,5	100; 500	8595568935113
6725_PO		25	26,5	23	1,5	100; 500	8595568935144
6706 POGMT		6	7,2	4	1,2	100; 1000	8595568932495
6708 POGMT		8	9.2	6	1.2	100; 1000	8595568912459
6710 POGMT		10	11,2	8	1,2	100; 1000	8595568912466
6712 POGMT		12	13,2	10	1.2	100; 1000	8595568912473
6714 POGMT		14	15,2	12	1,2	100; 1000	8595568935069
6716E POGMT	geomet*	16	17.2	14	1.5	100; 1000	8595568935021
6718 POGMT		18	19,5	16	1.5	100; 500	8595568935083
6720 POGMT		20	21.5	18	1,5	100: 500	8595568932464
6722 POGMT		22	23,5	20	1.5	100: 500	8595568935137
6725 POGMT		25	26,5	23	1,5	100; 500	8595568935151
_		doub	le-sided cl	amps	, ,		
6716ED_PO	Sendzimir galvanized	16	17,2	14	1	100; 400	8595057698079
6716ED_POGMT	geomet*	16	17,2	14	1	100; 400	<u>8595568912510</u>

^{*} non-electrolytic plating

SB

- bolt to concrete





- 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 Systems with remained functionality in case of fire.

item	surface finish	pcs	EAN
SB 6.3X35_POGMT	geomet	100; 500	8595057697904
SB 6.3X45_POGMT	geomet	100; 500	8595568932402

SVD

- threaded screw







- 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 Systems with remained functionality in case

item	surface finish	pcs	EAN	
SVD 30_PO	ZNOD	100	8595568931207	
SVD 40_PO	ZNCR	100	8595568931214	

STP 4.2X13

- sheet metal screw





stee

- 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 Systems with remained functionality in case of fire.

item	surface finish		EAN	
		pcs		
STP 4.2X13_PO	ZNCR	100; 1000	8595568931191	

KHP

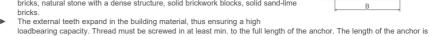
- metal expansion anchor







For pre-assembled mounting in concrete, porous concrete, vertically perforated bricks, natural stone with a dense structure, solid brickwork blocks, solid sand-lime



- calculated: length of the anchor + bolt diameter + thickness of the anchor + thickness of the plaster or insulation. The ribbed inner anchor shape 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 Systems with remained functionality in case of fire
- A hole diameter
- B minimum hole depth
- C length of bolt
- D thread diameter

	A B C D		the recommended hole diameter for the material			guaranteed load - stroke, cut, oblique stroke applies to the specified thread diameter and material						
item	Α	В	С	D	concrete C20/25	porous concrete PB4	vertically perforated bricks HLZ12	diameter screw	porous concrete ≥PB2, PP2 (G2)	porous concrete ≥PB4, PP4 (G4)		EAN
	mm mm m	mm	mm	mm mm mm		mm	mm kN kN		pcs			
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	<u>8595568931016</u>
KHP 8X60_PO	10-12	68	60	6-8	12	10	10	8	0,3	0,4	50	8595568931023
KHP 10X60_PO	12-14	68	60	8-10	14	12	12	10	0,4	0,6	50	8595568931030

KVP

- bolt to anchor KHP





- It is designed for use in chipboard and other wood materials.
- The screw has a countersunk head and a cross groove PZ.
- It is suitable for combination with the KHP dowel they meet functionality in the case of fire for up to 90 minutes. This combination is ideal for anchoring 67XX_PO clamps to aerated concrete.
- More information on use in fire-resistant systems can be found in the catalog Systems with remained functionality in case of fire

item)	screw lenght		EAN	
	mm	mm	pcs		
KVP 5X35_PO	5	35	500	8595568934550	
KVP 5X40_PO	5	40	500	8595568934567	
KVP 5X45_PO	5	45	500	8595568934574	
KVP 5X50_PO	5	50	200	8595568934581	
KVP 6X40_PO	6	40	200	8595568934598	
KVP 6X45_PO	6	45	200	8595568934604	
KVP 6X50_PO	6	50	200	8595568934611	

6723

- lineal clamps

MAT

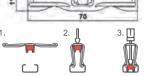


-30 - +80°C

- 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	<u>Ot</u>		EAN	
	conductor max mm	pcs		
6723_FA	10 - 26	1000; 4000	8595057606227	





6724

- lineal clamps

MAT



- The clamps are designed to fix cables or other lines with \varnothing 7-13 mm. The assembly is done by sliding 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.







6401

- cable hanger





- Intended for fixing cables with Ø 8-18 mm on a supporting rope.
- Installation is only suitable for indoor use.

item		EAN
	pcs	
6401_FA	1000; 4000	8595057605473



157

SP

- tightening belt







- For normal bundling and fixing of cables, wires and pipes.
- For fixing to a pad, use cable tie clamps (pg. <u>4-13</u>). 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	А					EAN
		mm	mm	mm	mm	N	pcs	
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







- For easy and rapid marking or labelling of ties or cables.
- For fixing to a pad, use cable tie clamps (pg. 4-13). 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.

package

item	item	L	Α					EAN
		mm	mm	mm	mm	N	pcs	
SPM 100X2.5_HA	natural	100	2,5	5	25	80	100	<u>8595057621398</u>









SPP 19X19

- clip for cable ties - self-adhesive



- -30 +40°C
- To fix the tie on the 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				EAN
		mm	pcs	
SPP 19X19_FA	black	19 x 19	100	<u>8595057629257</u>
SPP 19X19_HA	natural	19 x 19	100	8595057689947

SPPN 19X19

- clip for cable ties





- To fix the tie on the 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 prevereduction in the level of humidity PA, which would result in a reduction in the clamp quality.





item		<u></u>			EAN
		mm	mm	pcs	
SPPN 19X19_FA	black	19 x 19	Ø 3,5 - 4	100	8595057631694

index

SPP 9

- clip for cable ties





To fix the tie on the pad.

-40- +85°C

- 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.



12 5	112	75.		-
5	5	1	1	5
5		I	12	,
			5	

item				EAN
	mm	pcs		
SPP 9_HA	natural	Ø 3,5 - 5	100	8595057629172

65xx

- spacing clamps





6526_HA

-5 - +60°C

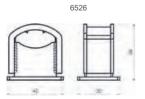
- The clamps consist of two parts and are designed to fix individual cables. Installation is performed by screwing or gluing the lower part of the clip to the base. By fitting the appropriate cable and pressing the upper part of the clip onto the lower part. There is a screw hole in the lower part of the clamp.

150

13 - 26

item		hole diameter		EAN
	conductor - mm	mm	pcs	
6516_HA	8 - 16	4	500	8595057605411

















8595057605442

K-PULSA 40 E

- nailgun



- Gas firing (up to 750 shots per cartridge).
 - Battery capacity max. 3000 shots.
 - Charging time 90 minutes (fast charge function 25 min. = 500 shots).
- Weight 3.8 kg.
- Adjustable power up to 82 J.
- Magazine for 20 nails.

- There is a safety device against accidental firing of course

 1999/5/EC

 2M 2004/108/EC

 2M 2004/108/EC

item	pcs	EAN
K-PULSA_PO	1	8595568936936

certification according to standards: EN 12549, EN 792-13 + A1 :2008E

accessories according to:

2006/42/EC 2011/65/UE

charger: 2006/95/EC CEM 2004/108/EC

MVH P800

- magnetic attachment



- For the K-Pulsa 40 E PO gas nailer.
- Strong magnet for attaching magnetic materials. Suitable for fixing fire-resistant clamps of the 67xx_POBD series.

item		EAN
	pcs	
MVH P800 PO	1	8595568935588

PLYN

- gas cartridge



- Capacity up to 750 shots. For the K-Pulsa 40 E_PO nailgun series. Certification according to: 75/324/EC. The safety data sheet is available on the e-shop.

	EAN
pcs	
1	8595568935595
	pcs 1

Use for standard concrete, solid masonry and plaster.

Galvanized surface finish.

The package of 500 nails includes the gas cartridge PLYN_PO.

灣	0000	
1	1	*

item	nail lenght	weight		EAN
	mm	kg	pcs	
KHB C6-20_PO	20	0,71	500	<u>8595568935601</u>
KHB C6-25_PO	25	0,78	500	8595568935618
KHB C6-30_PO	30	0,88	500	8595568935625
KHB C6-35_PO	35	1,30	500	8595568935632
KHB C6-40_PO	40	1,16	500	8595568935649

кно

- 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	weight		EAN	
		mm	kg	pcs	
кно но	6-15_PO	15	0,66	500	<u>8595568935656</u>
кно но	6-17_PO	17	0,71	500	8595568935663
кно но	6-22_PO	22	0,84	500	8595568935670
кно но	6-27_PO	27	1,00	500	8595568935687
кно но	6-32_PO	32	1,15	500	<u>8595568935694</u>

KHO

- 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	weight		EAN
	mm	kg	pcs	
KHO HC6-15FH_PO	15	0,66	500	8595568935700
KHO HC6-17FH_PO	17	0,71	500	<u>8595568935717</u>
KHO HC6-22FH_PO	22	0,84	500	8595568935724
KHO HC6-27FH_PO	27	1,00	500	8595568935731

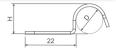
67xx

- cable clamps without hole





- Suitable for fixing cables of \emptyset 4 23 mm. Clamps 67 ..._ POBD can be shot using gas nailers with a magnetic attachment. More information on use in fire-resistant systems can be found in the catalog Systems with remained functionality in case of fire.





item	surface finish	D	H (mm)	Ø cable	+		EAN			
cable clamps without hole										
6706_POBD		6	7,2	4	1,2	100; 1000	8595568934987			
6708_POBD	Sendzimir galvanized	8	9,2	6	1,2	100; 1000	8595568934994			
6710_POBD		10	11,2	8	1,2	100; 1000	8595568935007			
6712_POBD		12	13,2	10	1,2	100; 1000	8595568935014			
6714_POBD		14	15,2	12	1,2	100; 1000	<u>8595568935076</u>			
6716E_POBD		16	17,2	14	1,5	100; 500	<u>8595568935021</u>			
6718_POBD		18	19,5	16	1,5	100; 500	<u>8595568935106</u>			
6720_POBD		20	21,5	18	1,5	100; 500	8595568935038			
6722_POBD		22	23,5	20	1,5	100; 500	8595568935137			
6725_POBD		25	26,5	23	1,5	100; 500	8595568935168			





Fire-technical characteristics tests record

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								
		1	Measured values	S		Extended		
Report no.	Material	1st measurement	2 nd measurement	3 rd measurement	Results	uncertainty		
12274	PVC stabilized by Pb	17,584	17,540	17,594	17,57	0,07		
12275	PVC stabilized by CaZn	18,125	18,104	18,182	18,14	0,09		
12276	PE - liten	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		
12280	PPO/PPE	35,086	35,120	35,150	35,12	0,08		





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					
	A1					
Α	A2					
В	В					
C1	С					
C2	D					
C3	E					
C3	F					

The difference between the degree of flammability of a class of reaction to fire

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 valid 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 valid 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 validity 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

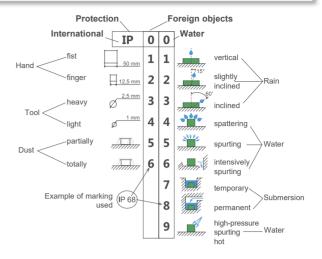
Protection levels against contact with dangerous parts are indicated by the complementary code in the form of a letter.

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	Х	#	#	Х	#	Х
Amoniak	25	20	#	#	Х	0	#	Х
Anilin		60	0	Х	0	Х	Х	0
Benzene		20	Х	0	#	Х	0	Х
Destilled water		20	#	#	#	#	#	#
Ethanol	50	20	#	#	#	0	#	#
Phenol solution	5	50	0	0	Х	Х	Х	Х
Sodium hydroxide	60	50	#	#	#	#	#	#
Chlorinated hydrocarbons			Х	Х	#	Х	Х	Х
Hydrofluoric acid	40	20	#	#	Х	Х	#	0
Hydrochloric acid	36	20	0	0	Х	0	0	0
Chromic acid	20		0	0	Х	0	0	0
Acetic acid	5	20	#	#	Х	#	#	0
Sulfuric acid	96	20	#	#	Х	#	#	0
Sulfuric acid	30	20	#	#	Х	#	#	0
Medicinal oil			#	#	#	#	#	Х
Methanol			#	#	#	Х	#	#
Olive oil			#	#	#	#	#	Х
Petroleum			#	#	#	#	#	Х
Hydrogen peroxide	20	20	#	#	0	0	#	0
Tetrachlorocarbon			Х	Х	Х	Х	Х	Х
Transformer oil		20	#	#	#	#	#	Х
Sodium carbonate			#	#	#	#	#	#

Mechanical protection

Mechanical resistance of the electrical equipment lids 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.

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 - non electrolytic plating

The base of the DELTA surfacing includes Delta Tone 9000 materials. They are inorganic coats filled with zinc and aluminium micro-lamellas spread in a titanium binder. The method creates a cathodic protection coating the layer of which is 5-15 micrometer thick. This thickness of the layer provides better protection of metals than a thicker layer of zinc created by the zinc dipping method. The method conforms to the European Directive on recycling since it does not include any heavy metals and hexavalent chromium and it is also suitable for small parts. KOPOS KOLÍN supplies also bolts, nuts, couplings and other small connecting accessories with this surfacing and the company also carried out the salt fog test in accordance with CSN EN ISO 9227 which proved that the coating was not damaged during the action of the salt fog for the period of 300 hours. The long-term temperature constancy is guaranteed up to 180 °C while the surfacing does not show any hydrogen fragility.

Based on the above stated reasons we may fully recommend this method of surfacing as an alternative to the zinc dipping method.

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..

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 marks 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.



Compliance mark with EU directions for particular product.



The approval mark of VDE - test and certification institute in Offenbach. Indicates compliance with German electrical standard.



Test temperature of flaming loop in compliance with ČSN 34 5615-84.



Product material labeling in compliance with ČSN 77 0052. HDPE



Product designed for installation in hollow walls (850 °C in compliance with ČSN EN IEC 60670-1 ed.2).



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: <u>8595057687677</u>



IP3-4 - wooden pallet dimension: 120 x 183 cm EAN: <u>8595568926906</u>



IP3-5 - wooden base dimension: 205 x 112 cm EAN: <u>8595568931696</u>



IP5 - wooden base dimension: 300 x 65 cm EAN: <u>8595057687714</u>



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

|--|

			All
item	pg.	item	pg.
1220	<u>3-5</u>	6020	3-30
1225	<u>3-5</u>	6021	3-26
1232	3-5	6025	3-30
1240	3-5	6029	3-26
1250	3-5	6032	3-30
1420	3-4	6036	3-26
1425	3-4	6040	3-30
1432	3-4	6042	3-26
1440	3-4	6050	3-30
1450	3-4	6063	3-30
1520	3-11	6113	3-27
1525	3-11	6116	3-27
1532	3-11	6120	3-31
1540	3-11	6121	3-27
1550	3-11	6125	3-31
1563	3-11	6129	3-27
3316	3-39	6132	3-31
3329	3-39	6136	3-27
3348	3-39	6140	3-31
4020	3-12	6142	3-27
4025	3-12	6150	3-31
4032	3-12	6163	3-31
4040	3-12	6220	3-32
4050		6225	
4063	3-12 3-12	6232	3-32 3-32
4116	3-13	6240	3-32
4120	3-13	6250	3-32
4125	3-13	6263	3-32
4132	3-13	6320	3-33
4140	3-13	6325	3-33
4150	3-13	6332	3-33
4820	3-35	6340	3-33
4825	3-35	6350	3-33
4832			
4840	3-35	6363	3-33
4850	3-35	6516 6526	<u>4-14</u> 4-14
4863	3-35 3-35	6704	4-7
4913		6706	
4913	3-36	6708	4-7
	3-36		4-7
4921 4929	3-36	6710 6712	4-7
4936	3-36	6808	4-7
	3-36		4-7
4942 5320	3-36	6810 6812	4-7
	3-14		4-7
5325	3-14	6816	4-7
5332	3-14	6820	4-7
5340	3-14	6825	4-7
5350	3-14	8020	3-12
6013	3-26	8025	3-12
6016	<u>3-26</u>	8032	3-12

tem	pg.	item
140	<u>3-12</u>	05041
)50	<u>3-12</u>	05043
63	<u>3-12</u>	05050
6040	3-20	05051
050	3-20	05053
6063	3-20	06025
075	3-20	06032
:090	3-20	06040
5110	3-20	06040 ARG
160	3-20	06050
'040	3-20	06110/2
7050	3-20	06110P/2
063	3-20	06160/2
075	3-20	07050/8
090	3-20	07050/8
110		
	3-20	07075/8
125	3-20	07090/8
160	3-20	07110/8
200	3-20	07125/8
3.CS.K	<u>1-63</u>	07160/8
5.CS.K	<u>1-63</u>	07200/8
2040	3-20	1216E
050	3-20	1216EHFPP
063	3-20	1220HFPP
075	<u>3-20</u>	1225HFPP
090	3-20	1225HFPP
10	<u>3-20</u>	1232HFPP
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