



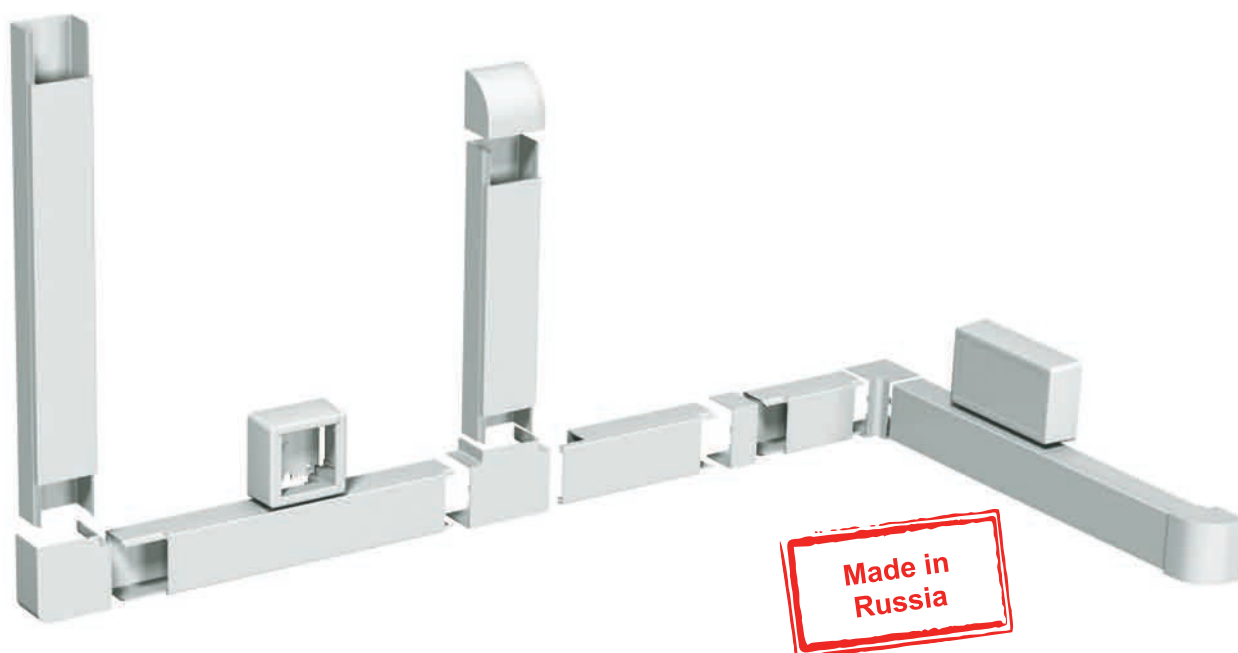
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Cable Trunkings and Accessories

“ELEKOR” ECOLINE series cable trunkings

Cable trunkings of “ELEKOR” series are intended for laying digital, open-type low voltage and low-current supply lines in offices and residential premises, industrial and administrative buildings, medical and children institutions at a new construction or modernization. “ELEKOR” series cable trunkings meet the requirements EN 50085-1, EN 50085-2-1.



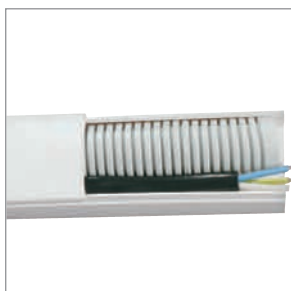
Advantages

- Perforation in the cable channel base provides for easy fixing by self-tapping screws and fired pins.
- Serration of the cable channel base makes its surface rough and provides for convenient and durable fixing by liquid nails.
- Special impact resistance modifiers enhance strength of the cable channel.
- Smooth and glossy surface makes the cable channel resistant to contamination and aesthetically attractive.
- Pure white color (RAL 9003) of cable channel is durable and UV-resistant due to use of special additives.
- The cable channels ensure electrical safety (additional insulation of wiring) and protection against mechanical damage.
- Fire because of short-circuit is prevented.
- Easy installation of wiring during construction and renovation of buildings.

Technical Features

Material of ducts (sections)	impact-resistant, self-extinguishing PVC (composite) white (RAL 9003)
Color	
Installation and operation temperature	–15...+60°C
Transport and storage temperature	–32...+60°C
Impact strength	at least 1.5 J for ELEKOR at least 0.75 J for ECOLINE at minimum installation and operation temperature
Climatic version	UHL4 (in rooms with artificially controlled environmental conditions)
Degree of protection	IP40
Compliance with fire safety regulations	Federal Law FZ-123 of 22.06.2008 "Technical regulations for fire safety requirements"
Dielectric strength of insulation	at least 100 MOhm
Transport and storage	harsh (H)

Design Features



Double latch ensuring tight joint between the cable channel cover and the base, thus allowing for placement of rigid items (i.e. corrugated pipe) inside the cable channel and fixing of the cable channel to ceiling.



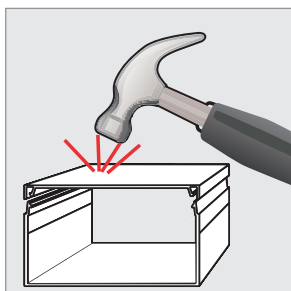
Special additives ensure high plasticity: the cable channel keeps its properties even when intensively twisted.



Perforation in the cable channel base provides for easy fixing by self-tapping screws and fired pins.



Serration of the cable channel base makes its surface rough and provides for convenient and durable fixing by liquid nails.



Special impact resistance modifiers enhance strength of the cable channel.



Pure white color (RAL 9003) of cable channel is durable and UV-resistant due to use of special additives. Smooth and glossy surface makes the cable channel resistant to contamination and aesthetically attractive.



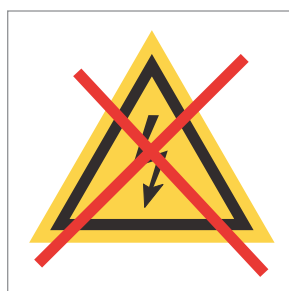
Design of KMKU universal box allows for interconnection of cable channels in unlimited numbers due to detachable perforated walls. IEK® sockets can be installed to the KMKU box.



Wide range of accessories allows for building of any design variants of cable-support systems.

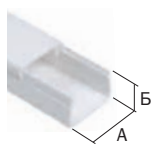


Packing in the form of dense non-transparent sleeve ensures a reliable protection for the cable channels under all conditions of storage and transport.



Material utilized for the cable channels of ELECOR series is nonflammable, does not sustain or propagate combustion, FV (PV) 0

Products' range



- Color: white (RAL9003)
- Material: PVC (composite)
- Product's length: 2 meters
- Scope of supply: complete (duct + cover)
- Storage: group package

Description	Width A, mm	Height B, mm	Weight, kg/m	Area of internal useful cross-section, mm ²	Package qty., m	Product ID
ELECOR cable channels						
10×7	10	7	0,042	45	200	CKK10-010-007-1-K01
12×12	12	12	0,076	90	120	CKK10-012-012-1-K01
15×10	15	10	0,077	95	144	CKK10-015-010-1-K01
16×16	16	16	0,105	184	84	CKK10-016-016-1-K01
20×10	20	10	0,106	131	96	CKK10-020-010-1-K01
25×16	25	16	0,148	283	50	CKK10-025-016-1-K01
25×25	25	25	0,172	492	32	CKK10-025-025-1-K01
30×25	30	25	0,182	608	32	CKK10-030-025-1-K01
40×16	40	16	0,223	475	30	CKK10-040-016-1-K01
40×25	40	25	0,255	817	24	CKK10-040-025-1-K01
40×40	40	40	0,315	1374	24	CKK10-040-040-1-K01-024
60×40	60	40	0,502	2047	18	CKK10-060-040-1-K01-018
60×60	60	60	0,582	3187	12	CKK10-060-060-1-K01
80×40	80	40	0,650	2740	10	CKK10-080-040-1-K01-010
80×60	80	60	0,735	4270	8	CKK10-080-060-1-K01-008
100×40	100	40	0,731	3474	8	CKK10-100-040-1-K01
100×60	100	60	0,850	5404	8	CKK10-100-060-1-K01
Modified ELECOR cable channels (with optional partition)						
60×40	60	40	0,512	2032	18	CKK10-060-040-1-K01-M
60×60	60	60	0,592	3172	12	CKK10-060-060-1-K01-M
80×40	80	40	0,660	2725	10	CKK10-080-040-1-K01-M
80×60	80	60	0,745	4255	8	CKK10-080-060-1-K01-M
100×40	100	40	0,741	3459	8	CKK10-100-040-1-K01-M
100×60	100	60	0,860	5389	8	CKK10-100-060-1-K01-M
ECOLINE cable channels						
12x12	12	12	0,076	90	120	CKK11-012-012-1-K01
15x10	15	10	0,077	95	144	CKK11-015-010-1-K01
16x16	16	16	0,105	184	84	CKK11-016-016-1-K01
20x10	20	10	0,106	131	96	CKK11-020-010-1-K01
25x16	25	16	0,148	283	50	CKK11-025-016-1-K01
25x25	25	25	0,172	492	32	CKK11-025-025-1-K01
40x16	40	16	0,223	475	30	CKK11-040-016-1-K01
40x25	40	25	0,255	817	24	CKK11-040-025-1-K01
40x40	40	40	0,315	1374	24	CKK11-040-040-1-K01-024
60x40	60	40	0,502	2047	18	CKK11-060-040-1-K01-018
60x60	60	60	0,582	3187	12	CKK11-060-060-1-K01
80x60	80	60	0,735	4270	8	CKK11-080-060-1-K01-008
100x40	100	40	0,731	3474	8	CKK11-100-040-1-K01
100x60	100	60	0,850	5404	8	CKK11-100-060-1-K01
ELECOR cable channels (with built-in partition)						
Description	Width A, mm	Height B, mm	Weight, kg/m	Area of internal useful cross-section S1+S2, mm ²	Package qty., m	Product ID
30/2×10	30	10	0,145	104+104	64	CKK10-030-010-2-K01
40/2×16	40	16	0,225	170+290	30	CKK10-040-016-2-K01

Accessories for ELECOR cable channel

Description	Purpose	Product ID	Description	Purpose	Product ID
KMP angle piece 90° 	For joint between two cable channels of same size at 90° angle Material: PVC	CKK10D-P-100-040-K01	KMT T-shaped piece 	For T-joint between three cable channels of same size Material: PVC	CKK10D-T-100-040-K01
		CKK10D-P-100-060-K01			CKK10D-T-100-060-K01
		CKK10D-P-012-012-K01			CKK10D-T-012-012-K01
		CKK10D-P-015-010-K01			CKK10D-T-015-010-K01
		CKK10D-P-016-016-K01			CKK10D-T-016-016-K01
		CKK10D-P-020-010-K01			CKK10D-T-020-010-K01
		CKK10D-P-025-016-K01			CKK10D-T-025-016-K01
		CKK10D-P-025-025-K01			CKK10D-T-025-025-K01
		CKK10D-P-040-016-K01			CKK10D-T-040-016-K01
		CKK10D-P-040-025-K01			CKK10D-T-040-025-K01
		CKK10D-P-040-040-K01			CKK10D-T-040-040-K01
		CKK10D-P-060-040-K01			CKK10D-T-060-040-K01
		CKK10D-P-060-060-K01			CKK10D-T-060-060-K01
		CKK10D-P-080-040-K01			CKK10D-T-080-040-K01
		CKK10D-P-080-060-K01			CKK10D-T-080-060-K01

Description	Purpose	Product ID
KMV internal angle piece 	For joint between two cable channels of same size at internal 90° angle Material: PVC	CKK10D-V-100-040-K01 CKK10D-V-100-060-K01 CKK10D-V-012-012-K01 CKK10D-V-015-010-K01 CKK10D-V-016-016-K01 CKK10D-V-020-010-K01 CKK10D-V-025-016-K01 CKK10D-V-025-025-K01 CKK10D-V-040-016-K01 CKK10D-V-040-025-K01 CKK10D-V-040-040-K01 CKK10D-V-060-040-K01 CKK10D-V-060-060-K01 CKK10D-V-080-040-K01 CKK10D-V-080-060-K01
KMN external angle piece 	For joint between two cable channels of same size at external 90° angle Material: PVC	CKK10D-N-100-040-K01 CKK10D-N-100-060-K01 CKK10D-N-012-012-K01 CKK10D-N-015-010-K01 CKK10D-N-016-016-K01 CKK10D-N-020-010-K01 CKK10D-N-025-016-K01 CKK10D-N-025-025-K01 CKK10D-N-040-016-K01 CKK10D-N-040-025-K01 CKK10D-N-040-040-K01 CKK10D-N-060-040-K01 CKK10D-N-060-060-K01 CKK10D-N-080-040-K01 CKK10D-N-080-060-K01
Partitions of height 40 and 60 mm 	Arrangement of cable channel (40 and 60 mm high) space separation	CKK-40D-P40-K01 CKK-40D-P60-K01

Description	Purpose	Product ID
KMS butt junction piece 	For joint between two cable channels of same size on straight surface Material: PVC	CKK10D-S-100-040-K01 CKK10D-S-100-060-K01 CKK10D-S-012-012-K01 CKK10D-S-015-010-K01 CKK10D-S-016-016-K01 CKK10D-S-020-010-K01 CKK10D-S-025-016-K01 CKK10D-S-025-025-K01 CKK10D-S-040-016-K01 CKK10D-S-040-025-K01 CKK10D-S-040-040-K01 CKK10D-S-060-040-K01 CKK10D-S-060-060-K01 CKK10D-S-080-040-K01 CKK10D-S-080-060-K01
KMZ blank piece 	Cover for end of cable channel Material: PVC	CKK10D-Z-100-040-K01 CKK10D-Z-100-060-K01 CKK10D-Z-012-012-K01 CKK10D-Z-015-010-K01 CKK10D-Z-016-016-K01 CKK10D-Z-020-010-K01 CKK10D-Z-025-016-K01 CKK10D-Z-025-025-K01 CKK10D-Z-040-016-K01 CKK10D-Z-040-025-K01 CKK10D-Z-040-040-K01 CKK10D-Z-060-040-K01 CKK10D-Z-060-060-K01 CKK10D-Z-080-040-K01 CKK10D-Z-080-060-K01
KMKU universal box 88×88×44 	Placement of electrical installation items inside the box Material: ABS	CKK10D-U-1-K01 CKK10D-U-1-K32

Table of ELECOR cable channels filling with cables
(fill rate 40% of internal space is assumed for calculations)

Parameters of cable channel		Conductor type																			
		U/UTP 5E	RG6 75 Ohm	BOK 8(12)	U/UTP 3	2×1,0	2×1,5	2×2,5	3×1,0	3×1,5	3×2,5	3×4,0	3×6,0	4×1,5	4×2,5	4×4,0	4×6,0	5×1,5	5×2,5	5×4,0	5×6,0
Dimensions A×B, mm	Useful cross-section area, mm²	Cable diameter, mm																			
		5,5	7,0	8,0	16,0	7,0	7,7	9,0	7,6	8,4	9,7	11,5	11,8	9,8	10,7	13,1	14,2	10,9	11,9	13,7	15,9
		Cable cross-section, mm²																			
		23,7	38,5	50,2	201,0	38,5	46,5	63,6	45,3	55,4	73,9	103,8	109,3	75,4	89,9	134,7	158,3	93,3	111,2	147,3	198,5
10×7	45	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12×12	90	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15×10	95	2	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
16×16	184	3	2	1	0	2	1	1	2	1	1	1	1	1	1	1	0	1	1	0	0
20×10	131	2	2	2	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
25×16	283	4	3	2	0	3	2	2	2	2	1	1	2	2	1	0	2	1	0	0	0
25×25	492	8	5	4	1	5	4	3	4	3	2	2	2	2	2	1	1	2	2	1	1
30×25	608	10	6	5	1	6	5	4	5	4	3	2	2	3	2	2	1	2	2	2	1
40×16	475	8	5	4	1	5	4	3	4	3	2	2	2	2	2	1	1	2	2	1	1
40×25	817	14	8	6	2	8	7	5	7	6	4	3	3	4	4	2	2	3	3	2	2
40×40	1374	23	14	11	2	14	12	8	12	10	7	5	5	7	6	4	3	6	5	4	2
60×40	2047	34	21	16	4	21	17	13	18	14	11	8	7	11	9	6	5	8	7	5	4
60×60	3187	54	33	25	6	33	27	20	28	23	17	12	12	17	14	9	8	14	11	8	6
80×40	2740	46	28	22	5	28	23	17	24	20	15	10	10	14	12	8	7	12	10	7	5
80×60	4270	72	44	34	8	44	36	27	38	31	23	16	16	22	19	12	10	18	15	11	8
100×40	3474	58	36	28	7	36	30	22	30	25	19	13	12	18	15	10	8	15	12	9	7
100×60	5404	91	56	43	10	56	46	34	48	39	29	21	20	28	24	16	14	23	19	14	11
30/2×10 S1	104	2	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
30/2×10 S2	104	2	1	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
40/2×16 S1	170	3	2	1	0	2	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0
40/2×16 S2	290	5	3	2	0	3	2	2	2	2	1	1	1	1	1	1	0	1	1	0	0

Cable channels of ELECOR series with "pine" and "oak" textures

Cable channels of ELECOR series with "pine" and "oak" textures are designed for installation of data, power and low-voltage electrical lines in living rooms and cottages during construction and renovation.



Advantages

- Electrical safety (additional insulation of wiring).
- Wiring protection against mechanical damage.
- Fire because of short-circuit is prevented.
- Unauthorized access to the wiring is restricted.
- Easy installation of wiring during construction and renovation of buildings.
- Quick access to wiring in case of emergency.
- Wiring can be quickly improved and supplemented.

Technical Features

Material	Self-extinguishing PVC
Volume resistivity	not less than $1 \times 10^9 \text{ } \Omega \cdot \text{m}$ at 20 °C
Tensile strength	not less than 5 kgf/cm at -32 °C
Operating temperature for long-term use	-15 ÷ +60 °C
Assembling temperature	-15 ÷ +60 °C
Transportation and storage temperature	-32 ÷ +60 °C
Electrical resistance	not less than $1 \times 10^9 \text{ } \Omega \cdot \text{m}$ at + 20 °C
Wall thickness (WT)	from 0,7 mm (mini-ducts) to 2,4 mm (trunk line ducts)
Cover removal test	no additional tool is required; unauthorized access to the conducting parts is limited

Design features



The texture finish is made on the cover and side walls of the base, creating aesthetic appearance.



Individual marking, including bar code, is made by printer on all sections of the cable channels.



All textures are applied to the cable channels by method of thermal printing, featured by considerably high resistance to abrasion.



Availability of electrical installation devices and boxes having color of wood enables creation of communications systems in common style.

Products' range

	Description	Package qty., m	Product ID
	Cable channel 12×12 ELECOR pine	120	CKK10-012-012-1-K34
	Cable channel 15×10 ELECOR pine	144	CKK10-015-010-1-K34
	Cable channel 16×16 ELECOR pine	84	CKK10-016-016-1-K34
	Cable channel 20×10 ELECOR pine	96	CKK10-020-010-1-K34
	Cable channel 25×16 ELECOR pine	50	CKK10-025-016-1-K34
	Cable channel 40×16 ELECOR pine	30	CKK10-040-016-1-K34
	Cable channel 40×25 ELECOR pine	18	CKK10-040-025-1-K34
	Cable channel 12×12 ELECOR oak	120	CKK10-012-012-1-K24
	Cable channel 15×10 ELECOR oak	144	CKK10-015-010-1-K24
	Cable channel 16×16 ELECOR oak	84	CKK10-016-016-1-K24
	Cable channel 20×10 ELECOR oak	96	CKK10-020-010-1-K24
	Cable channel 25×16 ELECOR oak	50	CKK10-025-016-1-K24
	Cable channel 40×16 ELECOR oak	30	CKK10-040-016-1-K24
	Cable channel 40×25 ELECOR oak	18	CKK10-040-025-1-K24

Accessories

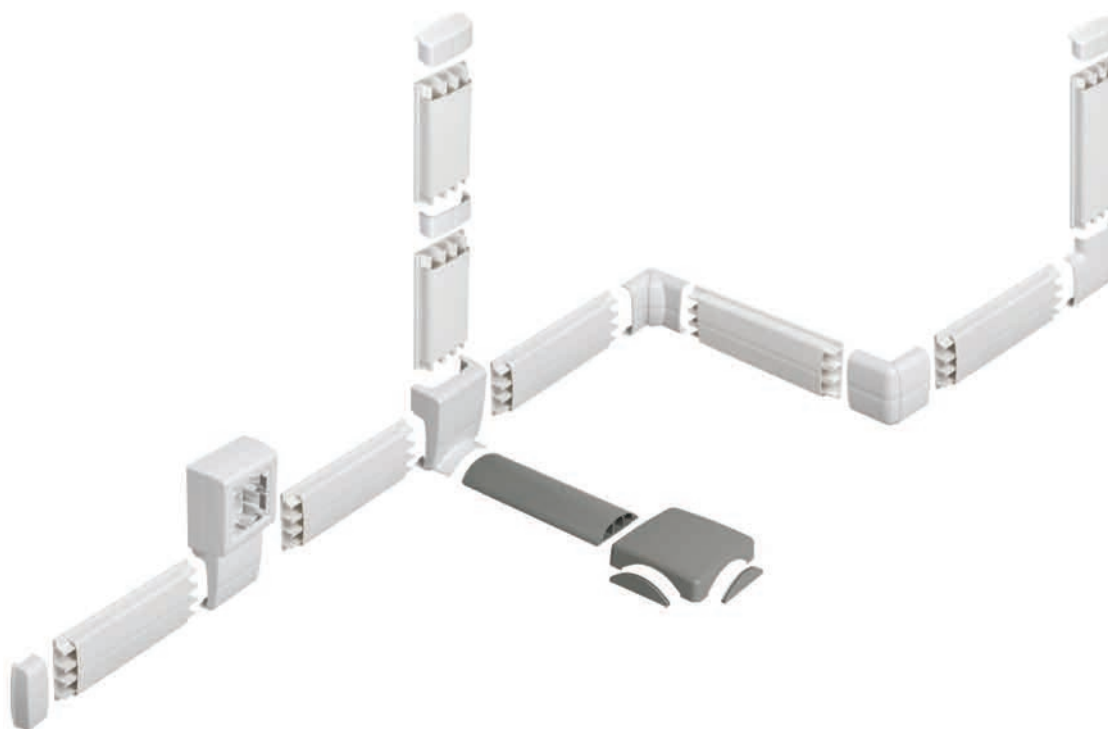
	Description	Dimensions, mm	Package qty		Product ID
			ind., pcs.	group., pcs.	
	KMN external angle piece pine	15×10	4	124	CKK20D-N-015-010-K01
		16×16	4	200	CKK20D-N-016-016-K01
		20×10	4	84	CKK20D-N-020-010-K01
		25×16	4	120	CKK20D-N-025-016-K01
		40×16	4	60	CKK20D-N-040-016-K01
		40×25	4	48	CKK20D-N-040-025-K01
	KMV internal angle piece pine	15×10	4	240	CKK20D-V-015-010-K01
		16×16	4	200	CKK20D-V-016-016-K01
		20×10	4	72	CKK20D-V-020-010-K01
		25×16	4	120	CKK20D-V-025-016-K01
		40×16	4	48	CKK20D-V-040-016-K01
		40×25	4	108	CKK20D-V-040-025-K01
	KMZ blank piece pine	15×10	4	648	CKK20D-Z-015-010-K01
		16×16	4	432	CKK20D-Z-016-016-K01
		20×10	4	588	CKK20D-Z-020-010-K01
		25×16	4	288	CKK20D-Z-025-016-K01
		40×16	4	128	CKK20D-Z-040-016-K01
		40×25	4	96	CKK20D-Z-040-025-K01
	KMP angle piece 90° pine	15×10	4	144	CKK20D-P-015-010-K01
		16×16	4	108	CKK20D-P-016-016-K01
		20×10	4	96	CKK20D-P-020-010-K01
		25×16	4	48	CKK20D-P-025-016-K01
		40×16	4	168	CKK20D-P-040-016-K01
		40×25	4	96	CKK20D-P-040-025-K01
	KMS butt junction piece pine	15×10	4	280	CKK20D-S-015-010-K01
		16×16	4	208	CKK20D-S-016-016-K01
		20×10	4	240	CKK20D-S-020-010-K01
		25×16	4	148	CKK20D-S-025-016-K01
		40×16	4	60	CKK20D-S-040-016-K01
		40×25	4	40	CKK20D-S-040-025-K01
	KMT T-shaped piece pine	15×10	4	96	CKK20D-T-015-010-K01
		16×16	4	60	CKK20D-T-016-016-K01
		20×10	4	96	CKK20D-T-020-010-K01
		25×16	4	48	CKK20D-T-025-016-K01
		40×16	4	168	CKK20D-T-040-016-K01
		40×25	4	96	CKK20D-T-040-025-K01

	Description	Dimensions, mm	Package qty		Product ID
			ind., pcs.	group., pcs.	
	KMN external angle piece oak	15×10	4	124	CKK10D-N-015-010-K11
		16×16	4	200	CKK10D-N-016-016-K11
		20×10	4	84	CKK10D-N-020-010-K11
		25×16	4	120	CKK10D-N-025-016-K11
		40×16	4	60	CKK10D-N-040-016-K11
		40×25	4	48	CKK10D-N-040-025-K11
	KMV internal angle piece oak	15×10	4	240	CKK10D-V-015-010-K11
		16×16	4	200	CKK10D-V-016-016-K11
		20×10	4	72	CKK10D-V-020-010-K11
		25×16	4	120	CKK10D-V-025-016-K11
		40×16	4	48	CKK10D-V-040-016-K11
		40×25	4	108	CKK10D-V-040-025-K11
	KMZ blank piece oak	15×10	4	648	CKK10D-Z-015-010-K11
		16×16	4	432	CKK10D-Z-016-016-K11
		20×10	4	588	CKK10D-Z-020-010-K11
		25×16	4	288	CKK10D-Z-025-016-K11
		40×16	4	128	CKK10D-Z-040-016-K11
		40×25	4	96	CKK10D-Z-040-025-K11
	KMP angle piece 90° oak	15×10	4	144	CKK10D-P-015-010-K11
		16×16	4	108	CKK10D-P-016-016-K11
		20×10	4	96	CKK10D-P-020-010-K11
		25×16	4	48	CKK10D-P-025-016-K11
		40×16	4	168	CKK10D-P-040-016-K11
		40×25	4	96	CKK10D-P-040-025-K11
	KMS butt junction piece oak	15×10	4	280	CKK10D-S-015-010-K11
		16×16	4	208	CKK10D-S-016-016-K11
		20×10	4	240	CKK10D-S-020-010-K11
		25×16	4	148	CKK10D-S-025-016-K11
		40×16	4	60	CKK10D-S-040-016-K11
		40×25	4	40	CKK10D-S-040-025-K11
	KMT T-shaped piece oak	15×10	4	96	CKK10D-T-015-010-K11
		16×16	4	60	CKK10D-T-016-016-K11
		20×10	4	96	CKK10D-T-020-010-K11
		25×16	4	48	CKK10D-T-025-016-K11
		40×16	4	168	CKK10D-T-040-016-K11
		40×25	4	96	CKK10D-T-040-025-K11

Floor and plinth cable trunkings

“ELEKOR” series floor and plinth trunking system is intended for laying all types of power and LV service lines including high quality fiber and data cables for organizing working places in offices, industrial and administrative buildings as well as medical and children institutions at new constructions or modernization.

“ELEKOR” series system meets the requirements of EN 50085-1, EN 50085-2-1.



5

Advantages

- Work place arrangement.
- Ensuring electric safety (additional electrical conduit insulation).
- Protection of the wiring system from mechanical damage.
- Exclusion of fires in the premises at short circuits.
- Limiting of an unauthorized access to the conduits.
- Easy mounting at a new construction or restoration of buildings.
- Providing immediate access to the wiring system in emergency.
- Possible fast modernization and updating of the cabling system.

Technical Features

Material

ductile, impact-resistant, self-extinguishing PVC resistant to ultraviolet exposure and corrosive chemical environment with low moisture permeability

Volume resistivity

not less than $1 \times 10^9 \text{ Ohm} \times \text{cm}$ at 20°C

Tensile strength

not less than 5 kgf/cm at -32°C

Operating temperature for long-term use

$-15 \div +60^\circ \text{C}$

Assembling temperature

$-15 \div +60^\circ \text{C}$

Transportation and storage temperature

$-32 \div +60^\circ \text{C}$

Electrical resistance

not less than $1 \times 10^9 \text{ Ohm} \times \text{cm}$ at $+20^\circ \text{C}$

Color

plinth – RAL 9010;

floor – RAL7023

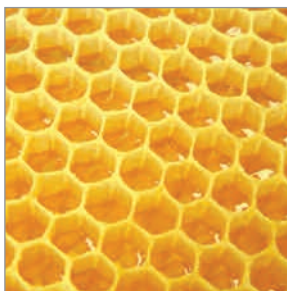
Cover removal test

no additional tool is required; unauthorized access to the conducting parts is limited

Design Features



Adjusted angles facilitate and improve the system installation. Integrated baffles divide power and data cables ensuring reliable sealing of high quality digital wires.



Wax included as a compound of raw material for floor and plinth electrical conduits production, provides for good washing qualities.



To simplify the mounting process, each trunking is slotted. Base ribbing allows fastening the cable trunkings using adhesive solutions and bi-adhesives (applied only for the preliminary fixation).



Owing to the floor trunking's construction with three baffles and an additional durability modifier being a part of raw materials, this one is notable for its boosted resistance to all types of stress.



All cable trunkings are protected with a pressure-sensitive film. It protects the tray from soiling during the installation. After the mounting, it can be easily removed.



Floor and plinth cable trunkings are packed into a brand package made of 5 mm thick corrugated card.



All accessories have an individual packaging labeled with a bar-code sticker and information simplifying the product's identification.

Range of on-floor and skirting cable channels and accessories

Description	Purpose	Package qty, pcs	Product ID	Description	Purpose	Package qty, pcs	Product ID
Adapter for on-floor cable channel 	For branching of on-floor cable channel from skirting cable channel	10 pcs.	CKK11D-A-080-020-K01	Butt junction piece 	For joint between two cable channels on straight surface	10 pcs.	CKK11D-S-080-020-K01
Adjustable external angle piece 	For joint between two cable channels at external angle 70° to 135°	10 pcs.	CKK11D-W-080-020-K01	T-shaped piece 	For T-joint between three cable channels	10 pcs.	CKK11D-T-080-020-K01
Adjustable internal angle piece 	For joint between two cable channels at internal angle 80° to 120°	10 pcs.	CKK11D-X-080-020-K01	Distribution box 	As branching device for on-floor cable channel or as terminal box	10 pcs.	CKK12D-K-070-016-K03
Blank 	Cover for end of cable channel	10 pcs.	CKK11D-Z-080-020-K01	Cable channel 80×20 skirting 	As skirting on border between wall and floor	28 m	CKK20-080-020-1-K01
Single-seat mounting box 	Placement of electrical installation devices with 60-mm mounting seat inside the box	5 pcs.	CKK11D-U-080-020-K01	Cable channel 70×16 on-floor * 	Covering of wiring going on the floor	42 m	CKK30-070-016-3-K03
Angle piece 90° 	For joint between two cable channels at 90° angle	10 pcs.	CKK11D-P-080-020-K01				

* Double-faced adhesive tape to be used for pre-fixing is not included.

“PRIMER” series parapet cable trunkings

“PRIMER” series parapet cable trunking system is intended for mounting all types of power and LV service lines including high quality fiber and data cables for organizing working places in offices, industrial and administrative buildings as well as medical and children institutions at new constructions or modernization.

“PRIMER” series system meets the requirements of EN 50085-1 ,EN 50085-2-1.



Advantages:

- Work place arrangement.
- Ensuring electric safety (additional electrical conduit insulation).
- Protection of the wiring system from mechanical damage.
- Exclusion of possible fires at short circuits.
- Limiting an unauthorized access to the conduits.
- Easy mounting at a new construction or restoration of buildings.
- Providing of immediate access to the wiring system in emergency.
- Possible fast modernization and updating the cabling system.

Technical Features:

Material

ductile, impact-resistant, self-extinguishing PVC resistant to ultraviolet exposure and corrosive chemical environment with low moisture permeability

Tensile strength

not less than 5 kgf/cm at -32°C

Operating temperature for long-term use

$-15 \div +60^{\circ}\text{C}$

Assembling temperature

$-15 \div +60^{\circ}\text{C}$

Transportation and storage temperature

$-25 \div +60^{\circ}\text{C}$

Electrical resistance

not less than $1 \times 10^9 \text{ Ohm} \times \text{cm}$ at $+20^{\circ}\text{C}$

Color

RAL 9010

Cover removal test

no additional tool is required; unauthorized access to the conducting parts is limited

Design Features



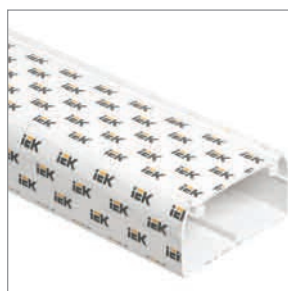
Adjustable angles allow balancing the wall roughness at mounting, while facilitating and improving the mounting and look of the installed cable trunking system.



Bright brand packaging made of single-faced corrugated board protects the trunking at transportation. Perforation on the sides allows opening the box at the horizontal storage without applying additional tools.



All IEK® wiring devices with a 45×45 mounting face have a side connection providing for saving place inside the trunking. It is not necessary to dismantle the device to connect the cabling.



All cable trunkings are protected with a pressure-sensitive film. It protects the trunking from soiling during the installation. After the mounting, it can be easily removed.



Cable trunkings provide for installation of dismountable baffles (limited to three) for dividing power and data cabling. Perforation on the cable trunking base allows reducing the installation time.



Information and telephone receptacles have gold-plated contacts. Contact assignment on the printed-circuit board helps to increase quality and service life.



Universal holder facilitates cable mounting when the cover is open.



The holder can be installed on both the baffle and the side panel.



2-module 45×45 box adapter provides for carrying out both external installation onto KMKU and internal one onto KM boxes.



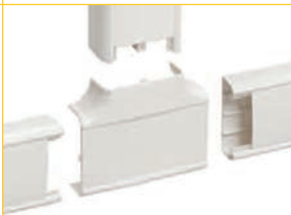
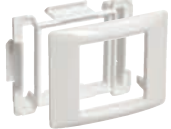
Universal frame can be mounted both on trunkings with 60 and 75 mm wide cover. One frame matches all sections.

“PRIMER” cable trunking range and accessories

Name	Purpose	Cable trunking size	Cross-section area of useful space for cables, mm ²	Q-ty in package	Weight, kg/m	Product ID	Способ монтажа
Parapet cable trunking 	For laying all cable types including data cables.	80×40	2600	24 m	0,835	CKK40-080-040-1-K01	
		100×40	3100	16 m	1,100	CKK40-100-040-1-K01	
		100×60	5100	12 m	1,250	CKK40-100-040-1-K01	
		120×55	1550 + 700	6 m	1,230	CKK40-120-055-1-K01	
		150×60*	7800	8 m	1,150	CKK40-150-060-1-K01	
Splitter baffle 	For dividing different cables inside the trunking.	150×60		60 m	0,250	CKK-40D-NP-150-060-K01	
		100×60		100 m	0,120	CKK-40D-P60-K01	
		100×40		160 m	0,160	CKK-40D-P40-K01	
		80×40		160 m	0,160	CKK-40D-P40-K01	
Cable trunking cover 	For mounting inside the cable trunking.	150×60		60 m	0,340	CKK-40D-KR125-K01	
		150×60**		120 m	0,200	CKK-40D-KR75-K01	
Plug 	For closing the end face.	150×60		5 pcs.		CKK-40D-Z-150-060-K01	
		120×55		10 pcs.		CKK-40D-Z-120-055-K01	
		100×60		12 pcs.		CKK-40D-Z-100-060-K01	
		100×40				CKK-40D-Z-100-040-K01	
		80×40				CKK-40D-Z-080-040-K01	
Configurable outer angle 	For joining two trunkings at an outer angle from 80 to 100°.	150×60		8 pcs.		CKK-40D-W-150-060-K01	
		120×55		2 pcs.		CKK-40D-W-120-055-K01	
		100×60		12 pcs.		CKK-40D-W-100-060-K01	
		100×40				CKK-40D-W-100-040-K01	
		80×40				CKK-40D-W-080-060-K01	
Configurable inner angle 	For connecting two trunkings at an inner angle from 80 to 100°.	150×60		8 pcs.		CKK-40D-X-150-060-K01	
		120×55		2 pcs.		CKK-40D-X-120-055-K01	
		100×60		12 pcs.		CKK-40D-X-100-060-K01	
		100×40				CKK-40D-X-100-040-K01	
		80×40				CKK-40D-X-080-040-K01	
Configurable plain angle 	For joining two trunkings on the flat surface at an angle from 80 to 100°.	150×60		5 pcs.		CKK-40D-P-150-060-K01	
		120×55		2 pcs.		CKK-40D-P-120-055-K01	
		100×60		12 pcs.		CKK-40D-P-100-060-K01	
		100×40				CKK-40D-P-100-040-K01	
		80×40				CKK-40D-P-080-060-K01	

* Cover is not included.

** Installed onto the baffle.

Name	Purpose	Cable trunking size	Q-ty in package, pcs.	Product ID	Installation method
T-type angle 	For T-type connection (branching) of three cable trunkings on the surface.	150×60	8	CKK-40D-T-150-060-K01	
		120×55	2	CKK-40D-T-120-055-K01	
		100×60	12	CKK-40D-T-100-060-K01	
		100×40	12	CKK-40D-T-100-040-K01	
		80×40	12	CKK-40D-T-080-040-K01	
Side junction connector 	For closing the partitioning from the sides when connecting cable trunkings on the symmetrical plane.	150×60	40	CKK-40D-SB60-K01	
		120×55	2	CKK-40D-S-120-055-K01	
		100×60	40	CKK-40D-SB60-K01	
		100×40	40	CKK-40D-SB40-K01	
		80×40	40	CKK-40D-SB40-K01	
Front junction connector 	For closing the cover partitioning when connecting cable trunkings on the symmetrical plane.	150×60	20	CKK-40D-SL125-K01	
		120×55	2	CKK-40D-S-120-055-K01	
		100×60	20	CKK-40D-SL75-K01	
		100×40	20	CKK-40D-SL75-K01	
		80×40	20	CKK-40D-SL60-K01	
Universal cable holder 	For fastening cable trunkings at the open cover.	100×60	50	CKK-40D-FU-K03	
		100×40	50	CKK-40D-FU-K03	
		80×40	50	CKK-40D-FU-K03	
Frame and support per 2 modules 45×45 	For mounting wiring devices with a 45×45 mounting face in parallel cable trunkings.	150×60*	10	CKK-40D-RU2-K01	
		100×60	10	CKK-40D-RU2-K01	
		100×40	10	CKK-40D-RU2-K01	
		80×40	10	CKK-40D-RU2-K01	
Frame and support per 4 modules 45×45 	For mounting wiring devices with a 45×45 mounting face in parallel cable trunkings.	150×60*	10	CKK-40D-RSU4-060-K01	
		100×60	10	CKK-40D-RSU4-075-K01	
		100×40	10	CKK-40D-RSU4-075-K01	
		80×40	10	CKK-40D-RSU4-060-K01	
Frame and support per 6 modules 45×45 	For mounting wiring devices with a 45×45 mounting face in parallel cable trunkings.	150×60*	10	CKK-40D-RSU6-060-K01	
		100×60	10	CKK-40D-RSU6-075-K01	
		100×40	10	CKK-40D-RSU6-075-K01	
		80×40	10	CKK-40D-RSU6-060-K01	
60 mm. wiring devices support 	For mounting wiring devices with a 60 mm mounting face in parallel cable trunkings.	100×60	20	CKK-40D-SE75-K01	
		100×40	20	CKK-40D-SE75-K01	

* Installed onto the baffle.

Name	Purpose	No. of modules	Q-ty in package, pcs.	Product ID	Installation method
Frame for boxes per 2 modules 45×45 	For mounting wiring devices with a 45×45 mounting face into KMKU and KM boxes.	2	10	CKK-40D-RK2-K01	
Support for boxes per 2 modules 45×45 	For mounting wiring devices with a 45×45 mounting face into KMKU and KM boxes.	2	10	CKK-40D-SK2-K01	
Frame and support for boxes per 2 modules 45×45 	For mounting wiring devices with a 45×45 mounting face.	2	10	CKK-40D-RSK2-K01	

Electrical installation items for PRIMER cable channels

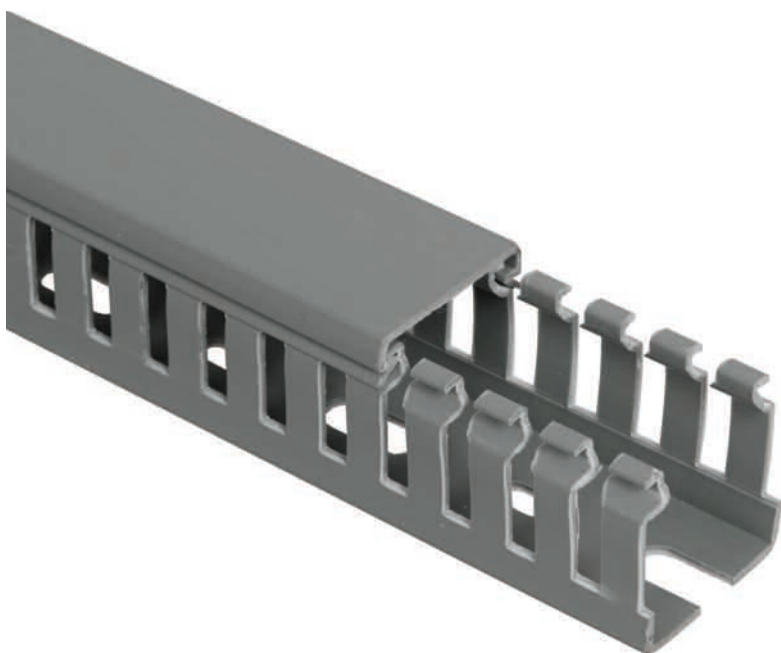
Description	Designation	Rated current, A	Number of modules	Package qty., pcs	Product ID
Single-button switch	VK0-21-00-P	10	2	10	CKK-40D-V02-K01
Single-button alternate switch	VK4-21-00-P	10	2	10	CKK-40D-P02-K01
					
Two-button switch	VK1-22-00-P	10	2	10	CKK-40D-VD2-K01
Two-button alternate switch	VK4-22-00-P	10	2	10	CKK-40D-PD2-K01
					
Socket without grounding contact (white)	RKS-20-20-P-K	10	2	10	CKK-40D-RSB2-K01-K
					
Socket without grounding contact (red)	RKS-20-22-P-K	10	2	10	CKK-40D-RSK2-K04-K
					

Name	Designation	Rated current, A	No. of modules	Q-ty in package, pcs.	Product ID
Socket with grounding contact (white) 	RKS-20-30-P-K	16	2	10	CKK-40D-RSZB2-K01-K
Socket with grounding contact (red) 	RKS-20-32-P-K	16	2	10	CKK-40D-RSZK2-K04-K
TV socket 	RKT-20-00-P		2	10	CKK-40D-TV1-K01
Data socket RJ-45 UTP cat. 5e 	RKI-10-00-P		1	10	CKK-40D-RI1-K01
Data socket RJ-45 UTP cat. 5e 	RKI-20-00-P		2	10	CKK-40D-RI2-K01
Telephone socket RJ-11 UTP cat. 3 	RKF-10-00-P		1	10	CKK-40D-RT1-K01
Telephone socket RJ-11 UTP cat. 3 	RKF-20-00-P		2	10	CKK-40D-RT2-K01
Blank for 1 module 	ZK-00-01-P		1	10	CKK-40D-Z01-K01

“IMPACT” series slotted cable trunkings

“IMPACT” series slotted cable trunkings are designed for organizing cable routing in electric distribution panels and providing aesthetic finish inside these panels.

These cable trunkings meet the requirements of EN 50085-1, EN 20085-2-3.



Advantages:

- Organizing cable routing inside the electric distribution panels.
- Protection of the wiring system from mechanical damage.
- Ensuring electric safety.
- Providing of immediate access to the wiring system in emergency.
- Possible fast modernization and updating the cabling system.
- Easy mounting at a new construction or restoration of buildings and premises.

Technical Features:

Material
ductile, self-extinguishing PVC

Fire resistance
In case of fire, the material prevents flame propagation, category PV-0, tested acc. to GOST R 53313

Durability
at least 5 kg/cm at -25°C

Tensile strength
not less than 5 kgf/cm at -25°C

Operating temperature for long-term use
 $-15 \div +60^{\circ}\text{C}$

Assembling temperature
 $-15 \div +60^{\circ}\text{C}$

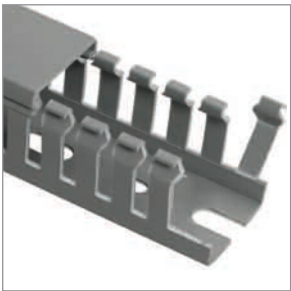
Transportation and storage temperature
 $-25 \div +60^{\circ}\text{C}$

Electrical resistance
not less than $1 \times 10^9 \text{ Ohm} \times \text{cm}$ at $+20^{\circ}\text{C}$

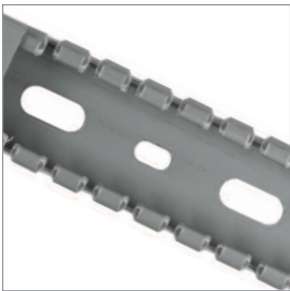
Color
RAL 7023

Cover removal test
no additional tool is required; unauthorized access to the conducting parts is limited

Design Features



All slotted cable trunkings of “IMPACT” series have a special notch at the catch base. Due to this notch, the lamina is easy to snap off evenly without making serrations on the trunking base. Such a solution provides for excluding damaging insulation when laying the cable.



All “IMPACT” cable trunking bases are supplemented with oval-type perforation increasing the amounting speed and fastening quality.



Slot interval coincides with that of terminal clamps on the modular equipment that helps to prevent an electric terminal from being imposed on the catch. Thus, the installation time is reduced.



Fire risk is limited to the minimum as the trunkings are made of non-flammable materials.

Range

Name	Dimensions W×H, mm	Catch width, mm	Perforation width, mm	Q-ty in package, m	Product ID
“IMPACT” slotted cable trunking 25×25	25×25	6	4	100	CKM50-025-025-1-K03
“IMPACT” slotted cable trunking 25×40	25×40	6	4	60	CKM50-025-040-1-K03
“IMPACT” slotted cable trunking 25×60	25×60	6	4	48	CKM50-025-060-1-K03
“IMPACT” slotted cable trunking 40×40	40×40	6	4	36	CKM50-040-040-1-K03
“IMPACT” slotted cable trunking 40×60	40×60	6	4	24	CKM50-040-060-1-K03
“IMPACT” slotted cable trunking 60×40	60×40	6	4	24	CKM50-060-040-1-K03
“IMPACT” slotted cable trunking 60×60	60×60	6	4	16	CKM50-060-060-1-K03
“IMPACT” slotted cable trunking 80×60	80×60	6	4	16	CKM50-080-060-1-K03
“IMPACT” slotted cable trunking 100×60	100×60	6	4	12	CKM50-100-060-1-K03

Plastic Pipes

Rigid plain PVC pipes

Plain pipes are used for laying power and low-current open-type lines both inside and outside constructions and buildings. Wide accessory range allows applying them under any conditions (IP40, 65, 67). Rigid plain PVC pipes correspond to the manufacturer's documentation requirements.



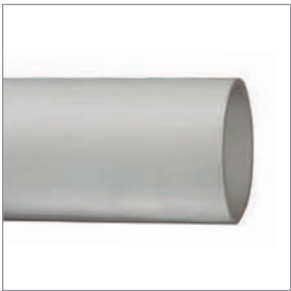
Advantages

- Excluding fires at short circuits.
- Additional protection of the wiring system from mechanical damage.
- Wide range provides for solving the most complicated mounting tasks.
- High dust- and dump-proofness.

Technical Features

Material	Self-extinguishing PVC composition
Protection degree	IP65
Tensile strength	over 350 N/5 cm at 20 °C
Ambient temperature for long-term use	–15÷+60 °C
Assembling temperature	–10÷+60 °C
Storage and transportation temperature	–25÷+60 °C
Electrical resistance	not less than 100 Mohm (500 V within 1 min)
Flame resistance	non-flammable
Color	gray RAL 7035

Design Features



Manufactured as a piece of pipe with plain internal surface and external shell made of self-extinguishing PVC.



Wide range provides for executing mounting for any object types.



Plain inner surface of this pipe ensures convenient internal cabling without using any additional accessories.



End face of the group package is protected with a layer of triplex board ensuring additional coverage at horizontal storage. Additional fixation with a strapping band in four places provides for the package consistency.



High dust- and dump-proofness.

Range

	Length, m	Outside diameter, mm	Inside diameter, mm	Color	Q-ty in package, m	Product ID
	3	16	14,5	RAL 7035	111	CTR10-016-K41-111I
	3	20	18,2	RAL 7035	93	CTR10-020-K41-093I
	3	25	23,0	RAL 7035	60	CTR10-025-K41-060I
	3	32	29,8	RAL 7035	30	CTR10-032-K41-030I
	3	40	37,5	RAL 7035	24	CTR10-040-K41-024I
	3	50	46,9	RAL 7035	15	CTR10-050-K41-015I
	3	63	56,5	RAL 7035	15	CTR10-063-K41-015I
	2	16	14,5	RAL 7035	74	CTR10-016-K41-074I-D2
	2	20	18,2	RAL 7035	62	CTR10-020-K41-062I-D2
	2	25	23,0	RAL 7035	40	CTR10-025-K41-040I-D2
	2	32	29,8	RAL 7035	20	CTR10-032-K41-020I-D2
	2	40	37,5	RAL 7035	16	CTR10-040-K41-016I-D2
	2	50	46,9	RAL 7035	10	CTR10-050-K41-010I-D2
	2	63	56,5	RAL 7035	10	CTR10-063-K41-010I-D2

Corrugated PVC pipes

Corrugated pipes are used for laying power and low-current underplaster lines inside constructions and buildings. Owing to the pipe flexibility, cabling is carried out at minimum labor costs and practically does not require any additional accessories.



**Made in
Russia**

Advantages

- Excluding fires at short circuits.
- Additional protection of the wiring system from mechanical damage.
- Pipe material serves as perfect electric insulator.
- Pipe flexibility ensures fast and convenient mounting using minimum accessories.
- Cabling procedure is facilitated by the presence of a broach tool.

Technical Features

Material	Self-extinguishing PVC composition
Protection degree	IP55
Tensile strength	over 350 N/5 cm at 20 °C
Ambient temperature for long-term use	–15 ÷ +60 °C
Assembling temperature	–10 ÷ +60 °C
Storage and transportation temperature	–25 ÷ +60 °C
Electrical resistance	not less than 100 Mohm (500 V within 1 min)
Flame resistance	non-flammable
Color	gray RAL 7035

Design Features



Manufactured as a flexible corrugated pipe made of self-extinguishing PVC.



Owing to the pipe flexibility, it can be mounted without using additional accessories (bends).



Metal broach tool throughout the full pipe length facilitates the post-mounting cabling.



Corrugated pipe packaging represents a bundle enclosed into pressure-tight shrinkable film ensuring damp and dust protection.



Packed corrugated pipe is lightweight and can be easily loaded manually.

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Range



Name	Outside diameter, mm	Inside diameter, mm	Q-ty in package, m	Product ID
Corrugated PVC pipe with pull wire	16	10,7	100	CTG20-16-K41-100I
	16	10,7	50	CTG20-16-K41-050I
	16	10,7	25	CTG20-16-K41-025I
	16	10,7	10	CTG20-16-K41-010I
	20	14,1	100	CTG20-20-K41-100I
	20	14,1	50	CTG20-20-K41-050I
	20	14,1	25	CTG20-20-K41-025I
	20	14,1	10	CTG20-20-K41-010I
	25	18,3	50	CTG20-25-K41-050I
	25	18,3	25	CTG20-25-K41-025I
	25	18,3	15	CTG20-25-K41-015I
	25	18,3	10	CTG20-25-K41-010I
	32	24,3	25	CTG20-32-K41-025I
	32	24,3	10	CTG20-32-K41-010I
	40	31,2	15	CTG20-40-K41-015I
	50	39,6	15	CTG20-50-K41-015I
	62	50,6	15	CTG20-63-K41-015I

Pipe Fittings

Name	Description	Outside diameter (pipe), mm	Package amount, pcs.	Product ID
CA locking clip 	Purpose: for pipe fastening. Clip construction provides for interconnecting several clips.	16	100	CTA10D-CF-16-K41-100
		20	100	CTA10D-CF-20-K41-100
	Material: ABS Color: RAL 7035	25	50	CTA10D-CF-25-K41-050
		32	40	CTA10D-CF-32-K41-040
		40	30	CTA10D-CF-40-K41-030
		50	25	CTA10D-CF-50-K41-025
Locking clip with CT screw anchor 	Purpose: for pipe fastening. Clip package already includes a screw anchor with a self-drilling screw.	16	100	CTA10D-CT-16-K41-100
		20	100	CTA10D-CT-20-K41-100
	Material: PVC Color: RAL 7035	25	100	CTA10D-CT-25-K41-100
		32	50	CTA10D-CT-32-K41-050
CFC strap bracket 	Purpose: for pipe fastening. Pipe is securely fastened due to the latch. Construction provides for interconnecting several brackets.	16	100	CTA10D-CFC-16-K41-100
		20	100	CTA10D-CFC-20-K41-100
		25	100	CTA10D-CFC-25-K41-100
	Material: ABS Color: RAL 7035	32	50	CTA10D-CFC-32-K41-050
Strap bracket with a CFF buckle 	Purpose: for pipe fastening. Fits for various pipe diameters due to the buckle.	16–32	100	CTA10D-CFF1-32-K41-100
		32–63	50	CTA10D-CFF2-63-K41-050
	Length: 205 mm Material: PVC Color: RAL 7035			

Pipe Fittings (IP40)

For indoor use and in paces protected from moisture.

Name	Description	Outside diameter (pipe), mm	Package amount, pcs.	Product ID
GIG pipe-to-pipe connector 	Purpose: for straight connection of rigid plain pipes having equal diameter. There is a stop in the middle of connector from the inside.	16	100	CTA10D-GIG16-K41-100
		20	100	CTA10D-GIG20-K41-100
		25	50	CTA10D-GIG25-K41-050
	Material: PVC	32	25	CTA10D-GIG32-K41-025
	Color: RAL 7035	40	20	CTA10D-GIG40-K41-020
	Flammability: self-extinguishing	50	20	CTA10D-GIG50-K41-020
90° bend CRSG pipe-to-pipe connector 	Purpose: for connecting rigid plain pipes of equal diameter at an angle of 90°.	16	50	CTA10D-CRSG16-K41-050
		20	50	CTA10D-CRSG20-K41-050
		25	25	CTA10D-CRSG25-K41-025
	Material: PVC	32	25	CTA10D-CRSG32-K41-025
	Color: RAL 7035	40	15	CTA10D-CRSG40-K41-015
	Flammability: self-extinguishing	50	10	CTA10D-CRSG50-K41-010
90° bend opening CIG pipe-to-pipe connector 	Purpose: for connecting rigid plain pipes of equal diameter at an angle of 90°. Consists of two equal parts connected one to another by latching.	16	50	CTA10D-CIG16-K41-050
		20	50	CTA10D-CIG20-K41-050
		25	50	CTA10D-CIG25-K41-050
	Material: PVC	32	25	CTA10D-CIG32-K41-025
	Color: RAL 7035			
TIG opening T-connector 	Purpose: for T-connection of rigid plain pipes. Consists of two equal parts connected one to another by latching.	16	50	CTA10D-TIG16-K41-050
		20	50	CTA10D-TIG20-K41-050
		25	25	CTA10D-TIG25-K41-025
	Material: PVC	32	20	CTA10D-TIG32-K41-020
	Color: RAL 7035			
GFLEX transparent rigid pipe connector 	Purpose: for straight connection of rigid plain pipes having equal diameter.	16	100	CTA10D-GFLEX16-K08-100
		20	100	CTA10D-GFLEX20-K08-100
		25	50	CTA10D-GFLEX25-K08-050
	Material: PPR	32	25	CTA10D-GFLEX32-K08-025
	Color: transparent	40	20	CTA10D-GFLEX40-K08-020
	Flammability: self-extinguishing	50	20	CTA10D-GFLEX50-K08-020

Pipe Fittings (IP65)

For using in damp and dusty premises. Possible outdoor application.
Protected from moisture ingress when being exposed to a strong water spray.

Name	Description	Outside diameter (pipe), mm	Package amount, pcs.	Product ID
 IP65 MS pipe-to-pipe connector	Purpose: for straight connection of rigid plain pipes having equal diameter.	16	50	CTA10D-MS16-K41-050
		20	50	CTA10D-MS20-K41-050
	Material: PVC	25	50	CTA10D-MS25-K41-050
		32	25	CTA10D-MS32-K41-025
	Color: RAL 7035	40	25	CTA10D-MS40-K41-020
		50	10	CTA10D-MS50-K41-010
 IP65 CXT flexible pipe-to-pipe connector	Purpose: for connecting rigid plain pipes of equal diameter at various angles.	16	50	CTA10D-CXT16-K41-050
		20	50	CTA10D-CXT20-K41-050
	Material: PVC	25	50	CTA10D-CXT25-K41-050
		32	25	CTA10D-CXT32-K41-025
	Color: RAL 7035	40	25	CTA10D-CXT40-K41-025
		50	15	CTA10D-CXT50-K41-015
 IP65 CS 90° bend pipe-to-pipe connector	Purpose: for connecting rigid plain pipes of equal diameter at an angle of 90°.	16	50	CTA10D-CS16-K41-050
		20	50	CTA10D-CS20-K41-050
	Material: PVC	25	25	CTA10D-CS25-K41-025
		32	25	CTA10D-CS32-K41-025
	Color: RAL 7035	40	15	CTA10D-CS40-K41-015
		50	10	CTA10D-CS50-K41-010

Name	Description	Outside diameter (pipe), mm	Inside diameter (box), mm	Package amount, pcs.	Product ID
 IP65 BS pipe-to-box connector	Purpose: for pipe-to-box connection.	16	16–18	50	CTA10D-BS16-K41-050
		20	20–22	50	CTA10D-BS20-K41-050
	Material: PVC	25	25–28	50	CTA10D-BS25-K41-050
		32	32–35	25	CTA10D-BS32-K41-025
	Color: RAL 7035	40	40–44	25	CTA10D-BS40-K41-025
		50	50–54	15	CTA10D-BS50-K41-015
 IP65 CXS flexible pipe-to-box connector	Purpose: for connecting pipes with a box at various angles both in one and several plains.	16	16–18	50	CTA10D-CXS16-K41-050
		20	20–22	50	CTA10D-CXS20-K41-050
	Material: PVC	25	25–28	50	CTA10D-CXS25-K41-050
		32	32–35	25	CTA10D-CXS32-K41-025
	Color: RAL 7035	40	40–44	25	CTA10D-CXS40-K41-025
		50	50–54	15	CTA10D-CXS50-K41-015

Name	Description	Outside diameter (pipe), mm	Inside diameter (reinforced pipe), mm	Package amount, pcs.	Product ID
IP65 GS reinforced pipe-to-pipe connector 	Purpose: for fast connection of flexible reinforced and plain rigid pipes of different diameter.	16	12	50	CTA10D-GS16-K41-050
		20	16	50	CTA10D-GS20-K41-050
	Material: PVC	25	20	50	CTA10D-GS25-K41-050
	Color: RAL 7035	32	25	25	CTA10D-GS32-K41-025
	Flammability: self-extinguishing	40	32	20	CTA10D-GS40-K41-020
		50	40	15	CTA10D-GS50-K41-015
IP65 GS pipe-to- reinforced pipe connector 	Purpose: for fast connection of flexible reinforced and plain rigid pipes of different diameter.	16	16	50	CTA10D-GA16-K41-050
		20	20	50	CTA10D-GA20-K41-050
	Material: PVC	25	25	25	CTA10D-GA25-K41-025
	Color: RAL 7035	32	32	20	CTA10D-GA32-K41-020
	Flammability: self-extinguishing	40	40	15	CTA10D-GA40-K41-015
		50	50	10	CTA10D-GA50-K41-010
Name	Description	Inside diameter (reinforced pipe), mm	Thread (in)	Package amount, pcs.	Product ID
IP65 GX reinforced pipe-to-box connector 	Purpose: for connecting reinforced pipes with a box.	10	1/4	25	CTA10D-GX10-K41-025
		12	3/8	25	CTA10D-GX12-K41-025
	Material: PVC	14	1/2	25	CTA10D-GX14-K41-025
	Color: RAL 7035	16	1/2	25	CTA10D-GX16-K41-025
	Flammability: self-extinguishing	20	3/4	25	CTA10D-GX20-K41-025
		22	3/4	25	CTA10D-GX22-K41-025
		25	1	10	CTA10D-GX25-K41-010
		28	1	10	CTA10D-GX28-K41-010
		32	1, 1/4	10	CTA10D-GX32-K41-010
		35	1, 1/4	10	CTA10D-GX35-K41-010
		40	1, 1/4	10	CTA10D-GX40-K41-010
		50	2	10	CTA10D-GX50-K41-010

Corrugated HDPE pipes

Corrugated HDPE (high-density polyethylene) light-type pipes are intended for laying data power and low-current power supply utilities of underplaster (within trenches and floor cement screeds) type in offices and residential premises, industrial and administrative buildings, medical and children institutions when performing new construction or reconstruction works.



Made in
Russia

Advantages

- High flexibility and moldability.
- Cabling procedure is facilitated by the presence of a broach tool.
- High UV resistance.
- Can be used for concrete flushing.
- Pipe material serves as perfect electric insulator.

Technical Features

Material	high-density polyethylene
Protection degree	IP55 acc. to GOST 14254
Climatic version	UHL0 acc. to GOST 15150
Ambient temperature for long-term use	–45 ÷ +90 °C
Assembling temperature	–25 ÷ +90 °C
Storage and transportation temperature	–45 ÷ +90 °C
Tensile strength	over 350 N/5 cm at 20 °C
Insulation resistance	not less than 100 Mohm (500V within 1 min)

Design Features



High structural capabilities provide for using these pipes not only for concrete flushing but also for ground laying.



High UV and moisture resistance.



Allows bending the pipe up to the minimum radius equal to 3 applied pipe diameters.



Wide operating temperature range: from -40 to +90 °C.

Range

	Name	Outside diameter, mm	Color	Q-ty in package, m	Product ID
	Corrugated HDPE pipe with a broach tool	16	RAL 9011	100	CTG20-16-K02-100-1
		20	RAL 9011	100	CTG20-20-K02-100-1
		25	RAL 9011	50	CTG20-25-K02-050-1
		32	RAL 9011	25	CTG20-32-K02-025-1
		40	RAL 9011	15	CTG20-40-K02-015-1
		50	RAL 9011	15	CTG20-50-K02-015-1
		63	RAL 9011	15	CTG20-63-K02-015-1

Electrical conduit pipes

Technical smooth pipes from low-pressure polyethylene

Designed for use in housing and communal services, power supply, telecommunications and, in some cases, for water sewage systems. They are used in construction for embedding in concrete, installation of wiring in cement coverings and brickwork, as well as for underground lines. Their usage includes insulation and protection of power cables, data and signal lines, communication lines from mechanical and chemical damage, corrosive factors of environment.



Advantages

- Endurance (over 50 years) and high durability.
- Technical smooth pipe IEK® from low-pressure polyethylene combines flexibility of corrugated pipe and smoothness of rigid PVC pipe.
- The range of LP PE technical pipes includes the pipe of heavy series featured by high strength performances and ability to withstand increased loads.

Technical characteristics

Material	low-pressure polyethylene
Degree of protection	IP55
Durability at 5 cm, at least	
– light series	250 N
– heavy series	450 N
Dielectric strength, at least	2000 V
Insulation resistance, at least	100 MOhm
	(500 V for 1 min)
Color	black (RAL 9005)
Life time	50 years

Two-wall pipes from low-pressure polyethylene

Designed for protection of power cables, data and signal lines, communication lines from mechanical damage and corrosive factors of environment.

They are used in construction for underground lines, in transport infrastructure during road construction, for housing and communal services, power supply, telecommunications and, in some cases, for water sewage systems.



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Advantages

- Two-wall LP PE pipe is featured by increased rigidity, 33 kPa, a unique value for Russian market.
- The range of LP PE pipes includes diameter 40 mm, which rarely can be found among other manufacturers.
- The range of products is represented by pipes of external diameter 40, 50, 63 and 110 mm.
- Available accessories: unions and plugs of appropriate sizes.

Technical characteristics

Material	
– external wall	low-pressure polyethylene
– internal wall	high pressure polyethylene
Degree of protection	IP55
Durability at 5 cm, at least	450 N
Dielectric strength, at least	2000 V
Insulation resistance, at least	100 MOhm
Color	red, blue
Life time	50 years

Underground dismountable pipes

Designed for mechanical protection of power and telecommunication cables of all types. The pipes are featured by endurance, convenient installation and easy repair. They are used as equivalents of conventional asbestos/cement pipes.



Advantages

- Endurance, convenient installation and easy repair.
- Robust dismountable connection of cover and case.
- Moisture resistance.
- Environmentally safe, complete recycling is possible.

Technical characteristics

Material	low-pressure polyethylene
Degree of protection	IP55
Operating temperature range	from -40°C to +75°C
Fire resistance	PV-0 acc. to GOST 28157
Color	red (RAL 3002)
Life time	30 years

Products' range

	Description	Diameter, mm	Wall thickness, mm	Coil length, m	Product ID	
	Smooth rigid pipe LP PE d16	16	2	100	CTR10-016-K02-100-1	
	Smooth rigid pipe LP PE d16	16	2	200	CTR10-016-K02-200-1	
	Smooth rigid pipe LP PE d20	20	2	100	CTR10-020-K02-100-1	
	Smooth rigid pipe LP PE d20	20	2	200	CTR10-020-K02-200-1	
	Smooth rigid pipe LP PE d25	25	2	100	CTR10-025-K02-100-1	
	Smooth rigid pipe LP PE d25	25	2	200	CTR10-025-K02-200-1	
	Smooth rigid pipe LP PE d32	32	2	100	CTR10-032-K02-100-1	
	Smooth rigid pipe LP PE d40	40	2,4	100	CTR10-040-K02-100-1	
	Smooth rigid pipe LP PE d50	50	3	100	CTR10-050-K02-100-1	
	Smooth rigid pipe LP PE d63	63	3,6	100	CTR10-063-K02-100-1	
	Description	Pipe diameter, mm	Circular rigidity, kPa	Coil length, m	Color	Product ID
	Two-wall corrugated pipe LP/HP PE d40	40	13	50	red	CTG12-040-K04-050
	Two-wall corrugated pipe LP/HP PE d40	40	13	50	blue	CTG12-040-K07-050
	Two-wall corrugated pipe LP/HP PE d50	50	13	50	red	CTG12-050-K04-050
	Two-wall corrugated pipe LP/HP PE d50	50	13	50	blue	CTG12-050-K07-050
	Two-wall corrugated pipe LP/HP PE d63	63	13	100	red	CTG12-063-K04-100
	Two-wall corrugated pipe LP/HP PE d63	63	13	50	red	CTG12-063-K04-050
	Two-wall corrugated pipe LP/HP PE d63 w/o pull wire	63	13	100	red	CTG12-063-K04-100-01
	Two-wall corrugated pipe LP/HP PE d75	75	10	50	red	CTG12-075-K04-050
	Two-wall corrugated pipe LP/HP PE d90	90	8	100	red	CTG12-090-K04-100
	Two-wall corrugated pipe LP/HP PE d90	90	8	50	red	CTG12-090-K04-050
	Two-wall corrugated pipe LP/HP PE d110	110	8	50	red	CTG12-110-K04-050
	8-position cluster for two-wall pipe d110, separable 2/4/6	110				CTA12D-K110-K02
	Union for two-wall pipe d40	40				CTA12D-M040-K02
	Union for two-wall pipe d50	50				CTA12D-M050-K02
	Union for two-wall pipe d63	63				CTA12D-M063-K02
	Union for two-wall pipe d110	110				CTA12D-M110-K02
	Plug for two-wall pipe d110	63				CTA12D-Z110-K02
	Plug for two-wall pipe d63	110				CTA12D-Z063-K02
	Description	Pipe external diameter, mm	Pipe internal diameter, mm	Length, m	Degree of mechanical stability, N	Product ID
	Underground dismountable pipe d110 (3 m)	110±0,4	100±0,4	3000±30	450	CTR30-110-K05-3
	Underground dismountable pipe d160 (3 m)	160±0,5	138±0,4	3000±30	750	CTR30-160-K05-3

RZ-CH RZ-TSP metal hose

They are also sometimes used for conveying loose, large particle materials in industrial plants. The flexible metal conduit in PVC insulation (RZ-TSP) is designed for safeguarding and protection of cables, wires, flexible hoses, etc. from mechanical and chemical damage, effects of moisture and sunlight. The conduit in PVC insulation can be used for both surface and hidden installation, indoors and outdoors.

Area of application:

- Air-condition, heating, ventilation systems
- lifting and handling equipment
- oil and gas processing industry
- channels, tunnels, trenches



Advantages

- Water- and dust-tight.
- Resistant to harmful effects of environment.
- Increased rupture strength.
- Tightness of assembled cable line.
- Electrical shock protection.

Technical Features

Material:	galvanized steel band
Sealing:	cotton or flexible PVC
Degree of protection:	IP40 for RZ-TSH and IP65 for RZ-TSP
Item type:	RZ-TSH – untight; RZ-TSP – leaktight
Installation temperature for RZ-TSP:	from –5°C to +60°C
Operating temperature range for RZ-TSH:	from –25°C to +60°C
Specification:	TU 488-001-12016868-2002 for RZ-TSP TU 4833-001-57393508-2007 for RZ-TSH

Design features



Made as flexible pipe from metal galvanized band.



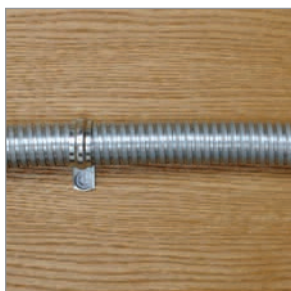
Because of its design, the conduit can withstand high breaking stresses and strong bending.



Cotton sealing ensures protection of wiring against dust.



The conduit is packaged in coils, convenient for field installation.



Due to use of noncombustible material for flexible metal conduit, it can be used for installation of wiring on combustible surfaces.



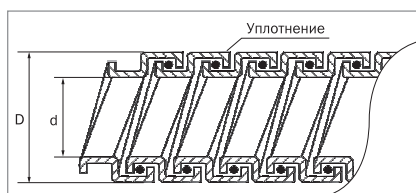
The packaged conduit is convenient for storage and transport. Full package surface is protected against moisture and dust by stretch wrap.

5

Structure of designation

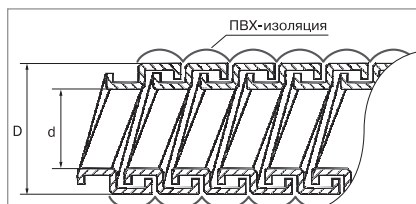
Flexible metal conduit **RZ-TSH 10**

R: conduit
Z: type: untight
TS: material: galvanized steel band
H: sealing: cotton
10, ... 50: internal nominal diameter (mm)



Flexible metal conduit **RZ-TSP-10**

R: conduit
Z: type: untight
TS: material: galvanized steel band
P: sealing: PVC
10: internal nominal diameter (mm)



Range

	Inside diameter, mm	Max. outside diameter, D mm	Max. inside diameter, d mm	Min. bending radius, mm	Tensile stress, kg	One running meter weight, kg	Bundle q-ty, m	Product ID
	10	13,9	9,1	55	45	0,095	100	CM10-10-100
	10	13,9	9,1	55	45	0,095	20	CM10-10-020
	12	15,9	10,9	75	70	0,115	100	CM10-12-100
	12	15,9	10,9	75	70	0,115	20	CM10-12-020
	15	18,9	14,9	75	80	0,155	100	CM10-15-100
	15	18,9	14,9	75	80	0,155	20	CM10-15-020
	18	21,9	16,9	90	85	0,175	50	CM10-18-050
	18	21,9	16,9	90	85	0,175	15	CM10-18-015
	20	24	18,7	90	100	0,22	50	CM10-20-050
	20	24	18,7	90	100	0,22	15	CM10-20-015
	22	26	20,7	110	100	0,23	50	CM10-22-050
	22	26	20,7	110	100	0,23	15	CM10-22-015
	25	30,8	23,7	110	110	0,24	50	CM10-25-050
	25	30,8	23,7	110	110	0,24	15	CM10-25-015
	32	38	30,4	150	130	0,425	25	CM10-32-025
	38	44	36,4	180	150	0,485	25	CM10-38-025
	50	58,7	46,5	245	250	0,65	15	CM10-50-015
	10	15,5	9,1	85	27	0,188	50	CMP10-10-050
	12	17,6	10,9	117	42	0,221	50	CMP10-12-050
	15	20,6	13,9	130	48	0,269	50	CMP10-15-050
	18	23,6	16,9	130	51	0,289	50	CMP10-18-050
	20	25,7	18,7	130	60	0,326	50	CMP10-20-050
	22	27,8	20,7	170	60	0,367	20	CMP10-22-020
	25	32,7	23,7	170	66	0,414	20	CMP10-25-020
	32	40	30,4	325	78	0,656	20	CMP10-32-020
	38	46	36,4	325	90	0,756	20	CMP10-38-020
	50	61,1	46,5	325	150	0,865	20	CMP10-50-020

Metal hose fittings

Name	Description	Inside clamp diameter, mm	Mount hole size, mm	For fastening metal hose with inside diameter,	Package amount, pcs.	Product ID
One hole metal clamp IEK d10-11mm  	Purpose: for surface fastening of the metal hose.	10–11	12×6	6	100	CMA10-10-100
		12–13	14×7	8	100	CMA10-12-100
	Material: galvanized steel	14–15	12×6	10	100	CMA10-14-100
		16–17	12×6	12	100	CMA10-16-100
	Color: white	19–20	12×6	15	100	CMA10-19-100
		21–22	12×6	18	100	CMA10-21-100
		25–26	12×6	20; 22	100	CMA10-25-100
		31–32	13×6	25	100	CMA10-31-100
		38–40	13×6	32	100	CMA10-38-100
		48–50	13×6	38	50	CMA10-48-050
		10-11	7×4	6	100	CMAT10-10-100
		12-13	7×4	8	100	CMAT10-12-100
		14-15	7×4	10	100	CMAT10-14-100
		16-17	7×4	12	100	CMAT10-16-100
		19-20	7×4	15	100	CMAT10-19-100
		21-22	7×4	18	100	CMAT10-21-100
		25-26	7×4	20; 22	100	CMAT10-25-100
		31-32	9×6	25	50	CMAT10-31-100
		38-40	9×6	32	50	CMAT10-38-100
		48-50	9×6	38	50	CMAT10-48-050
Two hole metal clamp IEK d10-11mm  	Purpose: for secured surface fastening of the metal hose.	10–11	Ø5	6	100	CMA11-10-100
		12–13	Ø5	8	100	CMA11-12-100
	Material: galvanized steel	16–17	5×6,5	12	100	CMA11-16-100
		19–20	5×6,5	15	100	CMA11-19-100
	Color: white	21–22	6,5×8,5	18	100	CMA11-21-100
		25–26	6,5×8,5	20; 22	100	CMA11-25-100
		31–32	6,5×10	25	100	CMA11-31-100
		38–40	6,5×10	32	100	CMA11-38-100
		48–50	6,5×10	38	50	CMA11-48-050
		10-11	7×4	6	100	CMAT11-10-100
		12-13	7×4	8	100	CMAT11-12-100
		16-17	7×4	12	100	CMAT11-16-100
		19-20	7×4	15	100	CMAT11-19-100
		21-22	7×4	18	100	CMAT11-21-100
		25-26	7×4	20; 22	100	CMAT11-25-100
		31-32	9×6	25	50	CMAT11-31-100
		38-40	9×6	32	50	CMAT11-38-100
		48-50	9×6	38	50	CMAT11-48-050
Two component metal clamp IEK d10-11mm 	Purpose: for secured surface fastening of the metal hose.	10–11	Ø6	6	100	CMA12-10-100
		12–13	Ø6	8	100	CMA12-12-100
	Material: galvanized steel	14–15	Ø6	10	100	CMA12-14-100
		16–17	Ø6	12	100	CMA12-16-100
	Color: white	19–20	Ø6	15	100	CMA12-19-100
		21–22	Ø6	18	100	CMA12-21-100
		25–26	Ø6	20; 22	100	CMA12-25-100
		31–32	Ø6	25	100	CMA12-31-100
		38–40	Ø6	32	100	CMA12-38-100
		48–50	Ø6	38	50	CMA12-48-050

Electrical steel and aluminum conduit pipes

Electrical steel conduit pipes are designed for installation of data, power and low-voltage electrical lines of surface-mounted and hidden types in office and residential rooms, industrial and administrative buildings during construction and renovation.



Advantages:

- Additional wiring protection against mechanical damage.
- High degree of moisture and dust protection.
- Convenient installation.
- High corrosion resistance.
- High strength to compression.
- High shock resistance.

Technical characteristics:

Material:	hot-dip galvanized steel; aluminum
Pipe type:	threaded not threaded
Operating temperature, °C:	–5...+60
Maximum limit temperature, °C	+250
Minimum limit temperature, °C	–60
Shock resistance:	high: 6 J
Strength to compression:	1250 N/ 5 cm

Products' range

Description	Length, mm	External diameter, mm	Internal diameter, mm	Thread	Package net weight, kg	Length in group package, m	Product ID
HDZ* steel not threaded pipes							
Steel not threaded pipe d16 mm	3000	16	14		11,70	30	CTR11-HDZ-NN-016-3
Steel not threaded pipe d20 mm	3000	20	18		14,70	30	CTR11-HDZ-NN-020-3
Steel not threaded pipe d25 mm	3000	25	22,6		22,26	30	CTR11-HDZ-NN-025-3
Steel not threaded pipe d32 mm	3000	32	29,6		20,20	21	CTR11-HDZ-NN-032-3
Steel not threaded pipe d40 mm	3000	40	37,6		18,15	15	CTR11-HDZ-NN-040-3
Steel not threaded pipe d50 mm	3000	50	47,6		22,80	15	CTR11-HDZ-NN-050-3
Steel not threaded pipe d63 mm	3000	63	60,6		28,95	15	CTR11-HDZ-NN-063-3
HDZ steel threaded pipes							
Steel threaded pipe d16 mm	3000	16	12,6	M16×1,5	15,30	30	CTR11-HDZ-N-016-3
Steel threaded pipe d20 mm	3000	20	16,2	M20×1,5	22,50	30	CTR11-HDZ-N-020-3
Steel threaded pipe d25 mm	3000	25	21,2	M25×1,5	30,00	30	CTR11-HDZ-N-025-3
Steel threaded pipe d32 mm	3000	32	28,2	M32×1,5	26,65	21	CTR11-HDZ-N-032-3
Steel threaded pipe d40 mm	3000	40	36,2	M40×1,5	24,70	15	CTR11-HDZ-N-040-3
Steel threaded pipe d50 mm	3000	50	46,2	M50×1,5	30,20	15	CTR11-HDZ-N-050-3
Steel threaded pipe d63 mm	3000	63	58,8	M63×1,5	42,40	15	CTR11-HDZ-N-063-3
Aluminum pipes							
Aluminum pipe d16 mm	3000	16	14		2,90	30	CTR11-AL-016-3
Aluminum pipe d20 mm	3000	20	18		3,85	30	CTR11-AL-020-3
Aluminum pipe d25 mm	3000	25	23		4,90	30	CTR11-AL-025-3
Aluminum pipe d32 mm	3000	32	30		7,30	30	CTR11-AL-032-3
Aluminum pipe d40 mm	3000	40	38		5,10	15	CTR11-AL-040-3
Aluminum pipe d50 mm	3000	50	47		6,50	15	CTR11-AL-050-3
Aluminum pipe d63 mm	3000	63	59,8		10,60	15	CTR11-AL-063-3

Accessories for pipes

	External diameter, mm	Package net weight, kg	Package qty, pcs.	Product ID
Galvanized steel not threaded union				
	16	1,20	25	CTA11-M-HDZ-NN-016
	20	2,50	50	CTA11-M-HDZ-NN-020
	25	3,00	50	CTA11-M-HDZ-NN-025
	32	3,50	50	CTA11-M-HDZ-NN-032
	40	2,00	25	CTA11-M-HDZ-NN-040
	50	1,00	10	CTA11-M-HDZ-NN-050
	63	0,60	5	CTA11-M-HDZ-NN-063
Aluminum not threaded union				
	16	0,20	50	CTA11-M-AL-NN-016
	20	0,30	50	CTA11-M-AL-NN-020
	25	0,70	50	CTA11-M-AL-NN-025
	32	1,20	50	CTA11-M-AL-NN-032
	40	0,70	25	CTA11-M-AL-NN-040
	50	1,20	25	CTA11-M-AL-NN-050
	63	1,70	25	CTA11-M-AL-NN-063
Hot-dip galvanized metal not threaded elbow				
	16	3,15	15	CTA11-P-HDZ-NN-016
	20	6,75	25	CTA11-P-HDZ-NN-020
	25	8,75	25	CTA11-P-HDZ-NN-025
	32	9,80	20	CTA11-P-HDZ-NN-032
	40	8,25	15	CTA11-P-HDZ-NN-040
	50	3,45	5	CTA11-P-HDZ-NN-050
	63	2,34	3	CTA11-P-HDZ-NN-063
Aluminum not threaded elbow				
	16	0,60	25	CTA11-P-AL-NN-016
	20	1,10	25	CTA11-P-AL-NN-020
	25	1,70	25	CTA11-P-AL-NN-025
	32	2,96	20	CTA11-P-AL-NN-032
	40	2,28	15	CTA11-P-AL-NN-040
	50	1,36	5	CTA11-P-AL-NN-050
	63	1,09	3	CTA11-P-AL-NN-063

* Products made from steel with zinc coating applied by item dipping into molten zinc.

On-floor systems

ONFLOOR hatches are designed for arrangement of workplace in false floors, floors for concrete casting, as well as for use immediately at workplace.

Area of application: commercial offices, social institutions, administrative premises.



Advantages:

- Возможность встраиваемого скрытого монтажа.
- Установка ЭУИ-модулями 45×45, 45×22,5 и 60×60.
- Высокая механическая прочность.
- Защита кабеля от перегиба.
- Высокая огнестойкость.

Technical characteristics:

Material	ABS plastic
Degree of protection	IP30
Withstand load, N	1500
Operating temperature, °C	–5 to +70
Insulation voltage U _i	500 V
Resistance to abnormal heat and flame, °C	850
Installation height, mm	≤95
Diameters of pipes entry holes	25, 32, 40
Size of entry opening for metal tray	150×35
Life time, years	10

Design features



Installation on same level with the floor as well as special place for flooring insert allow for preservation of interior aesthetics.



Installation is possible with pipes (steel or PVC) or tray of size 35×150 mm. The input pipes can have diameters 25, 32 and 40.



Protection of cable against excessive bending by means of sealing.



Installation with 6 or 8 mounting modules of size 45×45, or 12 and 16 modules 45×22.5. Mounting modules of size 60×60 are possible or in combination with modules 45×45 / 22.5 mm.



Cover of the on-floor box protects from concrete ingress during casting. The on-floor box height is adjustable during installation due to adjusting screws (up to 95 mm) and use of leveling set.



The on-floor hatch is fitted with lower box that secures cables from falling out. The hatch of mini L series can be installed to a structure of thickness from 6 to 38 mm.



The hatch is fixed to a false plate by special latches – feet.



A kit of necessary hardware makes installation easy and convenient.



Convenient installation of items to 12-module on-floor hatch due to unlatched cover for electrical installation devices.



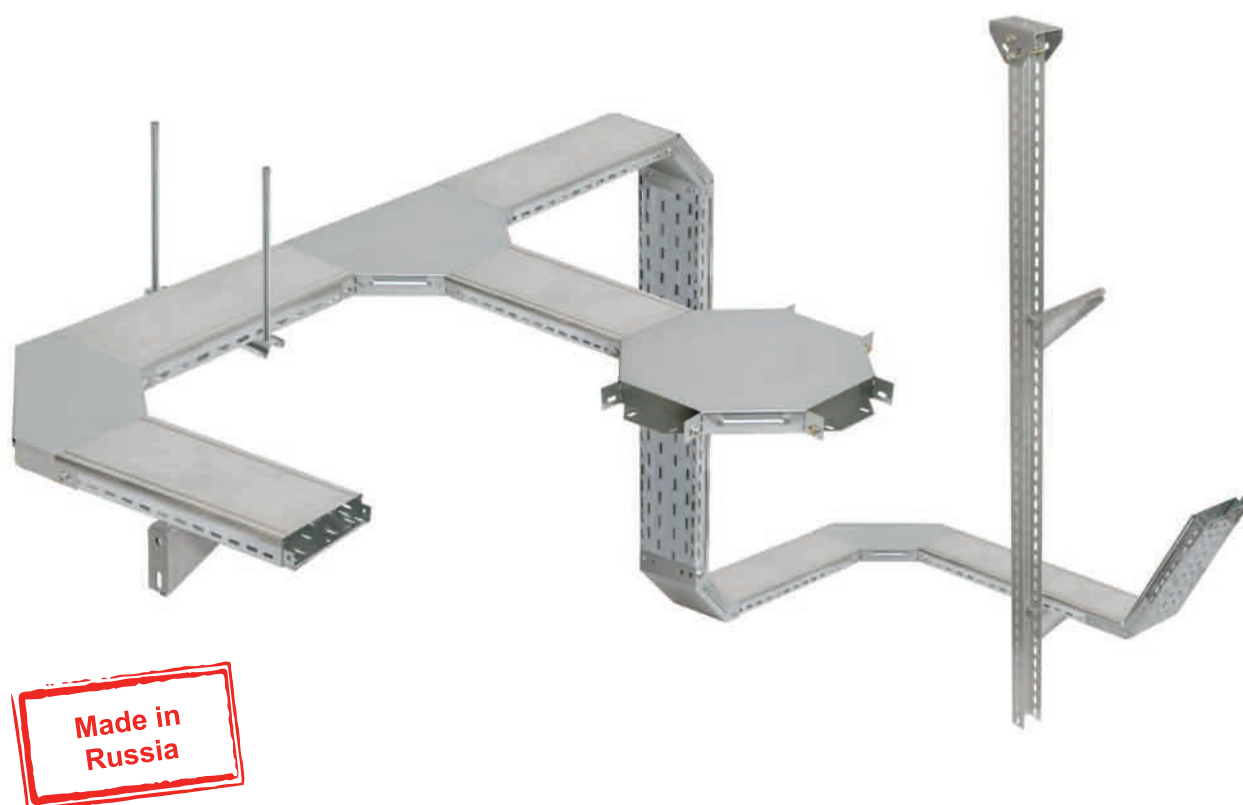
A spacer is supplied with hatches of mini B series, to be used when hatch is installed into a wall and preventing its deformation during concrete casting.

Products' range

	Description	Purpose	Depth of installation, mm	Overall dimensions, mm	Load, N	Color	Weight, kg	Product ID
	ONFLOOR hatch 12 modules	Arrangement of seats for mounting of electrical devices of module size 45×45 mm in construction using concrete casting technology	57÷75	330×260×60	1500	RAL7045	1,5	KNL-57-12-7012
	ONFLOOR hatch 16 modules		80÷95	330×260×60	1500	RAL7045	1,5	KNL-80-16-7012
	ONFLOOR hatch mini L	For installation into hollow walls and furniture. The fixtures allow for fastening of the item in structures of thickness 6 to 38 mm.		175×80×75		RAL7035		KNU-06-PCL
	ONFLOOR hatch mini B	For installation in recesses in solid walls.	6÷38	175×80×68		RAL7035		KNU-06-PCB
	ONFLOOR box 12 modules	For installation in concrete floors. After hardening, the on-floor hatch for 12 or 16 modules is mounted to the box	57÷75	332×250×57	1500	RAL9004	0,7	KNU-12-PA-9011
	ONFLOOR box 16 modules		80÷95	332×250×80	1500	RAL9004	0,8	KNU-80-16-PA-9011
	ONFLOOR device box	For installation into 16-module on-floor box bezel		249×71×41		RAL7045	0,1	KNP-80-16-PA-7012
	Device blank plate ONFLOOR 80/0	For covering empty space in the 16-module on-floor box bezel		250×81		RAL7045	0,08	KNR-80-00-7012
	Device bezel ONFLOOR 80/3	For installation of three conventional electrical devices 60×60		250×81		RAL7045	0,06	KNR-80-03-7012
	Device bezel ONFLOOR 80/45	For installation of 4 modules 45×45 of PRIMER series		250×81		RAL7045	0,06	KNR-80-45-7012
	Leveling set ONFLOOR	For precise adjustment of universal on-floor boxes height prior to concreting. The set consists of 4 leveling feet.	Before 35	57×37			0,08	KNK-SN-9011

Metal cable trays and accessories

Perforated and non-perforated cable trays made of galvanized steel are intended for mounting and protection of power and low-voltage wiring. IEK cable tray system consists of various combinations of metal trays, accessories, wall and ceiling pendant fittings necessary for laying the cables in any direction.



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Advantages

- Open method of cable routing with use of metal trays enables easy maintenance of electric and low-voltage systems and its development in future.
- The lock design is featured by tubular (round section) shape without sharp edges.
- The tubular shape of the lock greatly improves strength characteristics of the trays.
- The range of trays and accessories sizes allows for engineering of cable route of any complexity level.

Technical characteristics:

Material	version 1: galvanized steel version 2: hot-dip galvanized steel version 3: painted galvanized steel
Color	white
Warranty for coating	protection against penetration corrosion up to 10 years provided that maintenance conditions are observed
Fire resistance	R-180
Seismic resistance	9 scores
Area of application	outdoors and in industrial, commercial, office and residential premises

Design Features



Trays have male-female type connectors securely connected using KS M6x10 connecting kit. Standard tray length – 3 meters.



Extended perforated area allows lowering the tray weight not influencing its structural capabilities and easy mounting cables inside the tray using nylon ties.



Safety tube lock construction with boosted structural capability as compared to the straight lock-free trays.



Locking covers are latched on to the tray and mounting accessories with simple pressing without and additional fasteners. Cover lock provides for its secure staying in place when the cable routing is installed vertically.



Special baffle can be used for diving the tray in two or more compartments and excluding coupling in case of mounting different cable types (data and power) in one tray.



There is a wide range of universal pendant fittings for fixing the tray onto the walls and ceiling. They can be both of screw/fast mounting and unitary type (one element construction).



Full range of accessories (vertical and horizontal bends, T- and X-type joints) provides for freely changing direction and level, make branches and organize the cable routing of any complexity.



There is a screw bolt with a nut (with fixing collar) used for bracket-to-ceiling clamp connection.



All trays and accessories are connected using a unified KS M6x10 connecting kit. Thus, to assemble any routing, you will need only three metalware types. Owing to the square neck fixing the screw bolt included in the said kit, to connect the trays and accessories only one M10 wrench is needed.

Perforated cable trays

Intended for mounting and protecting power and low-voltage wiring.

Range

	Name	Dimensions, mm			Metal gage, mm	Weight, kg/m	Useful load, kg/m	Package amount, m	Product ID
		length	height	width					
	Perforated cable tray 35×50×3000; 0,7 mm	3000	35	50	0,7	0,81	67,5	6	CLP10-035-050-070-3
	Perforated cable tray 35×100×3000; 0,7 mm	3000	35	100	0,7	1,05	74,7	6	CLP10-035-100-070-3
	Perforated cable tray 35×150×3000; 0,7 mm	3000	35	150	0,7	1,30	78,2	6	CLP10-035-150-070-3
	Perforated cable tray 35×200×3000; 0,7 mm	3000	35	200	0,7	1,55	80,2	6	CLP10-035-200-070-3
	Perforated cable tray 35×300×3000; 0,8 mm	3000	35	300	0,8	2,32	92,2	6	CLP10-035-300-080-3
	Perforated cable tray 50×50×3000; 0,7 mm	3000	50	50	0,7	0,96	153,6	6	CLP10-050-050-3
	Perforated cable tray 50×100×3000; 0,7 mm	3000	50	100	0,7	1,19	170,9	6	CLP10-050-100-3
	Perforated cable tray 50×150×3000; 0,7 mm	3000	50	150	0,7	1,46	179,8	6	CLP10-050-150-3
	Perforated cable tray 50×200×3000; 0,7 mm	3000	50	200	0,7	1,74	186,4	6	CLP10-050-200-3
	Perforated cable tray 50×300×3000; 0,8 mm	3000	50	300	0,8	2,56	215,9	6	CLP10-050-300-3
	Perforated cable tray 50×400×3000; 1 mm	3000	50	400	1,0	3,97	269,2	6	CLP10-050-400-3
	Perforated cable tray 50×500×3000; 1,2 mm	3000	50	500	1,2	5,59	317,8	6	CLP10-050-500-3
	Perforated tray 80×80×3000 IEK	3000	80	80	0,7	1,26	231,04	6	CLP10-080-080-3
	Perforated cable tray 80×100×3000; 0,7 mm	3000	80	100	0,7	1,47	288,8	6	CLP10-080-100-3
	Perforated cable tray 80×150×3000; 0,7 mm	3000	80	150	0,7	1,75	305,7	6	CLP10-080-150-3
	Perforated cable tray 80×200×3000; 0,8 mm	3000	80	200	0,8	2,31	359,1	6	CLP10-080-200-3
	Perforated cable tray 80×300×3000; 0,8 mm	3000	80	300	0,8	2,89	373,7	6	CLP10-080-300-3
	Perforated cable tray 80×400×3000; 1 mm	3000	80	400	1,0	4,38	467,4	6	CLP10-080-400-3
	Perforated cable tray 80×500×3000; 1,2 mm	3000	80	500	1,2	6,08	558,0	6	CLP10-080-500-3
	Perforated cable tray 100×100×3000; 0,7 mm	3000	100	100	0,7	1,70	427,4	6	CLP10-100-100-3
	Perforated cable tray 100×150×3000; 0,8 mm	3000	100	150	0,8	2,24	514,8	6	CLP10-100-150-3
	Perforated cable tray 100×200×3000; 0,8 mm	3000	100	200	0,8	2,56	535,0	6	CLP10-100-200-3
	Perforated cable tray 100×300×3000; 1 mm	3000	100	300	1,0	3,91	688,5	6	CLP10-100-300-3
	Perforated cable tray 100×400×3000; 1,2 mm	3000	100	400	1,2	5,61	834,6	6	CLP10-100-400-3
	Perforated cable tray 100×500×3000; 1,2 mm	3000	100	500	1,2	6,46	845,7	6	CLP10-100-500-3

Non-perforated cable trays

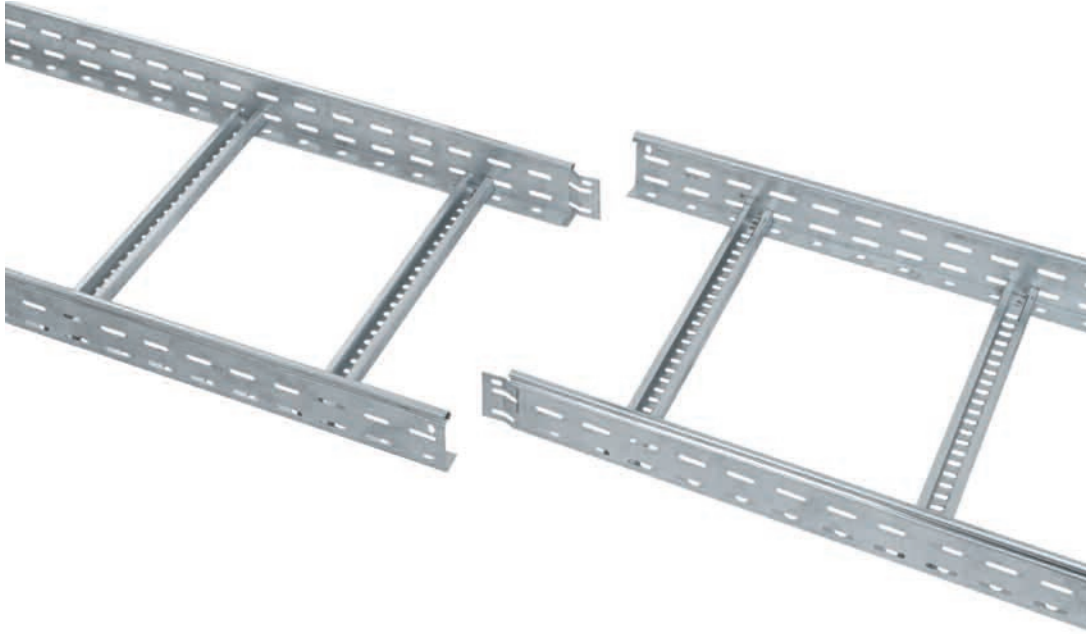
Intended for mounting and protecting power and low-voltage wiring.

Range

	Name	Dimensions, mm			Metal gage, mm	Weight, kg/m	Useful load, kg/m	Package amount, m	Product ID
		length	height	width					
	Non-perforated cable tray 35×50×3000; 0,7 mm	3000	35	50	0,7	0,90	67,5	6	CLN10-035-050-070-3
	Non-perforated cable tray 35×100×3000; 0,7 mm	3000	35	100	0,7	1,17	74,7	6	CLN10-035-100-070-3
	Non-perforated cable tray 35×150×3000; 0,7 mm	3000	35	150	0,7	1,45	78,2	6	CLN10-035-150-070-3
	Non-perforated cable tray 35×200×3000; 0,7 mm	3000	35	200	0,7	1,72	80,2	6	CLN10-035-200-070-3
	Non-perforated cable tray 35×300×3000; 0,8 mm	3000	35	300	0,8	2,59	92,2	6	CLN10-035-300-080-3
	Non-perforated cable tray 50×50×3000; 0,7 mm	3000	50	50	0,7	1,06	153,6	6	CLN10-050-050-3
	Non-perforated cable tray 50×100×3000; 0,7 mm	3000	50	100	0,7	1,34	170,9	6	CLN10-050-100-3
	Non-perforated cable tray 50×150×3000; 0,7 mm	3000	50	150	0,7	1,61	179,8	6	CLN10-050-150-3
	Non-perforated cable tray 50×200×3000; 0,7 mm	3000	50	200	0,7	1,89	186,4	6	CLN10-050-200-3
	Non-perforated cable tray 50×300×3000; 0,8 mm	3000	50	300	0,8	2,78	215,9	6	CLN10-050-300-3
	Non-perforated cable tray 50×400×3000; 1mm	3000	50	400	1,0	4,25	269,2	6	CLN10-050-400-3
	Non-perforated cable tray 50×500×3000; 1,2 mm	3000	50	500	1,2	6,02	317,8	6	CLN10-050-500-3
	Non-perforated tray 80×80×3000 IEK	3000	80	80	0,7	1,48	231,04	6	CLN10-080-080-3
	Non-perforated cable tray 80×100×3000; 0,7 mm	3000	80	100	0,7	1,67	288,8	6	CLN10-080-100-3
	Non-perforated cable tray 80×150×3000; 0,7 mm	3000	80	150	0,7	1,94	305,7	6	CLN10-080-150-3
	Non-perforated cable tray 80×200×3000; 0,8 mm	3000	80	200	0,8	2,53	359,1	6	CLN10-080-200-3
	Non-perforated cable tray 80×300×3000; 0,8 mm	3000	80	300	0,8	3,16	373,7	6	CLN10-080-300-3
	Non-perforated cable tray 80×400×3000; 1 mm	3000	80	400	1,0	4,72	467,4	6	CLN10-080-400-3
	Non-perforated cable tray 80×500×3000; 1,2 mm	3000	80	500	1,2	6,59	558,0	6	CLN10-080-500-3
	Non-perforated cable tray 100×100×3000; 0,7 mm	3000	100	100	0,7	1,89	427,4	6	CLN10-100-100-3
	Non-perforated cable tray 100×150×3000; 0,8 mm	3000	100	150	0,8	2,47	514,8	6	CLN10-100-150-3
	Non-perforated cable tray 100×200×3000; 0,8 mm	3000	100	200	0,8	2,78	535,0	6	CLN10-100-200-3
	Non-perforated cable tray 100×300×3000; 1 mm	3000	100	300	1,0	4,25	688,5	6	CLN10-100-300-3
	Non-perforated cable tray 100×400×3000; 1,2 mm	3000	100	400	1,2	6,02	834,6	6	CLN10-100-400-3
	Non-perforated cable tray 100×500×3000; 1,2 mm	3000	100	500	1,2	6,96	845,7	6	CLN10-100-500-3

Ladder type cable trays

Ladder type cable trays made of galvanized steel are used for mounting cable routings for wires and cables when arranging open-type electric systems and surface wiring on industrial and civil sites.



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Advantages:

- High load-bearing capacity of ladder cable trays allows laying heavy cable lines with loads more than 600 kg/m.
- Surface wiring method using the ladder cable trays provides for easy further servicing of electric and low-voltage power systems and its development.
- Universal male-female connector enables both direct longitudinal edge-to-edge and lateral overlapped mounting of the cable routing at the expense of its symmetric structure.
- Tube lock construction allows boosting structural capabilities of IEK trays.
- Wide range of tray sizes and accessories provides for designing a cable routing of any complexity.
- Ladder type cable tray tests have shown its high flame resistance and preservation of all characteristics in case of fire.

Technical Features:

Material

Sendzimir-method galvanized steel (zinc coating weight – up to 200 g/m²)

Color

white

Paint and anti-corrosion warranty

protection from rust-through corrosion – 10 years (upon meeting the operation conditions)

Climate type:

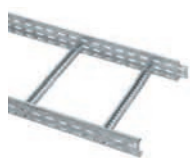
operating temperature range: –70 °C ...+40 °C at 85% humidity

operating temperature range: –70 °C ...+45 °C at 70% humidity

Application

inside and outside industrial, commercial, office and non-residential premises

Range

	Name	Length, mm	Height, mm	Width, mm	Side rail thickness, mm	Weight, kg/m	Package amount, m	Product ID
	Ladder type cable tray 50×200×3000, 1.2 mm	3000	50	200	1,2	2,37	6	LLK1-050-200
	Ladder type cable tray 50×300×3000, 1.2 mm	3000	50	300	1,2	2,57	6	LLK1-050-300
	Ladder type cable tray 50×400×3000, 1.2 mm	3000	50	400	1,2	2,77	6	LLK1-050-400
	Ladder type cable tray 50×500×3000, 1.2 mm	3000	50	500	1,2	2,97	6	LLK1-050-500
	Ladder type cable tray 50×600×3000, 1.2 mm	3000	50	600	1,2	3,2	6	LLK1-050-600
	Ladder type cable tray 80×200×3000, 1.2 mm	3000	80	200	1,2	2,77	6	LLK1-080-200
	Ladder type cable tray 80×300×3000, 1.2 mm	3000	80	300	1,2	2,97	6	LLK1-080-300
	Ladder type cable tray 80×400×3000, 1.2 mm	3000	80	400	1,2	3,17	6	LLK1-080-400
	Ladder type cable tray 80×500×3000, 1.2 mm	3000	80	500	1,2	3,37	6	LLK1-080-500
	Ladder type cable tray 80×600×3000, 1.2 mm	3000	80	600	1,2	3,6	6	LLK1-080-600
	Ladder type cable tray 100×200×3000, 1.2 mm	3000	100	200	1,2	4,17	6	LLK1-100-200
	Ladder type cable tray 100×300×3000, 1.2 mm	3000	100	300	1,2	4,37	6	LLK1-100-300
	Ladder type cable tray 100×400×3000, 1.2 mm	3000	100	400	1,2	4,57	6	LLK1-100-400
	Ladder type cable tray 100×500×3000, 1.2 mm	3000	100	500	1,2	4,77	6	LLK1-100-500
	Ladder type cable tray 100×600×3000, 1.2 mm	3000	100	600	1,2	5	6	LLK1-100-600

Metal tray accessories

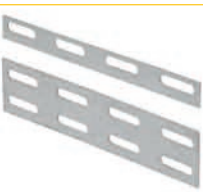
	Name	Purpose	Dimensions, mm			Metal gauge, mm	Weight, kg/m	Package amount, m	Product ID
			length	width	height				
	Tray cover, base 50 mm	For protecting the cable inside the tray in cases when it is necessary	3000	50	15	0,7	0,58	6	CLP1K-050-1
	Tray cover, base 100 mm		3000	100	15	0,7	0,76	6	CLP1K-100-1
	Tray cover, base 150 mm		3000	150	15	0,7	1,03	6	CLP1K-150-1
	Tray cover, base 200 mm		3000	200	15	0,8	1,5	6	CLP1K-200-1
	Tray cover, base 300 mm		3000	300	15	0,8	2,12	6	CLP1K-300-1
	Tray cover, base 400		3000	400	15	1,0	3,44	6	CLP1K-400-3
	Tray cover, base 500		3000	500	15	1,0	4,22	6	CLP1K-500-3
	Tray cover, base 600		3000	600	15	1,2	5,01	6	CLP1K-600-3
	Name	Purpose	Dimensions, mm			Metal gauge, mm	Weight, kg/m	Package amount, m	Product ID
			length	width	height				
	Cross-piece 35×50 mm	For organizing a cross-type cable routing branch. This accessory is delivered in set with a cover.	248	50	35	0,8	0,51	1	CLP1X-035-050-1
	Cross-piece 35×100 mm		358	100	35	0,8	1,15	1	CLP1X-035-100-1
	Cross-piece 35×150 mm		408	150	35	0,8	1,61	1	CLP1X-035-150-1
	Cross-piece 35×200 mm		458	200	35	0,8	2,12	1	CLP1X-035-200-1
	Cross-piece 35×300 mm		558	300	35	0,8	3,51	1	CLP1X-035-300-1
	Cross-piece 50×50		248	50	50	0,8	0,55	1	CLP1X-050-050
	Cross-piece 50×100		358	100	50	0,8	1,22	1	CLP1X-050-100
	Cross-piece 50×150		408	150	50	0,8	1,66	1	CLP1X-050-150
	Cross-piece 50×200		458	200	50	0,8	2,17	1	CLP1X-050-200
	Cross-piece 50×300		558	300	50	0,8	3,36	1	CLP1X-050-300
	Cross-piece 50×400		658	400	50	0,8	4,82	1	CLP1X-050-400
	Cross-piece 50×500		758	500	50	0,8	6,52	1	CLP1X-050-500
	Cross-piece 80×80		308	80	80	0,8	1,04	1	CLP1X-080-80
	Cross-piece 80×100		358	100	80	0,8	1,39	1	CLP1X-080-100
	Cross-piece 80×150		408	150	80	0,8	1,83	1	CLP1X-080-150
	Cross-piece 80×200		458	200	80	0,8	2,34	1	CLP1X-080-200
	Cross-piece 80×300		558	300	80	0,8	3,54	1	CLP1X-080-300
	Cross-piece 80×400		658	400	80	0,8	5,00	1	CLP1X-080-400
	Cross-piece 80×500		758	500	80	0,8	6,69	1	CLP1X-080-500
	Cross-piece 100×100		358	100	100	0,8	1,50	1	CLP1X-100-100
	Cross-piece 100×150		408	150	100	0,8	1,93	1	CLP1X-100-150
	Cross-piece 100×200		458	200	100	0,8	2,45	1	CLP1X-100-200
	Cross-piece 100×300		558	300	100	0,8	3,64	1	CLP1X-100-300
	Cross-piece 100×400		658	400	100	0,8	5,10	1	CLP1X-100-400
	Cross-piece 100×500		758	500	100	0,8	6,80	1	CLP1X-100-500

	Name	Purpose	Dimensions, mm			Metal gauge, mm	Weight, kg/m	Package amount, pcs	Product ID
			length	width	height				
	90° bend 35×50 mm	For organizing a horizontal cable routing turn at 90°. This accessory is delivered in set with a cover.	150	50	35	0,8	0,20	1	CLP1P-035-050-1
	90° bend 35×100 mm		230	100	35	0,8	0,47	1	CLP1P-035-100-1
	90° bend 35×150 mm		280	150	35	0,8	0,73	1	CLP1P-035-150-1
	90° bend 35×200 mm		330	200	35	0,8	1,04	1	CLP1P-035-200-1
	90° bend 35×300 mm		430	300	35	0,8	1,98	1	CLP1P-035-300-1
	90° bend 50×50	For organizing a horizontal cable routing turn at 90°. This accessory is delivered in set with a cover.	150	50	50	0,8	0,24	1	CLP2P-050-050
	90° bend 50×100		230	100	50	0,8	0,46	1	CLP2P-050-100
	90° bend 50×150		280	150	50	0,8	0,70	1	CLP2P-050-150
	90° bend 50×200		330	200	50	0,8	1,00	1	CLP2P-050-200
	90° bend 50×300		430	300	50	0,8	1,76	1	CLP2P-050-300
	90° bend 50×400		530	400	50	0,8	2,73	1	CLP2P-050-400
	90° bend 50×500		630	500	50	0,8	3,90	1	CLP2P-050-500
	90° bend 80×80		180	80	80	0,8	0,60	1	CLP2P-080-080
	90° bend 80×100		230	100	80	0,8	0,55	1	CLP2P-080-100
	90° bend 80×150		280	150	80	0,8	0,81	1	CLP2P-080-150
	90° bend 80×200		330	200	80	0,8	1,13	1	CLP2P-080-200
	90° bend 80×300		430	300	80	0,8	1,92	1	CLP2P-080-300
	90° bend 80×400		530	400	80	0,8	2,92	1	CLP2P-080-400
	90° bend 80×500		630	500	80	0,8	4,12	1	CLP2P-080-500
	90° bend 100×100		230	100	100	0,8	0,63	1	CLP2P-100-100
	90° bend 100×150		280	150	100	0,8	0,89	1	CLP2P-100-150
	90° bend 100×200		330	200	100	0,8	1,22	1	CLP2P-100-200
	90° bend 100×300		430	300	100	0,8	2,03	1	CLP2P-100-300
	90° bend 100×400		530	400	100	0,8	3,05	1	CLP2P-100-400
	90° bend 100×500		630	500	100	0,8	4,27	1	CLP2P-100-500
	45° bend 50×100	For organizing a horizontal cable routing turn at 45°. This accessory is delivered in set with a cover.	303	103,6	50	0,8	0,38	1	CLP3P-050-100
	45° bend 50×150		341	153,6	50	0,8	0,54	1	CLP3P-050-150
	45° bend 50×200		380	203,6	50	0,8	0,74	1	CLP3P-050-200
	45° bend 50×300		456	303,6	50	0,8	1,20	1	CLP3P-050-300
	45° bend 50×400		533	403,6	50	0,8	1,77	1	CLP3P-050-400
	45° bend 50×500		609,5	503,6	50	0,8	2,42	1	CLP3P-050-500
	45° bend 80×80		261	80	80	0,8	0,37	1	CLP3P-080-080
	45° bend 80×100		303	103,6	80	0,8	0,46	1	CLP3P-080-100
	45° bend 80×150		341	153,6	80	0,8	0,63	1	CLP3P-080-150
	45° bend 80×200		380	203,6	80	0,8	0,83	1	CLP3P-080-200
	45° bend 80×300		456	303,6	80	0,8	1,31	1	CLP3P-080-300
	45° bend 80×400		533	403,6	80	0,8	1,89	1	CLP3P-080-400
	45° bend 80×500		609,5	503,6	80	0,8	2,56	1	CLP3P-080-500
	45° bend 100×100		303	103,6	100	0,8	0,52	1	CLP3P-100-100
	45° bend 100×150		341	153,6	100	0,8	0,69	1	CLP3P-100-150
	45° bend 100×200		380	203,6	100	0,8	0,90	1	CLP3P-100-200
	45° bend 100×300		456	303,6	100	0,8	1,39	1	CLP3P-100-300
	45° bend 100×400		533	403,6	100	0,8	1,98	1	CLP3P-100-400
	45° bend 100×500		609,5	503,6	100	0,8	2,66	1	CLP3P-100-500

	Name	Purpose	Dimensions, mm			Metal gauge, mm	Weight, kg/m	Package amount, pcs	Product ID
			length	width	height				
	90° vertical external bend 35×50 mm	For organizing a vertical cable routing turn at 90°. This accessory is delivered in set with a cover.	203	50	35	0,8	0,20	1	CLP1N-035-050-1
	90° vertical external bend 35×100 mm		203	100	35	0,8	0,31	1	CLP1N-035-100-1
	90° vertical external bend 35×150 mm		203	150	35	0,8	0,42	1	CLP1N-035-150-1
	90° vertical external bend 35×200 mm		203	200	35	0,8	0,52	1	CLP1N-035-200-1
	90° vertical external bend 35×300 mm		203	300	35	0,8	0,94	1	CLP1N-035-300-1
	90° vertical external bend 50×50		283,5	50	50	0,8	0,26	1	CLP1N-050-050
	90° vertical external bend 50×100		283,5	100	50	0,8	0,38	1	CLP1N-050-100
	90° vertical external bend 50×150		283,5	150	50	0,8	0,49	1	CLP1N-050-150
	90° vertical external bend 50×200		283,5	200	50	0,8	0,60	1	CLP1N-050-200
	90° vertical external bend 50×300		283,5	300	50	0,8	0,83	1	CLP1N-050-300
	90° vertical external bend 50×400		283,5	400	50	0,8	1,07	1	CLP1N-050-400
	90° vertical external bend 50×500		283,5	500	50	0,8	1,29	1	CLP1N-050-500
	90° vertical external bend 80×80		273,5	80	80	0,8	0,44	1	CLP1N-080-080
	90° vertical external bend 80×100		273,5	100	80	0,8	0,52	1	CLP1N-080-100
	90° vertical external bend 80×150		273,5	150	80	0,8	0,65	1	CLP1N-080-150
	90° vertical external bend 80×200		273,5	200	80	0,8	0,78	1	CLP1N-080-200
	90° vertical external bend 80×300		273,5	300	80	0,8	1,04	1	CLP1N-080-300
	90° vertical external bend 80×400		273,5	400	80	0,8	1,31	1	CLP1N-080-400
	90° vertical external bend 80×500		273,5	500	80	0,8	1,57	1	CLP1N-080-500
	90° vertical external bend 100×100		309	100	100	0,8	0,64	1	CLP1N-100-100
	90° vertical external bend 100×150		309	150	100	0,8	0,78	1	CLP1N-100-150
	90° vertical external bend 100×200		309	200	100	0,8	0,92	1	CLP1N-100-200
	90° vertical external bend 100×300		309	300	100	0,8	1,20	1	CLP1N-100-300
	90° vertical external bend 100×400		309	400	100	0,8	1,48	1	CLP1N-100-400
	90° vertical external bend 100×500		309	500	100	0,8	1,76	1	CLP1N-100-500
	45° vertical external bend 50×100 mm	For organizing a vertical cable routing turn at 45°. This accessory is delivered in set with a cover.	219,9	101,6	50	0,8	0,34	1	CLP3N-050-100
	45° vertical external bend 50×150 mm		219,9	151,6	50	0,8	0,44	1	CLP3N-050-150
	45° vertical external bend 50×200 mm		219,9	201,6	50	0,8	0,55	1	CLP3N-050-200
	45° vertical external bend 50×300 mm		219,9	301,6	50	0,8	0,75	1	CLP3N-050-300
	45° vertical external bend 50×400 mm		219,9	401,6	50	0,8	0,96	1	CLP3N-050-400
	45° vertical external bend 50×50		190	51,6	50	0,8	0,23	1	CLP3N-050-050

	Name	Purpose	Dimensions, mm			Metal gauge, mm	Weight, kg/m	Package amount, pcs	Product ID
			length	width	height				
	45° vertical external bend 50×500 mm	For organizing a vertical cable routing turn at 45°. This accessory is delivered in set with a cover.	219,9	501,6	50	0,8	1,17	1	CLP3N-050-500
	45° vertical external bend 80×80 mm		242,8	80	80	0,8	0,36	1	CLP3N-080-080
	45° vertical external bend 80×100 mm		242,8	101,6	80	0,8	0,45	1	CLP3N-080-100
	45° vertical external bend 80×150 mm		242,8	151,6	80	0,8	0,55	1	CLP3N-080-150
	45° vertical external bend 80×200 mm		242,8	201,6	80	0,8	0,66	1	CLP3N-080-200
	45° vertical external bend 80×300 mm		242,8	301,6	80	0,8	0,88	1	CLP3N-080-300
	45° vertical external bend 80×400		242,8	401,6	80	0,8	1,11	1	CLP3N-080-400
	45° vertical external bend 80×500		242,8	501,6	80	0,8	1,32	1	CLP3N-080-500
	45° vertical external bend 100×100		258,1	101,6	100	0,8	0,53	1	CLP3N-100-100
	45° vertical external bend 100×150		258,1	151,6	100	0,8	0,64	1	CLP3N-100-150
	45° vertical external bend 100×200		258,1	201,6	100	0,8	0,76	1	CLP3N-100-200
	45° vertical external bend 100×300		258,1	301,6	100	0,8	0,99	1	CLP3N-100-300
	45° vertical external bend 100×400		258,1	401,6	100	0,8	1,23	1	CLP3N-100-400
	45° vertical external bend 100×500		258,1	501,6	100	0,8	1,46	1	CLP3N-100-500
	90° vertical internal bend 35×50 mm	For organizing a vertical cable routing turn at 90°. This accessory is delivered in set with a cover.	203	50	35	0,8	0,22	1	CLP1V-035-050-1
	90° vertical internal bend 35×100 mm		203	100	35	0,8	0,32	1	CLP1V-035-100-1
	90° vertical internal bend 35×150 mm		203	150	35	0,8	0,43	1	CLP1V-035-150-1
	90° vertical internal bend 35×200 mm		203	200	35	0,8	0,53	1	CLP1V-035-200-1
	90° vertical internal bend 35×300 mm		203	300	35	0,8	0,87	1	CLP1V-035-300-1
	90° vertical internal bend 50×50		238	50	50	0,8	0,36	1	CLP1V-050-050
	90° vertical internal bend 50×100		238	100	50	0,8	0,67	1	CLP1V-050-100
	90° vertical internal bend 50×150		238	150	50	0,8	0,93	1	CLP1V-050-150
	90° vertical internal bend 50×200		238	200	50	0,8	1,24	1	CLP1V-050-200
	90° vertical internal bend 50×300		238	300	50	0,8	1,92	1	CLP1V-050-300
	90° vertical internal bend 50×400		238	400	50	0,8	2,73	1	CLP1V-050-400
	90° vertical internal bend 50×500		238	500	50	0,8	3,66	1	CLP1V-050-500
	90° vertical internal bend 80×80		274	80	80	0,8	0,68	1	CLP1V-080-080
	90° vertical internal bend 80×100		274	100	80	0,8	0,81	1	CLP1V-080-100
	90° vertical internal bend 80×150		274	150	80	0,8	1,09	1	CLP1V-080-150
	90° vertical internal bend 80×200		274	200	80	0,8	1,40	1	CLP1V-080-200
	90° vertical internal bend 80×300		274	300	80	0,8	2,12	1	CLP1V-080-300
	90° vertical internal bend 80×400		274	400	80	0,8	2,96	1	CLP1V-080-400

	Name	Purpose	Dimensions, mm			Metal gauge, mm	Weight, kg/m	Package amount, pcs	Product ID
			length	width	height				
	90° vertical internal bend 80×500	For organizing a vertical cable routing turn at 90°. This accessory is delivered in set with a cover.	274	500	80	0,8	3,92	1	CLP1V-080-500
	90° vertical internal bend 100×100		310	100	100	0,8	0,92	1	CLP1V-100-100
	90° vertical internal bend 100×150		310	150	100	0,8	1,20	1	CLP1V-100-150
	90° vertical internal bend 100×200		310	200	100	0,8	1,53	1	CLP1V-100-200
	90° vertical internal bend 100×300		310	300	100	0,8	2,26	1	CLP1V-100-300
	90° vertical internal bend 100×400		310	400	100	0,8	3,13	1	CLP1V-100-400
	90° vertical internal bend 100×500		310	500	100	0,8	4,11	1	CLP1V-100-500
	45° vertical internal bend 50×100	For organizing a vertical cable routing turn at 45°. This accessory is delivered in set with a cover.	221,8	101,6	50	0,8	0,63	1	CLP3V-050-100
	45° vertical internal bend 50×150		221,8	151,6	50	0,8	0,88	1	CLP3V-050-150
	45° vertical internal bend 50×200		221,8	201,6	50	0,8	1,17	1	CLP3V-050-200
	45° vertical internal bend 50×300		221,8	301,6	50	0,8	1,82	1	CLP3V-050-300
	45° vertical internal bend 50×400		221,8	401,6	50	0,8	2,61	1	CLP3V-050-400
	45° vertical internal bend 50×500		221,8	501,6	50	0,8	3,52	1	CLP3V-050-500
	45° vertical internal bend 80×80		80	244,6	80	0,8	0,62	1	CLP3V-080-080
	45° vertical internal bend 80×100		244,6	101,6	80	0,8	0,73	1	CLP3V-080-100
	45° vertical internal bend 80×150		244,6	151,6	80	0,8	0,99	1	CLP3V-080-150
	45° vertical internal bend 80×200		244,6	201,6	80	0,8	1,28	1	CLP3V-080-200
	45° vertical internal bend 80×300		244,6	301,6	80	0,8	1,95	1	CLP3V-080-300
	45° vertical internal bend 80×400		244,6	401,6	80	0,8	2,75	1	CLP3V-080-400
	45° vertical internal bend 80×500		244,6	501,6	80	0,8	3,67	1	CLP3V-080-500
	45° vertical internal bend 100×100		260	101,6	100	0,8	0,81	1	CLP3V-100-100
	45° vertical internal bend 100×150		260	151,6	100	0,8	1,07	1	CLP3V-100-150
	45° vertical internal bend 100×200		260	201,6	100	0,8	1,37	1	CLP3V-100-200
	45° vertical internal bend 100×300		260	301,6	100	0,8	2,05	1	CLP3V-100-300
	45° vertical internal bend 100×400		260	401,6	100	0,8	2,86	1	CLP3V-100-400
	45° vertical internal bend 100×500		260	501,6	100	0,8	3,79	1	CLP3V-100-500

	Name	Purpose	Dimensions, mm			Metal gauge, mm	Weight, kg/m	Package amount, pcs	Product ID
			length	width	height				
	T-piece 35×50mm	For organizing a T-type cable routing branching. This accessory is delivered in set with a cover.	150	50	35	0,8	0,41	1	CLP1T-035-050-1
	T-piece 35×100mm		230	100	35	0,8	0,90	1	CLP1T-035-100-1
	T-piece 35×150mm		280	150	35	0,8	1,30	1	CLP1T-035-150-1
	T-piece 35×200mm		330	200	35	0,8	1,75	1	CLP1T-035-200-1
	T-piece 35×300mm		430	300	35	0,8	3,02	1	CLP1T-035-300-1
	T-piece 50×50		150	50	50	0,8	0,44	1	CLP1T-050-050
	T-piece 50×100		230	100	50	0,8	0,98	1	CLP1T-050-100
	T-piece 50×150		280	150	50	0,8	1,38	1	CLP1T-050-150
	T-piece 50×200		330	200	50	0,8	1,86	1	CLP1T-050-200
	T-piece 50×300		430	300	50	0,8	2,97	1	CLP1T-050-300
	T-piece 50×400		530	400	50	0,8	4,36	1	CLP1T-050-400
	T-piece 50×500		630	500	50	0,8	5,98	1	CLP1T-050-500
	T-piece 80×80		180	80	80	0,8	1,01	1	CLP1T-080-080
	T-piece 80×100		230	100	80	0,8	1,13	1	CLP1T-080-100
	T-piece 80×150		280	150	80	0,8	1,54	1	CLP1T-080-150
	T-piece 80×200		330	200	80	0,8	2,03	1	CLP1T-080-200
	T-piece 80×300		430	300	80	0,8	3,16	1	CLP1T-080-300
	T-piece 80×400		530	400	80	0,8	4,56	1	CLP1T-080-400
	T-piece 80×500		630	500	80	0,8	6,20	1	CLP1T-080-500
	T-piece 100×100		230	100	100	0,8	1,24	1	CLP1T-100-100
	T-piece 100×150		280	150	100	0,8	1,66	1	CLP1T-100-150
	T-piece 100×200		330	200	100	0,8	2,15	1	CLP1T-100-200
	T-piece 100×300		430	300	100	0,8	3,30	1	CLP1T-100-300
	T-piece 100×400		530	400	100	0,8	4,71	1	CLP1T-100-400
	T-piece 100×500		630	500	100	0,8	6,36	1	CLP1T-100-500
	Coupler h35 mm	For interconnecting trays and accessories	190	18		1,5	0,03	2	CLP1S-035-1
	Coupler h50		190	33		1,5	0,05	2	CLP1S-050
	Coupler h80		190	52		1,5	0,09	2	CLP1S-080
	Coupler h100		190	62		1,5	0,11	2	CLP1S-100

	Name	Purpose	Dimensions, mm			Metal gauge, mm	Weight, kg/m	Package amount, pcs	Product ID
			length	width	height				
	Swing joint strap h35 mm	For connecting trays at various angles.	138	18		2,0	0,03	2	CLP1SH-035-1
	Swing joint strap h50		163	33		2,0	0,07	2	CLP1SH-050
	Swing joint strap h80		188	52		2,0	0,14	2	CLP1SH-080
Swing joint strap h100	203		62		2,0	0,18	2	CLP1SH-100	
	Splitter baffle h35 mm	For dividing the space into two or more parts in case of mounting different cable types (data and power) in one tray and for excluding coupling.	2000	25	20	0,8	0,664	2	CLP1F-035-1
	Splitter baffle h50		2000	25	35	0,8	0,83	2	CLP1F-050-2
	Splitter baffle h80		2000	25	65	0,8	1,21	2	CLP1F-080-2
	Splitter baffle h100		2000	25	85	0,8	1,46	2	CLP1F-100-2
	Name	Purpose	Routing width variation, mm		Height, mm	Metal gauge, mm	Weight, kg	Package amount, pcs.	Product ID
	Adapter H35×50	For carrying out simple junction of cable trays along the routing width.	50		35	1,5	0,05	20	CLP1H-035-050
	Adapter H35×100		100		35	1,5	0,06	20	CLP1H-035-100
	Adapter H35×150		150		35	1,5	0,07	20	CLP1H-035-150
	Adapter H35×200		200		35	1,5	0,08	20	CLP1H-035-200
	Adapter H35×300		300		35	1,5	0,10	20	CLP1H-035-300
	Adapter H35×400		400		35	1,5	0,13	20	CLP1H-035-400
	Adapter H50×50		50	50	1,5	0,09	2	CLP1H-050-050	
	Adapter H50×100		100	50	1,5	0,11	2	CLP1H-050-100	
	Adapter H50×150		150	50	1,5	0,13	2	CLP1H-050-150	
	Adapter H50×200		200	50	1,5	0,17	2	CLP1H-050-200	
	Adapter H50×300		300		50	1,5	0,21	2	CLP1H-050-300
	Adapter H50×400		400		50	1,5	0,07	2	CLP1H-050-400
	Adapter H80×50		50	80	1,5	0,15	2	CLP1H-080-050	
	Adapter H80×100		100	80	1,5	0,18	2	CLP1H-080-100	
	Adapter H80×150		150	80	1,5	0,21	2	CLP1H-080-150	
	Adapter H80×200		200	80	1,5	0,28	2	CLP1H-080-200	
	Adapter H80×300		300		80	1,5	0,34	2	CLP1H-080-300
	Adapter H80×400		400		80	1,5	0,12	2	CLP1H-080-400
	Adapter H100×50		50	100	1,5	0,19	2	CLP1H-100-050	
	Adapter H100×100		100	100	1,5	0,22	2	CLP1H-100-100	
	Adapter H100×150		150	100	1,5	0,26	2	CLP1H-100-150	
	Adapter H100×200		200	100	1,5	0,33	2	CLP1H-100-200	
Adapter H100×300		300		100	1,5	0,41	2	CLP1H-100-300	
Adapter H100×400		400		100	1,5	0,51	2	CLP1H-100-400	

	Name	Depth height variation H, mm	Tray width B, mm	Metal gauge, mm	Weight, kg	Package amount, pcs.	Product ID
	Height along adapter 35×100B100	H 35 ↔ H 100	100	0,8	0,10	2	CLP1H-035-100-100
	Height along adapter 35×100B150	H 35 ↔ H 100	150	0,8	0,14	2	CLP1H-035-100-150
	Height along adapter 35×100B200	H 35 ↔ H 100	200	0,8	0,18	2	CLP1H-035-100-200
	Height along adapter 35×100B300	H 35 ↔ H 100	300	0,8	0,25	2	CLP1H-035-100-300
	Height along adapter 35×50B100	H 35 ↔ H 50	100	0,8	0,05	2	CLP1H-035-050-100
	Height along adapter 35×50B150	H 35 ↔ H 50	150	0,8	0,06	2	CLP1H-035-050-150
	Height along adapter 35×50B200	H 35 ↔ H 50	200	0,8	0,07	2	CLP1H-035-050-200
	Height along adapter 35×50B300	H 35 ↔ H 50	300	0,8	0,10	2	CLP1H-035-050-300
	Height along adapter 35×50B50	H 35 ↔ H 50	50	0,8	0,03	2	CLP1H-035-050-050
	Height along adapter 35×80B100	H 35 ↔ H 80	100	0,8	0,08	2	CLP1H-035-080-100
	Height along adapter 35×80B150	H 35 ↔ H 80	150	0,8	0,11	2	CLP1H-035-080-150
	Height along adapter 35×80B200	H 35 ↔ H 80	200	0,8	0,15	2	CLP1H-035-080-200
	Height along adapter 35×80B300	H 35 ↔ H 80	300	0,8	0,21	2	CLP1H-035-080-300
	Height along adapter 50×100B100	H 50 ↔ H 100	100	0,8	0,05	2	CLP1H-050-100-100
	Height along adapter 50×100B150	H 50 ↔ H 100	150	0,8	0,06	2	CLP1H-050-100-150
	Height along adapter 50×100B200	H 50 ↔ H 100	200	0,8	0,12	2	CLP1H-050-100-200
	Height along adapter 50×100B300	H 50 ↔ H 100	300	0,8	0,16	2	CLP1H-050-100-300
	Height along adapter 50×100B400	H 50 ↔ H 100	400	0,8	0,22	2	CLP1H-050-100-400
	Height along adapter 50×100B500	H 50 ↔ H 100	500	0,8	0,29	2	CLP1H-050-100-500
	Height along adapter 50×80B100	H 50 ↔ H 80	100	0,8	0,06	2	CLP1H-050-080-100
	Height along adapter 50×80B150	H 50 ↔ H 80	150	0,8	0,07	2	CLP1H-050-080-150
	Height along adapter 50×80B200	H 50 ↔ H 80	200	0,8	0,09	2	CLP1H-050-080-200
	Height along adapter 50×80B300	H 50 ↔ H 80	300	0,8	0,13	2	CLP1H-050-080-300
	Height along adapter 50×80B400	H 50 ↔ H 80	400	0,8	0,17	2	CLP1H-050-080-400
	Height along adapter 50×80B500	H 50 ↔ H 80	500	0,8	0,21	2	CLP1H-050-080-500
	Height along adapter 80×100B100	H 80 ↔ H 100	100	0,8	0,05	2	CLP1H-080-100-100
	Height along adapter 80×100B150	H 80 ↔ H 100	150	0,8	0,07	2	CLP1H-080-100-150
	Height along adapter 80×100B200	H 80 ↔ H 100	200	0,8	0,08	2	CLP1H-080-100-200
	Height along adapter 80×100B300	H 80 ↔ H 100	300	0,8	0,12	2	CLP1H-080-100-300
	Height along adapter 80×100B400	H 80 ↔ H 100	400	0,8	0,15	2	CLP1H-080-100-400
	Height along adapter 80×100B500	H 80 ↔ H 100	500	0,8	0,18	2	CLP1H-080-100-500



Name	Depth, mm	Tray width, mm	Metal gauge, mm	Weight, kg	Package amount, pcs.	Product ID
Blind H35×100	35	100	0,8	0.031	2	CLP1Z-035-100
Blind H35×150	35	150	0,8	0.044	2	CLP1Z-035-150
Blind H35×200	35	200	0,8	0.057	2	CLP1Z-035-200
Blind H35×300	35	300	0,8	0.083	2	CLP1Z-035-300
Blind H35×50	35	50	0,8	35	2	CLP1Z-035-050
Blind H50×100	50	100	0,8	0.041	2	CLP1Z-50-100
Blind H50×150	50	150	0,8	0.058	2	CLP1Z-50-150
Blind H50×200	50	200	0,8	0.076	2	CLP1Z-050-200
Blind H50×300	50	300	0,8	0.111	2	CLP1Z-050-300
Blind H50×400	50	400	0,8	0.146	2	CLP1Z-050-400
Blind H50×50	50	50	0,8	0.023	2	CLP1Z-050-050
Blind H50×500	50	500	0,8	0.182	2	CLP1Z-050-500
Blind H80×100	80	100	0,8	0.075	2	CLP1Z-080-100
Blind H80×150	80	150	0,8	0.102	2	CLP1Z-080-150
Blind H80×200	80	200	0,8	0.129	2	CLP1Z-080-200
Blind H80×300	80	300	0,8	0.183	2	CLP1Z-080-300
Blind H80×400	80	400	0,8	0.237	2	CLP1Z-080-400
Blind H80×500	80	500	0,8	0.291	2	CLP1Z-080-500



Connection flange 50×50	50	50	1,0	0,11	40	CLP1CF-050-050
Connection flange 50×100	50	100	1,0	0,16	24	CLP1CF-050-100
Connection flange 50×150	50	150	1,0	0,21	16	CLP1CF-050-150
Connection flange 50×200	50	200	1,0	0,26	12	CLP1CF-050-200
Connection flange 50×300	50	300	1,0	0,36	8	CLP1CF-050-300
Connection flange 50×400	50	400	1,0	0,46	6	CLP1CF-050-400
Connection flange 50×500	50	500	1,0	0,56	4	CLP1CF-050-500
Connection flange 80×80	80	80	1,0	0,19	18	CLP1CF-080-080
Connection flange 80×100	80	100	1,0	0,21	16	CLP1CF-080-100
Connection flange 80×150	80	150	1,0	0,25	12	CLP1CF-080-150
Connection flange 80×200	80	200	1,0	0,31	8	CLP1CF-080-200
Connection flange 80×300	80	300	1,0	0,4	6	CLP1CF-080-300
Connection flange 80×400	80	400	1,0	0,5	4	CLP1CF-080-400
Connection flange 80×500	80	500	1,0	0,6	2	CLP1CF-080-500
Connection flange 100×100	100	100	1,0	0,24	12	CLP1CF-100-100
Connection flange 100×150	100	150	1,0	0,29	8	CLP1CF-100-150
Connection flange 100×200	100	200	1,0	0,34	6	CLP1CF-100-200
Connection flange 100×300	100	300	1,0	0,43	4	CLP1CF-100-300
Connection flange 100×400	100	400	1,0	0,53	2	CLP1CF-100-400
Connection flange 100×500	100	500	1,0	0,63	2	CLP1CF-100-500

Wire-mesh cable trays and accessories

Wire-mesh cable trays are intended for laying power and data cables inside constructions and buildings. They are most commonly used under false ceilings. Distinctive feature of arranging cables using the wire-mesh trays lies in convenient mounting applying minimum accessories as well as excellent ventilation of the cable routing. It contributes to lowering the possibility of overheating.



Advantages

- Maximum ventilation of the arranged cable routing.
- Mounting the cabling system using wire-mesh trays requires minimum accessories.
- Possible fast screw-less tray connection.
- Easy access to wiring system in the process of exploitation.
- Wide range of tray sizes and accessories provides for designing a cable routing of any complexity.

Technical Features

Material	galvanized steel
Color	white
Paint and anti-corrosion warranty	protection from rust-through corrosion – 10 years (upon meeting the operation conditions)
Application	for laying cables inside the premises
TU	IM 707.00.00.000-2005

Wire lattice trays from stainless steel

Wire lattice systems IEK® from stainless steel are widely used in energy, food and chemical sectors, in construction of buildings and in sanitary premises. Stainless steel is the most hygienic surface that is free from pores and cracks and can be easily cleaned from any contaminations.

Wire lattice systems and accessories IEK® for cables are made from AISI 304 steel by welding.



Advantages

- High corrosion resistance.
- Maximum ventilation for cable line.
- When a system of wire lattice trays is assembled, the minimum number of stainless steel accessories is used.
- The trays can be quickly joined without screws.
- All edges are rounded.
- Easy access to wiring in operation.
- The range of trays and accessories sizes allows for selection of solutions for the most difficult tasks.
- Attractive appearance

Technical characteristics

Material	stainless steel (INOX)
Color	white
Area of application	sanitary premises, food, chemical, etc. industries

Design Features



All cut edges are rounded that ensures maximum injury free operation for the personnel and excludes cable damaging.



Possible establishing of multi-level systems preserving easy access to the cable routings.



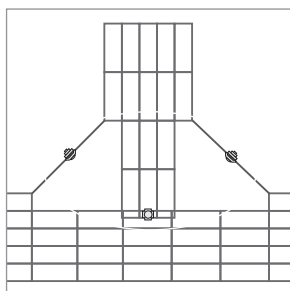
Upper longitudinal wire slightly stands proud of the tray dimensions providing for using a lock cover. Cover lock ensures its securely staying in place in case of vertical cable routing installation.



System installation can be carried out by one assembler. Cut pliers are the main installation tool.



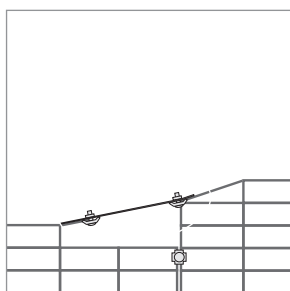
Special baffle can be used for dividing the space in two or more compartments and excluding coupling in case of mounting different cable types (data and power) in one tray.



The system can include a limited number of connectors that can be used to find out various solutions of one task. You can install new stands, connect old trays with new ones and make branches of the existing routing.

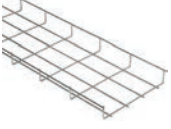


Wide range of universal fittings is provided for adjusting the trays onto walls and ceilings as well as organizing the cable routing of any complexity.



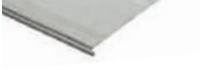
Wire-mesh tray can serve as a grounding bus. Therefore, there is no need to purchase and lay copper cable. Expenses for works and materials are lowered, thus – you can save time.

Range

	Name	Height, mm	Width, mm	Length, mm	Wire thickness	Weight, kg/m	Package amount, pcs.	Product ID
Galvanized trays 	Wire-mesh cable tray 35×100 Hz*	35	100	3000	4	0,62	30	CLWG10-035-100-3
	Wire-mesh cable tray 35×200 Hz	35	200	3000	4	0,96	6	CLWG10-035-200-3
	Wire-mesh cable tray 35×300 Hz	35	300	3000	4	1,46	6	CLWG10-035-300-3
	Wire-mesh cable tray 35×400 Hz	35	400	3000	4	1,76	6	CLWG10-035-400-3
	Wire-mesh cable tray 35×500 Hz	35	500	3000	4	1,97	6	CLWG10-035-500-3
	Wire-mesh cable tray 60×100 Hz	60	100	3000	4	0,92	6	CLWG10-060-100-3
	Wire-mesh cable tray 60×150 Hz	60	150	3000	4	1,03	18	CLWG10-060-150-3
	Wire-mesh cable tray 60×200 Hz	60	200	3000	4	1,13	6	CLWG10-060-200-3
	Wire-mesh cable tray 60×300 Hz	60	300	3000	4	1,46	6	CLWG10-060-300-3
	Wire-mesh cable tray 60×400 Hz	60	400	3000	4	1,79	6	CLWG10-060-400-3
	Wire-mesh cable tray 60×500 Hz	60	500	3000	4	2,13	6	CLWG10-060-500-3
	Wire-mesh cable tray 60×60 Hz	60	60	3000	4	0,62	18	CLWG10-060-060-3
	Wire-mesh cable tray 85×100 Hz	85	100	3000	4	1,23	6	CLWG10-085-100-3
	Wire-mesh cable tray 85×150 Hz	85	150	3000	4	1,46	6	CLWG10-085-150-3
	Wire-mesh cable tray 85×200 Hz	85	200	3000	4	2,03	6	CLWG10-085-200-3
	Wire-mesh cable tray 85×300 Hz	85	300	3000	4	2,3	6	CLWG10-085-300-3
	Wire-mesh cable tray 85×400 Hz	85	400	3000	4	2,89	6	CLWG10-085-400-3
	Wire-mesh cable tray 85×500 Hz	85	500	3000	4	3,34	6	CLWG10-085-500-3
	Wire-mesh cable tray 100×150 Hz	100	150	3000	4	1,74	6	CLWG10-100-150-3
	Wire-mesh cable tray 100×200 Hz	100	200	3000	4	2,06	6	CLWG10-100-200-3
	Wire-mesh cable tray 100×300 Hz	100	300	3000	4	2,7	6	CLWG10-100-300-3
	Wire-mesh cable tray 100×400 Hz	100	400	3000	4	3,34	6	CLWG10-100-400-3
	Wire-mesh cable tray 100×500 Hz	100	500	3000	4	3,98	6	CLWG10-100-500-3
	Reinforced wire-mesh cable tray 60×400 Hz	60	400	3000	5	2,51	6	CLWU10-060-400-3
	Reinforced wire-mesh cable tray 85×300 Hz	85	300	3000	5	2,27	6	CLWU10-085-300-3
	Reinforced wire-mesh cable tray 85×400 Hz	85	400	3000	5	2,74	6	CLWU10-085-400-3
	Reinforced wire-mesh cable tray 100×300 Hz	100	300	3000	5	2,49	6	CLWU10-100-300-3
	Reinforced wire-mesh cable tray 100×400 Hz	100	400	3000	5	2,95	6	CLWU10-100-400-3
Trays from stainless steel 	Wire lattice tray 35×100 INOX**	35	100	3000	4	0,62	6	CLWG10-035-100-3-INOX
	Wire lattice tray 35×200 INOX	35	200	3000	4	0,96	6	CLWG10-035-200-3-INOX
	Wire lattice tray 35×300 INOX	35	300	3000	4	1,46	6	CLWG10-035-300-3-INOX
	Wire lattice tray 35×400 INOX	35	400	3000	4	1,76	6	CLWG10-035-400-3-INOX
	Wire lattice tray 35×500 INOX	35	500	3000	4	1,97	6	CLWG10-035-500-3-INOX
	Wire lattice tray 60×60 INOX	60	60	3000	4	0,62	6	CLWG10-060-060-3-INOX
	Wire lattice tray 60×100 INOX	60	100	3000	4	0,92	6	CLWG10-060-100-3-INOX
	Wire lattice tray 60×150 INOX	60	150	3000	4	1,03	6	CLWG10-060-150-3-INOX
	Wire lattice tray 60×200 INOX	60	200	3000	4	1,13	6	CLWG10-060-200-3-INOX
	Wire lattice tray 60×300 INOX	60	300	3000	4	1,46	6	CLWG10-060-300-3-INOX
	Wire lattice tray 60×400 INOX	60	400	3000	4	1,79	6	CLWG10-060-400-3-INOX
	Wire lattice tray 60×500 INOX	60	500	3000	4	2,13	6	CLWG10-060-500-3-INOX
	Wire lattice tray 85×100 INOX	85	100	3000	4	1,23	6	CLWG10-085-100-3-INOX
	Wire lattice tray 85×150 INOX	85	150	3000	4	1,46	6	CLWG10-085-150-3-INOX
	Wire lattice tray 85×200 INOX	85	200	3000	4	2,03	6	CLWG10-085-200-3-INOX
	Wire lattice tray 85×300 INOX	85	300	3000	4	2,3	6	CLWG10-085-300-3-INOX
	Wire lattice tray 85×400 INOX	85	400	3000	4	2,89	6	CLWG10-085-400-3-INOX
	Wire lattice tray 85×500 INOX	85	500	3000	4	3,34	6	CLWG10-085-500-3-INOX
	Wire lattice tray 100×150 INOX	100	150	3000	4	1,74	6	CLWG10-100-150-3-INOX
	Wire lattice tray 100×200 INOX	100	200	3000	4	2,06	6	CLWG10-100-200-3-INOX
	Wire lattice tray 100×300 INOX	100	300	3000	4	2,7	6	CLWG10-100-300-3-INOX
	Wire lattice tray 100×400 INOX	100	400	3000	4	3,34	6	CLWG10-100-400-3-INOX
	Wire lattice tray 100×500 INOX	100	500	3000	4	3,98	6	CLWG10-100-500-3-INOX

* Hot galvanized wire-mesh production.

** INOX indicates to products from stainless steel.

	Name	Purpose	Length, mm	Width, mm	Height, mm	Weight, kg/m	Package amount, pcs	Product ID
	Tray cover, base 50	For protecting the cable inside the tray in cases when it is necessary.	3000	15	50	0,58	60	CLP1K-050-3
	Tray cover, base 50 mm		3000	15	50	0,58	6	CLP1K-050-1
	Tray cover, base 60 mm (length - 2 m)		2000	15	60	0,62	6	CLP1K-060-1
	Tray cover, base 60 (length - 2 m)		2000	15	60	0,62	40	CLP1K-060-2
	Tray cover, base 100		3000	15	100	0,76	36	CLP1K-100-3
	Tray cover, base 100 mm		3000	15	100	0,76	6	CLP1K-100-1
	Tray cover, base 150		3000	15	150	1,03	24	CLP1K-150-3
	Tray cover, base 150 mm		3000	15	150	1,03	6	CLP1K-150-1
	Tray cover, base 200		3000	15	200	1,5	18	CLP1K-200-3
	Tray cover, base 200 mm		3000	15	200	1,5	6	CLP1K-200-1
	Tray cover, base 300		3000	15	300	2,12	12	CLP1K-300-3
	Tray cover, base 300 mm		3000	15	300	2,12	6	CLP1K-300-1
	Tray cover, base 400		3000	15	400	3,44	6	CLP1K-400-3
	Tray cover, base 500		3000	15	500	4,22	6	CLP1K-500-3
	Splitter baffle h35 mm	For dividing the space into two or more parts in case of mounting different cable types (data and power) in one tray and for excluding coupling.	2000	25	20	0,664	2	CLP1F-035-1
	Splitter baffle h50		2000	25	35	0,979	2	CLP1F-050-2
	Splitter baffle h80		2000	25	65	1,294	2	CLP1F-080-2
	Splitter baffle h100		2000	25	85	1,609	2	CLP1F-100-2
	Screw-less connector CF	Allows connecting trays using a screw-driver without applying additional bolts.	220	31		0,30	50	CLW10-CF
	CF INOX screwless connector		220	31		0,08	50	CLW10-CF-INOX
	Perforated connector CP	For max. rigid fixation of trays having higher load capacity. Mounting method: you will need 4 MS20 metalware kits. Depending of the necessary load capacity 2-4 such kits are used.	231	28		0,10	20	CLW10-CP
	CP INOX perforated connector from stainless steel		231	28		0,06	20	CLW10-CP-INOX
	Cut pliers (bolt cutter) KPL-14	Used for wire-mesh cable trays installation (see page 571).						TKK10-D14

Suspension systems for metal cable trays

Suspension systems are intended for metal tray (steel and wire-mesh) mounting onto the buildings' elements (ceiling, walls, floor).



Made in
Russia

Advantages

- Construction of suspension system elements is mainly intended for easy and fast installation.

Technical Features:

Material
galvanized steel, stainless steel

Color
white

Paint and anti-corrosion warranty
protection from rust-through corrosion –
10 years (upon meeting the operation conditions)

Application
inside and outside industrial, commercial,
office and residential premises

for products from stainless steel:
sanitary premises, food, chemical, etc. industries

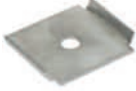
Accessories

	Name	Purpose	Length, mm	Width, mm	Height, mm	Operating load, H	Weight, kg/m	Package amount, pcs	Product ID
	Wall bracket, base 100 mm	For wall mounting.	120	30	71,5	1230	0,201	4	CLP1CW-100-1
	Wall bracket, base 150 mm		170	30	71,5	1330	0,357	4	CLP1CW-150-1
	Wall bracket, base 200 mm		220	30	112	1430	0,619	4	CLP1CW-200-1
	Wall bracket, base 300 mm		320	30	112	1940	0,854	4	CLP1CW-300-1
	Wall bracket, base 400 mm		420	30	112	1840	1,209	4	CLP1CW-400-1
	Wall bracket, base 500 mm		520	30	112	1640	1,567	4	CLP1CW-500-1
	Wall bracket, base 600 mm		620	30	112	1400	1,14	4	CLP1CW-600-1
	Wall bracket, base 100 mm INOX*		120	30	71,5	1230	0,38	4	CLP1CW-100-1-INOX
	Wall bracket, base 150 mm INOX		170	30	71,5	1330	0,5	4	CLP1CW-150-1-INOX
	Wall bracket, base 200 mm INOX		220	30	112	1430	0,58	4	CLP1CW-200-1-INOX
	Wall bracket, base 300 mm INOX		320	30	112	1940	0,76	4	CLP1CW-300-1-INOX
	Wall bracket, base 400 mm INOX		420	30	112	1840	0,96	4	CLP1CW-400-1-INOX
	Lock bracket, base 100 mm	For fixing the tray onto perforated profile.	120	27	60	1330	0,232	4	CLP1CL-100-1
	Lock bracket, base 150 mm		170	27	60	1230	0,321	4	CLP1CL-150-1
	Lock bracket, base 200 mm		220	27	60	1020	0,412	4	CLP1CL-200-1
	Lock bracket, base 300 mm		320	27	85	870	0,672	4	CLP1CL-300-1
	Lock bracket, base 400 mm		420	27	85	820	0,879	4	CLP1CL-400-1
	Lock bracket, base 500 mm		520	27	85	770	1,086	4	CLP1CL-500-1
	Lock bracket, base 600 mm		620	27	85	630	1,16	4	CLP1CL-600-1
	Bracket 100 mm	For fixing the tray onto perforated profile.	180	50	75	3000	0,3	4	CLP1CZ-100-1
	Bracket 150 mm		230	50	75	2900	0,4	4	CLP1CZ-150-1
	Bracket 200 mm		280	50	75	2500	0,5	4	CLP1CZ-200-1
	Bracket 300 mm		380	50	60	2134	1,14	4	CLP1CZ-300-1
	Bracket 400 mm		480	50	60	2024	1,42	4	CLP1CZ-400-1
	Bracket 500 mm		580	50	60	1804	1,69	4	CLP1CZ-500-1
	Bracket 600 mm		680	50	75	1500	1,6	4	CLP1CZ-600-1
	Horizontal bracket WV100	For tray fastening to ceiling using studs	95	52	27		0,10	50	CLW10-WV-100
	Horizontal bracket WV150		180	52	27		0,19	20	CLW10-WV-150
	Horizontal bracket WV200		250	52	27		0,24	20	CLW10-WV-200
	Horizontal bracket WV300		350	52	27		0,32	20	CLW10-WV-300
	Horizontal bracket WV400		450	52	27		0,41	20	CLW10-WV-400
	Horizontal bracket WV500		550	52	27		0,51	20	CLW10-WV-500
	Horizontal bracket WV100 INOX		95	52	27		0,11	50	CLW10-WV-100-INOX
	Horizontal bracket WV150 INOX		180	52	27		0,155	20	CLW10-WV-150-INOX
	Horizontal bracket WV200 INOX		250	52	27		0,22	20	CLW10-WV-200-INOX
	Horizontal bracket WV300 INOX		350	52	27		0,31	20	CLW10-WV-300-INOX
	Horizontal bracket WV400 INOX		450	52	27		0,41	20	CLW10-WV-400-INOX
	Horizontal bracket WV500 INOX		550	52	27		0,5	20	CLW10-WV-500-INOX
	Horizontal bracket VH200	For ceiling mounting using sprigs.	250	55	18	350	0,29	20	CLW10-VH-200
	Horizontal bracket VH300		350	55	18	300	0,41	20	CLW10-VH-300
	Horizontal bracket VH400		450	55	18	250	0,53	20	CLW10-VH-400
	Horizontal bracket VH500		550	55	18	175	0,65	20	CLW10-VH-500
	Horizontal bracket VH600		650	55	18	65	0,57	20	CLW10-VH-600
	Horizontal bracket VH200 INOX		250	55	18	350	0,22	20	CLW10-VH-200-INOX
	Horizontal bracket VH300 INOX		350	55	18	300	0,31	20	CLW10-VH-300-INOX
	Horizontal bracket VH400 INOX		450	55	18	250	0,41	20	CLW10-VH-400-INOX
	Horizontal bracket VH500 INOX		550	55	18	175	0,5	20	CLW10-VH-500-INOX

* INOX indicates to products from stainless steel.

Name		Purpose	Bigger shelf length, mm	Smaller shelf length, mm	Width, mm	Height, mm	Load-bearing capacity, kg	Weight, kg	Package amount, pcs	Product ID
VR ceiling arm 	VR100	For tray fastening to ceiling or wall	138	85	55	165	80	0,3	4	CLW10-VR-100
	VR150		188	90	55	165	70	0,55	4	CLW10-VR-150
	VR200		238	105	55	175	60	0,41	4	CLW10-VR-200
	VR300		338	140	55	185	45	0,52	4	CLW10-VR-300
	VR100 INOX		138	85	55	165	80	0,3	4	CLW10-VR-100-INOX
	VR150 INOX		188	90	55	165	70	0,35	4	CLW10-VR-150-INOX
	VR200 INOX		238	105	55	175	60	0,4	4	CLW10-VR-200-INOX
	VR300 INOX		338	140	55	185	45	0,5	4	CLW10-VR-300-INOX
VC arm 	VC100	For tray fastening to wall	138		55	90	115	0,18	10	CLW10-VC-100
	VC150		188		55	95	115	0,23	10	CLW10-VC-150
	VC200		238		55	105	90	0,28	10	CLW10-VC-200
	VC300		338		55	115	60	0,38	10	CLW10-VC-300
	VC400		438		55	125	45	0,49	10	CLW10-VC-400
	VC100 INOX		138		55	90	95	0,19	10	CLW10-VC-100-INOX
	VC150 INOX		188		55	95	65	0,25	10	CLW10-VC-150-INOX
	VC200 INOX		238		55	105	47	0,29	10	CLW10-VC-200-INOX
	VC300 INOX		338		55	115	30	0,38	10	CLW10-VC-300-INOX
	VC400 INOX		438		55	125	24	0,48	10	CLW10-VC-400-INOX
VCEF arm 	VCEF 100	For screwless fastening of wire lattice tray to wall	140		55	90	95	0,2	10	CLW10-VCEF-100
	VCEF 150		190		55	100	65	0,25	10	CLW10-VCEF-150
	VCEF 200		240		55	100	47	0,29	10	CLW10-VCEF-200
	VCEF 300		340		55	112	30	0,38	10	CLW10-VCEF-300
	VCEF 400		440		55	122	24	0,48	10	CLW10-VCEF-400
	VCEF 100 INOX		140		55	90	95	0,19	10	CLW10-VCEF-100-INOX
	VCEF 150 INOX		190		55	100	65	0,25	10	CLW10-VCEF-150-INOX
	VCEF 200 INOX		240		55	100	47	0,29	10	CLW10-VCEF-200-INOX
	VCEF 300 INOX		340		55	112	30	0,38	10	CLW10-VCEF-300-INOX
	VCEF 400 INOX		440		55	122	24	0,48	10	CLW10-VCEF-400-INOX
VREF ceiling arm 	VREF 100	For screwless fastening of wire lattice tray to ceiling	140		55	163	55	0,325	4	CLW10-VREF-100
	VREF 150		190		55	170	44	0,4	4	CLW10-VREF-150
	VREF200		240		55	172	36	0,455	4	CLW10-VREF-200
	VREF300		340		55	172	27	0,585	4	CLW10-VREF-300
	VREF 100 INOX		140		55	163	55	0,3	4	CLW10-VREF-100-INOX
	VREF 150 INOX		190		55	170	44	0,35	4	CLW10-VREF-150-INOX
	VREF200 INOX		240		55	172	36	0,4	4	CLW10-VREF-200-INOX
	VREF300 INOX		340		55	172	27	0,5	4	CLW10-VREF-300-INOX
C-shaped hanger 		For fastening of cable line to ceiling by nail gun				100		0,44	70	CLW10-VRU-100
						150		0,53	50	CLW10-VR-150
						200		0,62	30	CLW10-VRU-200
						300		0,78	10	CLW10-VRU-300
NKU reinforced arm 		Purpose	Shape thickness, mm	Base thickness, mm	Length, mm	Width, mm	Base height, mm	Load, kg	Weight, kg	Product ID
	NKU200 HDZ*	For fastening of tray to shape or bearing surface	2	4	234	38	130	370	0,62	CLW10-NKU-200-020-4-HDZ
	NKU300 HDZ		2	4	334	38	150	360	0,8	CLW10-NKU-300-020-4-HDZ
	NKU400 HDZ		2,5	4	434	38	150	350	1,12	CLW10-NKU-400-025-4-HDZ
	NKU500 HDZ		2,5	4	544	38	170	300	1,46	CLW10-NKU-500-025-4-HDZ
	NKU600 HDZ		2,5	4	644	38	170	270	1,68	CLW10-NKU-600-025-4-HDZ

* Products made from steel with zinc coating applied by item dipping into molten zinc.

Description			Length, mm	Width, mm	Height, mm	Thickness of metal, mm	Weight, kg	Package qty, pcs.	Product ID
CR fixing plate 	CR	For suspension of trays on a stud. Can be used for side fastening to wall or joining of trays.	52	52			0,04	200	CLW10-CR
	CR INOX		52	52			0,05	20	CLW10-CR-INOX
DR ceiling holder 	DR	For tray fastening to ceiling using studs	62	60	32		0,03	50	CLW10-DR
	DR INOX		62	60	32		0,07	50	CLW10-DR-INOX
Wall bracket 		For fastening of cable line to floors and walls. T-shaped connection of metal trays is possible.	90	50			0,15	10	CLP1-UKK
GP grounding plate 		For bonding of joined elements of trays and accessories	52	18		1,0	0,03	100	CLP1Z-GP
Mounting plate 	Mounting plate	For mounting of soldering boxes or fastening of trays of length up to 100 mm to walls					0,168	50	CLP1M-MP
	Mounting plate INOX						0,08	50	CLP1M-MP-INOX
Ceiling brace 		For fastening of perforated shape to ceiling	120	62	72,5	2,5	0,357	40	CLP1Q-050
Purpose			Shape thickness, mm	Base thickness, mm	Length, mm	Width, mm	Base height, mm	Load, kg	Product ID
Ceiling bracket 	SSH	For orthogonal suspension of cable line.	2	5	115	100	150	500	CLW10-SSH
	SSH-400	Can be used for installation	2	5	115	100	400	500	CLW10-SSH-400
	SSH-600	of wall-mounted	2	5	115	100	600	500	CLW10-SSH-600
	SSH 400 HDZ	and floor-mounted	2	5	405	100	150	500	CLW10-SSH-400 HDZ
	SSH 600 HDZ	variants of cable line	2	5	615	120	160	500	CLW10-SSH-600 HDZ
	double BSD		2	5	115	120	160	500	CLW10-BSD
	double BSD-400		2	5	115	120	400	500	CLW10-BSD-400
	double BSD-600		2	5	115	120	600	500	CLW10-BSD-600
	double BSD 400 HDZ		2	5	405	100	150	500	CLW10-BSD-400 HDZ
	double BSD 600 HDZ		2	5	615	120	160	500	CLW10-BSD-600 HDZ
Purpose			Shape thickness, mm	Height, mm	Hole diam., mm		Weight, kg	Package qty, pcs.	Product ID
SSU ceiling bracket 	SSU ceiling bracket	For orthogonal suspension of cable line. Can be used for installation of wall-mounted and floor-mounted variants of cable line	2	105	10		0,7	2	CLW10-SSU

	Description	Purpose	Length, mm	Width, mm	Height, mm	Thickness of metal, mm	Weight, kg	Package qty., pcs	Product ID
	Perforated shape 250	For suspension of trays on brackets to ceiling or wall	250	56	40	2,5	0,45	2	CLP1Z-050-025
	Perforated shape 400		400	56	40	2,5	0,72	2	CLP1Z-050-04
	Perforated shape 600		600	56	40	2,5	1,09	2	CLP1Z-050-06
	Perforated shape 1000		1000	56	40	2,5	1,81	2	CLP1Z-050-10
	Perforated shape 1500		1500	56	40	2,5	2,72	2	CLP1Z-050-15
	Perforated shape 2000		2000	56	40	2,5	3,62	2	CLP1Z-050-20
	Perforated shape 2,5 m		2500	56	40	2,5	4,525	2	CLP1Z-050-25-1
	Perforated C-shape	For installation of cable lines on ceiling and mounting of bearing structures for lighting, air ducts and piping	2500	40	20	2,5	1,75	2	CLP1C-020-030
	Perforated L-shape		2500	30	30	2,5	1,32	2	CLP1L-030-030
	Wall-mounted shape	For suspension of trays on wall brackets	120	56	40	2,5	0,22	2	CLP1Z-050-100
	Shape joining piece	For increase of suspension level using perforated shapes	120	—	—	2	0,22	2	CLP1Z-CP-050-1
	Ladder clamp	For fixing of ladder trays on brackets	40	27	—	2	0,02	50	CLP1P-PL
	Vertical mounting plate	For installation of soldering boxes of KM series	135	104		1,5	0,15	10	CLP1M-MPV
	On-floor mount	For on-floor fixing of cable line. Can be used for installation of cable line on walls.	100	90	50,5	—	0,17	10	CLW10-SN-100
Bushing for perforated shape									
	Purpose		Length, mm	External diam. D, mm	Internal diam. d, mm	Thickness of metal, mm	Weight, kg	Package qty, pcs.	Product ID
	Used to add rigidity to a perforated shape and protect from deformation in points of connection with accessories		50	17	13	2,0	0,037	16	CLP1ZU-50



Description	Purpose	Length, mm	Width, mm	Height, mm	Thickness of metal, mm	Weight, kg	Package qty., pcs	Product ID
Lower suspension yoke	For arrangement of cable line suspension system using studs or directly to bearing surface	128	40	120	2	0,22	10	CLP1-SPN-100
		178	46	132	2	0,25	10	CLP1-SPN-150
		228	46	132	2	0,37	10	CLP1-SPN-200
		328	46	132	2	0,48	10	CLP1-SPN-300
		428	46	132	2	0,58	10	CLP1-SPN-400
		528	46	132	2	0,69	10	CLP1-SPN-500



Upper suspension yoke		128	46	120	2	0,22	10	CLP1-SPV-100
		178	46	132	2	0,28	10	CLP1-SPV-150
		228	46	132	2	0,33	10	CLP1-SPV-200
		328	46	132	2	0,44	10	CLP1-SPV-300
		428	46	132	2	0,55	10	CLP1-SPV-400
		528	46	132	2	0,65	10	CLP1-SPV-500



Wall mount	For fixing of cable line to floors or walls	137	50	30	2	0,12	10	CLW10-SNP-50
		187	50	30	2	0,16	10	CLW10-SNP-100
		237	50	30	2	0,19	10	CLW10-SNP-150
		287	50	30	2	0,23	10	CLW10-SNP-200
		387	50	30	2	0,32	10	CLW10-SNP-300
		487	50	30	2	0,40	10	CLW10-SNP-400
		587	50	30	2	0,48	10	CLW10-SNP-500



K1157* yoke	For fixing of K1150-K1155 mounts to bearing surface	160	45	30	2	0,14	50	CLW10-GEM-KS-1157
K1157 Y3** yoke		160	45	30	2	0,14	50	CLW10-GEM-KS-1157-U3
K1157 YT1,5*** yoke		160	45	30	2	0,14	50	CLW10-GEM-KS-1157-UT15



Description	Purpose	Length, mm	Width, mm	Height, mm	Thickness of metal, mm	Weight, kg	Number of holes for installation of shelves	Package qty., pcs.	Product ID
Cable shelf K1160	For installation of cable lines on walls or ceilings using K1150-K1155 mounts	175	160	51	2,0	175	5	12	CLW10-GEM-PK-150
Cable shelf K1160 Y3		175	160	51	2,0	175	5	12	CLW10-GEM-PK-150-U3
Cable shelf K1160 YT1,5		175	160	51	2,0	175	5	12	CLW10-GEM-PK-150-UT15
Cable shelf K1161		267	250	60	2,0	275	8	12	CLW10-GEM-PK-250
Cable shelf K1161 Y3		267	250	60	2,0	275	8	12	CLW10-GEM-PK-250-U3
Cable shelf K1161 YT1,5		267	250	60	2,0	275	8	12	CLW10-GEM-PK-250-UT15
Cable shelf K1162		367	350	63	2,0	400	11	12	CLW10-GEM-PK-350
Cable shelf K1162 Y3		367	350	63	2,0	400	11	12	CLW10-GEM-PK-350-U3
Cable shelf K1162 YT1,5		367	350	63	2,0	400	11	12	CLW10-GEM-PK-350-UT15
Cable shelf K1163		467	450	76	2,0	500	13	12	CLW10-GEM-PK-450
Cable shelf K1163 Y3		467	450	76	2,0	500	13	12	CLW10-GEM-PK-450-U3
Cable shelf K1163 YT1,5		467	450	76	2,0	500	13	12	CLW10-GEM-PK-450-UT15

* Galvanized steel.

** Painted steel.

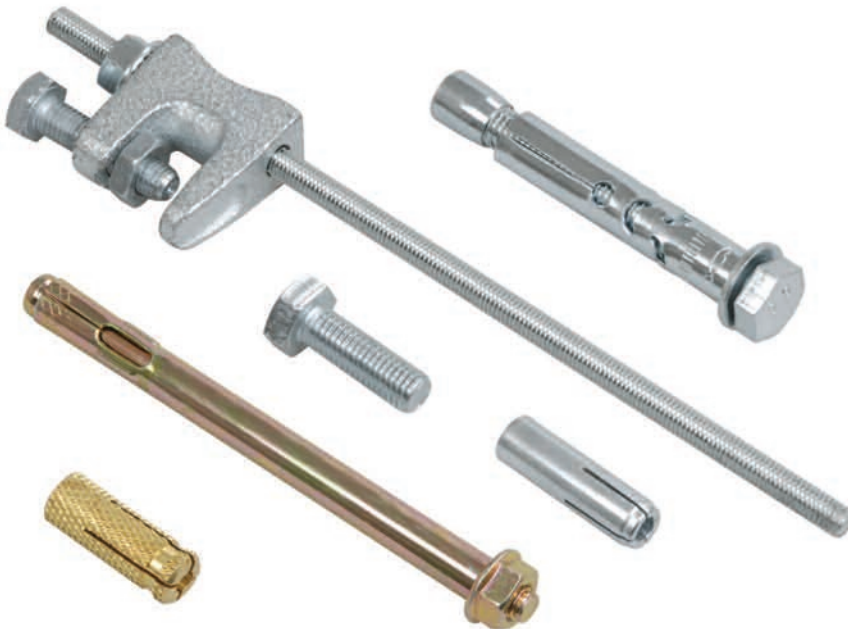
*** Products made from steel with zinc coating applied by item dipping into molten zinc.



Description	Purpose	Length, mm	Width, mm	Height, mm	Thickness of metal, mm	Weight, kg	Number of holes for installation of shelves	Package qty, pcs.	Product ID
Cable mount K1150	For installation of cable lines on walls or ceilings	400	26	60	2,5	0,64	8	20	CLW10-GEM-SK-400
Cable mount K1151		600	26	60	2,5	0,95	12	20	CLW10-GEM-SK-600
Cable mount K1152		800	26	60	2,5	1,37	16	10	CLW10-GEM-SK-800
Cable mount K1153		1200	26	60	2,5	1,89	24	10	CLW10-GEM-SK-1200
Cable mount K1154		1800	26	60	2,5	2,88	36	10	CLW10-GEM-SK-1800
Cable mount K1155		2200	26	60	2,5	3,54	44	10	CLW10-GEM-SK-2200
Cable mount K1150 Y3		400	26	60	2,5	0,64	8	20	CLW10-GEM-SK-400-U3
Cable mount K1150 YT1,5		400	26	60	2,5	0,64	8	20	CLW10-GEM-SK-400-UT15
Cable mount K1151 Y3		600	26	60	2,5	0,95	12	20	CLW10-GEM-SK-600-U3
Cable mount K1151 YT1,5		600	26	60	2,5	0,95	12	20	CLW10-GEM-SK-600-UT15
Cable mount K1152 Y3		800	26	60	2,5	1,37	16	10	CLW10-GEM-SK-800-U3
Cable mount K1152 YT1,5		800	26	60	2,5	1,37	16	10	CLW10-GEM-SK-800-UT15
Cable mount K1153 Y3		1200	26	60	2,5	1,89	24	10	CLW10-GEM-SK-1200-U3
Cable mount K1153 YT1,5		1200	26	60	2,5	1,89	24	10	CLW10-GEM-SK-1200-UT15
Cable mount K1154 Y3		1800	26	60	2,5	2,88	36	10	CLW10-GEM-SK-1800-U3
Cable mount K1154 YT1,5		1800	26	60	2,5	2,88	36	10	CLW10-GEM-SK-1800-UT15
Cable mount K1155 Y3		2200	26	60	2,5	3,54	44	10	CLW10-GEM-SK-2200-U3
Cable mount K1155 YT1,5		2200	26	60	2,5	3,54	44	10	CLW10-GEM-SK-2200-UT15

Metalware

Metalware is intended for mounting metal cable trays (of steel, wire-mesh, ladder and other types) along the buildings' construction elements (walls, ceiling or floor) as well as for tray interconnection.



Advantages

- Construction of metalware joints is primarily designed for easy and fast mounting.

Technical Features:

- Material
 - galvanized steel
- Color
 - white
- Paint and anti-corrosion warranty
 - protection from rust-through corrosion – 10 years (upon meeting the operation conditions)
- Application
 - inside and outside industrial, commercial, office and residential premises limited

Аксессуары

Name		Purpose	Thread, mm	Screw type	Screw bolt length, mm	Weight, kg	Package amount, pcs.	Product ID
MDS connection set 	MDS	For interconnecting any tray parts or elements.	M6	M6×20			50	CLW10-MDS
	MDS20 INOX		M6	M6×20		0,03	50	CLW10-MDS-20-INOX
MS connection set 	MS	For interconnecting trays and accessories.	M6	M6×20			50	CLW10-MS-20
	MS INOX		M6	M6×20		0,02	50	CLW10-MS-20-INOX
KS M6×10 connection set 		For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6	M6×10	10	0,008	200	CLP1M-CS-6-10
Screw M6×10 		For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6	M6×10	10	1,6	200	CLP1M-V-6-10
Screw bolt M8×65 with a stop clamp 		For interconnecting trays and accessories as well as attachment to bearing surfaces.	M8	M8×65	65	0,03	200	CLP1M-B-8-65
Hexagon bolt 	For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6	M6×20	20	1,31	200	CLP1M-B-6-20	
		M8	M8×20	20	1,38	100	CLP1M-B-8-20	
		M8	M8×30	30	1,08	60	CLP1M-B-8-30	
		M8	M8×40	40	1,09	50	CLP1M-B-8-40	
		M8	M8×50	50	1,24	50	CLP1M-B-8-50	
		M8	M8×60	60	1,15	40	CLP1M-B-8-60	
		M8	M8×70	70	1,00	30	CLP1M-B-8-70	
		M10	M10×20	20	1,21	50	CLP1M-B-10-20	
		M10	M10×30	30	0,94	30	CLP1M-B-10-30	
		M10	M10×40	40	1,09	30	CLP1M-B-10-40	
		M10	M10×50	50	1,24	30	CLP1M-B-10-50	
		M12	M12×20	20	1,08	30	CLP1M-B-12-20	
		M12	M12×30	30	0,90	20	CLP1M-B-12-30	
		M12	M12×40	40	1,05	20	CLP1M-B-12-40	
		M12	M12×50	50	1,19	20	CLP1M-B-12-50	
Anchor bolt 	For attachment of heavy constructions, cable routings, bearing wall brackets, metal profiles etc. with a straight-through joint method.	M8	M8×40	40	2,59	150	CLP1M-A-B-8-40	
		M8	M8×65	65	2,55	100	CLP1M-A-B-8-65	
		M8	M8×85	85	2,50	80	CLP1M-A-B-8-85	
		M10	M10×40	40	2,97	100	CLP1M-A-B-10-40	
		M10	M10×50	50	2,72	80	CLP1M-A-B-10-50	
		M10	M10×75	75	2,40	50	CLP1M-A-B-10-75	
		M10	M10×95	95	2,85	50	CLP1M-A-B-10-95	
		M12	M12×100	100	2,79	30	CLP1M-A-B-12-100	
		M12	M12×60	60	3,07	50	CLP1M-A-B-12-60	

Name	Purpose	Thread, mm	Screw type	Screw bolt length, mm	Weight, kg	Package amount, pcs.	Product ID
Sprig 	For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6	M6×1000	1000	8,65	50	CLW10-TM-06-1
		M8	M8, 1 m	1000	15	50	CLW10-TM-08-1
		M10	M10×1000	1000	9,55	20	CLW10-TM-10-1
		M12	M12×1000	1000	7,25	10	CLW10-TM-12-1
		M6	M6×2000	2000	17,15	100	CLW10-TM-06-2
		M8	M8, 2 m	2000	14,7	25	CLW10-TM-08-2
		M10	M10×2000	2000	18,95	40	CLW10-TM-10-2
		M12	M12×2000	2000	14,35	20	CLW10-TM-12-2
Nut with a stop clamp 	For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6			1,40	400	CLP1M-N-6
		M8			1,90	200	CLP1M-N-8
		M8			1,9	200	CLP1M-N-8-1
		M10			1,31	100	CLP1M-N-10
		M12			1,02	50	CLP1M-N-12
Hexagon nut 	For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6			1,40	500	CLP1M-G-6
		M8			1,19	200	CLP 1M-G-8
		M10			1,31	100	CLP1M-G-10
		M12			1,02	50	CLP1M-G-12
Nipple 	For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6			0,95	100	CLP1M-GS-6
		M8			1,05	50	CLP1M-GS-8
		M10			1,35	30	CLP1M-GS-10
		M12			1,25	20	CLP1M-GS-12
Plain washer 	For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6			1,15	400	CLP1M-SH-6
		M8			1,035	150	CLP1M-SH-8
		M10			1,35	100	CLP1M-SH-10
		M12			1,15	50	CLP1M-SH-12
Reinforced plain washer 	For interconnecting trays and accessories as well as attachment to bearing surfaces.	M6			1,15	400	CLP1M-SHU-6
		M8			1,035	150	CLP1M-SHU-8
		M10			1,35	100	CLP1M-SHU-10
		M12			1,15	50	CLP1M-SHU-12
Steel anchor 	For attachment of heavy constructions, cable routings, bearing wall brackets, plate and shaped steel etc.	M6		25	0,83	100	CLP1M-AS-6
		M8		30	1,37	100	CLP1M-AS-8
		M10		40	1,29	50	CLP1M-AS-10
		M12		50	2,465	50	CLP1M-AS-12
Brass anchor 	For attachment of heavy constructions, cable routings, bearing wall brackets, plate and shaped steel etc.	M6		24	0,62	100	CLP1M-AL-6
		M8		31	0,96	100	CLP1M-AL-8
		M10		34	0,85	50	CLP1M-AL-10
		M12		41	1,35	50	CLP1M-AL-12
Screw-clamp 	For attachment to bearing surfaces.	M8			11	100	CLP1M-SBC-8
		M10			16	100	CLP1M-SBC-10
V-type hanger 	For attachment to bearing surfaces.	M8			11	100	CLP1M-VP-8
		M10			12	100	CLP1M-VP-10

Ropes

Used for arrangement of suspension for cable lines and lighting systems.

	Description	Length, mm	Diameter, mm	Breaking load, kN	Work load, kN	Cross-section area, mm ²	Thread	Weight, kg/pc.	Package qty, pcs.	Product ID
	Steel rope with loop 1 m	1000	2	2,45	0,47	1,5		0,05	1	CLP1M-SRL-2-01
	Steel rope with loop 2 m	2000	2	2,45	0,47	1,5		0,09	1	CLP1M-SRL-2-02
	Steel rope with loop 3 m	3000	2	2,45	0,47	1,5		0,11	1	CLP1M-SRL-2-03
	Steel rope with loop 5 m	5000	2	2,45	0,47	1,5		0,15	1	CLP1M-SRL-2-05
	Steel rope with loop 7 m	7000	2	2,45	0,47	1,5		0,19	1	CLP1M-SRL-2-07
	Steel rope with loop 10 m	10 000	2	2,45	0,47	1,5		0,25	1	CLP1M-SRL-2-10
	Steel rope with latch hook 1 m	1000	2	2,45	0,47	1,5		0,09	1	CLP1M-SRC-2-01
	Steel rope with latch hook 2 m	2000	2	2,45	0,47	1,5		0,11	1	CLP1M-SRC-2-02
	Steel rope with latch hook 3 m	3000	2	2,45	0,47	1,5		0,13	1	CLP1M-SRC-2-03
	Steel rope with latch hook 5 m	5000	2	2,45	0,47	1,5		0,17	1	CLP1M-SRC-2-05
	Steel rope with latch hook 7 m	7000	2	2,45	0,47	1,5		0,21	1	CLP1M-SRC-2-07
	Steel rope with latch hook 10 m	10000	2	2,45	0,47	1,5		0,27	1	CLP1M-SRC-2-10
	Steel rope with eye-bolt M6, 1 m	1000	2	2,45	0,47	1,5	M6	0,08	1	CLP1M-SRB-2-6-01
	Steel rope with eye-bolt M6, 2 m	2000	2	2,45	0,47	1,5	M6	0,1	1	CLP1M-SRB-2-6-02
	Steel rope with eye-bolt M6, 3 m	3000	2	2,45	0,47	1,5	M6	0,12	1	CLP1M-SRB-2-6-03
	Steel rope with eye-bolt M6, 5 m	5000	2	2,45	0,47	1,5	M6	0,16	1	CLP1M-SRB-2-6-05
	Steel rope with eye-bolt M6, 7 m	7000	2	2,45	0,47	1,5	M6	0,2	1	CLP1M-SRB-2-6-07
	Steel rope with eye-bolt M6, 10 m	10000	2	2,45	0,47	1,5	M6	0,26	1	CLP1M-SRB-2-6-10
	Steel rope with eye-bolt M8, 1 m	1000	2	2,45	0,47	1,5	M8	0,09	1	CLP1M-SRB-2-8-01
	Steel rope with eye-bolt M8, 2 m	2000	2	2,45	0,47	1,5	M8	0,11	1	CLP1M-SRB-2-8-02
	Steel rope with eye-bolt M8, 3 m	3000	2	2,45	0,47	1,5	M8	0,13	1	CLP1M-SRB-2-8-03
	Steel rope with eye-bolt M8, 5 m	5000	2	2,45	0,47	1,5	M8	0,17	1	CLP1M-SRB-2-8-05
	Steel rope with eye-bolt M8, 7 m	7000	2	2,45	0,47	1,5	M8	0,21	1	CLP1M-SRB-2-8-07
	Steel rope with eye-bolt M8, 10 m	10000	2	2,45	0,47	1,5	M8	0,27	1	CLP1M-SRB-2-8-10

Perforated mounting band

For suspension of various air ducts as well as lightweight piping including of non-standard sizes, and for fastening of other mounting hardware.

	Description	Width, mm	Thickness of metal, mm	Weight, kg/m	Package qty, pcs.	Product ID
	Perforated mounting band 12×0,55	12	0,55	0,063	25	CLP1M-LP-12-055
	Perforated mounting band 20×0,7	20	0,75	0,08	25	CLP1M-LP-20-1
	Perforated mounting band 20×1,0	20	1,0	0,115	25	CLP1M-LP-20-2

Chains

Used for arrangement of suspension for cable lines and lighting systems.

	Description	Length, mm	Diameter, mm	Internal length of link, mm	External width of link, mm	Work load, kN	Breaking load, kN	Weight, kg/pc.	Package qty, pcs.	Product ID
	Short-link chain 1 m	1000	2	12	7,5	80	125	0,12	1	CLP1M-CKZ-3-01
	Short-link chain 2 m	2000	2	12	7,5	80	125	0,27	1	CLP1M-CKZ-3-02
	Short-link chain 3 m	3000	2	12	7,5	80	125	0,4	1	CLP1M-CKZ-3-03
	Short-link chain 5 m	5000	2	12	7,5	80	125	0,69	1	CLP1M-CKZ-3-05
	Short-link chain 7 m	7000	2	12	7,5	80	125	1,0	1	CLP1M-CKZ-3-07
	Short-link chain 10 m	10000	2	12	7,5	80	125	1,4	1	CLP1M-CKZ-3-10
	Long-link chain 1 m	1000	2	22	8	80	125	0,15	1	CLP1M-CDZ-3-01
	Long-link chain 2 m	2000	2	22	8	80	125	0,29	1	CLP1M-CDZ-3-02
	Long-link chain 3 m	3000	2	22	8	80	125	0,44	1	CLP1M-CDZ-3-03
	Long-link chain 5 m	5000	2	22	8	80	125	0,73	1	CLP1M-CDZ-3-05
	Long-link chain 7 m	7000	2	22	8	80	125	1,02	1	CLP1M-CDZ-3-07
	Long-link chain 10 m	10000	2	22	8	80	125	1,45	1	CLP1M-CDZ-3-10
	Description	Purpose			Diameter, mm	Screw thread	Weight, kg/pc.	Package qty, pcs.	Product ID	
	S-shaped hook 5 mm	For use as hanger or connector for ropes and chains			5	—	0,07	4	CLP1P-KS-5	
	Chain connector 4 mm	For use as hanger or connector for ropes and chains			4	—	0,04	5	CLP1P-SC-4	
	Latch hook of screw-type 4 mm	For connection of chains and ropes of different types during repair or extension			4	—	0,06	5	CLP1P-KV-4	
	Duplex rope clamp 2 mm	For connection of ropes and making of loops on rope ends			2	M3	0,09	5	CLP1P-ZTVD-2	
	Description	Purpose		Work load, kg	External diameter, mm	Internal diameter, mm	Thread	Weight, kg/pc.	Package qty, pcs.	Product ID
	Eyebolt M6	For installation into bearing surface for subsequent suspension of cable line using ropes, chains or studs		70	28	16	M6	0,16	3	CLP1M-RB-6
	Eyebolt M8			140	36	20	M8	0,17	3	CLP1M-RB-8
	Eyebolt M10			230	45	25	M10	0,21	2	CLP1M-RB-10
	Eye-nut M6	For fastening to bearing surface using studs, bolts for subsequent suspension of cable and lighting line supports		70	36	20	M6	0,14	3	CLP1M-RG-6
	Eye-nut M8			140	36	20	M8	0,15	3	CLP1M-RG-8
	Eye-nut M10			230	45	25	M10	0,2	2	CLP1M-RG-10

Reference Information

Cable selection recommendations

Cable volume is an important factor influencing the selection of containments.

Cable size is calculated based on the theoretically used tray zone: cross sectional area and occupation factor.

Commonly, this factor equals to 0,5. Wire section (in particular – the cross sectional area) is determined by its diameter. Usually, it is regarded based on the calculation that 1 kW load requires 1,57 mm² size wire. This implies approximate cable section values you should stick to when selecting its diameter. For aluminum wires the value shall amount to 5 A per 1 mm², for copper – 8 A per 1 mm².

Conditions of selecting cables for trays:

- Cable diameter should not exceed the tray depth;
- When selecting the angle for bends and branches, it is necessary to take into account the cable bend radius;
- Occupation factor should be also taken into account.

Power supply cable

Marking	Diameter, mm	Cross section, mm ²	Cable weight, kg/m
1×4	6,5	0,42	0,08
1×6	7	0,49	0,105
1×10	8	0,64	0,9
1×16	9,5	0,155	0,23
1×25	12,5	1,56	0,33
3×1,5	8,5	0,72	0,135
3×2,5	9,5	0,9	0,19
3×4	11	1,21	0,265
4×1,5	9	0,81	0,16
4×2,5	10,5	1,1	0,23
4×4	12,5	1,56	0,33
4×6	13,5	1,82	0,46
4×10	16,5	2,72	0,69
4×16	19	3,61	1,09
4×25	23,5	5,52	1,64
4×35	26	6,76	2,09
5×1,5	9,5	0,9	0,19
5×2,5	11	1,21	0,27
5×4	13,5	1,82	0,41
5×6	14,5	2,1	0,54
5×10	18	3,24	0,85
5×16	21,5	4,62	1,35
5×25	26	6,76	1,99
7×1,5	10,5	1,1	0,235
7×2,5	13	1,69	0,35

Communication line cable

2×2×0,6	5	0,25	0,03
4×2×0,6	5,5	0,3	0,035
6×2×0,6	6,5	0,42	0,05
10×2×0,6	7,5	0,56	0,065
20×2×0,6	9	0,81	0,11
40×2×0,6	11	1,12	0,2
60×2×0,6	13	1,69	0,275
100×2×0,6	17	2,89	0,445
200×2×0,6	23	5,29	0,87
2×2×0,8	6	0,36	0,04
4×2×0,8	7	0,49	0,055
6×2×0,8	8,5	0,72	0,08
10×2×0,8	9,5	0,9	0,115
20×2×0,8	13	1,69	0,205
40×2×0,8	16,5	2,72	0,38
60×2×0,8	20	4	0,54
100×2×0,8	25,5	6,5	0,875
200×2×0,8	32	10,24	1,79

Insulated power supply cable

Marking	Diameter, mm	Cross section, mm ²	Cable weight, kg/m
1×10	10,5	1,1	0,18
1×16	11,5	1,32	0,24
1×25	12,5	1,56	0,35
1×35	13,5	1,82	0,46
1×50	15,5	2,4	0,6
1×70	16,5	2,72	0,8
1×95	18,5	3,42	1,1
1×120	20,5	4,2	1,35
1×150	22,5	5,06	1,65
1×185	25	6,25	2
1×240	28	7,84	2,6
1×300	30	9	3,2
3×1,5	11,5	1,32	0,19
3×2,5	12,5	1,56	0,24
3×10	17,5	3,06	0,58
3×16	19,5	3,8	0,81
3×50	26	6,76	1,8
3×70	30	9	2,4
3×120	36	12,96	4
4×1,5	12,5	1,56	0,22
4×2,5	13,5	1,82	0,29
4×6	16,5	2,72	0,4
4×10	18,5	3,42	0,66
4×16	21,5	4,62	1,05
4×25	25,5	6,5	1,6
4×35	28	7,84	1,75
4×50	30	9	2,3
4×70	34	11,56	3,1
4×95	39	15,21	4,2
4×120	42	17,64	5,2
4×150	47	22	6,4
4×185	52	27	8,05
4×240	58	33,6	11
5×1,5	13,5	1,82	0,27
5×2,5	14,5	2,1	0,35
5×6	18,5	3,42	0,61
5×10	20,5	4,2	0,88
5×16	22,5	5,06	1,25
5×25	27,5	7,56	1,95
5×35	34	11,56	2,4
5×50	40	16	3,5

Mounting boxes



Mounting boxes for solid walls

This series of installation and distribution boxes is intended for mounting various electric installation equipment (sockets, switches, dimmers etc.) into solid brick or concrete walls. With a cover these devices can be applied as pull (distribution) boxes for cable and wire allocation.

Material – PPR. KM41006 box base is made of ABC-plastic, cover – PS. Protection degree – IP20.

Range

	Name	Size, mm	Package amount, pcs.	Product ID
	KM40001 modular installation box for solid walls (in set with self-drilling screws)	Ø63×40	300	UKT10-063-040-000
	KM40002 modular installation box for solid walls (in set with self-drilling screws)	Ø65×40	300	UKT10-065-040-000
	KM40007 double installation box for solid walls (in set with self-drilling screws)	141×70×45	100	UKT20-141-070-045
	KM40009 triple installation box for solid walls (in set with self-drilling screws)	212×70×45	45	UKT30-212-070-045
	KM41001 pull box for solid walls (in set with self-drilling screws and a cover)	92×92×45	126	UKT11-092-092-040
	KM41004 pull box for solid walls (in set with a cover)	Ø80×40	175	UKT01-080-040-000
	KM41005 pull box for solid walls (in set with a cover)	Ø70×30	300	UKT01-070-030-000
	KM41006 pull box for solid walls (in set with self-drilling screws and a cover)	172×96×45	70	UKT11-172-096-045

Mounting boxes and accessories for hollow walls

This series of installation and distribution boxes is intended for mounting various electric installation equipment (sockets, switches, dimmers etc.) into hollow walls or divisions. With a cover, these devices can be applied as pull (distribution) boxes for cable and wire allocation.

Made in
Russia

Material – PPR. KM41026 box base is made of ABC-plastic, cover – PS. Protection degree – IP20.

Range

	Name	Size, mm	Package amount, pcs.		Product ID
			multiple	transport	
	KM40021 installation box for hollow walls (in set with self-drilling screws and metal claws)	Ø65×40		250	UKG10-065-040-000-M
	KM40022 installation box for hollow walls (in set with self-drilling screws and plastic claws)	Ø65×46		100	UKG10-065-040-000-P
	KM40023 double installation box for hollow walls (in set with self-drilling screws and metal claws)	141×70×45	100		UKG20-141-070-045-M
	KM40024 triple installation box for hollow walls (in set with self-drilling screws and metal claws)	212×70×45	45		UKG30-212-070-045-M
	KM41021 pull box for hollow walls (in set with self-drilling screws, metal claws and a cover)	92×92×45		126	UKG11-092-092-040-M
	KM41022 pull box for hollow walls (in set with self-drilling screws, plastic claws and a cover)	92×92×45		126	UKG11-092-092-040-P
	KM41024 pull box for hollow walls (in set with self-drilling screws, metal claws and a cover)	Ø80×40		175	UKG01-080-040-000-M
	KM41026 pull box for hollow walls (in set with self-drilling screws, plastic claws and a cover)	172×96×45		70	UKG11-172-096-045-P
	KM43002 connector-channel for installation boxes (for KM40022 box)		25	250	WTP10-16-21
	KM43001 cover for installation boxes	Ø80	40	800	WTP10-16-02

* KM43002 connecting channel is used for butt-to-butt installation of KM40022 boxes.

Enhanced protection mounting boxes for surface installation



Surface installation mounting boxes are designed for arranging cables and wires as well as for concealing and additional protection of commutation points.

These boxes are used as a part of the electric channel system consisting of rigid and corrugated pipes. Some box types (protection degree - IP44, IP45) can be applied outdoors as well as in duty and damp premises.

Material: polystyrene.

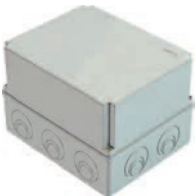
Color – RAL 7035.

Protection degree – IP44, IP55.

Operating temperature: from –25 to +40 °C.

Range

	Name	Size, mm	Package amount, pcs.	Product ID
	KM41233 pull box for surface installation IP44 RAL 7035 (6 lead-ins)	100×100×50	48	UK011-100-100-050-K41-44
	KM41234 pull box for surface installation IP55 RAL 7035 (6 lead-ins)	100×100×50	48	UK011-100-100-050-K41-55
	KM41255 pull box for surface installation IP44 RAL 7035 (6 sealed lead-ins, pop-top cap)	100×100×50	48	UK0211-100-100-050-K41-44
	KM41236 pull box for surface installation IP44 RAL 7035 (4 sealed lead-ins, pop-top cap)	70×70×40	84	UK0211-070-070-040-K41-44
	KM41235 pull box for surface installation IP44 RAL 7035 (6 lead-ins)	85×85×40	60	UK011-085-085-040-K41-44
	KM41237 pull box for surface installation IP44 RAL 7035 (4 lead-ins)	∅75×40	60	UK011-075-040-000-K41-44
	KM41241 pull box for surface installation IP44 RAL 7035 (10 lead-ins)	150×110×70	30	UK010-150-110-070-K41-44
	KM41242 pull box for surface installation IP55 RAL 7035 (10 lead-ins)	150×110×70	30	UK010-150-110-070-K41-55
	KM41243 pull box for surface installation IP44 RAL 7035 (10 lead-ins)	190×140×70	20	UK011-190-140-070-K41-44
	KM41244 pull box for surface installation IP55 RAL 7035 (10 lead-ins)	190×140×70	20	UK011-190-140-070-K41-55
	KM41245 pull box for surface installation IP44 RAL 7035 (10 lead-ins)	190×140×120	12	UK010-190-140-120-K41-44
	KM41246 pull box for surface installation IP55 RAL 7035 (10 lead-ins)	190×140×120	12	UK010-190-140-120-K41-55
	KM41261 pull box for surface installation IP44 RAL 7035 (smooth walls)	150×110×85	30	UK011-150-110-085-K41-44

	Description	Dimensions, mm	Degree of protection	Package qty, pcs.	Product ID
	KM41271 soldering box c/w cable glands (5 pcs.)	240×195×90	IP44	6	UK010-240-195-090-K41-44
	KM41272 soldering box for outdoor installation c/w cable glands (5 pcs.)	240×195×90	IP55	6	UK010-240-195-090-K41-55
	KM41273 soldering box for outdoor installation c/w cable glands (5 pcs.)	240×195×165	IP44	4	UK010-240-195-165-K41-44
	KM41274 soldering box for outdoor installation c/w cable glands (5 pcs.)	240×195×165	IP55	4	UK010-240-195-165-K41-55
	KM41275 soldering box for outdoor installation, with transparent cover, c/w cable glands (5 pcs.)	240×195×90	IP44	6	UK010-240-195-090-K51-44
	KM41276 soldering box for outdoor installation, with transparent cover, c/w cable glands (5 pcs.)	240×195×90	IP55	6	UK010-240-195-090-K51-55
	KM41277 soldering box for outdoor installation, with transparent cover, c/w cable glands (5 pcs.)	240×195×165	IP44	4	UK010-240-195-165-K51-44
	KM41278 soldering box for outdoor installation, with transparent cover, c/w cable glands (5 pcs.)	240×195×165	IP55	4	UK010-240-195-165-K51-55
	KM41342 soldering box for outdoor installation, with smooth walls, c/w mounting plate and cable glands (5 pcs.)	240×95×90	IP55	6	UK010-240-195-090-K52-55
	KM41344 soldering box for outdoor installation, with smooth walls, c/w mounting plate and cable glands (5 pcs.)	240×195×165	IP55	4	UK010-240-195-165-K52-55
	KM41346 soldering box for outdoor installation, with smooth walls, transparent cover, c/w mounting plate and cable glands (5 pcs.)	240×195×90	IP55	6	UK010-240-195-090-K53-55

	Description	Dimensions, mm	Degree of protection	Package qty, pcs.	Product ID
	KM41348 soldering box for outdoor installation, with smooth walls, transparent cover, c/w mounting plate and cable glands (5 pcs.)	240×195×165	IP55	4	UK010-240-195-165-K53-55
	KM41330 soldering box for outdoor installation, with smooth walls, c/w PG9 cable glands (5 pcs.)	100×100×50	IP55	40	UK010-100-100-050-K51-55
	KM41331 soldering box for outdoor installation, with smooth walls, c/w PG11 cable glands (5 pcs.)	150×110×85	IP55	28	UK010-150-110-085-K51-55

Mounting boxes for surface installation

Surface installation mounting boxes are designed for arranging cables and wires as well as for concealing and additional protection of commutation points. These boxes are used as a part of the electric channel system consisting of cable trays. For convenient installation, the boxes are delivered in set with a terminal block.

Material – polystyrene.

Color – white, ivory, lightwood, pine.

Protection degree – IP20.



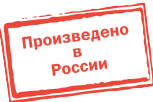
Range

	Name	Size, mm	Package amount, pcs.	Product ID
	KM41212-01 pull box for surface installation, white (with a terminal block)	75×75×20	100	UK010-075-075-020-K01
	KM41212-02 pull box for surface installation, ivory (with a terminal block)	75×75×20	100	UK010-075-075-020-K32
	KM41212-03 pull box for surface installation, lightwood (with a terminal block)	75×75×20	100	UK010-075-075-020-K21
	KM41212-04 pull box for surface installation, pine (with a terminal block)	75×75×20	100	UK010-075-075-020-K34
	KM41212-05 pull box for surface installation, oak (with a terminal block)	75×75×20	100	UK010-075-075-020-K24
	KM41216-01 soldering box for surface wiring, white (with terminal block)	75×75×28	80	UK010-075-075-028-K01
	KM41216-04 soldering box for surface wiring, pine (with terminal block)	75×75×28	80	UK010-075-075-028-K34
	KM41216-05 soldering box for surface wiring, oak (with terminal block)	75×75×28	80	UK010-075-075-028-K24
	KM41219 pull box for surface installation, white (with a terminal block)	100×100×29	42	UK010-100-100-029-K01
	KM41219-04 soldering box for surface wiring, pine (with terminal block)	100×100×29	42	UK010-100-100-029-K34
	KM41219-05 soldering box for surface wiring, oak (with terminal block)	100×100×29	42	UK010-100-100-029-K24
	KM41222 pull box for surface installation, white (with a terminal block)	100×100×44	25	UK010-100-100-044-K01
	KM41222-04 soldering box for surface wiring, pine (with terminal block)	100×100×44	25	UK010-100-100-044-K34
	KM41222-05 soldering box for surface wiring, oak (with terminal block)	100×100×44	25	UK010-100-100-044-K24
	KM41206-01 pull box for surface installation, white (with a terminal block)	50×50×20	192	UK010-050-050-020-K01
	KM41206-04 pull box for surface installation, p (with a terminal block)	50×50×20	192	UK010-050-050-020-K34
	KM41206-05 soldering box for surface wiring, oak (with terminal block)	50×50×20	264	UK010-050-050-020-K24



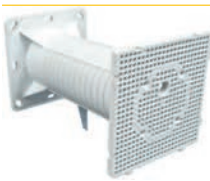
Facade boxes

The facade boxes serve for installation of electrical devices (sockets, switches, video cameras, luminaries, motion detectors, etc.) on thermal insulation materials during warmth-keeping works. Their design and material exclude formation of thermal bridges. Electrical installation box allows for mounting of electrical devices when insulation thickness is from 50 to 200 mm.



Material: self-extinguishing, halogen-free polypropylene.
Operating temperature: -25 to +60°C
The scope of supply includes wall plugs, wood screws for fastening of the bearing structure to the wall, wood screws for fastening of the box to the bearing structure and fixing of devices in the box.

Products' range

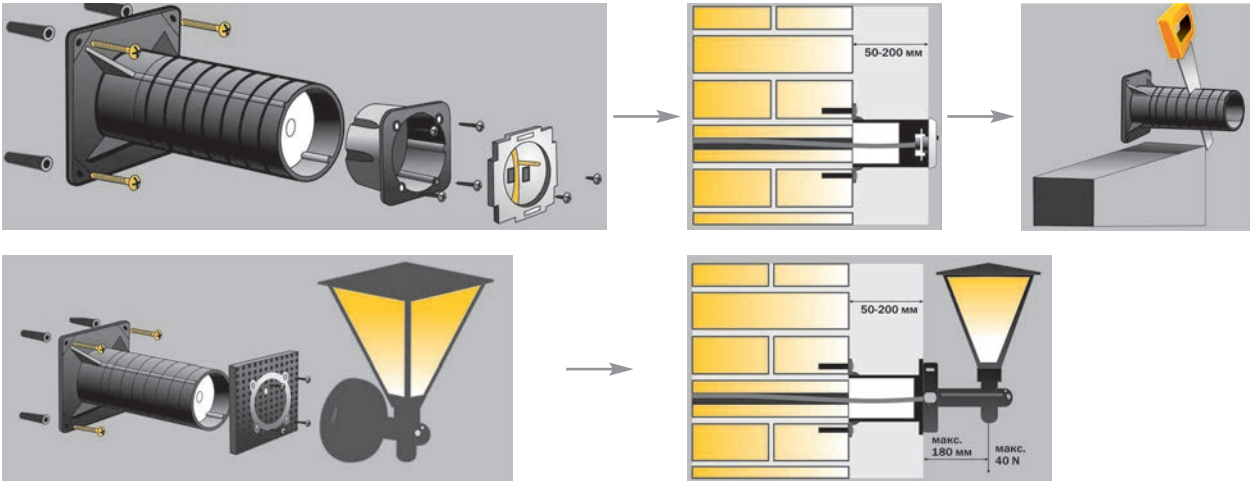
	Description	Purpose	Dimensions, mm	Package qty, pcs.	Product ID
	KF electrical installation box for facades	Installation of electrical devices (sockets, switches) on thermal insulation materials during warmth-keeping works	120×120×200	1	UK010-120-120-200-K01
	KF-Z electrical installation box for facades	Installation of electrical devices (sockets, switches) on thermal insulation materials during warmth-keeping works	120×230×250	1	UK010-120-235-250-K01
	MPF electrical installation box for facades	Installation of electrical devices (street wall-mounted luminaries, motion detectors, sockets for voltages up to 400 V, etc.) on thermally insulated building facades	120×120×200	1	UK020-120-120-200-K01

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Instructions for installation of facade boxes

Prior to installation work, it is necessary to reduce a bearing structure height according to insulation layer thickness.
The bearing structure is fixed to the wall using wall plugs selected depending on the wall material.
When 400 V socket is to be installed, it is advised to fix the bearing structure by chemically bonding silicone compounds.
The cable is pulled through the bearing structure and reduced insulation layer is placed to its place.
Using 4 wood screws (supplied), the box or mounting panel, to which final installation of electrical devices will be done, are fixed to the structure.

Examples of facade boxes installation



Equipment and line fittings for self-bearing insulated wire

Fittings for self-bearing insulated wire (SBIW) is designed for connection and suspension of over-head lines up to 1 kV.

The tools are intended for mounting of over-head lines using self-bearing insulated wire. The products are featured by advanced strength and performance characteristics.



Advantages

- Protection against wire whipping.
- Solid mechanical fastening.
- Reliable electrical contact.
- Sealing of live parts.
- Breaking load value is lower for the fittings than for wire.
- Power transmission lines can be laid together with LV, HV wires, communication lines.
- Long operation life.

Technical characteristics

Material

metal alloy, corrosion resistant, polymer,
resistant to UV radiation and weather conditions

Performance characteristics

all-weather outdoor usage

Range of operating temperatures, °C

–60...+80

Installation temperature, °C

–15...+60

Insulated sealed T-clamps ZSGP for connecting SSIC to bare wires

ZSGP series clamps are intended for connecting SSIC to trunk non-insulated lines. Appropriate for aluminum and copper conductors under 1kW. When the screw bolts are tightened, spade terminal blades form a secured electrical connection, piercing the splitter conduit's insulation and simultaneously fastening the trunk non-insulated line surface. When a definite stress sufficient for creating a stable electrical connection is reached, the upper screw-bolt head is separated. For mounting and transportation convenience, each screw-bolt is laminated for preventing possible disconnection of component parts. Clamp casing is made of mechanically strong thermoplastic reinforced with fiberglass. In case if there is a necessity to dismantle the clamp, it can be done using a correspondent wrench. To attain correspondent sealing values, the branched line wire should be inserted into the cap until bumping.

	Name	Screw-bolt	Size of jaws (sheer/breakaway head)	Tightening torque, Hxm	Trunk non-insulated line size, mm ²	Weight, kg	Multiple package amount, pcs.	Product ID
	ZSGP 35-95/6-35 (RDP 25/CN)	M8	S13/S17	15	35-95/6-35	0,13	10	UZSG-16-S10-95-S6-35
	ZSGP 35-120/25-95 (RDP/CN 1S 95 UK)	M10	S17/S17	25	35-120/25-95	0,25	20	UZSG-16-S10-120-S25-95

ZOI insulated T-clamps

ZOI series clamps are intended for connecting and branching phase and neutral self-supporting insulated wires under 1kW as well as for subscriber conductors branching (lighting wires). When the screw bolts are tightened, spade terminal blades form a secured electrical connection, piercing the trunk line and branching wire insulation. When a definite stress sufficient for creating a stable electrical connection is reached, the upper screw-bolt head is separated. For mounting and transportation convenience, each screw-bolt is laminated for preventing possible disconnection of component parts. Clamp construction ensures sealed connection and secured electrical contact that was proved by testing. During these tests the clamp was immersed at a depth of 1 meter for 1 minute when applying AC voltage of 6kW (50Hz). Clamp casing is made of mechanically strong thermoplastic reinforced with fiberglass. In case if there is a necessity to dismantle the clamp, it can be done using a correspondent wrench.

	Name	Screw-bolt	Size of jaws (sheer/breakaway head)	Tightening torque, Hxm	Trunk line/branching size, mm ²	Weight, kg	Multiple package amount, pcs.	Product ID
	ZOI 16-70/1,5-10	M6	S13/S13	9	16-70/1,5-10	0,05	35	UZA-11-D01-D10
	ZOI 16-95/2,5-35	M8	S13/S17	15	16-95/2,5-35	0,12	18	UZA-11-D02-D35
	ZOI 25-95/25-95	M8	S13/S17	18	25-95/25-95	0,12	18	UZA-11-D25-D95
	ZOI 35-150/6-35	M8	S13/S17	17	35-150/6-35	0,14	1	UZA-11-D06-D150
	ZOI 35-150/35-150	2×M8	S13/S17	20	35-150/35-150	0,37	1	UZA-11-D35-D150

ZORZB T-clamps for separate bolt tightening

ZORZB series clamps are intended for use with neutral SSIC conductors with solidly earthed neutral as well as for arranging branching lines going off the phase wires at low humidity objects. They also can be applied in the places where direct water spill onto the clamp is excluded. ZORZB are designed for various number of branched conductors (marked with a number following the clamp abbreviation). Letter "S" shows whether the bolt head is of breakaway type or not. A series of numbers going before and after "/" sign indicates the main and branched cables size.



Name	Size, mm ²		Breakaway torque (trunk line), N·m	Breakaway torque (branch line), N·m	Branch line wire-stripping, mm	Product ID
	SSIC	branching				
ZORZB-1 16-25/4-25	16...25	4...25	11,5...14,5	10	24	UZA-10-1625-0425
ZORZB-1 35-70/6-25	35...70	6...25	15...18	10	24	UZA-10-3570-0625
ZORZB-1S 35-95/4-50	35...95	4...50	15...18	10	24	UZA-10-3595-0450
ZORZB-2S 35-70/35-70	35...70	35...70	15...18	10	15	UZA-10-3570-3570
ZORZB-2S 70-150/4-25	70...150	4...50	15...18	10	15	UZA-10-70150-0450

Adapter for shorting jumpers and grounding

Designed to make temporary protective grounding during installation works on live over-head line of voltage up to 1 kV. The adapter is installed on branch side, in clamps with insulation puncture. The adapter casing is made from UV-resistant polymer. It withstands short-circuit currents 4 kA / 1 s and operating current 200 A.



Name	Insulated conductor		Plug-in contact		Max. short-circuit current, kA/s	Working current, A	Qty, pcs.	Weight, kg	Product ID
	Cross-section area, mm ²	Diameter, mm	Length, mm	Diameter, mm					
AZZ-25 (PMCC)	25	9	35	11	4	200	25	0,09	UZG-19-S25

Grounding and bridging equipment

Grounding and bridging equipment is designed for protecting a wireman when working on SSIC-2 and SSIC-4 lines. It is a universal product suitable for using it as both a grounding and a bridging device. GBE is intended for various cable size ranges (correspondent cross section is defined by the number placed before "F" or "E" in the product name abbreviation). "F" and "E" letters indicate the type of connected insulated adapters. If the connection is performed using a French standard adapter, it is marked with "F". If there is a Finnish standard adapter in use, it is marked with "E". Each devices is marked with an individual number.




Name	Size, mm ²	Rated voltage, kV	Conventional thermal current, kA/3s min.	Mechanical bracing current, kA max.	Product ID
033-1-16F	16	1	2,3	14	UZG-1-16F
033-1-16E*	16	1	2,3	14	UZG-1-16E
033-1-25F*	25	1	3,6	22	UZG-1-25F
033-1-25E*	25	1	3,6	22	UZG-1-25E
033-1-35F*	35	1	5,1	31	UZG-1-35F
033-1-35E*	35	1	5,1	31	UZG-1-35E
033-1-50F*	50	1	7,2	44,25	UZG-1-50F
033-1-50E*	50	1	7,2	44,25	UZG-1-50E

Ram clamps

Ram clamps are intended for connecting aluminum, copper or steel conductors. Clamp bolts are made of hot-dip galvanized steel.



Name	Size, mm ²		Tightening torque, N·m	Weight, kg	Package amount, pcs	Product ID
	Trunk lines	Branching				
ZP 16-120/16-120 (SL4.26)	16-120 Al, Cu	16-120 Al, 16-95 Cu	20	0,125	21	UZP-11-S16-S120
ZP 50-240/50-185 (SL14.2)	50-240 Al, 50-185 Cu	50-185 Al, 50-150 Cu	44	0,280	10	UZP-11-S50-S240
ZP 6-95/6-95 (SL37.27)	6-95 Al, Cu	6-95 Al, Cu	22	0,100	21	UZP-11-S06-S095

GIN, GIF and GIA insulated bushings

These bushings are applied for aluminum stranded wires. Each wire size is shown with the help of a colored sealing ring. Inner chamber of aluminum part is filled with couplant protecting the aluminum surface from corrosion, lowering the contact resistance that contributes to reducing electric losses as well as ensuring a stable electric contact the within copper-aluminum system that protects the connection point from contact electrochemical corrosion. Polymer insulating material is resistant to UV and weather conditions. The bushing construction provides for ensuring tightness of 5 kW (50 Hz frequency) for 1 min at a depth of 1 meter. To attain these ratings, it is necessary to strip the correspondent insulation layer from the wire. The required stripping length is indicated on the bushing. Stripping border should be flat. Insulation thickness should be maintained at on the same level up to the stripping line. The wire should be inserted into the device until bumping. Wire crimping should be done from the center edgeward complying with the crimping border and number of crimpings indicated on the device.

GIN bushings for self-supporting insulated wires with a carrying neutral

GIN bushings for wires with a carrying neutral serve for mechanical and electrical connection of neutral conductors within SSIC networks with a carrying neutral. Admitted mechanical stress on the crimped connection for carrying wires makes up 95% of its tensile strength.



Name	SSIC size, mm ²		Sealing ring color		Matrix type for crimped bushings	Multiple package amount, pcs	Product ID
	left part	right part	left part	right part			
GIN 25 (MJPT 25N)	25	25	orange	orange	E 173	10	UZA-24-D25-D25
GIN 35 (MJPT 35N)	35	35	red	red	E 173	10	UZA-24-D35-D35
GIN 50 (MJPT 50N)	50	50	yellow	yellow	E 173	10	UZA-24-D50-D50
GIN 54 (MJPT 54N)	54	54	black	black	E173	10	UZA-24-D54-D54
GIN 54-70 (MJPT 54-70N)	70	54	white	black	E173	10	UZA-24-D54-D70
GIN 70 (MJPT 70N)	70	70	white	white	E173	10	UZA-24-D70-D70
GIN 95 (MJPT 95N)	95	95	white	gray	E215	10	UZA-24-D95-D95

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GIF bushings for self-supporting insulated wires with a carrying neutral

GIN bushings for wires with a carrying neutral serve for mechanical and electrical connection of phase wires within SSIC networks with a carrying neutral. Admitted mechanical stress on the crimped connection for carrying wires makes up 60% of its tensile strength.



Name	SSIC size, mm ²		Sealing ring color		Matrix type for crimped bushings	Multiple package amount, pcs	Product ID
	left part	right part	left part	right part			
GIF 16 (MJPT 16)	16	16	blue	blue	E173	10	UZA-23-D16
GIF 25 (MJPT 25)	25	25	orange	orange	E173	10	UZA-23-D25
GIF 35 (MJPT 35)	35	35	red	red	E173	10	UZA-23-D35
GIF 50 (MJPT 50)	50	50	yellow	yellow	E173	10	UZA-23-D50
GIF 50-25 (MJPT 50-25N)	25	50	yellow	orange	E173	10	UZA-23-D50-D25
GIF 50-35 (MJPT 50-35N)	35	50	yellow	red	E173	10	UZA-23-D50-D35
GIF 70 (MJPT 70)	70	70	white	white	E173	10	UZA-23-D70
GIF 70-35 (MJPT 70-35N)	35	70	white	red	E173	10	UZA-23-D70-D35
GIF 70-50 (MJPT 70-50N)	50	70	white	yellow	E173	10	UZA-23-D70-D50
GIF 95 (MJPT 95)	95	95	gray	gray	E173	10	UZA-23-D95
GIF 95-35 (MJPT 95-35N)	35	95	gray	red	E173	10	UZA-23-D95-D35
GIF 95-50 (MJPT 95-50N)	50	95	gray	yellow	E173	10	UZA-23-D95-D50
GIF 95-70 (MJPT 95-70N)	70	95	gray	white	E173	10	UZA-23-D95-D70
GIF 150-70 (MJPT 150-70N)	70	150	purple	white	E215	10	UZA-23-D150-D70
GIF 150-95 (MJPT 150-95N)	95	150	purple	gray	E215	10	UZA-23-D150-D95

GIA bushings for SSIC subscriber line

GIA bushings for self-carrying wires serve for mechanical and electrical connection of self-supporting wires. Admitted mechanical stress on the crimped connection for carrying wires makes up 40% of its tensile strength when connected to a SSIC wire and 20% in case of copper wire crimping.



Name	SSIC size, mm ²		Sealing ring color		Matrix type for crimped bushings	Multiple package amount, pcs	Product ID
	left part	right part	left part	right part			
GIA 4-16 (MJPB 4-16)	4	16	ivory	blue	E140	10	UZA-22-D04-D16
GIA 10-16 (MJPB 10-16)	16	10	blue	green	E140	10	UZA-22-D10-D16
GIA 10-25 (MJPB 10-25)	10	25	green	orange	E140	10	UZA-22-D10-D25
GIA 16 (MJPB 16)	16	16	blue	blue	E140	10	UZA-22-D16-D16
GIA 16-25 (MJPB 16-25)	25	16	orange	blue	E140	10	UZA-22-D16-D25
GIA 16-35 (MJPB 16-35)	16	35	blue	red	E140	10	UZA-22-D16-D35
GIA 25 (MJPB 25)	25	25	orange	orange	E140	10	UZA-22-D25-D25
GIA 25-35 (MJPB 25-35)	25	35	orange	red	E140	10	UZA-22-D25-D35
GIA 35 (MJPB 35)	35	35	red	red	E140	10	UZA-22-D35-D35

AMG aluminum metal bushings

AMG series bushings provide for carrying out interconnection of aluminum conductors using wrenches (no need for a crimping tool). For connecting a SSIC wire, the bushing shall be used in places of double anchor clamping on the wire section not subject to mechanical stress. Internal surface is covered with a special paste boosting the contact joint conductivity as well as protecting this surface from thin oxide film. Cross knurl and correspondent bolts enhance mechanical and electrical characteristics of the junction point. These caps can be applied for both single and multi-wire, round and sector conductors.



Name	Number of bolts	Tightening torque Nxmm	Size of jaws	Conductor size, mm ²	Weight, kg	Multiple package amount, pcs.	Product ID
AMG 16-70 (SMOE-81974)	2	20	S17	16–70	0,192	15	UZA-29-S16-S70
AMG 95-150 (SMOE-81975)	2	26	S19	95–150	0,313	10	UZA-29-S95-S150
AMG 185-240 (SMOE-81976)	3	26	S19	185–240	0,458	6	UZA-29-S185-S240

NIM sealed insulated caps

NIM caps are applied for aluminum and copper stranded wires. They are intended for a sealed multicore cables termination by means of crimping. Each wire size is shown with the help of a colored sealing ring. Inner chamber of aluminum part is filled with couplant protecting the aluminum surface from corrosion, lowering the contact resistance that contributes to reducing electric losses as well as ensuring a stable electric contact the within copper-aluminum system that protects the connection point from contact electrochemical corrosion. Polymer insulating material is resistant to UV and weather conditions.

The bushing construction provides for ensuring tightness of 6 kW (50 Hz frequency) for 1 min at a depth of 1 meter. To attain these ratings, it is necessary to strip the correspondent insulation layer from the wire. The required stripping length is indicated on the bushing. Stripping border should be flat. Insulation thickness should be maintained at on the same level up to the stripping line. The wire should be inserted into the device until bumping. Wire crimping should be done from the center edgeward complying with the crimping border and number of crimpings indicated on the device.

Admitted mechanical stress on the crimped connection for carrying wires makes up:

- 1200 N for cables of 16 and 25 mm² in section;
- 2500 N for cross-sections of 35, 50, 54, 70 and 95 mm².



Name	SSIC size, mm ²	Sealing ring color	Matrix type for crimped bushings	Multiple pack-Product ID age amount, pcs	Product ID
NIM 16 (CPTAU 16)	16	blue	E140	10	UZA-25-D16
NIM 25 (CPTAU 25)	25	orange	E173	10	UZA-25-D25
NIM 35 (CPTAU 35)	35	red	E173	10	UZA-25-D35
NIM 50 (CPTAU 50)	50	yellow	E173	10	UZA-25-D50
NIM 54 (CPTAU 54)	54	black	E173	10	UZA-25-D54
NIM 70 (CPTAU 70)	70	white	E173	10	UZA-25-D70
NIM 95 (CPTAU 95)	95	gray	E173	10	UZA-25-D95
NIM 120 (CPTAU 120)	120	pink	E215	10	UZA-25-D120
NIM 150 (CPTAU 150)	150	purple	E215	10	UZA-25-D150

Mechanical aluminum AMN and copper-aluminum AMMN caps

These caps provide for carrying out connection of aluminum conductors with a device using only wrenches (no need for a crimping tool). Cap body is made of heavy-duty aluminum alloy. They are intended for bolt tightening termination of preliminarily stripped aluminum wires and connection to aluminum (AMN) or copper-aluminum (AMMN) clamps, buses, terminals etc. Internal surface is covered with a special paste boosting the contact joint conductivity as well as protecting this surface from thin oxide film. Cross knurl and correspondent bolts enhance mechanical and electrical characteristics of the junction point. These caps can be applied for both single and multi-wire, round and sector conductors. AMMN cap end is made of electrotechnical copper.

	Name	Number of bolts	Tightening torque Nxm	Size of jaws	Conductor size, mm ²	Weight, kg	Multiple package amount, pcs.	Product ID
	AMN 16-70 (SMOE-81971)	2	20	S17	16–70	0,117	15	UZA-28-S16-S70-1
	AMN 95-150 (SMOE-81972)	2	26	S19	95–150	0,213	10	UZA-28-S95-S150-1
	AMN 185-240 (SMOE-81973)	3	26	S19	185–240	0,328	8	UZA-28-S185-S240-1
	AMMN 16-70	2	20	S17	16–70	0,167	15	UZA-28-S16-S70-2
	AMMN 95-150	2	26	S19	95–150	0,288	10	UZA-28-S95-S150-2
	AMMN 185-240	3	26	S19	185–240	0,438	8	UZA-28-S185-S240-2

Components for lighting networks

Holders for fuse inserts

Designed for protection of connected equipment against overvoltage in mains. They can be used as user's power consumption limiter. The body is made from UV-resistant polymer.

Sealing plug allows for protection of disconnected line from mains side.

- The design enables connection and disconnection of the line with current load up to 60 A.
- Contact connection with the line is made by compression, with use of single die.
- Tests for tightness are performed under voltage 6 kV applied for 30 minutes under water.

	Name	Cross-section area, mm ²	Dimensions, mm	Load current, A	Weight, kg	Qty, pcs.	Product ID
	KPV 16-06	6–16	22×58	4 – 125	0,15	1	UZK-26-S16-S06
	KPV 16-16	16	22×58	4 – 125	0,15	1	UZK-26-S16-S16
	KPV 25-10	10–25	22×58	4 – 125	0,15	1	UZK-26-S25-S10
	KPV 25-25	25	22×58	4 – 125	0,15	1	UZK-26-S25-S25

KE10.x terminal boards for street lighting networks

The terminal boards are designed for connection and protection of luminaires installed on the street lighting poles.

	Name	Wire cross-section, mm ²	Wire diameter, mm	Weight, kg	Qty, pcs.	Product ID
	KE10.1	4×(10-35 Al / 1,5-25 Cu)	1,7-9,0	0,06	10	UZK-KKSU0-1
	KE10.3	6×(10-35 Al / 1,5-25 Cu)	1,7-9,0	0,06	10	UZK-KKSU0-3
	KE10.504	4×(10-50 Al / 1,5-25 Cu)	2,1-10,2	0,08	10	UZK-KKSU0-54
	KE10.506	6×(10-50 Al / 1,5-50 Cu)	2,1-10,2	0,09	10	UZK-KKSU0-56

Sets of terminal boards

Sets of terminal boards and terminal blocks for street lighting networks are used for connection of L, N, PE or PEN aluminum and copper conductors inside the racks, poles or distribution boards.

The sets include grounding conductor 16 mm², length 0.35 m.

	Name	Wire cross-section, mm ²	Scope of supply	Weight, kg	Qty, sets	Product ID
	NK-1	10-35 Al / 1,5-25 Cu	3×KE10.1 + KE10.3	0,21	1	UZK-NKK-15
	NK-2	10-35 Al / 1,5-25 Cu	4×KE10.1 + KE10.3	0,25	1	UZK-NKK-155
	NK-3	10-50 Al / 1,5-25 Cu	3×KE10.504 + KE10.506	0,3	1	UZK-NKK-50

ZAS and UZAS anchor clamps for SSIC system under 1 kW

ZAS series anchor clamps are intended for fixation of self-supporting insulated conductors with two, three or four wires under 1 kW on hooks and brackets. Additional lighting conductors are laid along the clamps. The holding elements of devices are supplemented with springs facilitating the installation. These clamps are made of hot-dip galvanized steel, their plastic elements – from polymers resistant to UV and weather conditions. These factors ensure the operability of devices within 40 years.

	Name	Collapse load, kN	Size of jaws	Conductor size range, mm ²		Tightening torque, Nxm	Weight, kg	Multiple package amount, pcs	Product ID
				min	max				
	ZAS 4×16-50/14400 (HEL-5506)	14,4	S17	2×16	4×50	50	0,800	15	UZA-14-D16-D50-14400
	ZAS 4×70-95/27400 (HEL-5507)	27,4	S17	2×70	4×95	50	1,375	8	UZA-14-D70-D95-27400
	ZAS 4×95-120/43200 (PA4120)	43,2	S17	2×95	4×120	50	1,813	16	UZA-14-D-95-D120-43200
	UZAS 2×50-4×120 (S0234S)	27 for 4×50, 37 for 4×70 and more	S17/S17	2×50	4×120	44	1,2	9	UZA-14-D50-D120

ZPS suspension clamps for SSIC system under 1 kW

Suspension clamps of ZPS series are intended for hanging self-supporting insulated cable systems under 1 kW on intermediate supports. They also can be used for SSIC with insulated carrier neutral. ZPS clamps 2×25-4×120/4000/90 can be applied on angle support up to 90°.

These clamps are made of hot-dip galvanized steel, their plastic elements – from polymers resistant to UV and weather conditions. These factors ensure the operability of devices within 40 years. The clamps are supplemented with breakaway bolts ensuring a secured fixation of conductors inside them. Also in case of necessity the devices can be dismantled owing to the fact that the bolt heads are dismountable.

	Name	Collapse load, kN	Tightening torque, Nxm	Size of jaws (breakaway/dismountable head)	Conductor size, mm ²	Weight, kg	Multiple package amount, pcs	Product ID
	ZPS 2×25-4×120/1200/30 (S0140.02)	12	10		2×25–4×120	0,279	1	UZA-15-D25-D120-90-12
	ZPS 2×25-4×120/1800/30 (S0130.02)	18	10		2×25–4×120	0,334	1	UZA-15-D25-D120-30-60-18
	ZPS 2×25-4×120/4000/90 (S0136.02)	40	10		2×25–4×120	0,783	1	UZA-15-D25-D120-90-40
	ZPS 4×25/10000	10	9	S13/S17	4×25	0,375	80	UZA-15-D25-10000
	ZPS 4×35/10000 (PS 435)	10	9	S13/S17	2×50–4×35	0,363	80	UZA-15-D35-10000
	ZPS 4×50/10000 (PS 450)	10	9	S13/S17	2×95–4×50	0,363	80	UZA-15-D50-10000
	ZPS 4×70/10000 (PS 470)	10	9	S13/S17	4×70	0,583	60	UZA-15-D70-10000
	ZPS 4×95/10000 (PS 470)	10	9	S13/S17	4×95	0,567	60	UZA-15-D95-10000
	ZPS 4×120/10000 (PS 4120)	10	9	S13/S17	4×120–4×150	0,533	60	UZA-15-D120-10000

ZAB and ZABu service anchor clamps for systems of self-bearing insulated wires

ZAB and ZABu anchor clamps are designed for anchoring of 2 or 4 user's self-bearing insulated wires. Special surface geometry of wedges ensures safe fixing of conductor, preventing it from falling out, without damage to the wire insulation. All parts are made from polymers, resistant to UV radiation and weather conditions.

ZAB 16-25 clamp does not require tools for installation and its quick-detachable bail allows for fastening to the brackets and hooks. Bail length varies from 90 to 150 mm and it has an additional latch preventing loosening from wedge holder, for example, under effect of increased wind load.

ZABu 4410-35 anchor clamp is made from hot-dip galvanized steel that is resistant to corrosion, and polymeric materials. The clamp design allows for easy transformation to intermediate (supporting) clamp by turning its holding element by 90°; it is only necessary to loose the bolt for this operation.

	Description	Breaking load, kgf/N	Range of conductor cross-section values, mm ²		Bolt tightening torque, N•m	Weight, kg	Product ID
			min	max			
 Made in Russia	3AБ 16-25M (PA25×100)	220/2156	2×16	4×25	–	0,12	UZA-14-D16-D25-M
	3ABy 4×10-35 (HEL-5505)	1223/12000*	2×10	4×35	40	0,5	UZA-14-D10-D35

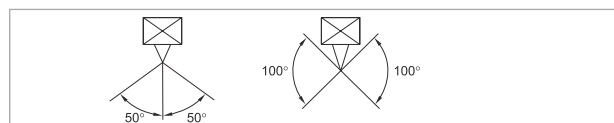
* For ZABu 4410-35 (HEL-5505), strength of wires fixing in the clamp is indicated instead of breaking load.

ZAN anchor clamps for systems with insulated bearing neutral wire

ZAN anchor clamps are designed for self-bearing insulated wiring systems with insulated bearing neutral wire.

The clamp bodies are made from corrosion resistant aluminum alloy, with self-adjusting polymeric wedges, resistant to UV radiation and weather conditions, inserted into the body. Special surface geometry of wedges ensures safe fixing of conductor, preventing it from falling out, without damage to the wire insulation. The products do not require tools for installation and do not contain parts that can fall out.

	Description	Work load, kgf/N	Breaking load, kgf/N	Cross-section of bearing neutral wire, mm ²	Weight, kg	Package qty, pcs.	Product ID
	ZAN 16-35/1000 (PA 1000)	300/2942	1000/9806	16–35	0,35	1	UZA-14-D16-D35-1000
	ZAN 50-70/1500 (PA 1500)	500/4903	1500/14708	50–70	0,40	1	UZA-14-D50-D70-1500
	ZAN 70-95/2200 (PA 95-2000)	733/7200	2200/21600	70-95	0,65	3	UZA-14-D95-2000



Maximum deflection angle for single anchor fixing is 50°, for double anchor fixing – 100°.

Stand-off clips

They are used for fixing of SBIW to the mounts and building walls. The items are fixed to the walls and mounts by wood screws, anchors or metal band and SG20 fasteners.

The self-bearing insulated wire is fixed to the clip using cable ties.

	Description	Bundle diameter, mm ²	Weight, g	Package qty, pcs.	Product ID
	DF 15-50	15-50	0,02	50	UZA-11-15-50
	DF 50-90	50-90	0,03	50	UZA-11-50-90

Sealed insulated clamps for user's wires

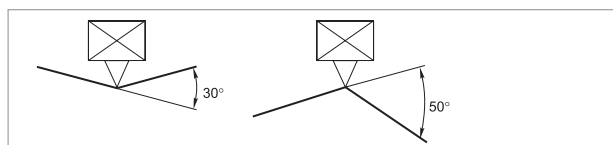
Designed for connection of user's system or replacement of user's line. The clamp can be used with all types of SBIW up to 1 kV, user's wires and lighting systems. They are used with aluminum and copper wires, both single- and multi-core. Insulation material is UV-resistant polymer.

	Description	Cross-section area, mm ²	Maximum current for connection under load	Weight, g	Package qty., pcs	Product ID
	ZGS 4-35 (VRS R35)	4-35	90	0,02	50	UZG-S4-S35

KOPM, ZPN and ZABu suspension clamps

Suspension supporting clamps are intended for fastening the insulated carrying neutral SSIC under 1kW. The neutral is fixed with an adjustable clamp. ZPN 2000 clamps allow fastening them on hooks up to 24 mm in diameter. Sliding joints contribute to the clamps moving transversely and longitudinally. A set of intermediate suspension KOPM 1500 represents a bracket with a projection in the top part preventing the clamp from moving into the upper position. The bracket has a hole for its fastening to the bearing with anchor screws. There is a possibility to fix it to bearings with the help of a rim band. To facilitate the band amounting process, the bracket is supplied with separating facets. KOPM 1500 is made of corrosion-resistant aluminum alloy in set with a separately delivered ZPN 1500 suspension clamp made of polymer strengthened with a fiber glass structure resistant to UV and weather conditions.

	Name	Collapse load, kgf/N	Carrying neutral		Weight, kg	Multiple package amount, pcs	Product ID
			size, mm ²	diameter, mm			
	KOPM 1500 (ES 1500, SO 260)	1340/13141	16–95	8–15	0,5	1	UKA-31-D16-D95
	ZPN 1500 (PS 54, SO 265)	1340/13141	16–95	8–15	0,2	1	UZA-15-D16-D95
	ZPN 2200 (S069.95)	2200/21560	16-95	8-15	8	0,24	UZA-15-D15-D95-2200



When mounting neutral conductors on suspensions or clamps do not allow overbending exceeding:

- 30° when the conductor is bent towards the bearing;
- 50° when the conductor is bent from the bearing.

To attain wider angles, it is recommended to use two anchor clamps.

ZABu 4×10-35 suspension clamp is made of hot-dip corrosion-resistant galvanized steel and polymers resistant to UV and weather conditions. Special texture of brace surface ensures stable conductor fixation preventing it from slipping out not damaging the wire insulation at the same time. Clamp construction allows transforming it into a suspension clamp by means of turning the fixing element by 90°. You only need to release the bolt a little.

	Name	Collapse load, kgf/N	Conductor size range, mm ²		Tightening torque, N·m	Weight, kg	Multiple package amount, pcs	Product ID
			min	max				
	ZABu 4×10-35 (HEL-5505)	1850/18142	2×10	4×35	40	0,5	1	UZA-14-D10-D35

Brackets and hooks

Subscriber brackets are intended for fastening subscriber branches on walls, bearings and building faces. Bolted brackets are designed for a through-wall fixation. Hooks allow carrying out suspension and anchor fastening on bearings and building faces. Hook and bolted bracket surface are covered with 80-micron thick layer of zinc providing for their easy exploitation within 40 years.

	Name	Collapse load, kgf/N	Weight, kg	Package amount, pcs	Product ID
	KAM-4000 (CA 1500/2000, SO 253)	4000/39227	0,27	10	UKA-12-1500-4000
	KAM-1500 (CA 1500)	1500	0,17	10	UKA-12-1500-1500
	KAB-200 (CAB25)	200/1960	0,02	3	UKB-12-16-340-700
	KB16-290/700 (HEL-5561)	4000/39227	0,90	3	UKB-12-16-290-700
	KB16-340/700 (HEL-5562)	4000/39227	1,00	3	UKB-12-16-340-700
	KB20-400/1500 (HEL-5574)	4000/39227	1,70	2	UKB-12-20-400-1500
	KM20-200/145/46 (SOT21)	1480/14500	1,25	3	UKK-12-20-200-145-46
	KM20-240/145/46 (SOT21.1)	1480/14500	1,33	3	UKK-12-20-240-145-46
	KM20-320/145/46 (SOT21.2)	1480/14500	1,56	3	UKK-12-20-320-145-46
	KM20-350/145/46 (SOT21.3)	1480/14500	1,67	3	UKK-12-20-350-145-46
	KM16-200/119/24 (SOT21.16)	1071/10500	0,81	3	UKK-12-16-200-119-24
	KM16-240/119/24 (SOT21.116)	1071/10500	0,86	3	UKK-12-16-240-119-24
	KM16-320/119/24 (SOT21.216)	1071/10500	1,00	3	UKK-12-16-320-119-24
	KS-16-155/20 (PD2.3)	1265/12400	0,39	10	UKK-12-16-154-20
	KS-20-155/40 (PD2.2)	1582/15500	0,60	10	UKK-12-20-155-40
	KR	880	0,42	5	UKR-1
	KM-1800 (HEL-5661, SOT29.1)	1306/12800	0,84	5	UKK-12-3-1800
	KM-2800 (SOT39)	2245/22000	1,00	5	UKK-12-3-2800
	KSA12-55/200 (BQC 12-55)	200/1960	0,20	10	UKS-12-12-55
	KSA12-250/200 (BQC 12-250)	200/1960	0,36	6	UKS-12-12-250
	KSA12-300/200 (BQC 12-300)	200/1960	0,39	6	UKS-12-12-300
	KP-500 (HEL-5642)	612/6000	0,18	10	UKP-12-800
	KZ M20-250/306 (SOT101.1)	3122/30600	1,93	3	UKK-12-20-320-670
	KZ M20-310/306 (SOT101.2)	3122/30600	2,07	3	UKK-12-20-380-670
	KA-450	459/4500	0,55	5	UKK-450
	KMU-1740 (SOT76)	1740	0,75	2	UKK-12-3-1740

Self-baking tape

For repair of damaged conductor insulation and cable sheath. It is used for cables and wires up to 1 kV with plastic and rubber insulation. When puncturing clamps are removed from the SBIW line, the wire insulation in punctured points must be restored with use of self-baking insulating tape. The cable insulation section that is restored with the tape, does not require mechanical actions or thermal exposure after wrapping.

	Description	Thickness, mm	Width, mm	Length, mm	Package qty., pcs	Product ID
	SP 0.76x19 (9 m/package)	0,76	19	9	60	UZP-213-30-20-SP

LM-50 rim band, SG-20 and SU-20 braces

Rim band and stainless steel braces are used for fastening protective profiles, brackets and other elements to power transmission line supports. The band is corrosion-resistant, sustainable to extreme temperatures, humidity and weather conditions. SG-20 brace construction is made in such a way that the plate junction line is located outside. SU-20 brace is made of a one-piece plate that contributes to its high strength as compared to SG-20. It is supplied with sharpened waves providing for better rim band holding. The band is enclosed into a plastic packaging convenient for transportation.

	Name	Breaking tension, kg/mm ²	Thickness, mm	Package weight, kg	Package amount	Product ID
	LM-50 (F 2007, COT37, F207)	76–97	0,7	5,5	50 м	UZA-L50
	SG-20 (A 200, NC 20)	—	0,8	0,6	100 шт.	UZA-50-100
	SU-20 (COT36)	—	1,6	1,3	100 шт.	UZA-51-100

Fastening kit

Facade fastening kit of KFK type are intended for suspension fixation and batch bundling of self-supporting insulated conductors (SSIC) under 1 kW on bearings and building walls. Bodies are made of polymer resistant to UV and weather conditions. Dowel part of fixtures is installed into Ø12 mm hole and fixed with a nail. KFK kits are supplied with a special channel allowing carrying out laying the second cable line along the existing one using a HS strap. Fastening sets are intended for facilitating SSIC mounting when arranging branching from the bearings or connecting SSIC to the building.

	Name	Collapse load, kgf/N	Weight, kg	Package amount, pcs	Product ID
	KFK12-47.1 (S090.1, SF 10, BRPF 70-150-1F)	20/196	0,056	50	UKA-32-12-471
	KFK12-47.6 (SF 50, BRPF 70-150-6F)	20/196	0,07	50	UKA-32-12-476

Name	Complete set	Product ID
Building fastening set KZ-8 IEK	KAM-4000 – 1 pcs. ZAB 16-25 – 1 pcs. KFK 12-47.6 – 2 pcs. GIA 10-16 – 2 pcs. GIA 16 – 2 pcs.	UKA-33-1-08
Pole fastening set KS-4 IEK	KAM-4000 – 1 pcs. ZOI 16-95/2,5-35 – 2 pcs. ZAB 16-25 – 1 pcs.	UKA-33-1-04

OPN excess-voltage suppressor

OPN excess-voltage suppressor of IEK® brand are intended for protecting electric networks and equipment at direct or indirect influence of lightning and surge overvoltages. Suppressors are designed for exploitation in AC electric networks under 1 kW (50 Hz).

Connecting OPN-XXX ZOI suppressors to SSIC is carried out with the help of ZOI clamp, to non-insulated lines – with the help of ZSGP clamps.

Connecting OPN-XXX Sh is performed onto bus taps of phase and neutral conductors.



Name	Rated current I_n , kA	Max. current ток I_{max} , kA	Operating voltage U_c , W	Protective voltage level, U_p , kW	Classification voltage	Product ID
OPN-280 ZOI (LVA 280V-FL)	10	40	280	1,2	500	UZO-19-280-FL
OPN-440 ZOI (LVA 440V-FL)	10	40	440	1,8	800	UZO-19-440-FL
OPN-280Sh (LVA 280V-DL)	10	40	280	1,2	500	UZO-19-280-DL
OPN-440Sh ZOI (LVA 440V-DL)	10	40	440	1,8	800	UZO-19-440-DL

HS straps for SSIC

HS straps are made of polymer with addition of fiber glass material resistant to UV and weather conditions. These devices do not contain halogens and do not support combustion.



Name	Thickness, mm	Breaking tension, kg/mm ²	Color	Embracing conductor diameter, mm	Package amount	Product ID
Strap for SSIC HS-180	2	40/392	black	10–45	100	UHH21-D6-180-100
Strap for SSIC HS-260	2	60/588	black	26–66	100	UHH21-D9-260-100
Strap for SSIC HS-360	2	60/588	black	55–95	100	UHH21-D9-360-100

KI sealed caps

KI sealed caps are intended for termination (insulation restoration) of bare SSIC end as well as for protecting them from air and moisture ingress. These devices are made of polymer with addition of fiber glass material resistant to UV and weather conditions. The caps can sustain 6kW of breakdown voltage underwater. They do not require any installation tools.



Name	Recommended range		Package weight, kg	Package amount	Product ID
	size, mm ²	diameter, mm			
KI 6-35 (CECT 6-35)	6–35	4,5–11,5	0,17	100	UZA-21-006-035
KI 16-150 (CECT 16-150)	16–150	6,5–19,0	0,28	50	UZA-21-016-150

Clamp holder

Designed for holding the puncturing clamps by their lower bar during installation. The insulated handle allows for using of the holder under voltage.



Description	Type of puncturing clamps	Weight, g	Package qty., pcs	Product ID
DZ-1 clamp holder	ZOI 16-95/2,5-35; ZOI 25-95/25-95; ZOI 35-150/6-35; ZOI 35-150/35-150 (1 bolt)	0,45	1	UZA-41-0019
DZ-2 clamp holder	ZOI 35-150/35-150 (2 bolts); ZOI 16-70/1,5-10	0,4	1	UZA-41-0020

ROR pay-out rollers

ROR pay-out rollers are the tools used for pay-out of SBIW along the intermediate poles of power transmission lines. ROR-1 and ROR 1700 rollers are hanged onto a bracket using turning hook with latch that prevents the roller from slipping out. The ROR-2 roller is hanged directly to the pole using auxiliary chain.

Maximum diameter of the cable that can be mounted using the rollers is 50 mm. The ROR-1 and ROR 1700 rollers are intended for use only with little angles of power transmission lines turn, up to 30°.

The ROR-2 roller is used when lines turn angles reach 90°.

	Description	Diameter of laid cable, mm	Breaking load at right angle to wire, kN	Breaking load along wire, kN	Angle of power line turn	Weight, kg	Package qty	Product ID
	ROR 1700 (ST26.1, PO 1000, RT2)	50	8		30°	2,7	1	UZA-42-1700
	ROR-1 (ST26.1)	50	8		30°	2	1	UZA-42-1700-1
	ROR-2 (ST26.22)	50	6	24	90°	6,5	1	UZA-42-1800-2

SSIC crimping matrices

SSIC crimping matrices are intended for use in combination with a PGR-240 crimper.

	Name	Package amount, pcs	Product ID
	E140 matrix for SSIC crimping using a PGR-240 crimper	1 pcs.	MTZ-E140-10-003
	E173 matrix for SSIC crimping using a PGR-240 crimper	1 pcs.	MTZ-E173-10-003
	E215 matrix for SSIC crimping using a PGR-240 crimper	1 pcs.	MTZ-E215-10-003

INSL-1 rim band cutting and tensioning tool

INSL-1 is designed for cutting and tensioning the rim band on reinforced concrete, wooden or metal bearings. Cut off band width should not exceed 20 mm, thickness – 1 mm. The toll is supplied with a lever for the band's seizure and fixation with a longitudinal tape-feed mechanism. INSL-1 is covered with corrosion-resistant coating. Knife handle is made of strong steel with rubber coating reducing the possibility of hand slipping during the amounting process and therefore facilitating it.

	Name	Max. band tension capacity, kgf/N	Weight, kg	Package amount, pcs	Product ID
	INSL-1 (CVF, CT42, OPV)	1300/12748	1,8	1	UZA-41-0001

Spiral ties

They are used with protected wires for fixing of these to the post insulators. The ties wind round the wire on both sides from the insulator. Easy and convenient mounting without need of additional tools.

	Description	Insulator neck diameter, mm	Cross-section of protected wire, mm ²	Weight, kg	Color coding	Package qty., pcs	Product ID
	CB 35	85	35-50	6,89	желтый	72	UZA-SV-35
	CB 70	85	70-95	7,38	зеленый	72	UZA-SV-70
	CB 120	85	120-150	8,2	черный	72	UZA-SV-120

Cable sleeves for voltages up to 1 kV

The cable sleeves are designed for joining cables of factory lengths into an integrated cable line or connection of them to electric units and overhead lines.

The IEK® cable sleeves are made from heat-shrink materials, for power cables up to 1 kV rating with various types of serving, sheath and wide range of conductor sizes.

The sleeves are made as kits of parts and materials intended to restore electrical, structural and mechanical integrity of a cable.

The kit composition depends on operating voltage, number of conductors, insulation type and cable design features.

The cable sleeves are divided into end sleeves and coupling sleeves, depending on their purpose.

The IEK® cable sleeves meet requirements in GOST 13781.0-86.

KV(N)tp-1 kV end sleeve for cables with impregnated-paper insulation

KV(N)tp-1 heat-shrink sleeve is designed for termination of aluminum or copper conductors of cables with impregnated-paper insulation for voltages up to 1 kV: AAG-1, AASh-1, AAB-1, AAP-1, AABSh-1, AAPSh-1, ASG-1, AASSh-1, ASBSh-1, SG-1, SSh-1, SBSH-1, SB-1, SP-1, SK-1, SBG-1, SPG -1, their equivalents and versions.



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Advantages

- Perfectly leak-tight sleeve design due to:
 - use of high-quality two-layer heat-shrink materials with adhesive thermomelting coating on inner surfaces of tubes and multiple cable joints;
 - oil-resistant tubes put over phase insulation of cable conductors;
 - use of special sealant for hydrochemical protection, applied over cable sheath and armor grounding assembly.
- The sleeve is of universal type and can be used both outdoors and indoors in compartments with any level of humidity.
- The cable sheath and armor grounding set is available for ordering with materials suitable for soldering or with constant-force springs made from high-quality stainless steel AISI 301 with high content of chromium and nickel.

Technical characteristics

Material	heat-shrink polymer
Material properties	halogen-free, chemically and UV-resistant
Heat shrinkage temperature, °C	120
Range of operating temperatures, °C	–45...+50
Shrinkage ratio	3:1
Ground bus	tinned copper conductor with lug for installation of M8 bolt
Overall dimensions of package, mm	820×150×150
Gross weight, kg	2–2.5

Products' range

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
End sleeve for indoor/outdoor installation, without lug, with soldered grounding assembly: KV(N)tp-1 w/o lug soldered				
KV(N)Tp 3×16/25-1 w/o lug soldered	3	16-25	1	UZM-BIK1-NVN3-1625XP
KV(N)Tp 3×35/50-1 w/o lug soldered	3	35-50	1	UZM-BIK1-NVN3-3550XP
KV(N)Tp 3×70/120-1 w/o lug soldered	3	70-120	1	UZM-BIK1-NVN3-70120XP
KV(N)Tp 3×150/240-1 w/o lug soldered	3	150-240	1	UZM-BIK1-NVN3-150240XP
KV(N)Tp 4×16/25-1 w/o lug soldered	4	16-25	1	UZM-BIK1-NVN4-1625XP
KV(N)Tp 4×35/50-1 w/o lug soldered	4	35-50	1	UZM-BIK1-NVN4-3550XP
KV(N)Tp 4×70/120-1 w/o lug soldered	4	70-120	1	UZM-BIK1-NVN4-70120XP
KV(N)Tp 4×150/240-1 w/o lug soldered	4	150-240	1	UZM-BIK1-NVN4-150240XP
End sleeve for indoor/outdoor installation, without lug, with not soldered grounding assembly: KV(N)tp-1 w/o lug CFS				
KV(N)Tp 3×16/25-1 w/o lug CFS	3	16-25	1	UZM-BIK1-NVN3-1625XZ
KV(N)Tp 3×35/50-1 w/o lug CFS	3	35-50	1	UZM-BIK1-NVN3-3550XZ
KV(N)Tp 3×70/120-1 w/o lug CFS	3	70-120	1	UZM-BIK1-NVN3-70120XZ
KV(N)Tp 3×150/240-1 w/o lug CFS	3	150-240	1	UZM-BIK1-NVN3-150240XZ
KV(N)Tp 4×16/25-1 w/o lug CFS	4	16-25	1	UZM-BIK1-NVN4-1625XZ
KV(N)Tp 4×35/50-1 w/o lug CFS	4	35-50	1	UZM-BIK1-NVN4-3550XZ
KV(N)Tp 4×70/120-1 w/o lug CFS	4	70-120	1	UZM-BIK1-NVN4-70120XZ
KV(N)Tp 4×150/240-1 w/o lug CFS	4	150-240	1	UZM-BIK1-NVN4-1625XZ
End sleeve for indoor/outdoor installation, with lug, with soldered grounding assembly: KV(N)tp-1 w/ lug soldered				
KV(N)Tp 3×16/25-1 w/lug soldered	3	16-25	1	UZM-BIK1-NVN3-1625SP
KV(N)Tp 3×35/50-1 w/lug soldered	3	35-50	1	UZM-BIK1-NVN3-3550SP
KV(N)Tp 3×70/120-1 w/lug soldered	3	70-120	1	UZM-BIK1-NVN3-70120SP
KV(N)Tp 3×150/240-1 w/lug soldered	3	150-240	1	UZM-BIK1-NVN3-150240SP
KV(N)Tp 4×16/25-1 w/lug soldered	4	16-25	1	UZM-BIK1-NVN4-1625SP
KV(N)Tp 4×35/50-1 w/lug soldered	4	35-50	1	UZM-BIK1-NVN4-3550SP
KV(N)Tp 4×70/120-1 w/lug soldered	4	70-120	1	UZM-BIK1-NVN4-70120SP
KV(N)Tp 4×150/240-1 w/lug soldered	4	150-240	1	UZM-BIK1-NVN4-150240SP
End sleeve for indoor/outdoor installation, with lug, with not soldered grounding assembly: KV(N)tp-1 w/ lug CFS				
KV(N)Tp 3×16/25-1 w/lug CFS	3	16-25	1	UZM-BIK1-NVN3-1625SZ
KV(N)Tp 3×35/50-1 w/lug CFS	3	35-50	1	UZM-BIK1-NVN3-3550SZ
KV(N)Tp 3×70/120-1 w/lug CFS	3	70-120	1	UZM-BIK1-NVN3-70120SZ
KV(N)Tp 3×150/240-1 w/lug CFS	3	150-240	1	UZM-BIK1-NVN3-150240SZ
KV(N)Tp 4×16/25-1 w/lug CFS	4	16-25	1	UZM-BIK1-NVN4-1625SZ
KV(N)Tp 4×35/50-1 w/lug CFS	4	35-50	1	UZM-BIK1-NVN4-3550SZ
KV(N)Tp 4×70/120-1 w/lug CFS	4	70-120	1	UZM-BIK1-NVN4-70120SZ
KV(N)Tp 4×150/240-1 w/lug CFS	4	150-240	1	UZM-BIK1-NVN4-1625SZ

PKV(N)tp-1 and PKVtp-1 end sleeves for cables with plastic insulation, cross-linked polyethylene insulation

PKV(N)tp-1 and PKVtp-1 heat-shrink sleeves are designed for termination of aluminum or copper conductors of cables with plastic, rubber and polyethylene insulation for voltages up to 1 kV: AVVG-1, VVG-1, AVVGz-1, VVGz-1, APVVG-1, PVVG -1, their equivalents and versions.



Advantages

- Quick and easy mounting of heat-shrink components using gas torch or high-temperature drying fan.
- Perfectly leak-tight sleeve design due to:
 - use of high-quality two-layer heat-shrink materials;
 - adhesive thermomelting coating on inner surfaces of heat-shrink tubes and multiple cable joints.
- Wide range of products, with several versions of sleeve supply: without lugs, with bolted lugs having break-out heads, with compression lugs.

Technical characteristics

Material	heat-shrink polymer
Material properties	halogen-free, chemically and UV-resistant
Heat shrinkage temperature, °C	120
Range of operating temperatures, °C	–45...+50
Shrinkage ratio	3:1
Overall dimensions of package, mm	820×150×150
Gross weight, kg	0.8–1.0

Products' range

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
End sleeve for outdoor installation, without lug: PKV(N)tp-1 w/o lug				
PKV(N)tp 1×16/25 w/o lug	1	16-25	1	UZM-XLK1-NVN-1625X
PKV(N)tp 1×35/50 w/o lug	1	35-50	1	UZM-XLK1-NVN1-3550X
PKV(N)tp 1×70/120 w/o lug	1	70-120	1	UZM-XLK1-NVN1-70120X
PKV(N)tp 1×150/240 w/o lug	1	150-240	1	UZM-XLK1-NVN1-150240X
PKV(N)tp 2×16/25 w/o lug	2	16-25	1	UZM-XLK1-NVN2-1625X
PKV(N)tp 2×35/50 w/o lug	2	35-50	1	UZM-XLK1-NVN2-3550X
PKV(N)tp 2×70/120 w/o lug	2	70-120	1	UZM-XLK1-NVN2-70120X
PKV(N)tp 2×150/240 w/o lug	2	150-240	1	UZM-XLK1-NVN2-150240X
PKV(N)tp 3×16/25 w/o lug	3	16-25	1	UZM-XLK1-NVN3-1625X
PKV(N)tp 3×35/50 w/o lug	3	35-50	1	UZM-XLK1-NVN3-3550X
PKV(N)tp 3×70/120 w/o lug	3	70-120	1	UZM-XLK1-NVN3-70120X
PKV(N)tp 3×150/240 w/o lug	3	150-240	1	UZM-XLK1-NVN3-150240X
PKV(N)tp 4×16/25 w/o lug	4	16-25	1	UZM-XLK1-NVN4-1625X
PKV(N)tp 4×35/50 w/o lug	4	35-50	1	UZM-XLK1-NVN4-3550X
PKV(N)tp 4×70/120 w/o lug	4	70-120	1	UZM-XLK1-NVN4-70120X
PKV(N)tp 4×150/240 w/o lug	4	150-240	1	UZM-XLK1-NVN4-150240X
PKV(N)tp 5×16/25 w/o lug	5	16-25	1	UZM-XLK1-NVN5-1625X
PKV(N)tp 5×35/50 w/o lug	5	35-50	1	UZM-XLK1-NVN5-3550X
PKV(N)tp 5×70/120 w/o lug	5	70-120	1	UZM-XLK1-NVN5-70120X
PKV(N)tp 5×150/240 w/o lug	5	150-240	1	UZM-XLK1-NVN5-150240X
End sleeve for outdoor installation, with lug: PKV(N)tp-1 w/ lug				
PKV(N)tp 1×16/25 w/lug	1	16-25	1	UZM-XLK1-NVN1-1625S
PKV(N)tp 1×35/50 w/lug	1	35-50	1	UZM-XLK1-NVN1-3550S
PKV(N)tp 1×70/120 w/lug	1	70-120	1	UZM-XLK1-NVN1-70120S
PKV(N)tp 1×150/240 w/lug	1	150-240	1	UZM-XLK1-NVN1-150240S
PKV(N)tp 2×16/25 w/lug	2	16-25	1	UZM-XLK1-NVN2-1625S
PKV(N)tp 2×35/50 w/lug	2	35-50	1	UZM-XLK1-NVN2-3550S
PKV(N)tp 2×70/120 w/lug	2	70-120	1	UZM-XLK1-NVN2-70120S
PKV(N)tp 2×150/240 w/lug	2	150-240	1	UZM-XLK1-NVN2-150240S
PKV(N)tp 3×16/25 w/lug	3	16-25	1	UZM-XLK1-NVN3-1625S
PKV(N)tp 3×35/50 w/lug	3	35-50	1	UZM-XLK1-NVN3-3550S
PKV(N)tp 3×70/120 w/lug	3	70-120	1	UZM-XLK1-NVN3-70120S
PKV(N)tp 3×150/240 w/lug	3	150-240	1	UZM-XLK1-NVN3-150240S
PKV(N)tp 4×16/25 w/lug	4	16-25	1	UZM-XLK1-NVN4-1625S
PKV(N)tp 4×35/50 w/lug	4	35-50	1	UZM-XLK1-NVN4-3550S
PKV(N)tp 4×70/120 w/lug	4	70-120	1	UZM-XLK1-NVN4-70120S
PKV(N)tp 4×150/240 w/lug	4	150-240	1	UZM-XLK1-NVN4-150240S
PKV(N)tp 5×16/25 w/lug	5	16-25	1	UZM-XLK1-NVN5-1625S
PKV(N)tp 5×35/50 w/lug	5	35-50	1	UZM-XLK1-NVN5-3550S
PKV(N)tp 5×70/120 w/lug	5	70-120	1	UZM-XLK1-NVN5-70120S
PKV(N)tp 5×150/240 w/lug	5	150-240	1	UZM-XLK1-NVN5-150240S

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
End sleeve for indoor installation, without lug: PKVtp-1 w/o lug				
PKVtp 1×16/25 w/o lug	1	16-25	3	UZH-XLK1-VN1-1625X
PKVtp 1×35/50 w/o lug	1	35-50	3	UZH-XLK1-VN1-3550X
PKVtp 1×70/120 w/o lug	1	70-120	3	UZH-XLK1-VN1-70120X
PKVtp 1×150/240 w/o lug	1	150-240	3	UZH-XLK1-VN1-150240X
PKVtp 2×16/25 w/o lug	2	16-25	3	UZH-XLK1-VN2-1625X
PKVtp 2×35/50 w/o lug	2	35-50	3	UZH-XLK1-VN2-3550X
PKVtp 2×70/120 w/o lug	2	70-120	3	UZH-XLK1-VN2-70120X
PKVtp 2×150/240 w/o lug	2	150-240	3	UZH-XLK1-VN2-150240X
PKVtp 3×16/25 w/o lug	3	16-25	3	UZH-XLK1-VN3-1625X
PKVtp 3×35/50 w/o lug	3	35-50	3	UZH-XLK1-VN3-3550X
PKVtp 3×70/120 w/o lug	3	70-120	3	UZH-XLK1-VN3-70120X
PKVtp 3×150/240 w/o lug	3	150-240	3	UZH-XLK1-VN3-150240X
PKVtp 4×16/25 w/o lug	4	16-25	3	UZH-XLK1-VN4-1625X
PKVtp 4×35/50 w/o lug	4	35-50	3	UZH-XLK1-VN4-3550X
PKVtp 4×70/120 w/o lug	4	70-120	3	UZH-XLK1-VN4-70120X
PKVtp 4×150/240 w/o lug	4	150-240	3	UZH-XLK1-VN4-150240X
PKVtp 5×16/25 w/o lug	5	16-25	3	UZH-XLK1-VN5-1625X
PKVtp 5×35/50 w/o lug	5	35-50	3	UZH-XLK1-VN5-3550X
PKVtp 5×70/120 w/o lug	5	70-120	3	UZH-XLK1-VN5-70120X
PKVtp 5×150/240 w/o lug	5	150-240	3	UZH-XLK1-VN5-150240X
End sleeve for indoor installation, with lug: PKVtp-1 w/ lug				
PKVtp 1×16/25 w/lug	1	16-25	3	UZH-XLK1-VN1-1625S
PKVtp 1×35/50 w/lug	1	35-50	3	UZH-XLK1-VN1-3550S
PKVtp 1×70/120 w/lug	1	70-120	3	UZH-XLK1-VN1-70120S
PKVtp 5×150/240 w/lug	1	150-240	3	UZH-XLK1-VN1-150240S
PKVtp 2×16/25 w/lug	2	16-25	3	UZH-XLK1-VN2-1625S
PKVtp 2×35/50 w/lug	2	35-50	3	UZH-XLK1-VN2-3550S
PKVtp 2×70/120 w/lug	2	70-120	3	UZH-XLK1-VN2-70120S
PKVtp 2×150/240 w/lug	2	150-240	3	UZH-XLK1-VN2-150240S
PKVtp 3×16/25 w/lug	3	16-25	3	UZH-XLK1-VN3-1625S
PKVtp 3×35/50 w/lug	3	35-50	3	UZH-XLK1-VN3-3550S
PKVtp 3×70/120 w/lug	3	70-120	3	UZH-XLK1-VN3-70120S
PKVtp 3×150/240 w/lug	3	150-240	3	UZH-XLK1-VN3-150240S
PKVtp 4×16/25 w/lug	4	16-25	3	UZH-XLK1-VN4-1625S
PKVtp 4×35/50 w/lug	4	35-50	3	UZH-XLK1-VN4-3550S
PKVtp 4×70/120 w/lug	4	70-120	3	UZH-XLK1-VN4-70120S
PKVtp 4×150/240 w/lug	4	150-240	3	UZH-XLK1-VN4-150240S
PKVtp 5×16/25 w/lug	5	16-25	3	UZH-XLK1-VN5-1625S
PKVtp 5×35/50 w/lug	5	35-50	3	UZH-XLK1-VN5-3550S
PKVtp 5×70/120 w/lug	5	70-120	3	UZH-XLK1-VN5-70120S
PKVtp 5×150/240 w/lug	5	150-240	3	UZH-XLK1-VN5-150240S

PKV(N)tpbe-1 and PKVtpbe-1 end sleeves for cables with plastic insulation, cross-linked polyethylene insulation with armor or shield

PKV(N)tpbe-1 and PKVtpbe-1 heat-shrink sleeves are designed for termination of aluminum or copper conductors of cables with plastic, rubber and polyethylene insulation with armor or shield for voltages up to 1 kV: AVBbShv-1, VBbShv-1, AVVB-1, AVVBG-1, VVB-1, VVBG-1, APvBbShv-1, PvBbShv-1, VVGE, AVVGE, PvVGE, APvVGE, their equivalents and versions.

The product's range is developed for 1-, 2-, 3-, 4- and 5-core cables.



Advantages

- The sleeve can be used with armored and shielded cables and includes a kit of soldered or not soldered grounding options. The soldered grounding kit contains constant force springs (CFS) made from high-quality stainless steel AISI 301 with high content of chromium and nickel, that ensure reliable and safe connection of PML grounding bus to cable armor bands.
- Use of high-quality two-layer heat-shrink materials with adhesive thermomelting coating on inner surfaces of tubes and multiple cable joints ensures perfect tightness of the sleeve construction.

Technical characteristics

Heat shrinkage temperature, °C	120
Range of operating temperatures, °C	–45...+50
Shrinkage ratio	3:1
Overall dimensions of package, mm	820×150×150
Gross weight, kg	1.0–1.5

Products' range

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
End sleeve for outdoor installation, without lug, with soldered grounding assembly: PKV(N)tpbe-1 w/o lug soldered				
PKV(N)tpbe 1×16/25 w/o lug soldered	1	16-25	1	UZM-XLBK1-NVN1-1625XP
PKV(N)tpbe 1×35/50 w/o lug soldered	1	35-50	1	UZM-XLBK1-NVN1-3550XP
PKV(N)tpbe 1×70/120 w/o lug soldered	1	70-120	1	UZM-XLBK1-NVN1-70120XP
PKV(N)tpbe 1×150/240 w/o lug soldered	1	150-240	1	UZM-XLBK1-NVN1-150240XP
PKV(N)tpbe 2×16/25 w/o lug soldered	2	16-25	1	UZM-XLBK1-NVN2-1625XP
PKV(N)tpbe 2×35/50 w/o lug soldered	2	35-50	1	UZM-XLBK1-NVN2-3550XP
PKV(N)tpbe 2×70/120 w/o lug soldered	2	70-120	1	UZM-XLBK1-NVN2-70120XP
PKV(N)tpbe 2×150/240 w/o lug soldered	2	150-240	1	UZM-XLBK1-NVN2-150240XP
PKV(N)tpbe 3×16/25 w/o lug soldered	3	16-25	1	UZM-XLBK1-NVN3-1625XP
PKV(N)tpbe 3×35/50 w/o lug soldered	3	35-50	1	UZM-XLBK1-NVN3-3550XP
PKV(N)tpbe 3×70/120 w/o lug soldered	3	70-120	1	UZM-XLBK1-NVN3-70120XP
PKV(N)tpbe 3×150/240 w/o lug soldered	3	150-240	1	UZM-XLBK1-NVN3-150240XP
PKV(N)tpbe 4×16/25 w/o lug soldered	4	16-25	1	UZM-XLBK1-NVN4-1625XP
PKV(N)tpbe 4×35/50 w/o lug soldered	4	35-50	1	UZM-XLBK1-NVN4-3550XP
PKV(N)tpbe 4×70/120 w/o lug soldered	4	70-120	1	UZM-XLBK1-NVN4-70120XP
PKV(N)tpbe 4×150/240 w/o lug soldered	4	150-240	1	UZM-XLBK1-NVN4-150240XP
PKV(N)tpbe 5×16/25 w/o lug soldered	5	16-25	1	UZM-XLBK1-NVN5-1625XP
PKV(N)tpbe 5×35/50 w/o lug soldered	5	35-50	1	UZM-XLBK1-NVN5-3550XP
PKV(N)tpbe 5×70/120 w/o lug soldered	5	70-120	1	UZM-XLBK1-NVN5-70120XP
PKV(N)tpbe 5×150/240 w/o lug soldered	5	150-240	1	UZM-XLBK1-NVN5-150240XP
End sleeve for outdoor installation, without lug, with not soldered grounding assembly: PKV(N)tpbe-1 w/o lug CFS				
PKV(N)tpbe 1×16/25 w/o lug CFS	1	16-25	1	UZM-XLBK1-NVN1-1625XZ
PKV(N)tpbe 1×35/50 w/o lug CFS	1	35-50	1	UZM-XLBK1-NVN1-3550XZ
PKV(N)tpbe 1×70/120 w/o lug CFS	1	70-120	1	UZM-XLBK1-NVN1-70120XZ
PKV(N)tpbe 1×150/240 w/o lug CFS	1	150-240	1	UZM-XLBK1-NVN1-150240XZ
PKV(N)tpbe 2×16/25 w/o lug CFS	2	16-25	1	UZM-XLBK1-NVN2-1625XZ
PKV(N)tpbe 2×35/50 w/o lug CFS	2	35-50	1	UZM-XLBK1-NVN2-3550XZ
PKV(N)tpbe 2×70/120 w/o lug CFS	2	70-120	1	UZM-XLBK1-NVN2-70120XZ
PKV(N)tpbe 2×150/240 w/o lug CFS	2	150-240	1	UZM-XLBK1-NVN2-150240XZ
PKV(N)tpbe 3×16/25 w/o lug CFS	3	16-25	1	UZM-XLBK1-NVN3-1625XZ
PKV(N)tpbe 3×35/50 w/o lug CFS	3	35-50	1	UZM-XLBK1-NVN3-3550XZ
PKV(N)tpbe 3×70/120 w/o lug CFS	3	70-120	1	UZM-XLBK1-NVN3-70120XZ
PKV(N)tpbe 3×150/240 w/o lug CFS	3	150-240	1	UZM-XLBK1-NVN3-150240XZ
PKV(N)tpbe 4×16/25 w/o lug CFS	4	16-25	1	UZM-XLBK1-NVN4-1625XZ
PKV(N)tpbe 4×35/50 w/o lug CFS	4	35-50	1	UZM-XLBK1-NVN4-3550XZ
PKV(N)tpbe 4×70/120 w/o lug CFS	4	70-120	1	UZM-XLBK1-NVN4-70120XZ
PKV(N)tpbe 4×150/240 w/o lug CFS	4	150-240	1	UZM-XLBK1-NVN4-150240XZ
PKV(N)tpbe 5×16/25 w/o lug CFS	5	16-25	1	UZM-XLBK1-NVN5-1625XZ
PKV(N)tpbe 5×35/50 w/o lug CFS	5	35-50	1	UZM-XLBK1-NVN5-3550XZ
PKV(N)tpbe 5×70/120 w/o lug CFS	5	70-120	1	UZM-XLBK1-NVN5-70120XZ
PKV(N)tpbe 5×150/240 w/o lug CFS	5	150-240	1	UZM-XLBK1-NVN5-150240XZ

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
End sleeve for outdoor installation, with bolted lug, soldered grounding assembly: PKV(N)tpbe-1 w/ lug soldered				
PKV(N)tpbe 1×16/25 w/lug soldered	1	16-25	1	UZM-XLBK1-NVN1-1625SP
PKV(N)tpbe 1×35/50 w/ ug soldered	1	35-50	1	UZM-XLBK1-NVN1-3550SP
PKV(N)tpbe 1×70/120 w/lug soldered	1	70-120	1	UZM-XLBK1-NVN1-70120SP
PKV(N)tpbe 1×150/240 w/lug soldered	1	150-240	1	UZM-XLBK1-NVN1-150240SP
PKV(N)tpbe 2×16/25 w/lug soldered	2	16-25	1	UZM-XLBK1-NVN2-1625SP
PKV(N)tpbe 2×35/50 w/lug soldered	2	35-50	1	UZM-XLBK1-NVN2-3550SP
PKV(N)tpbe 2×70/120 w/lug soldered	2	70-120	1	UZM-XLBK1-NVN2-70120SP
PKV(N)tpbe 2×150/240 w/lug soldered	2	150-240	1	UZM-XLBK1-NVN2-150240SP
PKV(N)tpbe 3×16/25 w/lug soldered	3	16-25	1	UZM-XLBK1-NVN3-1625SP
PKV(N)tpbe 3×35/50 w/lug soldered	3	35-50	1	UZM-XLBK1-NVN3-3550SP
PKV(N)tpbe 3×70/120 w/lug soldered	3	70-120	1	UZM-XLBK1-NVN3-70120SP
PKV(N)tpbe 3×150/240 w/lug soldered	3	150-240	1	UZM-XLBK1-NVN3-150240SP
PKV(N)tpbe 4×16/25 w/lug soldered	4	16-25	1	UZM-XLBK1-NVN4-1625SP
PKV(N)tpbe 4×35/50 w/lug soldered	4	35-50	1	UZM-XLBK1-NVN4-3550SP
PKV(N)tpbe 4×70/120 w/lug soldered	4	70-120	1	UZM-XLBK1-NVN4-70120SP
PKV(N)tpbe 4×150/240 w/lug soldered	4	150-240	1	UZM-XLBK1-NVN4-150240SP
PKV(N)tpbe 5×16/25 w/lug soldered	5	16-25	1	UZM-XLBK1-NVN5-1625SP
PKV(N)tpbe 5×35/50 w/lug soldered	5	35-50	1	UZM-XLBK1-NVN5-3550SP
PKV(N)tpbe 5×70/120 w/lug soldered	5	70-120	1	UZM-XLBK1-NVN5-70120SP
PKV(N)tpbe 5×150/240 w/lug soldered	5	150-240	1	UZM-XLBK1-NVN5-150240SP
End sleeve for outdoor installation, with bolted lug, not soldered grounding assembly: PKV(N)tpbe-1 w/ lug CFS				
PKV(N)tpbe 1×16/25 w/lug CFS	1	16-25	1	UZM-XLBK1-NVN1-1625SZ
PKV(N)tpbe 1×35/50 w/lug CFS	1	35-50	1	UZM-XLBK1-NVN1-3550SZ
PKV(N)tpbe 1×70/120 w/lug CFS	1	70-120	1	UZM-XLBK1-NVN1-70120SZ
PKV(N)tpbe 1×150/240 w/lug CFS	1	150-240	1	UZM-XLBK1-NVN1-150240SZ
PKV(N)tpbe 2×16/25 w/lug CFS	2	16-25	1	UZM-XLBK1-NVN2-1625SZ
PKV(N)tpbe 2×35/50 w/lug CFS	2	35-50	1	UZM-XLBK1-NVN2-3550SZ
PKV(N)tpbe 2×70/120 w/lug CFS	2	70-120	1	UZM-XLBK1-NVN2-70120SZ
PKV(N)tpbe 2×150/240 w/lug CFS	2	150-240	1	UZM-XLBK1-NVN2-150240SZ
PKV(N)tpbe 3×16/25 w/lug CFS	3	16-25	1	UZM-XLBK1-NVN3-1625SZ
PKV(N)tpbe 3×35/50 w/lug CFS	3	35-50	1	UZM-XLBK1-NVN3-3550SZ
PKV(N)tpbe 3×70/120 w/lug CFS	3	70-120	1	UZM-XLBK1-NVN3-70120SZ
PKV(N)tpbe 3×150/240 w/lug CFS	3	150-240	1	UZM-XLBK1-NVN3-150240SZ
PKV(N)tpbe 4×16/25 w/lug CFS	4	16-25	1	UZM-XLBK1-NVN4-1625SZ
PKV(N)tpbe 4×35/50 w/lug CFS	4	35-50	1	UZM-XLBK1-NVN4-3550SZ
PKV(N)tpbe 4×70/120 w/lug CFS	4	70-120	1	UZM-XLBK1-NVN4-70120SZ
PKV(N)tpbe 4×150/240 w/lug CFS	4	150-240	1	UZM-XLBK1-NVN4-150240SZ
PKV(N)tpbe 5×16/25 w/lug CFS	5	16-25	1	UZM-XLBK1-NVN5-1625SZ
PKV(N)tpbe 5×35/50 w/lug CFS	5	35-50	1	UZM-XLBK1-NVN5-3550SZ
PKV(N)tpbe 5×70/120 w/lug CFS	5	70-120	1	UZM-XLBK1-NVN5-70120SZ
PKV(N)tpbe 5×150/240 w/lug CFS	5	150-240	1	UZM-XLBK1-NVN5-150240SZ

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
End sleeve for indoor installation, without lug, with soldered grounding assembly: PKVtpbe-1 w/o lug soldered				
PKVtpbe 1×16/25 w/o lug soldered	1	16-25	3	UZM-XLBK1-VN1-1625XP
PKVtpbe 1×35/50 w/o lug soldered	1	35-50	3	UZM-XLBK1-VN1-3550XP
PKVtpbe 1×70/120 w/o lug soldered	1	70-120	3	UZM-XLBK1-VN1-70120XP
PKVtpbe 1×150/240 w/o lug soldered	1	150-240	3	UZM-XLBK1-VN1-150240XP
PKVtpbe 2×16/25 w/o lug soldered	2	16-25	3	UZM-XLBK1-VN2-1625XP
PKVtpbe 2×35/50 w/o lug soldered	2	35-50	3	UZM-XLBK1-VN2-3550XP
PKVtpbe 2×70/120 w/o lug soldered	2	70-120	3	UZM-XLBK1-VN2-70120XP
PKVtpbe 2×150/240 w/o lug soldered	2	150-240	3	UZM-XLBK1-VN2-150240XP
PKVtpbe 3×16/25 w/o lug soldered	3	16-25	3	UZM-XLBK1-VN3-1625XP
PKVtpbe 3×35/50 w/o lug soldered	3	35-50	3	UZM-XLBK1-VN3-3550XP
PKVtpbe 3×70/120 w/o lug soldered	3	70-120	3	UZM-XLBK1-VN3-70120XP
PKVtpbe 3×150/240 w/o lug soldered	3	150-240	3	UZM-XLBK1-VN3-150240XP
PKVtpbe 4×16/25 w/o lug soldered	4	16-25	3	UZM-XLBK1-VN4-1625XP
PKVtpbe 4×35/50 w/o lug soldered	4	35-50	3	UZM-XLBK1-VN4-3550XP
PKVtpbe 4×70/120 w/o lug soldered	4	70-120	3	UZM-XLBK1-VN4-70120XP
PKVtpbe 4×150/240 w/o lug soldered	4	150-240	3	UZM-XLBK1-VN4-150240XP
PKVtpbe 5×16/25 w/o lug soldered	5	16-25	3	UZM-XLBK1-VN5-1625XP
PKVtpbe 5×35/50 w/o lug soldered	5	35-50	3	UZM-XLBK1-VN5-3550XP
PKVtpbe 5×70/120 w/o lug soldered	5	70-120	3	UZM-XLBK1-VN5-70120XP
PKVtpbe 5×150/240 w/o lug soldered	5	150-240	3	UZM-XLBK1-VN5-150240XP
End sleeve for indoor installation, without lug, with not soldered grounding assembly: PKVtpbe-1 w/o lug CFS				
PKVtpbe 1×16/25 w/o lug CFS	1	16-25	3	UZM-XLBK1-VN1-1625XZ
PKVtpbe 1×35/50 w/o lug CFS	1	35-50	3	UZM-XLBK1-VN1-3550XZ
PKVtpbe 1×70/120 w/o lug CFS	1	70-120	3	UZM-XLBK1-VN1-70120XZ
PKVtpbe 1×150/240 w/o lug CFS	1	150-240	3	UZM-XLBK1-VN1-150240XZ
PKVtpbe 2×16/25 w/o lug CFS	2	16-25	3	UZM-XLBK1-VN2-1625XZ
PKVtpbe 2×35/50 w/o lug CFS	2	35-50	3	UZM-XLBK1-VN2-3550XZ
PKVtpbe 2×70/120 w/o lug CFS	2	70-120	3	UZM-XLBK1-VN2-70120XZ
PKVtpbe 2×150/240 w/o lug CFS	2	150-240	3	UZM-XLBK1-VN2-150240XZ
PKVtpbe 3×16/25 w/o lug CFS	3	16-25	3	UZM-XLBK1-VN3-1625XZ
PKVtpbe 3×35/50 w/o lug CFS	3	35-50	3	UZM-XLBK1-VN3-3550XZ
PKVtpbe 3×70/120 w/o lug CFS	3	70-120	3	UZM-XLBK1-VN3-70120XZ
PKVtpbe 3×150/240 w/o lug CFS	3	150-240	3	UZM-XLBK1-VN3-150240XZ
PKVtpbe 4×16/25 w/o lug CFS	4	16-25	3	UZM-XLBK1-VN4-1625XZ
PKVtpbe 4×35/50 w/o lug CFS	4	35-50	3	UZM-XLBK1-VN4-3550XZ
PKVtpbe 4×70/120 w/o lug CFS	4	70-120	3	UZM-XLBK1-VN4-70120XZ
PKVtpbe 4×150/240 w/o lug CFS	4	150-240	3	UZM-XLBK1-VN4-150240XZ
PKVtpbe 5×16/25 w/o lug CFS	5	16-25	3	UZM-XLBK1-VN5-1625XZ
PKVtpbe 5×35/50 w/o lug CFS	5	35-50	3	UZM-XLBK1-VN5-3550XZ
PKVtpbe 5×70/120 w/o lug CFS	5	70-120	3	UZM-XLBK1-VN5-70120XZ
PKVtpbe 5×150/240 w/o lug CFS	5	150-240	3	UZM-XLBK1-VN5-150240XZ

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
End sleeve for indoor installation, with bolted lug, with soldered grounding assembly: PKVtpbe-1 w/ lug soldered				
PKVtpbe 1×16/25 w/lug soldered	1	16-25	3	UZM-XLBK1-VN1-1625SP
PKVtpbe 1×35/50 w/lug soldered	1	35-50	3	UZM-XLBK1-VN1-3550SP
PKVtpbe 1×70/120 w/lug soldered	1	70-120	3	UZM-XLBK1-VN1-70120SP
PKVtpbe 1×150/240 w/lug soldered	1	150-240	3	UZM-XLBK1-VN1-150240SP
PKVtpbe 2×16/25 w/lug soldered	2	16-25	3	UZM-XLBK1-VN2-1625SP
PKVtpbe 2×35/50 w/lug soldered	2	35-50	3	UZM-XLBK1-VN2-3550SP
PKVtpbe 2×70/120 w/lug soldered	2	70-120	3	UZM-XLBK1-VN2-70120SP
PKVtpbe 2×150/240 w/lug soldered	2	150-240	3	UZM-XLBK1-VN2-150240SP
PKVtpbe 3×16/25 w/lug soldered	3	16-25	3	UZM-XLBK1-VN3-1625SP
PKVtpbe 3×35/50 w/lug soldered	3	35-50	3	UZM-XLBK1-VN3-3550SP
PKVtpbe 3×70/120 w/lug soldered	3	70-120	3	UZM-XLBK1-VN3-70120SP
PKVtpbe 3×150/240 w/lug soldered	3	150-240	3	UZM-XLBK1-VN3-150240SP
PKVtpbe 4×16/25 w/lug soldered	4	16-25	3	UZM-XLBK1-VN4-1625SP
PKVtpbe 4×35/50 w/lug soldered	4	35-50	3	UZM-XLBK1-VN4-3550SP
PKVtpbe 4×70/120 w/lug soldered	4	70-120	3	UZM-XLBK1-VN4-70120SP
PKVtpbe 4×150/240 w/lug soldered	4	150-240	3	UZM-XLBK1-VN4-150240SP
PKVtpbe 5×16/25 w/lug soldered	5	16-25	3	UZM-XLBK1-VN5-1625SP
PKVtpbe 5×35/50 w/lug soldered	5	35-50	3	UZM-XLBK1-VN5-3550SP
PKVtpbe 5×70/120 w/lug soldered	5	70-120	3	UZM-XLBK1-VN5-70120SP
PKVtpbe 5×150/240 w/lug soldered	5	150-240	3	UZM-XLBK1-VN5-150240SP
End sleeve for indoor installation, with bolted lug, not soldered grounding assembly: PKV(N)tpbe-1 w/ lug CFS				
PKVtpbe 1×16/25 w/lug CFS	1	16-25	3	UZM-XLBK1-VN1-1625SZ
PKVtpbe 1×35/50 w/lug CFS	1	35-50	3	UZM-XLBK1-VN1-3550SZ
PKVtpbe 1×70/120 w/lug CFS	1	70-120	3	UZM-XLBK1-VN1-70120SZ
PKVtpbe 1×150/240 w/lug CFS	1	150-240	3	UZM-XLBK1-VN1-150240SZ
PKVtpbe 2×16/25 w/lug CFS	2	16-25	3	UZM-XLBK1-VN2-1625SZ
PKVtpbe 2×35/50 w/lug CFS	2	35-50	3	UZM-XLBK1-VN2-3550SZ
PKVtpbe 2×70/120 w/lug CFS	2	70-120	3	UZM-XLBK1-VN2-70120SZ
PKVtpbe 2×150/240 w/lug CFS	2	150-240	3	UZM-XLBK1-VN2-150240SZ
PKVtpbe 3×16/25 w/lug CFS	3	16-25	3	UZM-XLBK1-VN3-1625SZ
PKVtpbe 3×35/50 w/lug CFS	3	35-50	3	UZM-XLBK1-VN3-3550SZ
PKVtpbe 3×70/120 w/lug CFS	3	70-120	3	UZM-XLBK1-VN3-70120SZ
PKVtpbe 3×150/240 w/lug CFS	3	150-240	3	UZM-XLBK1-VN3-150240SZ
PKVtpbe 4×16/25 w/lug CFS	4	16-25	3	UZM-XLBK1-VN4-1625SZ
PKVtpbe 4×35/50 w/lug CFS	4	35-50	3	UZM-XLBK1-VN4-3550SZ
PKVtpbe 4×70/120 w/lug CFS	4	70-120	3	UZM-XLBK1-VN4-70120SZ
PKVtpbe 4×150/240 w/lug CFS	4	150-240	3	UZM-XLBK1-VN4-150240SZ
PKVtpbe 5×16/25 w/lug CFS	5	16-25	3	UZM-XLBK1-VN5-1625SZ
PKVtpbe 5×35/50 w/lug CFS	5	35-50	3	UZM-XLBK1-VN5-3550SZ
PKVtpbe 5×70/120 w/lug CFS	5	70-120	3	UZM-XLBK1-VN5-70120SZ
PKVtpbe 5×150/240 w/lug CFS	5	150-240	3	UZM-XLBK1-VN5-150240SZ

Stt(tp)-1 kV coupling sleeve for cables with impregnated-paper insulation

Stt(tp)-1 heat-shrink sleeve is designed for connection of aluminum or copper conductors of cables with impregnated-paper insulation for voltage 1 kV: AAG-1, AASh-1, AAB-1, AAP-1, AABSh-1, AAPSh-1, ASG-1, AASSh-1, ASBSh-1, SG-1, SSh-1, SBSH-1, SB-1, SP-1, SK-1, SBG-1, SPG -1, their equivalents and versions.



Advantages

- The sleeves can be installed directly in the ground, tunnels and channels and also outdoors: on trestles, cable shelves, etc.
- Perfectly leak-tight sleeve design due to:
 - use of high-quality two-layer heat-shrink materials with adhesive thermomelting coating on inner surfaces of tubes and multiple cable joints;
 - oil-resistant tubes put over phase insulation of cable conductors;
 - use of special sealant for hydrochemical protection, applied over cable sheath and armor grounding assembly.

Technical characteristics

Material	heat-shrink polymer
Material properties	halogen-free, chemically and UV-resistant
Heat shrinkage temperature, °C	120
Range of operating temperatures, °C	–45...+50
Shrinkage ratio	3:1
Overall dimensions of package, mm	1290×150×150
Gross weight, kg	3.0–4.0

Products' range

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
Coupling sleeve without bushings, with soldered grounding assembly: Stt(tp)-1 w/o bushing soldered				
Stt(tp) 3×16/25 w/o bushing soldered	3	16-25	1	UZM-BIS1-VN3-1625XP
Stt(tp) 3×35/50 w/o bushing soldered	3	35-50	1	UZM-BIS1-VN3-3550XP
Stt(tp) 3×70/120 w/o bushing soldered	3	70-120	1	UZM-BIS1-VN3-70120XP
Stt(tp) 3×150/240 w/o bushing soldered	3	150-240	1	UZM-BIS1-VN3-150240XP
Stt(tp) 4×16/25 w/o bushing soldered	4	16-25	1	UZM-BIS1-VN4-1625XP
Stt(tp) 4×35/50 w/o bushing soldered	4	35-50	1	UZM-BIS1-VN4-3550XP
Stt(tp) 4×70/120 w/o bushing soldered	4	70-120	1	UZM-BIS1-VN4-70120XP
Stt(tp) 4×150/240 w/o bushing soldered	4	150-240	1	UZM-BIS1-VN4-150240XP
Coupling sleeve without bushings, with not soldered grounding assembly: Stt(tp)-1 w/o bushing CFS				
Stt(tp) 3×16/25 w/o bushing CFS	3	16-25	1	UZM-BIS1-VN3-1625XZ
Stt(tp) 3×35/50 w/o bushing CFS	3	35-50	1	UZM-BIS1-VN3-3550XZ
Stt(tp) 3×70/120 w/o bushing CFS	3	70-120	1	UZM-BIS1-VN3-70120XZ
Stt(tp) 3×150/240 w/o bushing CFS	3	150-240	1	UZM-BIS1-VN3-150240XZ
Stt(tp) 4×16/25 w/o bushing CFS	4	16-25	1	UZM-BIS1-VN4-1625XZ
Stt(tp) 4×35/50 w/o bushing CFS	4	35-50	1	UZM-BIS1-VN4-3550XZ
Stt(tp) 4×70/120 w/o bushing CFS	4	70-120	1	UZM-BIS1-VN4-70120XZ
Stt(tp) 4×150/240 w/o bushing CFS	4	150-240	1	UZM-BIS1-VN4-150240XZ
Coupling sleeve with bushings, with soldered grounding assembly: Stt(tp)-1 w/ bushing soldered				
Stt(tp) 3×16/25 w/bushing soldered	3	16-25	1	UZM-BIS1-VN3-1625SP
Stt(tp) 3×35/50 w/bushing soldered	3	35-50	1	UZM-BIS1-VN3-3550SP
Stt(tp) 3×70/120 cw/bushing soldered	3	70-120	1	UZM-BIS1-VN3-70120SP
Stt(tp) 3×150/240 w/bushing soldered	3	150-240	1	UZM-BIS1-VN3-150240SP
Stt(tp) 4×16/25 w/bushing soldered	4	16-25	1	UZM-BIS1-VN4-1625SP
Stt(tp) 4×35/50 w/bushing soldered	4	35-50	1	UZM-BIS1-VN4-3550SP
Stt(tp) 4×70/120 w/bushing soldered	4	70-120	1	UZM-BIS1-VN4-70120SP
Stt(tp) 4×150/240 w/bushing soldered	4	150-240	1	UZM-BIS1-VN4-150240SP
Coupling sleeve with bushings, with not soldered grounding assembly: Stt(tp)-1 w/ bushing CFS				
Stt(tp) 3×16/25 w/bushing CFS	3	16-25	1	UZM-BIS1-VN3-1625SZ
Stt(tp) 3×35/50 w/bushing CFS	3	35-50	1	UZM-BIS1-VN3-3550SZ
Stt(tp) 3×70/120 w/bushing CFS	3	70-120	1	UZM-BIS1-VN3-70120SZ
Stt(tp) 3×150/240 w/bushing CFS	3	150-240	1	UZM-BIS1-VN3-150240SZ
Stt(tp) 4×16/25 w/bushing CFS	4	16-25	1	UZM-BIS1-VN4-1625SZ
Stt(tp) 4×35/50 w/bushing CFS	4	35-50	1	UZM-BIS1-VN4-3550SZ
Stt(tp) 4×70/120 w/bushing CFS	4	70-120	1	UZM-BIS1-VN4-70120SZ
Stt(tp) 4×150/240 w/bushing CFS	4	150-240	1	UZM-BIS1-VN4-150240SZ

PStt-1 coupling sleeve for cables with plastic insulation, cross-linked polyethylene insulation

PStt-1 heat-shrink sleeve is designed for connection of aluminum or copper conductors of cables with plastic, rubber and polyethylene insulation for voltage 1 kV: AVVG-1, VVG-1, AVVGz-1, VVGz-1, APvVG-1, PvVG -1, their equivalents and versions. The product's range is developed for 1-, 2-, 3-, 4- and 5-core cables.



Made in Russia

Advantages

- Use of high-quality two-layer heat-shrink materials with adhesive thermomelting coating on inner surfaces of external casing, tubes and multiple cable joints guarantees perfect tightness of the sleeve construction.
- Wide range of products, with several versions of sleeve supply: without bushings, with bolted bushings having break-out heads, with compression bushings.

Technical characteristics

Material	heat-shrink polymer
Material properties	halogen-free, chemically and UV-resistant
Heat shrinkage temperature, °C	120
Range of operating temperatures, °C	–45...+50
Shrinkage ratio	3:1
Overall dimensions of package, mm	1000×200×150
Gross weight, kg	1.0–1.5

Products' range

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
Coupling sleeve without bushings: PStt-1 w/o bushing				
PStt 1×16/25 w/o bushing	1	16-25	1	UZM-XLS1-VN1-1625X
PStt 1×35/50 w/o bushing	1	35-50	1	UZM-XLS1-VN1-3550X
PStt 1×70/120 w/o bushing	1	70-120	1	UZM-XLS1-VN1-70120X
PStt 1×150/240 w/o bushing	1	150-240	1	UZM-XLS1-VN1-150240X
PStt 2×16/25 w/o bushing	2	16-25	1	UZM-XLS1-VN2-1625X
PStt 2×35/50 w/o bushing	2	35-50	1	UZM-XLS1-VN2-3550X
PStt 2×70/120 w/o bushing	2	70-120	1	UZM-XLS1-VN2-70120X
PStt 2×150/240 w/o bushing	2	150-240	1	UZM-XLS1-VN2-150240X
PStt 3×16/25 w/o bushing	3	16-25	1	UZM-XLS1-VN3-1625X
PStt 3×35/50 w/o bushing	3	35-50	1	UZM-XLS1-VN3-3550X
PStt 3×70/120 w/o bushing	3	70-120	1	UZM-XLS1-VN3-70120X
PStt 3×150/240 w/o bushing	3	150-240	1	UZM-XLS1-VN3-150240X
PStt 4×16/25 w/o bushing	4	16-25	1	UZM-XLS1-VN4-1625X
PStt 4×35/50 w/o bushing	4	35-50	1	UZM-XLS1-VN4-3550X
PStt 4×70/120 w/o bushing	4	70-120	1	UZM-XLS1-VN4-70120X
PStt 4×150/240 w/o bushing	4	150-240	1	UZM-XLS1-VN4-150240X
PStt 5×16/25 w/o bushing	5	16-25	1	UZM-XLS1-VN5-1625X
PStt 5×35/50 w/o bushing	5	35-50	1	UZM-XLS1-VN5-3550X
PStt 5×70/120 w/o bushing	5	70-120	1	UZM-XLS1-VN5-70120X
PStt 5×150/240 w/o bushing	5	150-240	1	UZM-XLS1-VN5-150240X
Coupling sleeve with bushings: PStt-1 w/ bushing				
PStt 1×16/25 w/bushing	1	16-25	1	UZM-XLS1-VN1-1625S
PStt 1×35/50 w/bushing	1	35-50	1	UZM-XLS1-VN1-3550S
PStt 1×70/120 w/bushing	1	70-120	1	UZM-XLS1-VN1-70120S
PStt 1×150/240 w/bushing	1	150-240	1	UZM-XLS1-VN1-150240S
PStt 2×16/25 w/bushing	2	16-25	1	UZM-XLS1-VN2-1625S
PStt 2×35/50 w/bushing	2	35-50	1	UZM-XLS1-VN2-3550S
PStt 2×70/120 w/bushing	2	70-120	1	UZM-XLS1-VN2-70120S
PStt 2×150/240 w/bushing	2	150-240	1	UZM-XLS1-VN2-150240S
PStt 3×16/25 w/bushing	3	16-25	1	UZM-XLS1-VN3-1625S
PStt 3×35/50 w/bushing	3	35-50	1	UZM-XLS1-VN3-3550S
PStt 3×70/120 w/bushing	3	70-120	1	UZM-XLS1-VN3-70120S
PStt 3×150/240 w/bushing	3	150-240	1	UZM-XLS1-VN3-150240S
PStt 4×16/25 w/bushing	4	16-25	1	UZM-XLS1-VN4-1625S
PStt 4×35/50 w/bushing	4	35-50	1	UZM-XLS1-VN4-3550S
PStt 4×70/120 w/bushing	4	70-120	1	UZM-XLS1-VN4-70120S
PStt 4×150/240 w/bushing	4	150-240	1	UZM-XLS1-VN4-150240S
PStt 5×16/25 w/bushing	5	16-25	1	UZM-XLS1-VN5-1625S
PStt 5×35/50 w/bushing	5	35-50	1	UZM-XLS1-VN5-3550S
PStt 5×70/120 w/bushing	5	70-120	1	UZM-XLS1-VN5-70120S
PStt 5×150/240 w/bushing	5	150-240	1	UZM-XLS1-VN5-150240S

PSttbe-1 coupling sleeve for cables with plastic insulation, cross-linked polyethylene insulation with armor or shield

PSttbe-1 heat-shrink sleeve is designed for connection of aluminum or copper conductors of cables with plastic, rubber and polyethylene insulation with armor or shield for voltage 1 kV: AVBbShv-1, VBbShv-1, AVVB-1, AVVBG-1, VVB-1, VVBG-1, APvBbShv-1, PvBbShv-1, VVGE, AVVGE, PvVGE, APvVGE, their equivalents and versions. The sleeves can be installed under ground (directly in the ground, in tunnels and channels) and outdoors (on trestles, cable trays, etc.).



Advantages

- The sleeves can be installed directly in the ground, tunnels and channels and also outdoors: on trestles, cable shelves, etc.
- The sleeve set includes a kit of soldered or not soldered grounding options. The soldered grounding kit contains constant force springs (CFS) made from high-quality stainless steel AISI 301 with high content of chromium and nickel, that ensure reliable and safe connection of PML grounding bus to cable armor bands.
- Perfectly leak-tight sleeve design due to:
 - use of high-quality two-layer heat-shrink materials with adhesive thermomelting coating on inner surfaces of external casing, tubes and multiple cable joints;

Technical characteristics

Material	heat-shrink polymer
Material properties	halogen-free, chemically and UV-resistant
Heat shrinkage temperature, °C	120
Range of operating temperatures, °C	–45...+50
Shrinkage ratio	3:1
Overall dimensions of package, mm	1000×200×150
Gross weight, kg	2.0–3.0

Ассортимент

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
Coupling sleeve without bushings, with soldered grounding assembly: PSttbe-1 w/o bushing soldered				
PSttbe 1×16/25 w/o bushing soldered	1	16-25	1	UZM-XLBS1-VN1-1625XP
PSttbe 1×35/50 w/o bushing soldered	1	35-50	1	UZM-XLBS1-VN1-3550XP
PSttbe 1×70/120 w/o bushing soldered	1	70-120	1	UZM-XLBS1-VN1-70120XP
PSttbe 1×150/240 w/o bushing soldered	1	150-240	1	UZM-XLBS1-VN1-150240XP
PSttbe 2×16/25 w/o bushing soldered	2	16-25	1	UZM-XLBS1-VN2-1625XP
PSttbe 2×35/50 w/o bushing soldered	2	35-50	1	UZM-XLBS1-VN2-3550XP
PSttbe 2×70/120 w/o bushing soldered	2	70-120	1	UZM-XLBS1-VN2-70120XP
PSttbe 2×150/240 w/o bushing soldered	2	150-240	1	UZM-XLBS1-VN2-150240XP
PSttbe 3×16/25 w/o bushing soldered	3	16-25	1	UZM-XLBS1-VN3-1625XP
PSttbe 3×35/50 w/o bushing soldered	3	35-50	1	UZM-XLBS1-VN3-3550XP
PSttbe 3×70/120 w/o bushing soldered	3	70-120	1	UZM-XLBS1-VN3-70120XP
PSttbe 3×150/240 w/o bushing soldered	3	150-240	1	UZM-XLBS1-VN3-150240XP
PSttbe 4×16/25 w/o bushing soldered	4	16-25	1	UZM-XLBS1-VN4-1625XP
PSttbe 4×35/50 w/o bushing soldered	4	35-50	1	UZM-XLBS1-VN4-3550XP
PSttbe 4×70/120 w/o bushing soldered	4	70-120	1	UZM-XLBS1-VN4-70120XP
PSttbe 4×150/240 w/o bushing soldered	4	150-240	1	UZM-XLBS1-VN4-150240XP
PSttbe 5×16/25 w/o bushing soldered	5	16-25	1	UZM-XLBS1-VN5-1625XP
PSttbe 5×35/50 w/o bushing soldered	5	35-50	1	UZM-XLBS1-VN5-3550XP
PSttbe 5×70/120 w/o bushing soldered	5	70-120	1	UZM-XLBS1-VN5-70120XP
PSttbe 5×150/240 w/o bushing soldered	5	150-240	1	UZM-XLBS1-VN5-150240XP
Coupling sleeve without bushings, with not soldered grounding assembly: PSttbe-1 w/o bushing CFS				
PSttbe 1×16/25 w/o bushing CFS	1	16-25	1	UZM-XLBS1-VN1-1625XZ
PSttbe 1×35/50 w/o bushing CFS	1	35-50	1	UZM-XLBS1-VN1-3550XZ
PSttbe 1×70/120 w/o bushing CFS	1	70-120	1	UZM-XLBS1-VN1-70120XZ
PSttbe 1×150/240 w/o bushing CFS	1	150-240	1	UZM-XLBS1-VN1-150240XZ
PSttbe 2×16/25 w/o bushing CFS	2	16-25	1	UZM-XLBS1-VN2-1625XZ
PSttbe 2×35/50 w/o bushing CFS	2	35-50	1	UZM-XLBS1-VN2-3550XZ
PSttbe 2×70/120 w/o bushing CFS	2	70-120	1	UZM-XLBS1-VN2-70120XZ
PSttbe 2×150/240 w/o bushing CFS	2	150-240	1	UZM-XLBS1-VN2-150240XZ
PSttbe 3×16/25 w/o bushing CFS	3	16-25	1	UZM-XLBS1-VN3-1625XZ
PSttbe 3×35/50 w/o bushing CFS	3	35-50	1	UZM-XLBS1-VN3-3550XZ
PSttbe 3×70/120 w/o bushing CFS	3	70-120	1	UZM-XLBS1-VN3-70120XZ
PSttbe 3×150/240 w/o bushing CFS	3	150-240	1	UZM-XLBS1-VN3-150240XZ
PSttbe 4×16/25 w/o bushing CFS	4	16-25	1	UZM-XLBS1-VN4-1625XZ
PSttbe 4×35/50 w/o bushing CFS	4	35-50	1	UZM-XLBS1-VN4-3550XZ
PSttbe 4×70/120 w/o bushing CFS	4	70-120	1	UZM-XLBS1-VN4-70120XZ
PSttbe 4×150/240 w/o bushing CFS	4	150-240	1	UZM-XLBS1-VN4-150240XZ
PSttbe 5×16/25 w/o bushing CFS	5	16-25	1	UZM-XLBS1-VN5-1625XZ
PSttbe 5×35/50 w/o bushing CFS	5	35-50	1	UZM-XLBS1-VN5-3550XZ
PSttbe 5×70/120 w/o bushing CFS	5	70-120	1	UZM-XLBS1-VN5-70120XZ
PSttbe 5×150/240 w/o bushing CFS	5	150-240	1	UZM-XLBS1-VN5-150240XZ

Description	Number of cores	Cable core cross-section, mm ²	Package qty., sets	Product ID
Coupling sleeve with bushings, with soldered grounding assembly: PSTtbe-1 w/ bushing soldered				
PSttbe 1×16/25 w/bushing soldered	1	16-25	1	UZM-XLBS1-VN1-1625SP
PSttbe 1×35/50 w/bushing soldered	1	35-50	1	UZM-XLBS1-VN1-3550SP
PSttbe 1×70/120 w/bushing soldered	1	70-120	1	UZM-XLBS1-VN1-70120SP
PSttbe 1×150/240 w/bushing soldered	1	150-240	1	UZM-XLBS1-VN1-150240SP
PSttbe 2×16/25 w/bushing soldered	2	16-25	1	UZM-XLBS1-VN2-1625SP
PSttbe 2×35/50 w/bushing soldered	2	35-50	1	UZM-XLBS1-VN2-3550SP
PSttbe 2×70/120 w/bushing soldered	2	70-120	1	UZM-XLBS1-VN2-70120SP
PSttbe 2×150/240 w/bushing soldered	2	150-240	1	UZM-XLBS1-VN2-150240SP
PSttbe 3×16/25 w/bushing soldered	3	16-25	1	UZM-XLBS1-VN3-1625SP
PSttbe 3×35/50 w/bushing soldered	3	35-50	1	UZM-XLBS1-VN3-3550SP
PSttbe 3×70/120 w/bushing soldered	3	70-120	1	UZM-XLBS1-VN3-70120SP
PSttbe 3×150/240 w/bushing soldered	3	150-240	1	UZM-XLBS1-VN3-150240SP
PSttbe 4×16/25 w/bushing soldered	4	16-25	1	UZM-XLBS1-VN4-1625SP
PSttbe 4×35/50 w/bushing soldered	4	35-50	1	UZM-XLBS1-VN4-3550SP
PSttbe 4×70/120 w/bushing soldered	4	70-120	1	UZM-XLBS1-VN4-70120SP
PSttbe 4×150/240 w/bushing soldered	4	150-240	1	UZM-XLBS1-VN4-150240SP
PSttbe 5×16/25 w/bushing soldered	5	16-25	1	UZM-XLBS1-VN5-1625SP
PSttbe 5×35/50 w/bushing soldered	5	35-50	1	UZM-XLBS1-VN5-3550SP
PSttbe 5×70/120 w/bushing soldered	5	70-120	1	UZM-XLBS1-VN5-70120SP
PSttbe 5×150/240 w/bushing soldered	5	150-240	1	UZM-XLBS1-VN5-150240SP
Coupling sleeve with bushings, with not soldered grounding assembly: PSTtbe-1 w/ bushing CFS				
PSttbe 1×16/25 w/bushing CFS	1	16-25	1	UZM-XLBS1-VN1-1625SZ
PSttbe 1×35/50 w/bushing CFS	1	35-50	1	UZM-XLBS1-VN1-3550SZ
PSttbe 1×70/120 w/bushing CFS	1	70-120	1	UZM-XLBS1-VN1-70120SZ
PSttbe 1×150/240 w/bushing CFS	1	150-240	1	UZM-XLBS1-VN1-150240SZ
PSttbe 2×16/25 w/bushing CFS	2	16-25	1	UZM-XLBS1-VN2-1625SZ
PSttbe 2×35/50 w/bushing CFS	2	35-50	1	UZM-XLBS1-VN2-3550SZ
PSttbe 2×70/120 w/bushing CFS	2	70-120	1	UZM-XLBS1-VN2-70120SZ
PSttbe 2×150/240 w/bushing CFS	2	150-240	1	UZM-XLBS1-VN2-150240SZ
PSttbe 3×16/25 w/bushing CFS	3	16-25	1	UZM-XLBS1-VN3-1625SZ
PSttbe 3×35/50 w/bushing CFS	3	35-50	1	UZM-XLBS1-VN3-3550SZ
PSttbe 3×70/120 w/bushing CFS	3	70-120	1	UZM-XLBS1-VN3-70120SZ
PSttbe 3×150/240 w/bushing CFS	3	150-240	1	UZM-XLBS1-VN3-150240SZ
PSttbe 4×16/25 w/bushing CFS	4	16-25	1	UZM-XLBS1-VN4-1625SZ
PSttbe 4×35/50 w/bushing CFS	4	35-50	1	UZM-XLBS1-VN4-3550SZ
PSttbe 4×70/120 w/bushing CFS	4	70-120	1	UZM-XLBS1-VN4-70120SZ
PSttbe 4×150/240 w/bushing CFS	4	150-240	1	UZM-XLBS1-VN4-150240SZ
PSttbe 5×16/25 w/bushing CFS	5	16-25	1	UZM-XLBS1-VN5-1625SZ
PSttbe 5×35/50 w/bushing CFS	5	35-50	1	UZM-XLBS1-VN5-3550SZ
PSttbe 5×70/120 w/bushing CFS	5	70-120	1	UZM-XLBS1-VN5-70120SZ
PSttbe 5×150/240 w/bushing CFS	5	150-240	1	UZM-XLBS1-VN5-150240SZ