



10 Electrical-installation devices, tools and power connectors

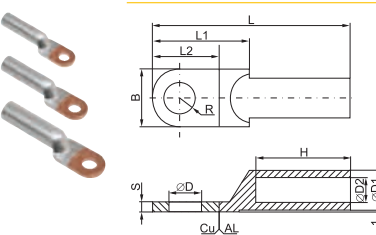
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Electrical-installation devices

Power terminals, sleeves and clamps

Copper-aluminum terminals

Designed to connect aluminum conductors to the copper busbars, wires and cables with a view to prevent a galvanic effect resulting from direct contact between copper and aluminum during installation works and connection of power loads.

Overall dimensions	Name	Dimensions, mm											Package amount	Product ID
		B	D	D1	D2	H	L	L1	L2	R	S			
	DTL-10	12,5	6,5	9	4,5	22	61	27	20	6,25	2,5	200	UNP31-010-05-07	
	DTL-16	15	8,5	10	5,5	21	70	28	16	7,5	2,6	180	UNP31-016-06-08	
	DTL-25	18	8,5	12	7	26	75	33	20	9	3	120	UNP31-025-07-08	
	DTL-35	19	10,5	14	8	30	85	38	25	9,5	3,5	100	UNP31-035-08-10	
	DTL-50	22	10,5	16	9,5	32	90	42	25	11	4	60	UNP31-050-08-10	
	DTL-70	25	12,5	18	11,5	34	100	45	28	12,5	4,7	40	UNP31-070-11-12	
	DTL-95	28	12,5	20	13,5	37	110	50	28	14	4,7	30	UNP31-095-14-13	
	DTL-120	30	14,5	22	15	35	120	52	32	15	5,3	20	UNP31-120-15-14	
	DTL-150	34	14,5	24	16,5	42	125	57	38	17	6	20	UNP31-150-17-15	
	DTL-185	38	17	27	18,5	46	133	63	35	19	6,7	15	UNP31-185-19-17	
	DTL-240	40	17	30	21	50	140	65	35	20	7,2	15	UNP31-240-21-17	
	DTL-300	44	19	34	23	55	160	75	45	22	7	12	UNP31-300-24-19	

Aluminum terminals

Designed for termination of aluminum wires and cable conductors using a compression method.

Overall dimensions	Name	Dimensions, mm										Package amount	Product ID
		L	L1	ØC	Ød	ØD	A	E	H	R			
	DL-10	59	20	8,5	5,8	8	2	13	28	6,5	20	UNP10-010-05-08	
	DL-16	64	23	8,5	6,5	10	2.3	15	29	7,5	20	UNP10-016-06-08	
	DL-25	70	25	8,5	7	11	2.5	16	33	8	20	UNP10-025-07-08	
	DL-35	75	25	8,5	8,5	12	2.8	18	35	9	20	UNP10-035-08-10	
	DL-50	84	30	10,5	10	14	3	20	39	10	10	UNP10-050-09-10	
	DL-70	89	30	12,5	12	16	3.3	24	44	12	10	UNP10-070-11-12	
	DL-95	93.8	36	12,5	14	18	3.5	26	45	13	10	UNP10-095-14-12	
	DL-120	105	37	14,5	15,5	20	4	28	48	14	10	UNP10-120-15-14	
	DL-150	113	39	14,5	16,5	22	4.2	30	52	15	10	UNP10-150-16-14	
	DL-185	118	40	16,5	19,5	24	4,4	34	54	17	10	UNP10-185-18-16	
	DL-240	126	45	16,5	22	28	4,8	36	56	18	10	UNP10-240-21-16	
	DL-300	150	54	20	23	30	7	40	65	20	5	UNP10-300-24-21	
	DL-400	175	63	21	26	38	9	50	70	25	5	UNP10-400-26-21	

Copper terminals

Designed for termination of copper wires and cable conductors using a compression method.

Overall dimensions	Name	Dimensions, mm										Package amount	Product ID
		B	D	D1	D2	H	L	L1	R	S			
	DT-10	13,5	6,5	8	4,7	28	60	26	7	2,3	240	UNP22-010-05-08	
	DT-16	16	8,5	9	5,5	30	67	28	8	2,5	200	UNP22-016-06-08	
	DT-25	17,6	8,5	11	7	34	70	30,5	8,8	2,5	200	UNP22-025-07-08	
	DT-35	20	10,5	12	8	36	78	33,5	10	3	140	UNP22-035-08-10	
	DT-50	23	10,5	12	9,5	41	86,5	37	11,5	3,5	80	UNP22-050-09-10	
	DT-70	26	12,5	16	11,5	44	96	42,5	13	4	72	UNP22-070-11-12	
	DT-95	28	12,5	18	13,5	48,5	105	48	14	4	56	UNP22-095-13-12	
	DT-120	31	14,5	20	15	52	112	50	15,5	5	35	UNP22-120-15-14	
	DT-150	35	14,5	22	16,5	53	116	55	17,5	5,5	30	UNP22-150-16-14	
	DT-185	37	17	24	18,5	57	126	58	18,5	5,5	30	UNP22-185-18-16	
	DT-240	40	17	27	21	60	135	64	20	5,5	20	UNP22-240-21-16	
	DT-300	44	19	31	23	62,5	150	71	22	7	12	UNP22-300-23-18	

Tinned copper terminals

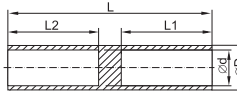
Designed for termination of multicore copper wires and cable conductors using compression and soldering methods.

Material: electrical grade tinned copper.

Overall dimensions	Name	Dimensions, mm									Package amount	Product ID
		B	D	D1	D2	H	L	L1	L3			
	JG-6	8,6	4,4	6	6,2	1,5	32	12	6,8	600	UNP40-006-04-04	
	JG-10	11,3	6	8	6,2	1,9	38,5	17	7,8	400	UNP40-010-06-06	
	JG-16	13	6,8	9	8,2	2,1	42	17	7,6	200	UNP40-016-06-08	
	JG-25	14,4	7,8	10	8,2	2,1	46	19	9	200	UNP40-025-07-08	
	JG-35	16,4	8,8	11	8,2	2,1	52	20	10,5	100	UNP40-035-08-08	
	JG-50	19,3	10,8	13	10,2	2,1	54,5	22	11,5	100	UNP40-050-10-10	
	JG-70	21,8	12,6	15	12,4	2,3	61	25	12,5	50	UNP40-070-11-12	
	JG-95	26,5	15,2	18	12,4	2,7	65,5	29	13,2	50	UNP40-095-13-12	
	JG-120	27,8	16	19	14,5	2,9	72	31	16	30	UNP40-120-15-14	
	JG-150	30,6	17	21	14,5	3,8	80	35	17,5	25	UNP40-150-17-14	
	JG-185	35,2	19,4	24	16,5	4,4	85	37	16,8	20	UNP40-185-18-16	
	JG-240	38	21,4	26	16,5	4,4	95	39	19,2	20	UNP40-240-20-16	
	JG-300	43,4	24,4	30	16,5	5,5	95	43	22	10	UNP40-300-24-16	
	JG-400	47	27	33	17	5,9	115	50	24	10	UNP40-400-26-16	

Aluminum connecting sleeve ends

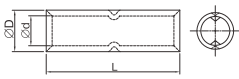
Предназначены для соединения алюминиевых проводников путем опрессовки. Материал – электротехнический алюминий.

	Overall dimensions	Name	Dimensions, mm					Package amount	Product ID
			L	L1	L2	∅D	∅d		
		GL-10	67,3	32	32	10	6	20	UGL10-010-05
		GL-16	67,3	32	32	11	6,8	20	UGL10-016-06
		GL-25	71	33	33	12	7,5	20	UGL10-025-07
		GL-35	80	36	36	14	9	20	UGL10-035-08
		GL-50	90	40	40	16	11	10	UGL10-050-10
		GL-70	102	48	48	18	12	10	UGL10-070-11
		GL-95	105	49	49	21	14	10	UGL10-095-13
		GL-120	112	52	52	23	16	10	UGL10-120-15
		GL-150	118	56	56	25	17	10	UGL10-150-17
		GL-185	120	57	57	27	19	10	UGL10-185-19
		GL-240	128	59	59	30	21	10	UGL10-240-21
		GL-300	130	60	60	32,5	25	5	UGL10-300-24
		GL-400	154	72	72	38,5	27	5	UGL10-400-26

Tinned copper connection sleeves

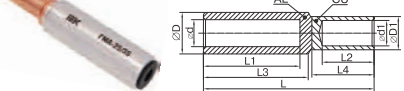
Designed to connect copper and aluminum conductors. They can be used for connections of types copper/copper, copper/aluminum, aluminum/aluminum. The conductors from both sides shall be of same size.

The GML sleeves have a limit stop in the center to make fixing easier, which allows avoiding the non-uniform compression of the conductors to be joined. Cross-section of conductors can be easily identified without need to use technical documentation, since it is designated by figure in the sleeve name. For example, GML-10 sleeve is designed for use with conductors of cross-section 10 mm².

Overall dimensions			Dimensions, mm			Package amount	Product ID
			L	ØD	Ød		
 	GML-1,5		20	3,1	1,9	1000	UGTY10-001-01
	GML-2,5		20	4	2,8	1000	UGTY10-002-02
	GML-4		20	4,5	3,2	1000	UGTY10-004-03
	GML-6		25	5,1	3,7	500	UGTY10-006-04
	GML-10		30	6,1	4,5	1000	UGTY10-010-05
	GML-16		35	7,3	5,7	600	UGTY10-016-06
	GML-25		40	9	7,2	400	UGTY10-025-07
	GML-35		45	10,8	8,5	200	UGTY10-035-08
	GML-50		50	12,5	9,8	200	UGTY10-050-10
	GML-70		55	14,5	11,5	100	UGTY10-070-12
	GML-95		60	17	13,7	80	UGTY10-095-14
	GML-120		65	19	15	60	UGTY10-120-16
	GML-150		70	21	16,7	50	UGTY10-150-18
	GML-185		75	23,5	19,2	40	UGTY10-185-20
	GML-240		80	26	21	30	UGTY10-240-22
	GML-300		85	30	24	20	UGTY10-300-24
	GML-400		90	34	27	16	UGTY10-400-27

Copper/aluminum connection sleeves

GMA copper/aluminum sleeves are designed for connection of copper and aluminum conductors. Since copper has higher conductivity than aluminum, the conductors of two different geometrical sizes should be joined together. The GMA sleeves enable fulfillment of this specific task. Size of the copper and aluminum conductors to be joined is identified by sleeve marking. First figure in the sleeve designation indicates to cross-section of the copper conductor, the figure following the division sign – to cross-section of the aluminum conductor. For example, GMA-16/25 sleeve can be used for connection of 16 mm² copper and 25 mm² aluminum conductors. The GMA sleeves are fitted with a cap on Al side that protects the sleeve inner part from formation of oxide film, which affects the conductivity of sleeve and cable joining area.

	Overall dimensions	Name	Dimensions, mm										Package amount	Product ID
			D	d	D1	d1	L	L1	L2	L3	L4			
		GMA-16/25	16	6,5	8,6	5,5	72,5	43,1	20,5	46,7	24	72	UGTL10-016-06	
		GMA-25/35	16	8,5	10	7	72,6	43,6	20,5	47,5	24	72	UGTL10-025-07	
		GMA-35/50	20,1	9,3	12,5	8,4	76	43,2	20,7	49,7	24,7	56	UGTL10-035-08	
		GMA-50/70	19,9	10,9	14,6	10,1	82	43,1	26	49,1	30	56	UGTL10-050-10	
		GMA-70/95	20	12,6	16,5	11,7	83,6	43,3	27	48,5	31,9	56	UGTL10-070-12	
		GMA-95/120	24,9	13,8	19	13,5	108	59,5	35,5	64,6	40	18	UGTL10-095-14	
		GMA-120/150	25	15,5	21	15,4	108	59	35,4	65,3	40,5	18	UGTL10-120-16	
		GMA-150/185	32	17	23,6	17	112,3	59,1	40,7	64,6	45	15	UGTL10-150-18	
		GMA-185/240	31,9	19,5	25,5	18,9	115,2	58,3	43,2	65	48	15	UGTL10-185-20	

Branching clamps

The clamps are designed to make branches from trunk cables and wires for voltages up to 750 V. Degree of protection IP20. A jaw-type clamp tightened by bolts is located inside, having zinc coating of thickness exceeding 20 µm. This coating not only protects the conductor from premature oxidation but also increases electrical conductivity. In addition, it should be noted that jaw-type clamps are featured by high materials consumption, which facilitates the higher conductivity and lower losses of electrical energy due to clamp heating.

	Type	Cross-section of trunk conductors, mm ²	Cross-section of branch conductors, mm ²	Package qty, pcs.	Product ID
	U731M	4-10	1,5-10	60	UKZ-ZO-731M
	U733M	16-35	1,5-10	60	UKZ-ZO-733M
	U734M	16-35	16-25	60	UKZ-ZO-734M
	U739M	4-10	1,5-2,5	60	UKZ-ZO-739M
	U859M	50-70	4-35	30	UKZ-ZO-859M
	U870M	95-150	16-50	8	UKZ-ZO-870M
	U871M	95-150	50-95	8	UKZ-ZO-871M
	U872M	95-150	95-120	8	UKZ-ZO-872M

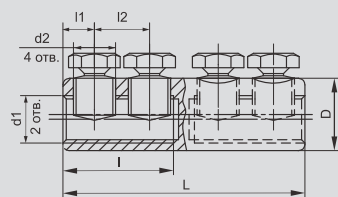
Bolted terminals and connectors (sleeves)

The bolted terminals and sleeves, like compression terminals and sleeves, are designed for termination of conductors. However they can be fixed without use of expensive equipment. A torque wrench is sufficient. Moreover, their unquestionable advantage is a capability to be used for termination and connection of both copper and aluminum conductors. All products have conductivity according to GOST 17441-84.

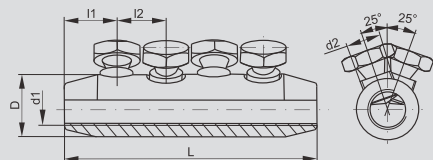
Made in Russia

	Name	Cross-section area, mm ²	Cable type			Ui, kV	Product ID
			Oil-impregnated paper insulation	Plastic or PVC insulation	Cross-linked polyethylene		
	GD 16-25	16-25	+	+	+	35	UGD-25-16-25-35KV-S
	GD 35-50	35-50	+	+	+	35	UGD-50-25-50-35KV-S
	GD 70-120	70-120	+	+	+	35	UGD-120-70-120-35KV-S
	GD 150-240	150-240	+	+	+	35	UGD-240-150-240-35KV-S
	GSP 16-25	16-25	—	+	+	35	UGSP-25-16-25-35KV-S
	GSP 35-50	35-50	—	+	+	35	UGSP-50-25-50-35KV-S
	GSP 70-120	70-120	—	+	+	35	UGSP-120-70-120-35KV-S
	GSP 150-240	150-240	—	+	+	35	UGSP-240-150-240-35KV-S
	CB 16-25	16-25	+	+	+	1	UCB-0-16-25-1KV-S
	CB 35-50	35-50	+	+	+	1	UCB-1-25-50-1KV-S
	CB 70-120	70-120	+	+	+	1	UCB-2-70-120-1KV-S
	CB 150-240	150-240	+	+	+	1	UCB-3-150-240-1KV-S
	NK 16-25	16-25	+	+	+	35	UNK-25-16-25-35KV-S
	NK 35-50	35-50	+	+	+	35	UNK-50-25-50-35KV-S
	NK 70-120	70-120	+	+	+	35	UNK-120-70-120-35KV-S
	NK 150-240	150-240	+	+	+	35	UNK-240-150-240-35KV-S
	NB 16-25	16-25	+	+	+	1	UNB-0-16-25-1KV-S
	NB 35-50	35-50	+	+	+	1	UNB-1-25-50-1KV-S
	NB 70-120	70-120	+	+	+	1	UNB-2-70-120-1KV-S
	NB 150-240	150-240	+	+	+	1	UNB-3-150-240-1KV-S
	NA 16-25	16-25	+	+	+	10	UNA-25-16-25-10KV-S
	NA 35-50	35-50	+	+	+	10	UNA-50-25-50-10KV-S
	NA 70-120	70-120	+	+	+	10	UNA-120-70-120-10KV-S
	NA 150-240	150-240	+	+	+	10	UNA-240-150-240-10KV-S
	NP 16-25	16-25	+	+	+	35	UNP-25-16-25-35KV-S
	NP 35-50	35-50	+	+	+	35	UNP-50-25-50-35KV-S
	NP 70-120	70-120	+	+	+	35	UNP-120-70-120-35KV-S
	NP 150-240	150-240	+	+	+	35	UNP-240-150-240-35KV-S

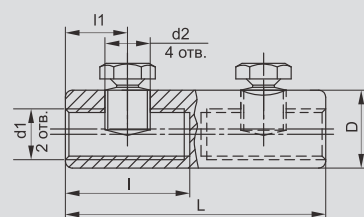
Overall dimensions



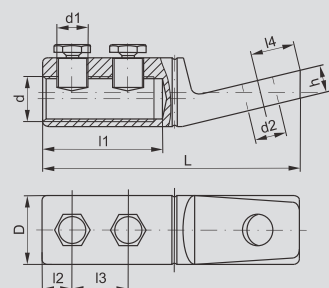
Name	Dimensions, mm						
	L	D	l	d1	d2	l1	l2
GD 35-50	69	19,0	31	M12×1	M10×1,5	7,5	16,5
GD 70-120	90	26,5	42	M18×1	M16×1,5	11,0	22,0
GD 150-240	110	37,0	51	M26×1	M20×1,5	14,0	25,0



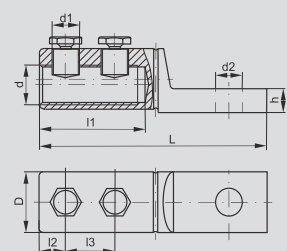
Name	Dimensions, mm						
	L	D	l1	l2	d1	d2	
GSP 35-50	77	19	16	15	M12×1	M10×1,5	
GSP 70-120	100	27	19	18	M18×1	M16×1,5	
GSP 150-240	115	37	23	21	M24×1,5	M20×1,5	



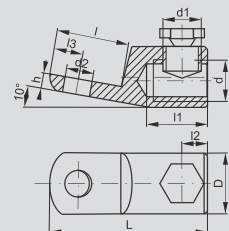
Name	Dimensions, mm						
	L	D	l	d1	d2	l1	
SB 16-25	50	16	23	M10×1	M10×1	8,0	
SB 35-50	60	20	27	M12×1,25	M12×1,25	10,5	
SB 70-120	70	28	28	M18×1,5	M16×1,5	13,0	
SB 150-240	80	35	33	M24×1,5	M22×1,5	15,0	



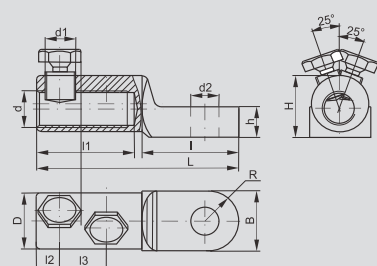
Name	Dimensions, mm									
	L	l1	l2	l3	l4	D	d	d1	d2	h
NK 35-50	77	38,0	8	20	11	19,0	M12×1	M10	10,5	8,4
NK 70-120	89	43,5	11	22	12	26,5	M18×1	M16×1,5	13,0	12,0
NK 150-240	102	49,0	14	23	19	37,0	M26×1	M20×1,5	13,0	14,2



Name	Dimensions, mm									
	L	l	l1	l2	l3	D	d	d1	d2	h
NP 35-50	85	39	38	8,0	20	21	M12×1	M10	10,5	8,3
NP 70-120	101	40	44	12,5	21	28	M18×1	M16×1,5	13,0	14,2
NP 150-240	111	41	52	14,0	25	35	M25×1	M20×1,5	13,0	15,0



Name	Dimensions, mm									
	L	l	l1	l2	l3	D	d	d1	d2	h
NB 16-25	42	18	23	10	6	16	M10×1	M10×1	6	4
NB 35-50	62	32	28	11	11	20	M12×1,25	M12×1,25	10	7
NB 70-120	78	37	30	13	14	28	M18×1,5	M16×1,5	14	7
NB 150-240	90	41	35	16	16	35	M24×1,5	M22×1,5	16	9



Name	Dimensions, mm											
	L	l	l1	l2	l3	D	d	d1	d2	H	h	B
NA 35-50	82	39	38	8	20	21	M12×1	M10	13	21,5	8,3	22
NA 70-120	100	40	44	12,5	21	28	M18×1	M16×1,5	17	28,2	14,2	28
NA 150-240	110	41	52	14	25	35	M25×1	M20×1,5	17	35,5	15,0	35,4

Terminals, couplers, connectors

Range

NK copper terminals

These terminals are intended for terminating copper wires and are used when mounting electrical distribution units providing for corresponding tie-down on the basis of screw fixation. Devices can be used in vibration environment, as weakening of screw fixation does not lead to losing electrical connection.

Correspond to EN 60998-1, EN 60998-2-2

Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm			Product ID
			B	D	L	
	NK0,5-2,5 ring 3,0 mm	0,5÷2,5	6,5	3,2	13	UEN30-D30-05-25
	NK0,5-0,8 ring 3,1 mm	0,5÷0,8	6,5	3,5	16	UEN30-D31-05-08
	NK0,5-0,8 ring 4,4 mm	0,5÷0,8	8,0	4,5	17	UEN30-D44-05-08
	NK0,5-0,8 ring 5,1 mm	0,5÷0,8	10	5,2	22	UEN30-D51-05-08
	NK0,5-2,5 ring 5,1 mm	2,0÷2,5	9	5,2	20	UEN30-D51-20-25
	NK0,5-0,8 ring 6,1 mm	0,5÷0,8	12	6,2	22,5	UEN30-D61-05-08
	NK1,0-1,5 ring 8,1 mm	1,0÷1,5	15	8,2	24,5	UEN30-D81-10-15
	NK1,0-1,5 ring 10,4 mm	1,0÷1,5	18	10,5	28	UEN30-D104-10-15

Ring tinned copper terminals

NKI pre-insulated ring terminals are intended for terminating copper wires and used when mounting electrical distribution units providing for corresponding tie-down on the basis of screw fixation.

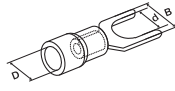
Correspond to EN 60998-1, EN 60998-2-2.

Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm			Insulation color	Product ID
			d	D	B		
	NKI 1,25-3	0,5÷1,5	3,2	4,3	5,7		UNL20-D15-4-3
	NKI 1,25-3*	0,5÷1,5	3,2	4,3	5,7		UNL20-4-D15-4-3
	NKI 1,25-4	0,5÷1,5	4,3	4,3	6,6		UNL20-D15-4-4
	NKI 1,25-4*	0,5÷1,5	4,3	4,3	6,6		UNL20-4-D15-4-4
	NKI 1,25-5	0,5÷1,5	5,3	4,3	8,0		UNL20-D15-4-5
	NKI 1,25-5*	0,5÷1,5	5,3	4,3	8,0		UNL20-4-D15-4-5
	NKI 1,25-6	0,5÷1,5	6,5	4,3	11,6		UNL20-D15-4-6
	NKI 1,25-6*	0,5÷1,5	6,5	4,3	11,6		UNL20-4-D15-4-6
	NKI 2-3	1,5÷2,5	3,2	4,9	6,6	●	UNL20-D25-4-3
	NKI 2-3*	1,5÷2,5	3,2	4,9	6,6	●	UNL20-4-D25-4-3
	NKI 2-4	1,5÷2,5	4,3	4,9	6,6	●	UNL20-D25-4-4
	NKI 2-4*	1,5÷2,5	4,3	4,9	6,6	●	UNL20-4-D25-4-4
	NKI 2-5	1,5÷2,5	5,3	4,9	8,5	●	UNL20-D25-4-5
	NKI 2-5*	1,5÷2,5	5,3	4,9	8,5	●	UNL20-4-D25-4-5
	NKI 2-6	1,5÷2,5	6,5	4,9	12,0	●	UNL20-D25-4-6
	NKI 2-6*	1,5÷2,5	6,5	4,9	12,0	●	UNL20-4-D25-4-6
	NKI 5,5-4	4,0÷6,0	4,3	6,7	7,2	●	UNL20-006-6-4
	NKI 5,5-4*	4,0÷6,0	4,3	6,7	7,2	●	UNL20-4-006-6-4
	NKI 5,5-5	4,0÷6,0	5,3	6,7	9,5	●	UNL20-006-6-5
	NKI 5,5-5*	4,0÷6,0	5,3	6,7	9,5	●	UNL20-4-006-6-5
	NKI 5,5-6	4,0÷6,0	6,5	6,7	12,0	●	UNL20-006-6-6
	NKI 5,5-6*	4,0÷6,0	6,5	6,7	12,0	●	UNL20-4-006-6-6
	NKI 5,5-8	4,0÷6,0	8,4	6,7	15,0	●	UNL20-006-6-8
	NKI 5,5-8*	4,0÷6,0	8,4	6,7	15,0	●	UNL20-4-006-6-8

* Supplied in blister packaging (20 pcs. each)

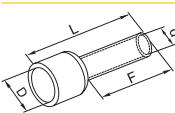
Tinned copper pin terminals

Using NVI pin terminals is preferred when it is necessary to introduce operative changes in electrical connections as in this case there is no need for a total dismantling of tie-down. Weakening the screw fixation is enough. Correspond to EN 60998-1, EN 60998-2-2.

Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm			Insulation color	Product ID
			d	D	B		
 	NVI 1,25-3	0,5 ÷ 1,5	3,2	4,3	5,7		UNL10-D15-4-3
	NVI 1,25-3*	0,5 ÷ 1,5	3,2	4,3	5,7		UNL10-4-D15-4-3
	NVI 1,25-4	0,5 ÷ 1,5	4,3	4,3	6,4		UNL10-D15-4-4
	NVI 1,25-4*	0,5 ÷ 1,5	4,3	4,3	6,4		UNL10-4-D15-4-4
	NVI 1,25-5	0,5 ÷ 1,5	5,3	4,3	8,1		UNL10-D15-4-5
	NVI 1,25-5*	0,5 ÷ 1,5	5,3	4,3	8,1		UNL10-4-D15-4-5
	NVI 2-4	1,5 ÷ 2,5	4,3	4,9	6,4	●	UNL10-D25-4-4
	NVI 2-4*	1,5 ÷ 2,5	4,3	4,9	6,4	●	UNL10-4-D25-4-4
	NVI 2-5	1,5 ÷ 2,5	5,3	4,9	8,1	●	UNL10-D25-4-5
	NVI 2-5*	1,5 ÷ 2,5	5,3	4,9	8,1	●	UNL10-4-D25-4-5
	NVI 2-6	1,5 ÷ 2,5	6,5	4,9	9,5	●	UNL10-D25-4-6
	NVI 2-6*	1,5 ÷ 2,5	6,5	4,9	9,5	●	UNL10-4-D25-4-6
	NVI 5,5-4	4,0 ÷ 6,0	4,3	6,7	8,3	●	UNL10-006-6-4
	NVI 5,5-4*	4,0 ÷ 6,0	4,3	6,7	8,3	●	UNL10-4-006-6-4
	NVI 5,5-5	4,0 ÷ 6,0	5,3	6,7	9,0	●	UNL10-006-6-5
	NVI 5,5-5*	4,0 ÷ 6,0	5,3	6,7	9,0	●	UNL10-4-006-6-5
	NVI 5,5-6	4,0 ÷ 6,0	6,5	6,7	12,0	●	UNL10-006-6-6
	NVI 5,5-6*	4,0 ÷ 6,0	6,5	6,7	12,0	●	UNL10-4-006-6-6

E tinned copper end sleeves

They are intended for termination of wires and connecting them to terminal clamps of different electrical equipment (terminal blocks, MCBs, sockets etc.). This type of end sleeves is designed for terminating multi-core flexible wires. Stripped end of multi-core flexible wire is led through the hollow terminal tube and then crimped together with the tube with the help of a special tool forming a unified construction securely fixating a batch of multi-core wires. Correspond to EN 60998-1, EN 60998-2-2.

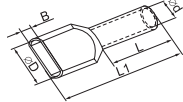
Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm				Insulation color	Product ID
			L	F	d	D		
 	E 0,5-08-(0508)	0,5	13,8	7,8	1,0	2,6	orange	UGN10-D05-02-08
	E 0,5-08-(0508)*	0,5	13,8	7,8	1,0	2,6	orange	UGN10-4-D05-02-08
	E 0,75-08-(7508)	0,8	14,4	8,0	1,2	2,6	white	UGN10-C75-02-08
	E 0,75-08-(7508)*	0,8	14,4	8,0	1,2	2,6	white	UGN10-4-C75-02-08
	E 1,0-08-(1008)	1,0	14,6	8,0	1,5	3,0	yellow	UGN10-001-D14-08
	E 1,0-08-(1008)*	1,0	14,6	8,0	1,5	3,0	yellow	UGN10-4-001-D14-08
	E 1,0-12-(1012)	1,0	16,6	10,0	1,5	3,0	dark red	UGN10-001-03-12
	E 1,0-12-(1012)*	1,0	16,6	10,0	1,5	3,0	dark red	UGN10-4-001-03-12
	E 1,5-08-(1508)	1,5	15,5	8,2	1,7	3,3	red	UGN10-D15-03-08
	E 1,5-08-(1508)*	1,5	15,5	8,2	1,7	3,3	red	UGN10-4-D15-03-08
	E 2,5-08-(2508)	2,5	15,6	8,2	2,3	3,8	blue	UGN10-D25-04-08
	E 2,5-08-(2508)*	2,5	15,6	8,2	2,3	3,8	blue	UGN10-4-D25-04-08
	E 4,0-09-(4009)	4,0	16,2	9,0	2,8	4,7	grey	UGN10-004-04-09
	E 4,0-09-(4009)*	4,0	16,2	9,0	2,8	4,7	grey	UGN10-4-004-04-09
	E 6,0-12-(6012)	6,0	20,5	12,0	3,5	6,2	black	UGN10-006-06-12
	E 6,0-12-(6012)*	6,0	20,5	12,0	3,5	6,2	black	UGN10-4-006-06-12
	E 6,0-18-(6018)	6,0	26,5	18,0	3,5	6,2	light green	UGN10-006-06-18
	E 6,0-18-(6018)*	6,0	26,5	18,0	3,5	6,2	light green	UGN10-4-006-06-18
	E 10-12	10,0	21,0	12,0	4,5	7,5	ivory	UGN10-010-07-12
	E 10-12*	10,0	21,0	12,0	4,5	7,5	ivory	UGN10-4-010-07-12
	E 16-12	16,0	22,4	12,0	5,8	8,8	green	UGN10-016-08-12
	E 16-12*	16,0	22,4	12,0	5,8	8,8	green	UGN10-4-016-08-12
	E 25-16	25,0	28,3	16,0	7,5	10,9	brown-green	UGN10-025-11-16
	E 35-16	35,0	29,5	16,0	8,3	12,3	grey-brown	UGN10-035-16-16
	E 50-20	50,0	36,2	20,0	10,4	14,7	olive	UGN10-050-15-20

* Supplied in blister packaging (20 pcs. each)

Tinned copper NGI2 end sleeves with insulated flange for two wires

They perform the same functions as tinned copper end sleeves (E-end sleeves) but give possibility of termination two wires instead of one.

Correspond to EN 60998-1, EN 60998-2-2.

Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm				Insulation color	Product ID
			L	L1	d	D×B		
 	GI2 0,5-8	2×0,5	8	15,1	1,8	4,8×2,6	orange	UTE10-D1-8-100
	NGI2 0,5-8*	2×0,5	8	15,1	1,8	4,8×2,6	orange	UTE10-4-D1-8-100
	NGI2 0,75-8	2×0,75	8	15,7	2,1	5,2×3,4	dark red	UTE10-D75-100
	NGI2 0,75-8*	2×0,75	8	15,7	2,1	5,2×3,4	dark red	UTE10-4-D75-100
	NGI2 0,75-10	2×0,75	10	17,5	2,1	5,2×3,4	white	UTE10-D2-1-100
	NGI2 0,75-10*	2×0,75	10	17,5	2,1	5,2×3,4	white	UTE10-4-D2-1-100
	NGI2 1,0-8	2×1,0	8	15,5	2,3	5,2×4,0	light green	UTE10-D2-2-100
	NGI2 1,0-8*	2×1,0	8	15,5	2,3	5,2×4,0	light green	UTE10-4-D2-2-100
	NGI2 1,0-10	2×1,0	10	17,2	2,3	5,2×4,0	yellow	UTE10-D2-3-100
	NGI2 1,0-10*	2×1,0	10	17,2	2,3	5,2×4,0	yellow	UTE10-4-D2-3-100
	NGI2 1,5-8	2×1,5	8	16,4	2,6	6,4×4,0	brown	UTE10-D2-4-100
	NGI2 1,5-8*	2×1,5	8	16,4	2,6	6,4×4,0	brown	UTE10-4-D2-4-100
	NGI2 1,5-12	2×1,5	12	19,6	2,6	6,4×4,0	red	UTE10-D2-6-100
	NGI2 1,5-12*	2×1,5	12	19,6	2,6	6,4×4,0	red	UTE10-4-D2-6-100
	NGI2 2,5-10	2×2,5	10	19,8	3,3	8,2×4,6	purple	UTE10-D3-2-100
	NGI2 2,5-10*	2×2,5	10	19,8	3,3	8,2×4,6	purple	UTE10-4-D3-2-100
	NGI2 2,5-12	2×2,5	12	21,7	3,3	8,2×4,6	blue	UTE10-D3-3-100
	NGI2 2,5-12*	2×2,5	12	21,7	3,3	8,2×4,6	blue	UTE10-4-D3-3-100
	NGI2 4,0-12	2×4,0	12	22,9	4,2	8,8×5,4	grey	UTE10-D4-0-100
	NGI2 4,0-12*	2×4,0	12	22,9	4,2	8,8×5,4	grey	UTE10-4-D4-0-100
	NGI2 6,0-14	2×6,0	14	23,7	5,3	9,2×6,5	black	UTE10-D6-0-100
	NGI2 6,0-14*	2×6,0	14	23,7	5,3	9,2×6,5	black	UTE10-4-D6-0-100
	NGI2 10-14	2×10	14	23,2	6,9	12,0×7,5	ivory	UTE10-D10-0-100
	NGI2 10-14*	2×10	14	23,2	6,9	12,0×7,5	ivory	UTE10-4-D10-0-100
	NGI2 16-14	2×16	14	30,5	8,6	18,8×11,6	green	UTE10-D16-0-100
	NGI2 16-14*	2×16	14	30,5	8,6	18,8×11,6	green	UTE10-4-D16-0-100

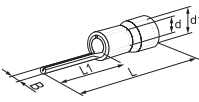
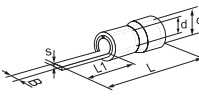
Pre-insulated pin terminals

Round (Nklsh) and blade (Nplsh) pre-insulated pin terminals are intended for terminating copper multi-core conductors applied in various control units and systems requiring operative circuit commutation. With the help of such conductors one can connect TE, TEM and TO timers as well as KMU 11 TM IEK modular control button.

There are several fastening installation methods: screw clamp, spring clamp etc.

Depending of shape and design of the terminal clamp and functional requirements, preference may be given to one or another pin terminal modification.

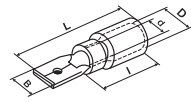
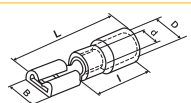
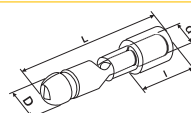
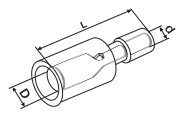
Correspond to EN 60998-1, EN 60998-2-2.

Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm						Insulation color	Product ID
			L	L1	B	s	d	d1		
 	Nklsh 0,5-1,5	0,5 ÷ 1,5	23,5	13	1,7	-	4	1,8	●	UNL11-L23-A19
	Nklsh 1,5-2,5	1,5 ÷ 2,5	23,5	12,5	1,9	-	5	2,5	●	UNL11-L23-A27
	Nklsh 4,0-6,0	4 ÷ 6	26,5	13	2,8	-	6,5	4	●	UNL11-L26-A48
 	Nplsh 0,5-1,5	0,5 ÷ 1,5	20,0	9	2,0	0,65	4	1,8	●	UNL30-L21-A10
	Nplsh 1,5-2,5	1,5 ÷ 2,5	19,5	9	2,5	0,75	5	2,5	●	UNL30-L19-A19
	Nplsh 4,0-6,0	4 ÷ 6	23,5	9,5	2,5	0,85	6,5	4	●	UNL30-L23-A48

* Supplied in blister packaging (20 pcs. each)

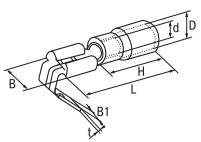
Flat connectors, tinned copper plugs (socket and plug)

They serve for forming pre-insulated circuit connections on the "plug-socket" principle. Using connectors makes possible an operative breaking and connecting the circuit as well as switching different electrical circuits into new configurations. Correspond to EN 60998-1, EN 60998-2-2.

	Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm					Insulation color	Product ID
				B	D	d	L	I		
Flat connectors 		Rplp 1,25-5-0,8	0,75÷1,5	4,75	4,30	1,70	20,5	10,7		URP10-D15-D17-4
		Rplp 1,25-5-0,8*	0,75÷1,5	4,75	4,30	1,70	20,5	10,7		URP10-4-D15-D17-4
		Rplp 2-5-0,8	1,5÷2,5	4,75	4,30	2,30	20,5	10,7	●	URP10-D25-D23-4
		Rplp 2-5-0,8*	1,5÷2,5	4,75	4,30	2,30	20,5	10,7	●	URP10-4-D25-D23-4
		Rplp 5-6-0,8	4,0÷6,0	6,35	5,70	3,40	25,0	13,5	●	URP10-006-D34-6
		Rplp 5-6-0,8*	4,0÷6,0	6,35	5,70	3,40	25,0	13,5	●	URP10-4-006-D34-6
Flat connectors 		Rplm 1,25-250	0,5÷1,5	7,40	3,80	1,70	21,5	10,7		URM10-D15-D17-7
		Rplm 1,25-250*	0,5÷1,5	7,40	3,80	1,70	21,5	10,7		URM10-4-D15-D17-7
		Rplm 1,25-5-0,8	0,5÷1,5	5,60	3,80	1,70	19,0	10,3		URM10-D15-D17-5
		Rplm 1,25-5-0,8*	0,5÷1,5	5,60	3,80	1,70	19,0	10,3		URM10-4-D15-D17-5
		Rplm 2-250	1,5÷2,5	7,40	4,30	2,30	21,5	10,7	●	URM10-D25-D23-7
		Rplm 2-250*	1,5÷2,5	7,40	4,30	2,30	21,5	10,7	●	URM10-4-D25-D23-7
		Rplm 2-5-0,8	1,5÷2,5	5,60	4,30	2,30	20,5	10,7	●	URM10-D25-D23-5
		Rplm 2-5-0,8*	1,5÷2,5	5,60	4,30	2,30	20,5	10,7	●	URM10-4-D25-D23-5
		Rplm 5,5-6-0,5	4,0÷6,0	7,40	5,70	3,40	25,0	13,5	●	URM10-006-D34-7
		Rplm 5,5-6-0,5*	4,0÷6,0	7,40	5,70	3,40	25,0	13,5	●	URM10-4-006-D34-7
Plug connectors 		Rshlp 1,25-4	0,5÷1,5	4,0	1,7	21,0	10,3			URP20-D15-D17-4
		Rshlp 1,25-4*	0,5÷1,5	4,0	1,7	21,0	10,3			URP20-4-D15-D17-4
		Rshlp 2-5-4	1,5÷2,5	4,0	2,3	21,0	10,3	●		URP20-D25-D23-4
		Rshlp 2-5-4*	1,5÷2,5	4,0	2,3	21,0	10,3	●		URP20-4-D25-D23-4
		Rshlp 5,5-4	4,0÷6,0	4,0	3,4	24,7	13,7	●		URP20-006-D34-4
		Rshlp 5,5-4*	4,0÷6,0	4,0	3,4	24,7	13,7	●		URP20-4-006-D34-4
		Rshlm 1,25-5-4	0,5÷1,5	4,0	1,7	26,5				URM20-D15-D17-4
		Rshlm 1,25-5-4*	0,5÷1,5	4,0	1,7	26,5				URM20-4-D15-D17-4
		Rshlm 2-5-4	1,5÷2,5	4,0	2,3	24,5			●	URM20-D25-D23-4
		Rshlm 2-5-4*	1,5÷2,5	4,0	2,3	24,5			●	URM20-4-D25-D23-4
		Rshlm 5,5-6-4	4,0÷6,0	5,0	3,4	25,0			●	URM20-006-D34-4
		Rshlm 5,5-6-4*	4,0÷6,0	5,0	3,4	25,0			●	URM20-4-006-D34-4

Tinned copper flat pre-insulated connectors Rplo

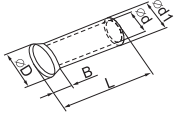
Pre-insulated connectors of Rplo type of IEK® brand are intended for crimping flexible wires and copper or aluminum-core cables up to 6,0 mm² in section in AC or DC electrical circuits up to 400 V. Correspond to EN 60998-1, EN 60998-2-2.

		Name	Cable section range, mm ²	Dimensions, mm								Insulation color	Product ID
				D	d	H	L	B	B1	t			
		Rplo 1,5-7,5-0,8	0,75÷1,5	3,6	1,9	10,5	21						URO-10-1-100
		Rplo 1,5-7,5-0,8*	0,75÷1,5	3,6	1,9	10,5	21						URO-4-10-1-100
		Rplo 2,5-7,5-0,8	1,5÷2,5	4,0	2,4	11,0	22	7,5	6,5	0,8	●	URO-10-2-100	
		Rplo 2,5-7,5-0,8*	1,5÷2,5	4,0	2,4	11,0	22	7,5	6,5	0,8	●	URO-4-10-2-100	
		Rplo 6,0-7,5-0,8	4,0÷6,0	5,5	3,6	13,5	25				●	URO-10-3-100	
		Rplo 6,0-7,5-0,8*	4,0÷6,0	5,5	3,6	13,5	25				●	URO-4-10-3-100	

* Supplied in blister packaging (20 pcs. each)

Tinned copper NG end sleeves for one wire

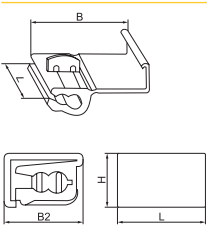
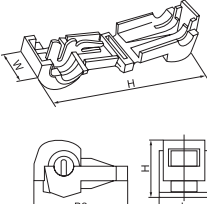
NG end sleeves (bootlace) with no insulation are intended for connecting or terminating wires and cables with copper or aluminum cores from 0,5 to 50 mm² in section in AC and DC electric circuits up to 400 V. Correspond to EN 60998-1, EN 60998-2-2.

Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm					Product ID
			L	d1	d	B	D	
 	NG 0,5-6	0,5	6	1,3	1	0,5	2	UEN10-0506
	NG 0,5-6*	0,5	6	1,3	1	0,5	2	UEN10-4-0506
	NG 0,75-6	0,75	6	1,5	1,2	0,5	2	UEN10-7506
	NG 0,75-6*	0,75	6	1,5	1,2	0,5	2	UEN10-4-7506
	NG 1,0-6	1	6	1,7	1,4	0,5	2,5	UEN10-1006
	NG 1,0-6*	1	6	1,7	1,4	0,5	2,5	UEN10-4-1006
	NG 1,0-10	1	10	1,7	1,4	0,5	2,5	UEN11-1010
	NG 1,0-10*	1	10	1,7	1,4	0,5	2,5	UEN11-4-1010
	NG 1,5-7	1,5	7	2	1,7	0,5	2,5	UEN10-1507
	NG 1,5-7*	1,5	7	2	1,7	0,5	2,5	UEN10-4-1507
	NG 1,5-10	1,5	10	2	1,7	0,5	2,5	UEN10-1510
	NG 1,5-10*	1,5	10	2	1,7	0,5	2,5	UEN10-4-1510
	NG 2,5-7	2,5	7	2,5	2,2	0,5	3	UEN10-2507
	NG 2,5-7*	2,5	7	2,5	2,2	0,5	3	UEN10-4-2507
	NG 2,5-12	2,5	12	2,5	2,2	1	3	UEN10-2512
	NG 2,5-12*	2,5	12	2,5	2,2	1	3	UEN10-4-2512
	NG 4,0-9	4	9	3,2	2,8	1	4	UEN10-4009
	NG 4,0-9*	4	9	3,2	2,8	1	4	UEN10-4-4009
	NG 4,0-12	4	12	3,2	2,8	1	4	UEN10-4012
	NG 4,0-12*	4	12	3,2	2,8	1	4	UEN10-4-4012
	NG 6,0-10	6	10	3,9	3,5	1	5	UEN10-6010
	NG 6,0-10*	6	10	3,9	3,5	1	5	UEN10-4-6010
	NG 6,0-12	6	12	3,9	3,5	1	5	UEN10-6012
	NG 6,0-12*	6	12	3,9	3,5	1	5	UEN10-4-6012
	NG 6,0-15	6	15	3,9	3,5	1	5	UEN10-6015
	NG 6,0-15*	6	15	3,9	3,5	1	5	UEN10-4-6015
	NG 10-12	10	12	4,9	4,5	1	6	UEN11-10-12
	NG 10-12*	10	12	4,9	4,5	1	6	UEN11-4-10-12
	NG 10-15	10	15	4,9	4,5	1	6	UEN11-10-15
	NG 10-15*	10	15	4,9	4,5	1	6	UEN11-4-10-15
	NG 10-18	10	18	4,9	4,5	1	6	UEN11-10-18
	NG 10-18*	10	18	4,9	4,5	1	6	UEN11-4-10-18
	NG 16-12	16	12	6,2	5,8	1,5	7	UEN11-16-12
	NG 16-12*	16	12	6,2	5,8	1,5	7	UEN11-4-16-12
	NG 16-15	16	15	6,2	5,8	1,5	7	UEN11-16-15
	NG 16-15*	16	15	6,2	5,8	1,5	7	UEN11-4-16-15
	NG 16-18	16	18	6,2	5,8	1,5	7	UEN11-16-18
	NG 16-18*	16	18	6,2	5,8	1,5	7	UEN11-4-16-18
	NG 25-16	25	16	7,9	7,5	1,5	10	UEN11-25-16
	NG 25-22	25	22	7,9	7,5	1,5	10	UEN11-25-22
	NG 35-16	35	16	8,7	8,3	1,5	10	UEN11-35-16
	NG 35-25	35	25	8,7	8,3	2	10	UEN11-35-25
	NG 50-20	50	20	10,9	10,3	2	13	UEN11-50-20
	NG 50-25	50	25	10,9	10,3	2	13	UEN11-50-25

* Supplied in blister packaging (20 pcs. each)

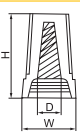
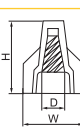
Insulation-piercing brancher-connector of ZPO type

ZPO type insulation-piercing brancher-connectors are intended for separating (branching) cables from the conducting wire as well as for detachable connection of two or more conductors using an insulation-piercing tool in AC or DC electric circuits up to 450 V.

Overall dimensions	Name	Cable section range, mm ²	Dimensions, mm				Insulation color	Product ID
			B1	B2	H	L		
 	ZPO-1 0,5-1,5	0,5 ÷ 1,5	30,6	15,4	9,3	18,6		UMR-10-3-100
	ZPO-1 1,0-2,5	1,0 ÷ 2,5	30,6	15,4	9,5	18,6	●	UMB-10-3-100
	ZPO-1 2,5-6,0	2,5 ÷ 6,0	35	18,3	12,5	20,4	●	UMY-10-3-25
 	ZPO-2 0,5-1,5	0,5 ÷ 1,5	37,5	19,2	10,9	10,4		UKW10-1-100
	ZPO-2 1,0-2,5	1,0 ÷ 2,5	37,5	18,9	10,7	9,5	●	UKW10-2-100
	ZPO-2 2,5-6,0	2,5 ÷ 6,0	37,5	18,3	10,7	9,5	●	UKW10-3-100

Connecting insulating clamps of SIZ type

SIZ type connecting insulating clamps are intended for electrical connection, fixation and insulation of wire bunch with cores from 0,5 to 10,0 mm² in section in AC or DC electric circuits up to 450 V.

Overall dimensions	Name	Cable section range, mm ²		Dimensions, mm			Insulation color	Product ID
		max	min	D	W	H		
 	SIZ-1 1,0-3,0	3	1	3	8,5	14	●	USC-10-3-100
	SIZ-1 1,0-3,0*	3	1	3	8,5	14	●	USC-10-3-005
	SIZ-1 1,5-3,5	3,5	1,5	3,3	10	17	●	USC-10-4-100
	SIZ-1 1,5-3,5*	3,5	1,5	3,3	10	17	●	USC-10-4-005
	SIZ-1 2,0-4,0	4	2	3,7	11	21	●	USC-10-5-100
	SIZ-1 2,0-4,0*	4	2	3,7	11	21	●	USC-10-5-005
	SIZ-1 2,5-4,5	4,5	2,5	4	13,2	23,5	●	USC-10-6-100
	SIZ-1 2,5-4,5*	4,5	2,5	4	13,2	23,5	●	USC-10-6-005
	SIZ-1 4,0-11,0	11	4	6	16,5	26,5		USC-10-7-100
	SIZ-1 4,0-11,0*	11	4	6	16,5	26,5		USC-10-7-005
 	SIZ-1 9,0-25,0	25	9	9,5	18	31	●	USC-10-8-100
	SIZ-1 9,0-25,0*	25	9	9,5	18	31	●	USC-10-8-005
	SIZ-2 3,0-10,0	10	3	5,8	19	23		USC-11-1-100
	SIZ-2 3,0-10,0*	10	3	5,8	19	23		USC-11-1-005
	SIZ-2 4,5-12,0	12	4,5	7	23	30	●	USC-11-2-100
	SIZ-2 4,5-12,0*	12	4,5	7	23	30	●	USC-11-2-005
	SIZ-2 5,0-15,0	15	5	7,5	23	29,3		USC-11-3-100
	SIZ-2 5,0-15,0*	15	5	7,5	23	29,3		USC-11-3-005
	SIZ-2 7,0-20,0	20	7	8	25	32	●	USC-11-4-100
	SIZ-2 7,0-20,0*	20	7	8	25	32	●	USC-11-4-005
	SIZ-2 11,0-30,0	30	11	11	32	38	●	USC-11-5-100
	SIZ-2 11,0-30,0*	30	11	11	32	38	●	USC-11-5-005

* Supplied in blister packaging (5 pcs. each)

SMK terminals for construction and assembling works

For joining the conductors. The spring clamps of SMK terminals ensure reliable and durable contact. Presence of technological hole allows checking for electrical contact between the conductors. The last digit in designation determines number of conductors that can be joined. The advantage of SMK terminals over other types of electrical connections is secure protection from contact with live parts.

	Overall dimensions	Description	Rated current, A	Rated voltage, V	Conductor type	Cross-section of connected wires, mm ²	Color	Package qty	Product ID
		SMK 222-412 reusable	32	400	solid, copper, rigid	0,08-2,5	grey with orange	50	UKZ-001-412
		SMK 222-412 reusable (4 pcs./package)			stranded, copper, rigid	0,08-4,0	grey with orange	4	UKZ-004-412
		SMK 222-413 reusable			stranded, copper, flexible	0,08-4,0	grey with orange	50	UKZ-001-413
		SMK 222-413 reusable (4 pcs./package)			solid, aluminum, rigid	2,5	grey with orange	4	UKZ-004-413
		SMK 222-415 reusable					grey with orange	50	UKZ-001-415
		SMK 222-415 reusable (4 pcs./package)					grey with orange	4	UKZ-004-415
		SMK 773-322 yellow	24	400	solid, copper, rigid	0,75-2,5	yellow in transparent housing	100	UKZ-001-322
		SMK 773-322 yellow (4 pcs./package)			stranded, copper, rigid	1,5-2,5	yellow in transparent housing	4	UKZ-004-322
		SMK 773-324 orange			solid, aluminum, rigid	2,5	orange in transparent housing	100	UKZ-001-324
		SMK 773-324 orange (4 pcs./package)					orange in transparent housing	4	UKZ-004-324
		SMK 773-326 violet					violet in transparent housing	50	UKZ-001-326
		SMK 773-326 (4 pcs./package)					violet in transparent housing	4	UKZ-004-326
		SMK 773-328 grey					grey in transparent housing	50	UKZ-001-328
		SMK 773-328 grey (4 pcs./package)					grey in transparent housing	4	UKZ-004-328
		SMK 773-302 with paste					completely grey	100	UKZ-001-302
		SMK 773-302 with paste (4 pcs./package)					completely grey	4	UKZ-004-302
		SMK 773-304 with paste					completely grey	100	UKZ-001-304
		SMK 773-304 with paste (4 pcs./package)					completely grey	4	UKZ-004-304
		SMK 773-306 with paste					completely grey	50	UKZ-001-306
		SMK 773-306 with paste (4 pcs./package)					completely grey	4	UKZ-004-306
		SMK 773-308 with paste					completely grey	50	UKZ-001-308
		SMK 773-308 with paste (4 pcs./package)					completely grey	4	UKZ-004-308

KSP spring connection terminals

KSP spring connection terminals made by IEK® are intended for quick and reliable connection and branching of solid and stranded copper conductors in AC circuits of voltages up to 450 V and frequency 50 Hz, at ambient air temperature from –60 to +40°C.

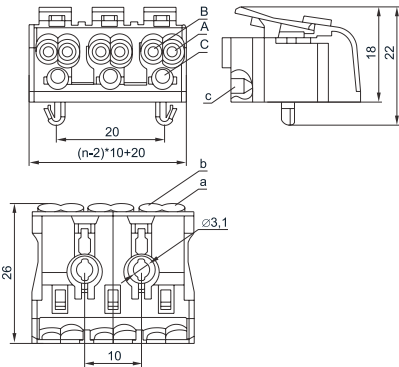
Depending on configuration, KSP IEK® terminals include typical arrangements for connection of phase, neutral and protective conductors – from two to five poles combined in single housing.

All KSP IEK® terminals have self-pressing and pressing contacts with markings on moving part. Some models of KSP terminals have mounting foot, external metal grounding screw contact or both options simultaneously. They meet requirements of GOST 30011.7.1.

	Name	Rated current, A	No. of poles	Mounting foot option	Grounding screw contact option	Package qty	Product ID
	KSPn2-L+N	16	2	•		260	UKZ-B06-2P-F1-E0-10
	KSP2-L+N		2			260	UKZ-B06-2P-F0-E0-10
	KSPn3-L+N+PE		3	•		150	UKZ-B06-3P-F1-E0-10
	KSPnz3-L+N+PE		3	•	•	150	UKZ-B06-3P-F1-E1-10
	KSP3-L+N+PE		3			150	UKZ-B06-3P-F0-E0-10
	KSPz3-L+N+PE		3		•	150	UKZ-B06-3P-F0-E1-10
	KSPn4-2L+N+PE		4	•		120	UKZ-B06-4P-F1-E0-10
	KSPnz4-2L+N+PE		4	•	•	120	UKZ-B06-4P-F1-E1-10
	KSP4-2L+N+PE		4			120	UKZ-B06-4P-F0-E0-10
	KSPz4-2L+N+PE		4		•	120	UKZ-B06-4P-F0-E1-10

	Name	Rated current, A	No. of poles	Mounting foot option	Grounding screw contact option	Package qty	Product ID
	KSPn5-3L+N+PE		5	●		100	UKZ-B06-5P-F1-E0-10
	KSPnz5-3L+N+PE		5	●	●	100	UKZ-B06-5P-F1-E1-10
	KSP5-3L+N+PE		5				UKZ-B06-5P-F0-E0-10
	KSPz5-3L+N+PE		5		●	100	UKZ-B06-5P-F0-E1-10

Overall dimensions



* n is number of poles

Name	Cross-section of conductors connected to terminal, mm ²					
	A	B	C	a	b	c
KSP2, KSPn2, KSP3, KSPn3, KSPnz3, KSPz3, KSP4, KSPn4, KSPnz4, KSPz4, KSP5, KSPn5, KSPnz5, KSPz5	0,5 ÷ 2,5	0,5 ÷ 1,5	0,5 ÷ 0,75	0,5 ÷ 2,5	0,5 ÷ 2,5	0,5 ÷ 0,75

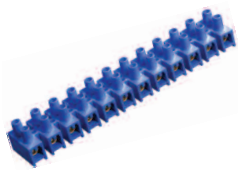
ZVI series terminal screws

They are applied for screw connection of conductors, protecting wires from damage and excluding possibility of short circuit to the frame of electric unit.

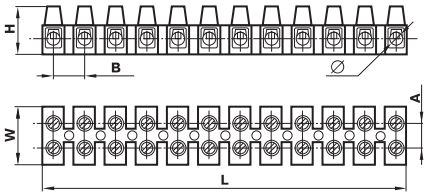
Insulation frame is made of white non-flammable polystyrene or transparent polyethylene. Terminal block and screws - latten alloy.

	Name	Connected cables section, mm ²	Admitted continuous current, A	Max. terminal screw tightening torque, N·m	Max. operating voltage, U _e , V	Insulation voltage U _i , V	Product ID
	ZVI 3 white polyethylene	1,0–2,5	3	0,8	400	450	UZV3-003-04
	ZVI 3 white polyethylene*						UZV3-003-04-2
	ZVI 5 white polyethylene	1,5–4	5	0,8	400	450	UZV3-005-04
	ZVI 5 white polyethylene*						UZV3-005-04-2
	ZVI 10 white polyethylene	2,5–6	10	0,8	400	450	UZV3-010-06
	ZVI 10 white polyethylene*						UZV3-010-06-2
	ZVI 15 white polyethylene	4–10	15	1,2	400	450	UZV1-015-06
	ZVI 15 white polyethylene*						UZV3-015-06-2
	ZVI 20 white polyethylene	4–10	20	1,2	400	450	UZV3-020-06
	ZVI 20 white polyethylene*						UZV3-020-06-2
	ZVI 30 white polyethylene	6–16	30	2,0	400	450	UZV1-030-10
	ZVI 30 white polyethylene*						UZV3-030-10-2
	ZVI 60 white polyethylene	6–16	60	2,0	400	450	UZV1-060-16
	ZVI 80 white polyethylene	10–25	80	2,5	400	450	UZV3-080-25
	ZVI 100 white polyethylene	10–25	100	2,5	400	450	UZV3-100-25
	ZVI 150 white polyethylene	16–35	150	3,5	400	450	UZV3-150-35
	ZVI 3 white polystyrene	1,0–2,5	3	0,8	400	450	UZV4-003-04
	ZVI 3 white polystyrene*	1,0–2,5	3	0,8	400	450	UZV4-003-04-2
	ZVI 5 white polystyrene	1,5–4	5	0,8	400	450	UZV4-005-04
	ZVI 5 white polystyrene*	1,5–4	5	0,8	400	450	UZV4-005-04-2
	ZVI 10 white polystyrene	2,5–6	10	0,8	400	450	UZV4-010-06
	ZVI 10 white polystyrene*	2,5–6	10	0,8	400	450	UZV4-010-06-2
	ZVI 15 white polystyrene	4–10	15	1,2	400	450	UZV2-015-06
	ZVI 15 white polystyrene*	4–10	15	1,2	400	450	UZV4-015-06-2
	ZVI 20 white polystyrene	4–10	20	1,2	400	450	UZV4-020-06
	ZVI 20 white polystyrene*	4–10	20	1,2	400	450	UZV4-020-06-2
	ZVI 30 white polystyrene	6–16	30	2,0	400	450	UZV2-030-10
	ZVI 30 white polystyrene*	6–16	30	2,0	400	450	UZV4-030-10-2
	ZVI 60 white polystyrene	6–16	60	2,0	400	450	UZV2-060-16
	ZVI 80 white polystyrene	10–25	80	2,5	400	450	UZV4-080-25
	ZVI 100 white polystyrene	10–25	100	2,5	400	450	UZV4-100-25
	ZVI 150 white polystyrene	16–35	150	3,5	400	450	UZV4-150-35
	ZVI 3 yellow polystyrene	1,0–2,5	3	0,8	400	450	UZV7-003-04
	ZVI 3 yellow polystyrene*	1,0–2,5	3	0,8	400	450	UZV7-003-04-2
	ZVI 5 yellow polystyrene	1,5–4	5	0,8	400	450	UZV7-005-04
	ZVI 5 yellow polystyrene*	1,5–4	5	0,8	400	450	UZV7-005-04-2
	ZVI 10 yellow polystyrene	2,5–6	10	0,8	400	450	UZV7-010-06
	ZVI 10 yellow polystyrene*	2,5–6	10	0,8	400	450	UZV7-010-06-2
	ZVI 15 yellow polystyrene	4–10	15	1,2	400	450	UZV7-015-06
	ZVI 15 yellow polystyrene*	4–10	15	1,2	400	450	UZV7-015-06-2
	ZVI 20 yellow polystyrene	4–10	20	1,2	400	450	UZV7-020-06
	ZVI 20 yellow polystyrene*	4–10	20	1,2	400	450	UZV7-020-06-2
	ZVI 30 yellow polystyrene	6–16	30	2,0	400	450	UZV7-030-10
	ZVI 30 yellow polystyrene*	6–16	30	2,0	400	450	UZV7-030-10-2
	ZVI 60 yellow polystyrene	6–16	60	2,0	400	450	UZV7-060-16
	ZVI 80 yellow polystyrene	10–25	80	2,5	400	450	UZV7-080-25
	ZVI 100 yellow polystyrene	10–25	100	2,5	400	450	UZV7-100-25
	ZVI 150 yellow polystyrene	16–35	150	3,5	400	450	UZV7-150-35

* Supplied in blister packaging (2 pcs. each)

	Name	Connected cables section, mm ²	Admitted continuous current, A	Max. terminal screw tightening torque, N·m	Max. operating voltage, U _e , V	Insulation voltage U _i , V	Product ID
	ZVI 3 blue polystyrene	1,0–2,5	3	0,8	400	450	UZV6-003-04
	ZVI 3 blue polystyrene*	1,0–2,5	3	0,8	400	450	UZV5-003-04-2
	ZVI 5 blue polystyrene	1,5–4	5	0,8	400	450	UZV6-005-04
	ZVI 5 blue polystyrene*	1,5–4	5	0,8	400	450	UZV5-005-04-2
	ZVI 10 blue polystyrene	2,5–6	10	0,8	400	450	UZV6-010-06
	ZVI 10 blue polystyrene*	2,5–6	10	0,8	400	450	UZV5-010-06-2
	ZVI 15 blue polystyrene	4–10	15	1,2	400	450	UZV6-015-06
	ZVI 15 blue polystyrene*	4–10	15	1,2	400	450	UZV5-015-06-2
	ZVI 20 blue polystyrene	4–10	20	1,2	400	450	UZV6-020-06
	ZVI 20 blue polystyrene*	4–10	20	1,2	400	450	UZV5-020-06-2
	ZVI 30 blue polystyrene	6–16	30	2,0	400	450	UZV6-030-10
	ZVI 30 blue polystyrene*	6–16	30	2,0	400	450	UZV5-030-10-2
	ZVI 60 blue polystyrene	6–16	60	2,0	400	450	UZV6-060-16
	ZVI 80 blue polystyrene	10–25	80	2,5	400	450	UZV6-080-25
	ZVI 100 blue polystyrene	10–25	100	2,5	400	450	UZV6-100-25
	ZVI 150 blue polystyrene	16–35	150	3,5	400	450	UZV6-150-35
	ZVI 3 black polystyrene	1,0–2,5	3	0,8	400	450	UZV5-003-04
	ZVI 3 black polystyrene*	1,0–2,5	3	0,8	400	450	UZV6-003-04-2
	ZVI 5 black polystyrene	1,5–4	5	0,8	400	450	UZV5-005-04
	ZVI 5 black polystyrene*	1,5–4	5	0,8	400	450	UZV6-005-04-2
	ZVI 10 black polystyrene	2,5–6	10	0,8	400	450	UZV5-010-06
	ZVI 10 black polystyrene*	2,5–6	10	0,8	400	450	UZV6-010-06-2
	ZVI 15 black polystyrene	4–10	15	1,2	400	450	UZV5-015-06
	ZVI 15 black polystyrene*	4–10	15	1,2	400	450	UZV6-015-06-2
	ZVI 20 black polystyrene	4–10	20	1,2	400	450	UZV5-020-06
	ZVI 20 black polystyrene*	4–10	20	1,2	400	450	UZV6-020-06-2
	ZVI 30 black polystyrene	6–16	30	2,0	400	450	UZV5-030-10
	ZVI 30 black polystyrene*	6–16	30	2,0	400	450	UZV6-030-10-2
	ZVI 60 black polystyrene	6–16	60	2,0	400	450	UZV5-060-16
	ZVI 80 black polystyrene	10–25	80	2,5	400	450	UZV5-080-25
	ZVI 100 black polystyrene	10–25	100	2,5	400	450	UZV5-100-25
	ZVI 150 black polystyrene	16–35	150	3,5	400	450	UZV5-150-35

Overall dimensions

	Type	Overall dimensions, mm					
		Ø	L	W	H	A	B
	ZVI 3	3,0	92	16	11	6	8
	ZVI 5	3,2	113	16	13	7	10
	ZVI 10	4,2	128	21	16	8	11
	ZVI 15	4,6	138	23	17	8	12
	ZVI 20	4,6	138	23	17	11	12
	ZVI 30	5,7	165	26	19	10	14
	ZVI 60	6,6	185	29	24	13	16
	ZVI 80	7,0	204	33	27	14	18
	ZVI 100	7,9	218	36	28	14	20
	ZVI 150	8,8	252	46	31	22	21

* Supplied in blister packaging (2 pcs. each)

Plastic brackets

They are intended for fast and secured fastening of round and flat cables. Possible fastening onto the wood, press-board and brickwork joints, plaster, concrete and brick. Brackets are made of flexible non-flammable impact-protected polypropylene; nail - zinc-coated steel.

Overall dimensions		Name	B	Color	Package amount, pcs.	Product ID
		4 mm round bracket	4	white	100	USK11-04-100
		4 mm round bracket*	4	white	100	USK11-04-020
		5 mm round bracket	5	white	100	USK11-05-100
		5 mm round bracket*	5	white	100	USK11-05-020
		6 mm round bracket	6	white	100	USK11-06-100
		6 mm round bracket*	6	white	100	USK11-06-020
		7 mm round bracket	7	white	100	USK11-07-100
		7 mm round bracket*	7	white	100	USK11-07-020
		8 mm round bracket	8	white	100	USK11-08-100
		8 mm round bracket*	8	white	100	USK11-08-020
		9 mm round bracket	9	white	100	USK11-09-100
		9 mm round bracket*	9	white	100	USK11-09-020
		10 mm round bracket	10	white	100	USK11-10-100
		10 mm round bracket*	10	white	100	USK11-10-020
		12 mm round bracket	12	white	100	USK11-12-100
		12 mm round bracket*	12	white	100	USK11-12-020
		14 mm round bracket	14	white	100	USK11-14-100
		14 mm round bracket*	14	white	100	USK11-14-020
		16 mm round bracket	16	white	100	USK11-16-100
		18 mm round bracket	18	white	100	USK11-18-100
		4 mm flat bracket	4	white	100	USK21-04-100
		4 mm flat bracket*	4	white	100	USK21-04-020
		5 mm flat bracket	5	white	100	USK21-05-100
		5 mm flat bracket*	5	white	100	USK21-05-020
		6 mm flat bracket	6	white	100	USK21-06-100
		6 mm flat bracket*	6	white	100	USK21-06-020
		7 mm flat bracket	7	white	100	USK21-07-100
		7 mm flat bracket*	7	white	100	USK21-07-020
		8 mm flat bracket	8	white	100	USK21-08-100
		8 mm flat bracket*	8	white	100	USK21-08-020
		9 mm flat bracket	9	white	100	USK21-09-100
		9 mm flat bracket*	9	white	100	USK21-09-020
		10 mm flat bracket	10	white	100	USK21-10-100
		10 mm flat bracket*	10	white	100	USK21-10-020
		12 mm flat bracket	12	white	100	USK21-12-100
		12 mm flat bracket*	12	white	100	USK21-12-020
		14 mm flat bracket	14	white	100	USK21-14-100
		14 mm flat bracket*	14	white	100	USK21-14-020

* Supplied in blister packaging (20 pcs. each)

Nylon cable clamps

They are intended for bundling and mounting of cables and conductors.

Cable clamps are one of the most convenient, fast and economically sound fastening and banding methods when performing electrical works.

The range includes only frostproof nylon clamps. This material preserves high strength and flexibility when having sufficient rigidity at wide range of temperatures (from $-45^{\circ} + 85^{\circ}\text{C}$), high resistance to organic solvents, combustible and lubricating materials and alkalies, high electrical insulation properties and does not support combustion.

Range



	Name	W, mm	L, mm	Color	Material	Package amount, pcs.	Product ID
	Nylon clamps (50 pcs.)						
	Clamp 2,5×100 mm	2,5	100	white	nylon	50	UHH20-D025-100-050
	Clamp 2,5×120 mm	2,5	120	white	nylon	50	UHH20-D025-120-050
	Clamp 2,5×150 mm	2,5	150	white	nylon	50	UHH20-D025-150-050
	Clamp 2,5×200 mm	2,5	200	white	nylon	50	UHH20-D025-200-050
	Clamp 3,6×150 mm	3,6	150	white	nylon	50	UHH20-D036-150-050
	Clamp 3,6×180 mm	3,6	180	white	nylon	50	UHH20-D036-180-050
	Clamp 3,6×200 mm	3,6	200	white	nylon	50	UHH20-D036-200-050
	Clamp 3,6×250 mm	3,6	250	white	nylon	50	UHH20-D036-250-050
	Clamp 3,6×300 mm	3,6	300	white	nylon	50	UHH20-D036-300-050
	Nylon clamps (100 pcs.)						
	Clamp 2,5×100 mm	2,5	100	white	nylon	100	UHH31-D025-100-100
	Clamp 2,5×120 mm	2,5	120	white	nylon	100	UHH31-D025-120-100
	Clamp 2,5×150 mm	2,5	150	white	nylon	100	UHH31-D025-150-100
	Clamp 2,5×180 mm	2,5	180	white	nylon	100	UHH31-D025-180-100
	Clamp 2,5×200 mm	2,5	200	white	nylon	100	UHH31-D025-200-100
	Clamp 2,5×250 mm	2,5	250	white	nylon	100	UHH31-D025-250-100
	Clamp 2,5×60 mm	2,5	60	white	nylon	100	UHH31-D025-060-100
	Clamp 2,5×80 mm	2,5	80	white	nylon	100	UHH31-D025-080-100
	Clamp 3,6×100 mm	3,6	100	white	nylon	100	UHH31-D036-100-100
	Clamp 3,6×120 mm	3,6	120	white	nylon	100	UHH31-D036-120-100
	Clamp 3,6×150 mm	3,6	150	white	nylon	100	UHH31-D036-150-100
	Clamp 3,6×180 mm	3,6	180	white	nylon	100	UHH31-D036-180-100
	Clamp 3,6×200 mm	3,6	200	white	nylon	100	UHH31-D036-200-100
	Clamp 3,6×250 mm	3,6	250	white	nylon	100	UHH31-D036-250-100
	Clamp 3,6×300 mm	3,6	300	white	nylon	100	UHH31-D036-300-100
	Clamp 3,6×350 mm	3,6	350	white	nylon	100	UHH31-D036-350-100
	Clamp 4,8×120 mm	4,8	120	white	nylon	100	UHH31-D048-120-100
	Clamp 4,8×160 mm	4,8	160	white	nylon	100	UHH31-D048-160-100
	Clamp 4,8×180 mm	4,8	180	white	nylon	100	UHH31-D048-180-100
	Clamp 4,8×200 mm	4,8	200	white	nylon	100	UHH31-D048-200-100
	Clamp 4,8×250 mm	4,8	250	white	nylon	100	UHH31-D048-250-100
	Clamp 4,8×300 mm	4,8	300	white	nylon	100	UHH31-D048-300-100
	Clamp 4,8×350 mm	4,8	350	white	nylon	100	UHH31-D048-350-100
	Clamp 4,8×400 mm	4,8	400	white	nylon	100	UHH31-D048-400-100
	Clamp 4,8×450 mm	4,8	450	white	nylon	100	UHH31-D048-450-100
	Clamp 4,8×500 mm	4,8	500	white	nylon	100	UHH31-D048-500-100
	Clamp 7,6×300 mm	7,6	300	white	nylon	100	UHH31-D076-300-100
	Clamp 7,6×350 mm	7,6	350	white	nylon	100	UHH31-D076-350-100
	Clamp 7,6×400 mm	7,6	400	white	nylon	100	UHH31-D076-400-100
	Clamp 7,6×450 mm	7,6	450	white	nylon	100	UHH31-D076-450-100
	Clamp 7,6×500 mm	7,6	500	white	nylon	100	UHH31-D076-500-100



Name	W, mm	L, mm	Color	Material	Package amount, pcs.	Product ID
Clamp 8,8×1000 mm	8,8	1000	white	nylon	100	UHH31-D088-1000-100
Clamp 8,8×400 mm	8,8	400	white	nylon	100	UHH31-D088-400-100
Clamp 8,8×450 mm	8,8	450	white	nylon	100	UHH31-D088-450-100
Clamp 8,8×500 mm	8,8	500	white	nylon	100	UHH31-D088-500-100
Clamp 8,8×650 mm	8,8	650	white	nylon	100	UHH31-D088-650-100
Clamp 8,8×750 mm	8,8	750	white	nylon	100	UHH31-D088-750-100
Clamp 8,8×800 mm	8,8	800	white	nylon	100	UHH31-D088-800-100

Nylon clamps (500 pcs.)

Clamp 2,5×100 mm	2,5	100	white	nylon	500	UHH31-D025-100-500
Clamp 2,5×120 mm	2,5	120	white	nylon	500	UHH31-D025-120-500
Clamp 2,5×150 mm	2,5	150	white	nylon	500	UHH31-D025-150-500
Clamp 2,5×200 mm	2,5	200	white	nylon	500	UHH31-D025-200-500
Clamp 3,6×150 mm	3,6	150	white	nylon	500	UHH31-D036-150-500
Clamp 3,6×180 mm	3,6	180	white	nylon	500	UHH31-D036-180-500
Clamp 3,6×200 mm	3,6	200	white	nylon	500	UHH31-D036-200-500
Clamp 3,6×250 mm	3,6	250	white	nylon	500	UHH31-D036-250-500
Clamp 3,6×300 mm	3,6	300	white	nylon	500	UHH31-D036-300-500

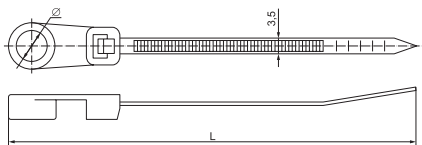


Black nylon clamps (100 pcs.)

Clamp 3,6×180 mm	3,6	180	black	nylon	100	UHH32-D036-180-100
Clamp 2,5×100 mm	2,5	100	black	nylon	100	UHH32-D025-100-100
Clamp 2,5×120 mm	2,5	120	black	nylon	100	UHH32-D025-120-100
Clamp 2,5×150 mm	2,5	150	black	nylon	100	UHH32-D025-150-100
Clamp 2,5×180 mm	2,5	180	black	nylon	100	UHH32-D025-180-100
Clamp 2,5×200 mm	2,5	200	black	nylon	100	UHH32-D025-200-100
Clamp 2,5×250 mm	2,5	250	black	nylon	100	UHH32-D025-250-100
Clamp 2,5×60 mm	2,5	60	black	nylon	100	UHH32-D025-060-100
Clamp 2,5×80 mm	2,5	80	black	nylon	100	UHH32-D025-080-100
Clamp 3,6×100 mm	3,6	100	black	nylon	100	UHH32-D036-100-100
Clamp 3,6×120 mm	3,6	120	black	nylon	100	UHH32-D036-120-100
Clamp 3,6×150 mm	3,6	150	black	nylon	100	UHH32-D036-150-100
Clamp 3,6×200 mm	3,6	200	black	nylon	100	UHH32-D036-200-100
Clamp 3,6×250 mm	3,6	250	black	nylon	100	UHH32-D036-250-100
Clamp 3,6×300 mm	3,6	300	black	nylon	100	UHH32-D036-300-100
Clamp 3,6×350 mm	3,6	350	black	nylon	100	UHH32-D036-350-100
Clamp 4,8×120 mm	4,8	120	black	nylon	100	UHH32-D048-120-100
Clamp 4,8×160 mm	4,8	160	black	nylon	100	UHH32-D048-160-100
Clamp 4,8×180 mm	4,8	180	black	nylon	100	UHH32-D048-180-100
Clamp 4,8×200 mm	4,8	200	black	nylon	100	UHH32-D048-200-100
Clamp 4,8×250 mm	4,8	250	black	nylon	100	UHH32-D048-250-100
Clamp 4,8×300 mm	4,8	300	black	nylon	100	UHH32-D048-300-100
Clamp 4,8×350 mm	4,8	350	black	nylon	100	UHH32-D048-350-100
Clamp 4,8×400 mm	4,8	400	black	nylon	100	UHH32-D048-400-100
Clamp 4,8×450 mm	4,8	450	black	nylon	100	UHH32-D048-450-100
Clamp 4,8×500 mm	4,8	500	black	nylon	100	UHH32-D048-500-100
Clamp 7,6×300 mm	7,6	300	black	nylon	100	UHH32-D076-300-100
Clamp 7,6×350 mm	7,6	350	black	nylon	100	UHH32-D076-350-100
Clamp 7,6×400 mm	7,6	400	black	nylon	100	UHH32-D076-400-100
Clamp 7,6×450 mm	7,6	450	black	nylon	100	UHH32-D076-450-100
Clamp 7,6×500 mm	7,6	500	black	nylon	100	UHH32-D076-500-100
Clamp 8,8×1000 mm	8,8	1000	black	nylon	100	UHH32-D088-1000-100
Clamp 8,8×400 mm	8,8	400	black	nylon	100	UHH32-D088-400-100
Clamp 8,8×450 mm	8,8	450	black	nylon	100	UHH32-D088-450-100
Clamp 8,8×500 mm	8,8	500	black	nylon	100	UHH32-D088-500-100
Clamp 8,8×650 mm	8,8	650	black	nylon	100	UHH32-D088-650-100
Clamp 8,8×750 mm	8,8	750	black	nylon	100	UHH32-D088-750-100
Clamp 8,8×800 mm	8,8	800	black	nylon	100	UHH32-D088-800-100

Holed cable clamps for HOK fastening

They provide for ensuring simplicity and convenience of fastening and marking cables, metal and crinkled hoses etc. These clamps are made of nylon notable for its resistance to organic solvents, combustive and lubricating materials.



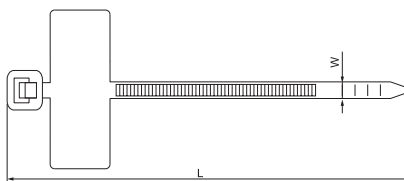
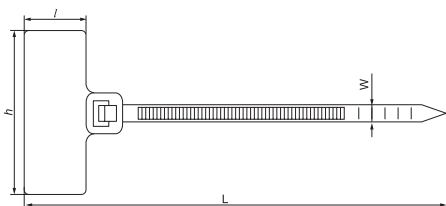
	Name	Width, mm	Length L, mm	Hole diameter Ø, mm	Fastened wire bunch diameter range, mm	Max. sustained load, H	Color	Package amount, pcs.	Product ID
	Holed cable clamps for HOK mounting 3,5×100	3,5	100	4,2	5÷20	150	white	100	UHH40-4-100-100
	Holed cable clamps for HOK mounting 3,5×150	3,5	150	3,8	5÷35	150	white	100	UHH40-4-150-100
	Holed cable clamps for HOK mounting 3,5×200	3,5	200	3,8	5÷50	150	white	100	UHH40-5-200-100

Clamps with HP pad

They are intended for fast and easy marking of cables, metal and crinkled hoses etc. These clamps are made of nylon notable for its resistance to organic solvents, combustive and lubricating materials.

HP1

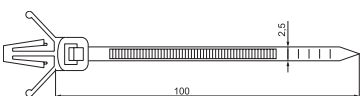
HP2



	Name	Width W, mm	Length L, mm	Pad size, mm		Fastened wire bunch diameter range, mm	Max. sustained load, H	Color	Package amount, pcs.	Product ID
				l	h					
	Clamp with HP1 pad 2,5×110	2,5	110	13	20	4÷25	80	white	100	UHH61-3-110-100
	Clamp with HP1 pad 3,0×150	3,0	150	15	25	5÷35	100	white	100	UHH61-3-150-100
	Clamp with HP1 pad 3,0×200	3,0	200	15	25	5÷50	100	white	100	UHH61-3-200-100
	Clamp with HP2 pad 2,5×100	2,5	100	10	24	4÷20	80	white	100	UHH62-3-100-100

HA anchor clamps

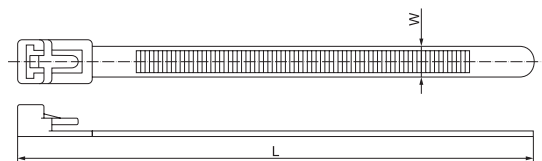
HA anchor clamps are designed for quick and easy wiring installation inside electrical lockers. Provide secure fixation of wires along the walls.



	Name	Width, mm	Length L, mm	Hole diameter Ø, mm	Max. mounting panel thickness, mm	Fastened wire bunch diameter range, mm	Max. sustained load, H	Color	Package amount, pcs.	Product ID
	HA anchor clamp 2,5×100	2,5	100	4,5–5	2	5÷20	80	white	100	UHH17-36-100-100

HM re-usable clamps

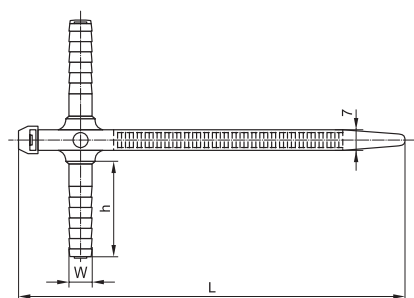
They provide for easy and convenient dismounting of cables, wires, crinkled hoses etc.
Possible secondary use of equipment.



	Name	Width W, mm	Length L, mm	Fastened wire bunch diameter range, mm	Max. sustained load, H	Color	Package amount, pcs.	Product ID
	HM re-usable clamp 7,0×150	7	150	6÷35	220	white	100	UHH50-7-150-100
	HM re-usable clamp 7,0×200	7	200	6÷50	220	white	100	UHH50-7-200-100
	HM re-usable clamp 7,5×250	7,5	250	6÷65	220	white	100	UHH50-7-250-100
	HM re-usable clamp 7,5×300	7,5	300	6÷80	220	white	100	UHH50-7-300-100

HD dowel clamps

They are intended for fast and convenient laying of cabling along the walls. This item ensures easy and fast mounting allowing to get rid of classic dowels and bolt screws in the process of cable laying. Clamps can be used both inside and outside the premises. Re-usable lock of these clamps allows performing secondary laying of cables along the route mounted applying HD clamps. Products sustain the load of 8 kg that is why they provide for fastening along the walls not only cabling but also PVC crinkled hoses and rigid plain pipes.



	Name	h, mm	Width W, mm	Length L, mm	Fastened wire bunch diameter range, mm	Max. sustained load, H	Color	Package amount, pcs.	Product ID
	HD 7×150	32	8	152	6–35	78	white	50	UHH80-7-150-50-K01
							grey	50	UHH80-7-150-50-K41
							black	50	UHH80-7-150-50-K02
	HD 7×165	36	10	170	6–38	78	white	50	UHH80-7-165-50-K01
							grey	50	UHH80-7-165-50-K41
							black	50	UHH80-7-165-50-K02

UPS clamps

They are used for UPS fastening.

These clamps are made of black halogen-free nylon plastic. Clamps are UV, ozone, acid, alkali, hydrocarbon and salt spray-resistant.

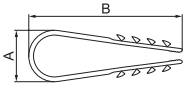
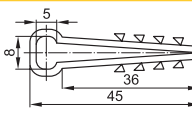


	Name	C, mm	B, mm	Thickness, mm	Disruptive load, kN	Color	Infolded cable diameter, mm	Package amount, pcs.	Product ID
	UPS clamp HS-180	9	188	2	0,4	black	10–45	100	UHH21-D6-180-100
	UPS clamp HS-260	9	260	2	0,6	black	26–66	100	UHH21-D9-260-100
	UPS clamp HS-360	9	355	2	0,6	black	55–95	100	UHH21-D9-360-100

Dowel-clamps

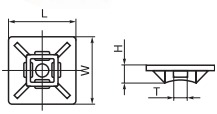
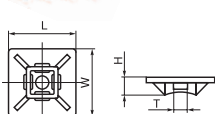
They ensure easy and fast mounting, reliable and secure fastening. Dowel-clamps are intended for fastening cables, wire bunches, metal and crinkled hoses etc. They are suitable for using both inside and outside the premises. These clamps allow excluding UPS clamps dowels and bolt screws from the process of cable laying.

Made in
Russia

		Name	Hole diameter, mm	A, mm	B, mm	Color	Package amount, pcs.	Product ID
 		Dowel-clamp 5–10 mm	6	5–10	45	white	100	UHH35-5-10-100
		Dowel-clamp 11–18 mm	6	11–18	54	white	100	UHH35-11-18-100
		Dowel-clamp 19–25 mm	6	19–25	62	white	100	UHH35-19-25-100
		Dowel-clamp 5–10 mm	6	5–10	45	black	100	UHH36-5-10-100
		Dowel-clamp 11–18 mm	6	11–18	54	black	100	UHH36-11-18-100
		Dowel-clamp 19–25 mm	6	19–25	62	black	100	UHH36-19-25-100
		Dowel-clamp 5×8 mm				white	100	UHH35-5-8-100
		Dowel-clamp 5×8 mm				black	100	UHH36-5-8-100

Self-adhesive nylon pads

They are intended for fastening cable clamps on smooth surfaces. Clamps with a self-adhesive layer.

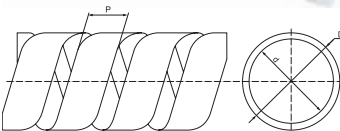
		Name	Dimensions, mm				Color	Material	Package amount, pcs.	Product ID
			W	L	H	T				
 		White self-adhesive nylon pads (100 pcs.)								
		White self-adhesive pad 20×20	20	20	4,5	3,6	white	nylon	100	UHP30 20 100
		White self-adhesive pad 20×20*	20	20	4,5	3,6	white	nylon	100	UHP30-20-020
		White self-adhesive pad 25×25	25	25	6,5	7,6	white	nylon	100	UHP30 25 100
		White self-adhesive pad 25×25*	25	25	6,5	7,6	white	nylon	100	UHP30-25-020
		White self-adhesive pad 30×30	30	30	9	9	white	nylon	100	UHP30 30 100
		White self-adhesive pad 30×30*	30	30	9	9	white	nylon	100	UHP30-30-020
		White self-adhesive pad 40×40	40	40	7,5	11,5	white	nylon	100	UHP30 40 100
		White self-adhesive pad 40×40*	40	40	7,5	11,5	white	nylon	100	UHP30-40-020
 		Black self-adhesive nylon pads (100 pcs.)								
		Black self-adhesive pad 20×20	20	20	4,5	3,6	black	nylon	100	UHP31 20 100
		Black self-adhesive pad 20×20*	20	20	4,5	3,6	black	nylon	100	UHP31-20-020
		Black self-adhesive pad 25×25	25	25	6,5	7,6	black	nylon	100	UHP31 25 100
		Black self-adhesive pad 25×25*	25	25	6,5	7,6	black	nylon	100	UHP31-25-020
		Black self-adhesive pad 30×30	30	30	9	9	black	nylon	100	UHP31 30 100
		Black self-adhesive pad 30×30*	30	30	9	9	black	nylon	100	UHP31-30-020
		Black self-adhesive pad 40×40	40	40	7,5	11,5	black	nylon	100	UHP31 40 100
		Black self-adhesive pad 40×40*	40	40	7,5	11,5	black	nylon	100	UHP31-40-020

* Supplied in blister packaging (20 pcs. each)

SM mounting helix

It is intended for joining electric cables into routes, tying in bundles, layout of wires as well as protecting the cables from friction and mechanical damage. The helix provides for secure and careful connection of wiring inside the cable ducts, metal trays and distribution boxes.

Mounting helix of SM type is made of high-pressure polyethylene with addition of components preventing combustion.

		Name	D, mm	d, mm	P, mm	Diameter of tied in bundle, mm	Package amount, pcs.	Product ID
 		Mounting helix SM-06-04	6	4	7,0	4–50	10	USWB-D06-10
		Mounting helix SM-08-06	8	6	10,8	6–60	10	USWB-D08-10
		Mounting helix SM-10-7,5	10	7,5	11,4	7,5–60	10	USWB-D10-10
		Mounting helix SM-12-09	12	9	13,9	9–65	10	USWB-D12-10
		Mounting helix SM-15-12	15	12	15,0	12–75	10	USWB-D15-10
		Mounting helix SM-19-15	19	15	18,2	15–100	10	USWB-D19-10
		Mounting helix SM-24-20	24	20	19,6	20–130	10	USWB-D24-10

Heat-shrink materials

TTU heat-shrink tubes

The heat-shrink tubes from thin polyethylene are halogen-free and have fire suppression property. The products have good electrical and mechanical properties and are used as insulating and sealing materials. Being heated after putting in stretched state on various items, they shrink and fit close to an item, assuming its shape. The heat-shrink tubes have the following color options: white, yellow, green/yellow, green, red, blue and black.

Technical features

Minimum sealing before the break, %	200
Minimum radial shrinkage, %	50
Operating temperature range, °C	−55 ÷ +105
Shrinkage temperature, °C	+84 ÷ +120
Minimum electrical strength, kV/mm	20
Minimum specific electric resistance, Ohm/cm	10 ¹⁴
Dielectric constant	< 2,5
Relative density, g/cm ³	0,95
Longitudinal shrinkage, %	≤ 10
Minimum tensile strength, mPa	10

TTU 2:1 heat-shrink tubes (in rolls)



Name	Before shrinkage		After shrinkage		Length in package, m/roll	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm			
Shrink tube TTU 6/3	6	0,35	3	0,55	100	white	UDRS-D6-100-K01
						yellow	UDRS-D6-100-K05
						yellow-green	UDRS-D6-100-K52
						green	UDRS-D6-100-K06
						red	UDRS-D6-100-K04
						blue	UDRS-D6-100-K07
						black	UDRS-D6-100-K02
Shrink tube TTU 8/4	8	0,35	4	0,55	100	white	UDRS-D8-100-K01
						yellow	UDRS-D8-100-K05
						yellow-green	UDRS-D8-100-K52
						green	UDRS-D8-100-K06
						red	UDRS-D8-100-K04
						blue	UDRS-D8-100-K07
						black	UDRS-D8-100-K02
Shrink tube TTU 10/5	10	0,35	5	0,6	100	white	UDRS-D10-100-K01
						yellow	UDRS-D10-100-K05
						yellow-green	UDRS-D10-100-K52
						green	UDRS-D10-100-K06
						red	UDRS-D10-100-K04
						blue	UDRS-D10-100-K07
						black	UDRS-D10-100-K02
Shrink tube TTU 12/6	12	0,35	6	0,7	100	white	UDRS-D12-100-K01
						yellow	UDRS-D12-100-K05
						yellow-green	UDRS-D12-100-K52
						green	UDRS-D12-100-K06
						red	UDRS-D12-100-K04
						blue	UDRS-D12-100-K07
						black	UDRS-D12-100-K02

Name	Before shrinkage		After shrinkage		Length in package, m/roll	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm			
Shrink tube TTU 14/7	14	0,35	7	0,7	100	white	UDRS-D14-100-K01
						yellow	UDRS-D14-100-K05
						yellow-green	UDRS-D14-100-K52
						green	UDRS-D14-100-K06
						red	UDRS-D14-100-K04
						blue	UDRS-D14-100-K07
						black	UDRS-D14-100-K02
Shrink tube TTU 16/8	16	0,35	8	0,7	100	white	UDRS-D16-100-K01
						yellow	UDRS-D16-100-K05
						yellow-green	UDRS-D16-100-K52
						green	UDRS-D16-100-K06
						red	UDRS-D16-100-K04
						blue	UDRS-D16-100-K07
						black	UDRS-D16-100-K02
Shrink tube TTU 18/9	18	0,4	9	0,8	100	white	UDRS-D18-100-K01
						yellow	UDRS-D18-100-K05
						yellow-green	UDRS-D18-100-K52
						green	UDRS-D18-100-K06
						red	UDRS-D18-100-K04
						blue	UDRS-D18-100-K07
						black	UDRS-D18-100-K02
Shrink tube TTU 20/10	20	0,5	10	0,9	100	white	UDRS-D20-100-K01
						yellow	UDRS-D20-100-K05
						yellow-green	UDRS-D20-100-K52
						green	UDRS-D20-100-K06
						red	UDRS-D20-100-K04
						blue	UDRS-D20-100-K07
						black	UDRS-D20-100-K02
Shrink tube TTU 22/11	22	0,5	11	0,9	100	white	UDRS-D22-100-K01
						yellow	UDRS-D22-100-K05
						yellow-green	UDRS-D22-100-K52
						green	UDRS-D22-100-K06
						red	UDRS-D22-100-K04
						blue	UDRS-D22-100-K07
						black	UDRS-D22-100-K02

Name	Before shrinkage		After shrinkage		Length in package, m/roll	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm			
Shrink tube TTU 25/12,5	25	0,5	12,5	0,9	50	white	UDRS-D25-50-K01
						yellow	UDRS-D25-50-K05
						yellow-green	UDRS-D25-50-K52
						green	UDRS-D25-50-K06
						red	UDRS-D25-50-K04
						blue	UDRS-D25-50-K07
						black	UDRS-D25-50-K02
Shrink tube TTU 28/14	28	0,5	14	0,9	50	white	UDRS-D28-50-K01
						yellow	UDRS-D28-50-K05
						yellow-green	UDRS-D28-50-K52
						green	UDRS-D28-50-K06
						red	UDRS-D28-50-K04
						blue	UDRS-D28-50-K07
						black	UDRS-D28-50-K02
Shrink tube TTU 30/15	30	0,5	15	1	50	white	UDRS-D30-50-K01
						yellow	UDRS-D30-50-K05
						yellow-green	UDRS-D30-50-K52
						green	UDRS-D30-50-K06
						red	UDRS-D30-50-K04
						blue	UDRS-D30-50-K07
						black	UDRS-D30-50-K02
Shrink tube TTU 35/17,5	35	0,5	17,5	1	50	white	UDRS-D35-50-K01
						yellow	UDRS-D35-50-K05
						yellow-green	UDRS-D35-50-K52
						green	UDRS-D35-50-K06
						red	UDRS-D35-50-K04
						blue	UDRS-D35-50-K07
						black	UDRS-D35-50-K02

Name	Before shrinkage		After shrinkage		Length in package, m/roll	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm			
Shrink tube TTU 40/20	40	0,5	20	1	50	white	UDRS-D40-50-K01
						yellow	UDRS-D40-50-K05
						yellow-green	UDRS-D40-50-K52
						green	UDRS-D40-50-K06
						red	UDRS-D40-50-K04
						blue	UDRS-D40-50-K07
						black	UDRS-D40-50-K02
Shrink tube TTU 45/22,5	45	0,5	22,5	1	25	white	UDRS-D45-25-K01
						yellow	UDRS-D45-25-K05
						yellow-green	UDRS-D45-25-K52
						green	UDRS-D45-25-K06
						red	UDRS-D45-25-K04
						blue	UDRS-D45-25-K07
						black	UDRS-D45-25-K02
Shrink tube TTU 50/25	50	0,5	25	1	25	white	UDRS-D50-25-K01
						yellow	UDRS-D50-25-K05
						yellow-green	UDRS-D50-25-K52
						green	UDRS-D50-25-K06
						red	UDRS-D50-25-K04
						blue	UDRS-D50-25-K07
						black	UDRS-D50-25-K02
Shrink tube TTU 60/30	60	0,5	30	1	25	white	UDRS-D60-25-K01
						yellow	UDRS-D60-25-K05
						yellow-green	UDRS-D60-25-K52
						green	UDRS-D60-25-K06
						red	UDRS-D60-25-K04
						blue	UDRS-D60-25-K07
						black	UDRS-D60-25-K02

TTU 2:1 heat-shrink tubes (in 1-meter cuts)



Name	Before shrinkage		After shrinkage		Package qty., m	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm			
Shrink tube TTU 1,5/0,75	1,5	0,2	0,75	0,4	200	white	UDRS-D15-1-K01
						yellow	UDRS-D15-1-K05
						yellow-green	UDRS-D15-1-K52
						green	UDRS-D15-1-K06
						red	UDRS-D15-1-K04
						blue	UDRS-D15-1-K07
						black	UDRS-D15-1-K02
Shrink tube TTU 1/0,5	1	0,2	0,5	0,4	200	white	UDRS-D1-1-K01
						yellow	UDRS-D1-1-K05
						yellow-green	UDRS-D1-1-K52
						green	UDRS-D1-1-K06
						red	UDRS-D1-1-K04
						blue	UDRS-D1-1-K07
						black	UDRS-D1-1-K02

Name	Before shrinkage		After shrinkage		Package qty., m	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm			
Shrink tube TTU 10/5	10	0,35	5	0,6	50	white	UDRS-D10-1-K01
						yellow	UDRS-D10-1-K05
						yellow-green	UDRS-D10-1-K52
						green	UDRS-D10-1-K06
						red	UDRS-D10-1-K04
						blue	UDRS-D10-1-K07
						black	UDRS-D10-1-K02
Shrink tube TTU 12/6	12	0,35	6	0,7	50	white	UDRS-D12-1-K01
						yellow	UDRS-D12-1-K05
						yellow-green	UDRS-D12-1-K52
						green	UDRS-D12-1-K06
						red	UDRS-D12-1-K04
						blue	UDRS-D12-1-K07
						black	UDRS-D12-1-K02
Shrink tube TTU 14/7	14	0,35	7	0,7	50	white	UDRS-D14-1-K01
						yellow	UDRS-D14-1-K05
						yellow-green	UDRS-D14-1-K52
						green	UDRS-D14-1-K06
						red	UDRS-D14-1-K04
						blue	UDRS-D14-1-K07
						black	UDRS-D14-1-K02

Name	Before shrinkage		After shrinkage		Package qty., m	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm			
Shrink tube TTU 16/8	16	0,35	8	0,7	50	white	UDRS-D16-1-K01
						yellow	UDRS-D16-1-K05
						yellow-green	UDRS-D16-1-K52
						green	UDRS-D16-1-K06
						red	UDRS-D16-1-K04
						blue	UDRS-D16-1-K07
						black	UDRS-D16-1-K02
Shrink tube TTU 18/9	18	0,4	9	0,8	50	white	UDRS-D18-1-K01
						yellow	UDRS-D18-1-K05
						yellow-green	UDRS-D18-1-K52
						green	UDRS-D18-1-K06
						red	UDRS-D18-1-K04
						blue	UDRS-D18-1-K07
						black	UDRS-D18-1-K02
Shrink tube TTU 2/1	2	0,25	1	0,45	200	white	UDRS-D2-1-K01
						yellow	UDRS-D2-1-K05
						yellow-green	UDRS-D2-1-K52
						green	UDRS-D2-1-K06
						red	UDRS-D2-1-K04
						blue	UDRS-D2-1-K07
						black	UDRS-D2-1-K02
Shrink tube TTU 20/10	20	0,5	10	0,9	50	white	UDRS-D20-1-K01
						yellow	UDRS-D20-1-K05
						yellow-green	UDRS-D20-1-K52
						green	UDRS-D20-1-K06
						red	UDRS-D20-1-K04
						blue	UDRS-D20-1-K07
						black	UDRS-D20-1-K02
Shrink tube TTU 22/11	22	0,5	11	0,9	50	white	UDRS-D22-1-K01
						yellow	UDRS-D22-1-K05
						yellow-green	UDRS-D22-1-K52
						green	UDRS-D22-1-K06
						red	UDRS-D22-1-K04
						blue	UDRS-D22-1-K07
						black	UDRS-D22-1-K02
Shrink tube TTU 25/12,5	25	0,5	12,5	0,9	50	white	UDRS-D25-1-K01
						yellow	UDRS-D25-1-K05
						yellow-green	UDRS-D25-1-K52
						green	UDRS-D25-1-K06
						red	UDRS-D25-1-K04
						blue	UDRS-D25-1-K07
						black	UDRS-D25-1-K02
Shrink tube TTU 28/14	28	0,5	14	0,9	25	white	UDRS-D28-1-K01
						yellow	UDRS-D28-1-K05
						yellow-green	UDRS-D28-1-K52
						green	UDRS-D28-1-K06
						red	UDRS-D28-1-K04
						blue	UDRS-D28-1-K07
						black	UDRS-D28-1-K02
Shrink tube TTU 3/1,5	3	0,25	1,5	0,45	200	white	UDRS-D3-1-K01
						yellow	UDRS-D3-1-K05
						yellow-green	UDRS-D3-1-K52
						green	UDRS-D3-1-K06
						red	UDRS-D3-1-K04
						blue	UDRS-D3-1-K07
						black	UDRS-D3-1-K02
Shrink tube TTU 30/15	30	0,5	15	1,0	25	white	UDRS-D30-1-K01
						yellow	UDRS-D30-1-K05
						yellow-green	UDRS-D30-1-K52
						green	UDRS-D30-1-K06
						red	UDRS-D30-1-K04
						blue	UDRS-D30-1-K07
						black	UDRS-D30-1-K02

Name	Before shrinkage		After shrinkage		Package qty., m	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm			
Shrink tube TTU 35/17,5	35	0,5	17,5	1,0	25	white	UDRS-D35-1-K01
						yellow	UDRS-D35-1-K05
						yellow-green	UDRS-D35-1-K52
						green	UDRS-D35-1-K06
						red	UDRS-D35-1-K04
						blue	UDRS-D35-1-K07
						black	UDRS-D35-1-K02
Shrink tube TTU 4/2	4	0,25	2	0,45	100	white	UDRS-D4-1-K01
						yellow	UDRS-D4-1-K05
						yellow-green	UDRS-D4-1-K52
						green	UDRS-D4-1-K06
						red	UDRS-D4-1-K04
						blue	UDRS-D4-1-K07
						black	UDRS-D4-1-K02
Shrink tube TTU 40/20	40	0,5	20	1,0	25	white	UDRS-D40-1-K01
						yellow	UDRS-D40-1-K05
						yellow-green	UDRS-D40-1-K52
						green	UDRS-D40-1-K06
						red	UDRS-D40-1-K04
						blue	UDRS-D40-1-K07
						black	UDRS-D40-1-K02
Shrink tube TTU 45/22,5	45	0,5	22,5	1,0	20	white	UDRS-D45-1-K01
						yellow	UDRS-D45-1-K05
						yellow-green	UDRS-D45-1-K52
						green	UDRS-D45-1-K06
						red	UDRS-D45-1-K04
						blue	UDRS-D45-1-K07
						black	UDRS-D45-1-K02
Shrink tube TTU 5/2,5	5	0,35	2,5	0,55	50	white	UDRS-D5-1-K01
						yellow	UDRS-D5-1-K05
						yellow-green	UDRS-D5-1-K52
						green	UDRS-D5-1-K06
						red	UDRS-D5-1-K04
						blue	UDRS-D5-1-K07
						black	UDRS-D5-1-K02
Shrink tube TTU 50/25	50	0,5	25	1,0	20	white	UDRS-D50-1-K01
						yellow	UDRS-D50-1-K05
						yellow-green	UDRS-D50-1-K52
						green	UDRS-D50-1-K06
						red	UDRS-D50-1-K04
						blue	UDRS-D50-1-K07
						black	UDRS-D50-1-K02
Shrink tube TTU 6/3	6	0,35	3	0,55	50	white	UDRS-D6-1-K01
						yellow	UDRS-D6-1-K05
						yellow-green	UDRS-D6-1-K52
						green	UDRS-D6-1-K06
						red	UDRS-D6-1-K04
						blue	UDRS-D6-1-K07
						black	UDRS-D6-1-K02
Shrink tube TTU 60/30	60	0,6	30	1,2	10	white	UDRS-D60-1-K01
						yellow	UDRS-D60-1-K05
						yellow-green	UDRS-D60-1-K52
						green	UDRS-D60-1-K06
						red	UDRS-D60-1-K04
						blue	UDRS-D60-1-K07
						black	UDRS-D60-1-K02
Shrink tube TTU 8/4	8	0,35	4	0,55	50	white	UDRS-D8-1-K01
						yellow	UDRS-D8-1-K05
						yellow-green	UDRS-D8-1-K52
						green	UDRS-D8-1-K06
						red	UDRS-D8-1-K04
						blue	UDRS-D8-1-K07
						black	UDRS-D8-1-K02

TTU 2:1 heat-shrink tubes (in sets)

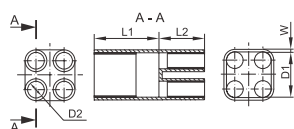


Description	Before shrinkage		After shrinkage		Length, cm	Package qty, pcs.	Color	Product ID
	D, mm	S, mm	D1, mm	S1, mm				
TTU set 2/1, 4/2, 6/3, 8/4 (Y, BU, R, BK, W)	2	0,25	1	0,45	8	20	yellow (4 pcs.) blue (4 pcs.) red (4 pcs.) black (4 pcs.) white (4 pcs.)	UDRS-D2-D8-10-2
	4	0,25	2	0,45				
	6	0,35	3	0,55				
	8	0,35	4	0,55				
TTU set 2/1, 4/2, 6/3, 8/4 (Y-G, BU, R, BK, W)	2	0,25	1	0,45	8	20	yellow/green (4 pcs.) blue (4 pcs.) red (4 pcs.) black (4 pcs.) white (4 pcs.)	UDRS-D2-D8-10-1
	4	0,25	2	0,45				
	6	0,35	3	0,55				
	8	0,35	4	0,55				
TTU set 2/1, 4/2, 6/3, 8/4 (G, BU, R, BK, W)	2	0,25	1	0,45	8	20	green (4 pcs.) blue (4 pcs.) red (4 pcs.) black (4 pcs.) white (4 pcs.)	UDRS-D2-D8-10-3
	4	0,25	2	0,45				
	6	0,35	3	0,55				
	8	0,35	4	0,55				
TTU set 8/4, 10/5, 12/6, 14/7 (Y, BU, R, BK, W)	8	0,35	4	0,55	8	20	yellow (4 pcs.) blue (4 pcs.) red (4 pcs.) black (4 pcs.) white (4 pcs.)	UDRS-D8-D14-10-2
	10	0,35	5	0,6				
	12	0,35	6	0,7				
	14	0,35	7	0,7				
TTU set 8/4, 10/5, 12/6, 14/7 (Y-G, BU, R, BK, W)	8	0,35	4	0,55	8	20	yellow/green (4 pcs.) blue (4 pcs.) red (4 pcs.) black (4 pcs.) white (4 pcs.)	UDRS-D8-D14-10-1
	10	0,35	5	0,6				
	12	0,35	6	0,7				
	14	0,35	7	0,7				
TTU set 8/4, 10/5, 12/6, 14/7 (G, BU, R, BK, W)	8	0,35	4	0,55	8	20	green (4 pcs.) blue (4 pcs.) red (4 pcs.) black (4 pcs.) white (4 pcs.)	UDRS-D2-D8-10-3
	10	0,35	5	0,6				
	12	0,35	6	0,7				
	14	0,35	7	0,7				
TTU set 4/2 (4×BK, 2×W, R, BU, Y, G)	4	0,25	2	0,45	10	10	black (4 pcs.) white (2 pcs.) red (1 pc.) blue (1 pc.) yellow (1 pc.) green (1 pc.)	UDRS-D2-D4-10-10
TTU set 6/3 (4×BK, 2×W, R, BU, Y, G)	6	0,35	3	0,55	10	10	black (4 pcs.) white (2 pcs.) red (1 pc.) blue (1 pc.) yellow (1 pc.) green (1 pc.)	UDRS-D3-D6-10-10
TTU set 8/4 (4×BK, 2×W, R, BU, Y, G)	8	0,35	4	0,55	10	10	black (4 pcs.) white (2 pcs.) red (1 pc.) blue (1 pc.) yellow (1 pc.) green (1 pc.)	UDRS-D4-D8-10-10

PTk heat-shrink multiple cable joints with adhesive layer

Designed for sealing of termination roots of multi-core power cables with paper oil-impregnated insulation, plastic insulation, cross-linked polyethylene insulation. Inner surfaces of base and branches of multiple cable joint are coated with adhesive thermomelting layer that ensures perfect sealing after shrinkage.

Depending on number of cable cores, the joints can be of 2-, 3-, 4- and 5-branch type.



Material	heat-shrink polymer
Material properties	halogen-free, chemically and UV-resistant
Heat shrinkage temperature, °C	120
Range of operating temperatures, °C	-45...+110
Shrinkage ratio	3:1
Color	black

	Name	No. of branches, pcs.	D1 before/ after shrinkage, mm	D2, before/ after shrinkage, mm	W, mm	L1, mm	L2, mm	Qty in group package, pcs.	Product ID
	PTk 2×16-50	2	34/12	14/4	2,4	65	20	10	UMS-CB2-3412-1404-1KV
	PTk 2×25-120	2	45/15	18/6	2,4	80	30	1	UMS-CB2-4515-1806-1KV
	PTk 2×70-240	2	60/23	25/8	2,5	80	38	1	UMS-CB2-6023-2508-1KV
	PTk 3×16-25	3	38/15	14/4	2,7	68	22	1	UMS-CB3-3815-1404-1KV
	PTk 3×35-120	3	60/20	25/8	3	105	45	1	UMS-CB3-6020-2508-1KV
	PTk 3×150-240	3	80/38	35/12	3,5	125	45	1	UMS-CB3-8038-3512-1KV
	PTk 4×16-50	4	40/15	14/4	2	75	20	1	UMS-CB4-4015-1404-1KV
	PTk 4×35-50	4	55/21	20/6	3,1	100	35	1	UMS-CB4-5521-2006-1KV
	PTk 4×70-120	4	75/26	28/9	3,3	120	40	1	UMS-CB4-7526-2809-1KV
	PTk 4×150-240	4	90/35	32/11	4	120	50	1	UMS-CB3-9035-3211-1KV
	PTk 5×16-35	5	40/19	13/4	2	70	20	1	UMS-CB5-4019-1304-1KV
	PTk 5×35-50	5	55/24	18/5	3	90	30	1	UMS-CB5-5524-1805-1KV
	PTk 5×70-120	5	80/33	26/9	3	120	40	1	UMS-CB5-8033-2609-1KV
	PTk 5×150-240	5	100/42	34/11	3	125	50	1	UMS-CB5-10042-3411-1KV

Heat-shrink tubes with adhesive layer

Designed for sealing and insulation of all types of connections of power cables with paper oil-impregnated insulation, plastic insulation, cross-linked polyethylene insulation.

Inner surfaces of base and branches of multiple cable joint are coated with adhesive thermomelting layer that ensures perfect sealing after shrinkage



Material	heat-shrink polymer
Material properties	halogen-free, chemically and UV-resistant
Heat shrinkage temperature, °C	120
Range of operating temperatures, °C	-45...+110
Shrinkage ratio	4:1
Color	black

	Name	Length, m	D, mm	d, mm	W, mm	Qty in group package, pcs.	Product ID
	Thick-wall heat-shrink tubes of type TTK						
	TTK 12/3	1	12	3	1,8	25	UMR-A3-12-3-41-K02
	TTK 15/4	1	15	4	2,4	50	UMR-A3-15-4-41-K02
	TTK 22/6	1	22	6	2,7	10	UMR-A3-22-6-41-K02
	TTK 33/8	1	33	8	3,2	10	UMR-A3-33-8-41-K02
	TTK 45/12	1	40	12	4,1	10	UMR-A3-40-12-41-K02
	TTK 55/16	1	55	16	4,1	5	UMR-A3-55-16-41-K02
	TTK 65/19	1	65	19	4,3	5	UMR-A3-65-19-41-K02
	Medium-wall heat-shrink tubes of type STTK						
	STTK 75/22	1	75	22	3,0	4	UMR-A2-75-22-31-K02
	STTK 95/25	1	95	25	3,1	4	UMR-A2-95-25-31-K02
	STTK 115/34	1	115	34	3,1	3	UMR-A2-115-34-31-K02
	STTK 140/42	1	140	42	3,1	2	UMR-A2-140-42-31-K02

TTSh heat-shrink tubes for buses

Designed for insulation of copper and aluminum buses on electrical substations and in switchgears. They allow for considerable shortening of distances between the phase buses and smaller sizes of equipment. The tubes protect the electrical buses from chemical corrosion. They are featured by improved elasticity and flexibility.



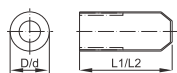
Material
Material properties
Heat shrinkage temperature, °C
Range of operating temperatures, °C
Shrinkage ratio
Color

heat-shrink polymer
tracking resistant, halogen-free, chemically and UV-resistant
110
-45...+110
2.5:1
red

	Name	Length, m	D, mm	d, mm	W, mm	Qty in group package, pcs.	Product ID
	Medium-wall tubes for voltages up to 10 kV						
	TTShs 19/6 10 kV	1	19	6	2,6	15	UMB-T10-19-6-25-1-K04
	TTShs 25/10 10 kV	1	25	10	3,0	15	UMB-T10-25-10-25-1-K04
	TTShs 30/12 10 kV	1	30	12	3,0	15	UMB-T10-30-12-25-1-K04
	TTShs 40/16 10 kV	1	40	16	3,0	15	UMB-T10-40-16-25-1-K04
	TTShs 50/20 10 kV	1	50	20	3,0	15	UMB-T10-50-20-25-1-K04
	TTShs 65/25 10 kV	1	65	25	3,0	15	UMB-T10-65-25-25-1-K04
	TTShs 75/30 10 kV	1	75	30	3,0	15	UMB-T10-75-30-25-1-K04
	TTShs 85/35 10 kV	1	85	35	3,0	15	UMB-T10-85-35-25-1-K04
	TTShs 100/40 10 kV	1	100	40	3,0	3	UMB-T10-100-40-25-1-K04
	TTShs 120/50 10 kV	1	120	50	3,0	3	UMB-T10-120-50-25-1-K04
	Thick-wall tubes for voltages up to 35 kV						
	TTSh 25/10 35 kV	1	25	10	4,0	15	UMB-TH35-25-10-25-1-K04
	TTSh 40/16 35 kV	1	40	16	4,0	15	UMB-TH35-40-16-25-1-K04
	TTSh 55/16 35 kV	1	55	16	4,0	15	UMB-TH35-55-16-25-1-K04
	TTSh 65/25 35 kV	1	65	25	4,0	10	UMB-TH35-65-25-25-1-K04
	TTSh 75/25 35 kV	1	75	25	4,0	8	UMB-TH35-75-25-25-1-K04
	TTSh 95/30 35 kV	1	95	30	4,0	6	UMB-TH35-95-30-25-1-K04
	TTSh 120/40 35 kV	1	120	40	4,0	4	UMB-TH35-120-40-25-1-K04
	TTSh 180/58 35 kV	1	180	58	4,0	2	UMB-TH35-180-58-25-1-K04

KTk heat-shrink caps with adhesive layer

They are used for sealing of ends of power cables with paper oil-impregnated insulation, plastic insulation and cross-linked polyethylene insulation, steel and polyethylene pipes. Inner surface of the cap is coated with adhesive thermomelting layer that ensures perfect sealing after shrinkage.



Material
Material properties
Heat shrinkage temperature, °C
Range of operating temperatures, °C
Shrinkage ratio
Color

heat-shrink polymer
halogen-free, chemically and UV-resistant
120
-45...+110
3:1
black

	Name	Diameter before/ after shrinkage D/d, mm	L1/L2, mm	Qty in group package, pcs.	Product ID
	KTk 12/4 35 kV	12/4	45/40	50	UMR-SM-1505-35KV
	KTk 22/8 35 kV	22/8	22/8	20	UMR-SM-2208-35KV
	KTk 35/15 35 kV	35/15	92/85	5	UMR-SM-3515-35KV
	KTk 55/25 35 kV	55/25	120/105	1	UMR-SM-5525-35KV
	KTk 75/35 35 kV	75/35	135/120	1	UMR-SM-7535-35KV
	KTk 100/45 35 kV	100/45	170/160	1	UMR-SM-10045-35KV
	KTk 130/60 35 kV	130/60	180/160	1	UMR-SM-13060-35KV

Cable markers

MK cable markers

The cable markers of MK series are made from flexible, non-combustible PVC and have a hole for conductor.
The cable markers of MK series should be put on a conductor prior to its termination or connection.



Operating temperature, °C	-40...+85
Color	yellow, black
Shape of cross-section	circular
Cross-section area, mm ²	1.5; 2.5; 4; 6; 10
Marking, digits	0 to 9, N, A, B, C

Description	Conductor cross-section, mm ²	Package qty, pcs.	Product ID	Description	Conductor cross-section, mm ²	Package qty, pcs.	Product ID
MK0 - 1.5 mm symbol "0"	up to 1.5	1000	UMK00-0	MK2 - 4 mm symbol "7"	2,0-4,0	500	UMK20-7
MK0 - 1.5 mm symbol "1"	up to 1.5	1000	UMK00-1	MK2 - 4 mm symbol "8"	2,0-4,0	500	UMK20-8
MK0 - 1.5 mm symbol "2"	up to 1.5	1000	UMK00-2	MK2 - 4 mm symbol "9"	2,0-4,0	500	UMK20-9
MK0 - 1.5 mm symbol "3"	up to 1.5	1000	UMK00-3	MK2 - 4 mm symbol "N"	2,0-4,0	500	UMK20-N
MK0 - 1.5 mm symbol "4"	up to 1.5	1000	UMK00-4	MK2 - 4 mm symbol "A"	2,0-4,0	500	UMK20-A
MK0 - 1.5 mm symbol "5"	up to 1.5	1000	UMK00-5	MK2 - 4 mm symbol "B"	2,0-4,0	500	UMK20-B
MK0 - 1.5 mm symbol "6"	up to 1.5	1000	UMK00-6	MK2 - 4 mm symbol "C"	2,0-4,0	500	UMK20-C
MK0 - 1.5 mm symbol "7"	up to 1.5	1000	UMK00-7	MK3 - 6 mm symbol "0"	3,0-6,0	350	UMK30-0
MK0 - 1.5 mm symbol "8"	up to 1.5	1000	UMK00-8	MK3 - 6 mm symbol "1"	3,0-6,0	350	UMK30-1
MK0 - 1.5 mm symbol "9"	up to 1.5	1000	UMK00-9	MK3 - 6 mm symbol "2"	3,0-6,0	350	UMK30-2
MK0 - 1.5 mm symbol "N"	up to 1.5	1000	UMK00-N	MK3 - 6 mm symbol "3"	3,0-6,0	350	UMK30-3
MK0 - 1.5 mm symbol "A"	up to 1.5	1000	UMK00-A	MK3 - 6 mm symbol "4"	3,0-6,0	350	UMK30-4
MK0 - 1.5 mm symbol "B"	up to 1.5	1000	UMK00-B	MK3 - 6 mm symbol "5"	3,0-6,0	350	UMK30-5
MK0 - 1.5 mm symbol "C"	up to 1.5	1000	UMK00-C	MK3 - 6 mm symbol "6"	3,0-6,0	350	UMK30-6
MK1 - 2.5 mm symbol "0"	1,0-2,5	1000	UMK10-0	MK3 - 6 mm symbol "7"	3,0-6,0	350	UMK30-7
MK1 - 2.5 mm symbol "1"	1,0-2,5	1000	UMK10-1	MK3 - 6 mm symbol "8"	3,0-6,0	350	UMK30-8
MK1 - 2.5 mm symbol "2"	1,0-2,5	1000	UMK10-2	MK3 - 6 mm symbol "9"	3,0-6,0	350	UMK30-9
MK1 - 2.5 mm symbol "3"	1,0-2,5	1000	UMK10-3	MK3 - 6 mm symbol "N"	3,0-6,0	350	UMK30-N
MK1 - 2.5 mm symbol "4"	1,0-2,5	1000	UMK10-4	MK3 - 6 mm symbol "A"	3,0-6,0	350	UMK30-A
MK1 - 2.5 mm symbol "5"	1,0-2,5	1000	UMK10-5	MK3 - 6 mm symbol "B"	3,0-6,0	350	UMK30-B
MK1 - 2.5 mm symbol "6"	1,0-2,5	1000	UMK10-6	MK3 - 6 mm symbol "C"	3,0-6,0	350	UMK30-C
MK1 - 2.5 mm symbol "7"	1,0-2,5	1000	UMK10-7	MK3 - 10 mm symbol "0"	3,0-10,0	180	UMK40-0
MK1 - 2.5 mm symbol "8"	1,0-2,5	1000	UMK10-8	MK3 - 10 mm symbol "1"	3,0-10,0	180	UMK40-1
MK1 - 2.5 mm symbol "9"	1,0-2,5	1000	UMK10-9	MK3 - 10 mm symbol "2"	3,0-10,0	180	UMK40-2
MK1 - 2.5 mm symbol "N"	1,0-2,5	1000	UMK10-N	MK3 - 10 mm symbol "3"	3,0-10,0	180	UMK40-3
MK1 - 2.5 mm symbol "A"	1,0-2,5	1000	UMK10-A	MK3 - 10 mm symbol "4"	3,0-10,0	180	UMK40-4
MK1 - 2.5 mm symbol "B"	1,0-2,5	1000	UMK10-B	MK3 - 10 mm symbol "5"	3,0-10,0	180	UMK40-5
MK1 - 2.5 mm symbol "C"	1,0-2,5	1000	UMK10-C	MK3 - 10 mm symbol "6"	3,0-10,0	180	UMK40-6
MK2 - 4 mm symbol "0"	2,0-4,0	500	UMK20-0	MK3 - 10 mm symbol "7"	3,0-10,0	180	UMK40-7
MK2 - 4 mm symbol "1"	2,0-4,0	500	UMK20-1	MK3 - 10 mm symbol "8"	3,0-10,0	180	UMK40-8
MK2 - 4 mm symbol "2"	2,0-4,0	500	UMK20-2	MK3 - 10 mm symbol "9"	3,0-10,0	180	UMK40-9
MK2 - 4 mm symbol "3"	2,0-4,0	500	UMK20-3	MK3 - 10 mm symbol "N"	3,0-10,0	180	UMK40-N
MK2 - 4 mm symbol "4"	2,0-4,0	500	UMK20-4	MK3 - 10 mm symbol "A"	3,0-10,0	180	UMK40-A
MK2 - 4 mm symbol "5"	2,0-4,0	500	UMK20-5	MK3 - 10 mm symbol "B"	3,0-10,0	180	UMK40-B
MK2 - 4 mm symbol "6"	2,0-4,0	500	UMK20-6	MK3 - 10 mm symbol "C"	3,0-10,0	180	UMK40-C

MKN cable markers



The cable markers of MKN series can be placed during installation of wiring, also after conductor termination and connection.

Provided grooves allow for use of long letterings for wire markings. The MKN cable markers during operation can withstand temperatures within range from minus 30 to plus 70°C. The MKN cable markers must be installed at temperatures within operating range from minus 10±2°C to plus 50±2°C.

Description	Conductor cross-section, mm ²	Conductor diameter, mm	Package qty, pcs.	Product ID	Description	Conductor cross-section, mm ²	Conductor diameter, mm	Package qty, pcs.	Product ID
MKN set of digits "0-9"	1,5	3-3,7	10x15	UMK01-02-09	MKN "7" violet	1,5	3-3,7	1500	UMK01-02-7
MKN set of digits "0-9"	2,5	3,9-4,3	10x10	UMK02-02-09	MKN "7" violet	2,5	3,9-4,3	1000	UMK02-02-7
MKN set of digits "0-9"	4	4,0-6,0	10x10	UMK04-02-09	MKN "7" violet	4	4,0-6,0	1000	UMK04-02-7
MKN set of digits "0-9"	6	6,0-10,0	10x10	UMK06-02-09	MKN "7" violet	6	6,0-10,0	1000	UMK06-02-7
MKN "0" black	1,5	3-3,7	1500	UMK01-02-0	MKN "8" grey	1,5	3-3,7	1500	UMK01-02-8
MKN "0" black	2,5	3,9-4,3	1000	UMK02-02-0	MKN "8" grey	2,5	3,9-4,3	1000	UMK02-02-8
MKN "0" black	4	4,0-6,0	1000	UMK04-02-0	MKN "8" grey	4	4,0-6,0	1000	UMK04-02-8
MKN "0" black	6	6,0-10,0	1000	UMK06-02-0	MKN "8" grey	6	6,0-10,0	1000	UMK06-02-8
MKN "1" brown	1,5	3-3,7	1500	UMK01-02-1	MKN "9" white	1,5	3-3,7	1500	UMK01-02-9
MKN "1" brown	2,5	3,9-4,3	1000	UMK02-02-1	MKN "9" white	2,5	3,9-4,3	1000	UMK02-02-9
MKN "1" brown	4	4,0-6,0	1000	UMK04-02-1	MKN "9" white	4	4,0-6,0	1000	UMK04-02-9
MKN "1" brown	6	6,0-10,0	1000	UMK06-02-1	MKN "9" white	6	6,0-10,0	1000	UMK06-02-9
MKN "2" red	1,5	3-3,7	1500	UMK01-02-2	MKN "A" yellow	1,5	3-3,7	1500	UMK01-02-A
MKN "2" red	2,5	3,9-4,3	1000	UMK02-02-2	MKN "A" yellow	2,5	3,9-4,3	1000	UMK02-02-A
MKN "2" red	4	4,0-6,0	1000	UMK04-02-2	MKN "A" yellow	4	4,0-6,0	1000	UMK04-02-A
MKN "2" red	6	6,0-10,0	1000	UMK06-02-2	MKN "A" yellow	6	6,0-10,0	1000	UMK06-02-A
MKN "3" orange	1,5	3-3,7	1500	UMK01-02-3	MKN "B" yellow	1,5	3-3,7	1500	UMK01-02-B
MKN "3" orange	2,5	3,9-4,3	1000	UMK02-02-3	MKN "B" yellow	2,5	3,9-4,3	1000	UMK02-02-B
MKN "3" orange	4	4,0-6,0	1000	UMK04-02-3	MKN "B" yellow	4	4,0-6,0	1000	UMK04-02-B
MKN "3" orange	6	6,0-10,0	1000	UMK06-02-3	MKN "B" yellow	6	6,0-10,0	1000	UMK06-02-B
MKN "4" yellow	1,5	3-3,7	1500	UMK01-02-4	MKN "C" yellow	1,5	3-3,7	1500	UMK01-02-C
MKN "4" yellow	2,5	3,9-4,3	1000	UMK02-02-4	MKN "C" yellow	2,5	3,9-4,3	1000	UMK02-02-C
MKN "4" yellow	4	4,0-6,0	1000	UMK04-02-4	MKN "C" yellow	4	4,0-6,0	1000	UMK04-02-C
MKN "4" yellow	6	6,0-10,0	1000	UMK06-02-4	MKN "C" yellow	6	6,0-10,0	1000	UMK06-02-C
MKN "5" green	1,5	3-3,7	1500	UMK01-02-5	MKN "L" yellow	1,5	3-3,7	1500	UMK01-02-L
MKN "5" green	2,5	3,9-4,3	1000	UMK02-02-5	MKN "L" yellow	2,5	3,9-4,3	1000	UMK02-02-L
MKN "5" green	4	4,0-6,0	1000	UMK04-02-5	MKN "L" yellow	4	4,0-6,0	1000	UMK04-02-L
MKN "5" green	6	6,0-10,0	1000	UMK06-02-5	MKN "L" yellow	6	6,0-10,0	1000	UMK06-02-L
MKN "6" blue	1,5	3-3,7	1500	UMK01-02-6	MKN "N" yellow	1,5	3-3,7	1500	UMK01-02-N
MKN "6" blue	2,5	3,9-4,3	1000	UMK02-02-6	MKN "N" yellow	2,5	3,9-4,3	1000	UMK02-02-N
MKN "6" blue	4	4,0-6,0	1000	UMK04-02-6	MKN "N" yellow	4	4,0-6,0	1000	UMK04-02-N
MKN "6" blue	6	6,0-10,0	1000	UMK06-02-6	MKN "N" yellow	6	6,0-10,0	1000	UMK06-02-N

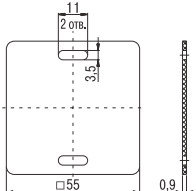
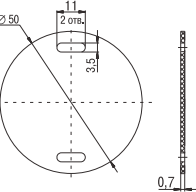
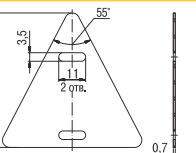
Cable tags

U-134 identification tags are intended for marking and easy identification of power cables up to 1 kV. The tags of U-135 series serves for marking of power cables over 1 kV. The control cables are marked with tags of U-136 series.

Information on all tags can be written and preserved using not only indelible marker but also usual pen or pencil. If desired, the tag surface can be easily cleaned for application of stickers.

The new products proved their excellence during field tests under conditions of frost.



Overall dimensions		Name	Shape	Dimensions, mm	Application	Package qty, pcs.	Product ID
  		U-134	square	55×55	Power cable up to 1 kV	100	UZMA-BIK-Y134-S
		U-135	circular	50	Power cable over 1 kV	100	UZMA-BIK-Y135-R
		U-136	triangle	55×55×55	Control cable	100	UZMA-BIK-Y136-T

Electrical tape

Electrical tapes are applied when performing industrial, constructional and domestic works for electrical insulation. IEK® brand electrical tape is made on the basis of PVC. It is used as an insulation material. Electrical tape ensures air-tightness, protection from attack of moisture, salt, poor solvents etc.

The range includes electrical tape of seven different colors: white, red, blue, yellow, green, black and yellow-green. Each roll length: 20 m; width: 15 or 19 mm; thickness: 0,15 or 0,18 mm.

	Name	Multiple package amount	Transport package amount	Product ID
	High quality electrical tape			
	Electrical tape 0,18×19 mm, white, 20 m, IEK	10	200	UIZ-20-10-K01
	Electrical tape 0,18×19 mm, yellow, 20 m, IEK	10	200	UIZ-20-10-K05
	Electrical tape 0,18×19 mm, yellow-green, 20 m, IEK	10	200	UIZ-20-10-K52
	Electrical tape 0,18×19 mm, green, 20 m, IEK	10	200	UIZ-20-10-K06
	Electrical tape 0,18×19 mm, red, 20 m, IEK	10	200	UIZ-20-10-K04
	Electrical tape 0,18×19 mm, blue, 20 m, IEK	10	200	UIZ-20-10-K07
	Electrical tape 0,18×19 mm, black, 20 m, IEK	10	200	UIZ-20-10-K02
	General application electrical tape			
	Electrical tape 0,13×15 mm, white, 20 m, IEK	10	200	UIZ-13-10-K01
	Electrical tape 0,13×15 mm, yellow, 20 m, IEK	10	200	UIZ-13-10-K05
	Electrical tape 0,13×15 mm, yellow-green, 20 m, IEK	10	200	UIZ-13-10-K52
	Electrical tape 0,13×15 mm, green, 20 m, IEK	10	200	UIZ-13-10-K06
	Electrical tape 0,13×15 mm, red, 20 m, IEK	10	200	UIZ-13-10-K04
	Electrical tape 0,13×15 mm, blue, 20 m, IEK	10	200	UIZ-13-10-K07
	Electrical tape 0,13×15 mm, black, 20 m, IEK	10	200	UIZ-13-10-K02
	Electrical tape 0,13×15 mm white 10 m IEK	10	500	UIZ-13-10-10M-K01
	Electrical tape 0,13×15 mm yellow 10 m IEK	10	500	UIZ-13-10-10M-K05
	Electrical tape 0,13×15 mm yellow-green 10 m IEK	10	500	UIZ-13-10-10M-K52
	Electrical tape 0,13×15 mm green 10 m IEK	10	500	UIZ-13-10-10M-K06
	Electrical tape 0,13×15 mm red 10 m IEK	10	500	UIZ-13-10-10M-K04
	Electrical tape 0,13×15 mm blue 10 m IEK	10	500	UIZ-13-10-10M-K07
	Electrical tape 0,13×15 mm black 10 m IEK	10	500	UIZ-13-10-10M-K02

PPD constant force springs

The PPD springs are designed for connection of grounding bar to metal sheath and armor bands of cables. They allow for quick and reliable installation of grounding wire to lead or aluminum cable sheath, avoiding possible risk of insulation damage under sheath when using grade "A" brazing alloy. The springs ensure constant radial pressing force after completion of mounting.

They are made from high-quality stainless steel AISI 301 with high content of chromium and nickel.

Material: stainless steel AISI 301 (15H17N7).

Material properties: high plasticity, corrosion resistance.

Number of coils: 7 pcs.



Description	Max. diameter, mm	Min. diameter, mm	Thickness, mm	Width, mm	Weight, kg	Qty in group package, pcs.	Product ID
PPD D13-22 0.18x15x7	13	22	0,18	15	0,006	39	UPPD-D13-22-18-15-7
PPD D18-30 0.25x15x7	18	30	0,25	15	0,013	44	UPPD-D18-30-25-15-7
PPD D25-40 0.3x15x7	25	40	0,3	15	0,019	42	UPPD-D25-40-30-15-7
PPD D32-50 0.3x15x7	32	50	0,3	15	0,023	48	UPPD-D32-50-30-15-7
PPD D35-60 0.4x20x7	35	60	0,4	20	0,048	35	UPPD-D35-60-40-20-7
PPD D42-70 0.5x20x7	42	70	0,5	20	0,071	22	UPPD-D42-70-50-20-7
PPD D50-90 0.5x20x7	50	90	0,5	20	0,085	17	UPPD-D50-90-50-20-7

PML grounding buses

Designed for use as grounding outputs of sheath and armor in end cable sleeves and jumpers in coupling cable sleeves.

Due to minimum thickness of copper wire and braided construction, the bus has increased flexibility and perfectly suits for installation of cable sleeves.

The grounding buses can be manufactured of tailored lengths by order and be terminated with terminals for screws.

Material: tinned copper

Terminal hole diameter: 8 mm



Description	Cross-section area, mm ²	Length, m	Weight, kg	Package qty, pcs.	Product ID
PML16 bus 0.8 m with terminal	16	0,8	0,142	1	UZMA-PML16-800JG
PML16 bus 1.0 m	16	1,0	0,167	1	UZMA-PML16-1000
PML25 bus 0.8 m with terminal	25	0,8	0,214	1	UZMA-PML25-800JG
PML25 bus 1.0 m	25	1,0	0,217	1	UZMA-PML25-1000

Tools

Presses for power cable terminals

Hydraulic presses

The hydraulic presses provide for making mechanical connections of types "cable core–ferrule" or "cable core–terminal" using mechanical crimping process. The presses are completed with changeable dies designed for different core sizes.

The hydraulic presses make the crimping process much easier since they require lesser efforts than mechanical ones.

It is recommended to use them with power cable terminals and ferrules of types DTL, DL, DT, JG, GL (p. 664, 665) and NG terminals/ferrules (p. 673).

	Name	Crimping profile	Crimping die size, mm ²	Weight, kg	Product ID
	PGR-70		4, 6, 8, 10, 16, 25, 35, 50, 70	2,8/3,4	TKL10-001
	PGR-120		16, 25, 35, 50, 70, 95, 120	4,0/7,8	TKL10-002
	PGR-240		16, 25, 35, 50, 70, 95, 120, 150, 185, 240	5,2/6,4	TKL10-003
	PGR-300		10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300	6,3/7,6	TKL10-004
	PGRs-70		4, 6, 8, 10, 16, 25, 35, 50, 70	2,8/3,4	TKL10-001
	PGRs-120		16, 25, 35, 50, 70, 95, 120	4,0/7,8	TKL10-002
	PGRs-240		16, 25, 35, 50, 70, 95, 120, 150, 185, 240	5,2/6,4	TKL10-003
	PGRs-300		10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300	6,3/7,6	TKL10-004
	PGR-150M		16–35, 50–70, 95–120, 150	3,5/6,5	TKL10-006
	PGR-150MK		16–35, 50–70, 95–120, 150	4,6/7,6	TKL10-005
	PGRK-300		16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300	3,5/8,0	TKL10-009
	PGRK1-300		16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300	6,8/10,1	TKL10-010

	Name	Crimping profile	Crimping die size, mm ²	Weight, kg	Product ID
	PGRK-400		50, 70, 95, 120, 150, 185, 240, 300, 400	8,3/12,3	TKL10-008
	PGRK-430		50, 70, 95, 120, 150, 185, 240, 300, 400	6,4/8,2	TKL10-007
	PGU		16, 25, 35, 50, 75, 95, 120, 150, 185, 240	5	UZA-41-0021
	PGR-400N		16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300, 400	14,5/19,0	TKL10-011
Heads for connection to hydraulic presses					
	PG-50-400		50, 70, 95, 120, 150, 185, 240, 300, 400	5,7/10,7	TKL10-012
	PG-630		150, 185, 240, 300, 400, 500, 630	16,0/24,8	TKL10-013
	PG-1000		400, 500, 630, 800, 1000	32,2/50,2	TKL10-014

Mechanic press tools

Mechanic press tools are applied for creating mechanical connections of “cable core-sleeve end” and “cable core-connector” type with the help of mechanical crimping. Press tools are made according to various kinematic diagrams: rotating matrices, exchangeable hexagon matrices, exchangeable dot patterns.

It recommended to use them with power cable terminals and end sleeves DTL, DL, DT, JG, GL (page 664, 665) and NG terminal-end sleeves (page 673).

	Name	Crimping profile	Crimped matrix sizes, mm ²	Weight, kg	Product ID
	Manual mechanic press tool PMR 16-120		6, 10, 16, 25, 35, 50	3,8/4,1	TKL10-015
	Manual mechanic press tool PMR 6-50		25, 35, 50, 70, 95, 120, 150	1,6/1,7	TKL10-016
	Manual mechanic press tool PMR 150		10, 16, 25, 35, 50, 70, 95, 120	3,2/3,5	TKL10-017
	Manual mechanic press tool PMR 230		10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240	4,1/4,3	TKL10-018
	Manual mechanic press tool PMR 240		16, 25, 35, 50, 70, 95, 120, 150, 185, 240	4,7/8,3	TKL10-019
	Manual mechanic press tool PMR 300		16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300	4,0/6,8	TKL10-020

Crimp pliers

The crimp pliers are designed for crimping the main types and sizes of insulated terminals like NVI, NKI, Rplp, Rplm, Rplo, Rshlp, Rshlm and ferrules of type E, NGI-2, NG. The jaws of KO-1 and KO-2 crimp pliers have identification color markings corresponding to color of insulating sleeve of the terminal to be used: red, blue and yellow.

The jaws of KO-05E, KO-06E and KO-07E crimp pliers have markings corresponding to cross-section of the terminal or connector to be used.

The crimpers are made from hardened steel (3 mm thick), have ratchet mechanism, convenient handles, precisely fitted up dies and special gadget enabling the crimper release from any position.

Ergonomic design, small size and weight, reliability and easy handling make work with these crimp pliers not only quick and convenient, but also comfortable.

Recommended for use IEK® terminals, couplers, connectors: NKI, NVI, Rplp, Rplm, Rplo, Rshlp, Rshlm, Nklsh, Nplsh, NGI-2 (ferrule of type E), NGI (ferrule of type E), NG (p. 669–673).

	Name	Crimping profile	Terminal type	Conductor cross-section, mm ²	Product ID
	KO-01		Insulated terminals and connectors	0,5–1,5; 1,5–2,5; 4–6	TKL10-D15-006
	KO-02		Insulated terminals and connectors	0,5–1,5; 1,5–2,5	TKL10-D05-025
	KO-05E		Ferrule	0,5/0,75; 1/1,5; 2,5; 4; 6	TKL20-D05-006
	KO-06E		Ferrule	6; 10; 16	TKL20-006-016
	KO-07E		Ferrule	10; 16; 25; 35	TKL20-010-035
	KO-03E		Ferrule	6,0 ÷ 16,0	TKL20-D4
	KO-04E		Ferrule	0,5 ÷ 6,0	TKL10-D4
	KO-08E		Ferrule	0,5 ÷ 6,0	TKL10-D6

Perforators for sheet metal

Perforators for sheet metal are designed for making holes in distribution cabinets that are necessary for mounting of measuring instruments, controls and command apparatuses. Each tool is completed with dies enabling making the holes of diameter 22.5 to 61.5 mm in metal sheets up to 3.5 mm thick.

	Name	Complete with dies for holes of diameters, mm	Weight	Product ID
	PGPv-60	Ø22,5; 28,3; 34,6; 49,6; 61,5	3,3	TGP-3-060
	PGPn-60	Ø22,5; 28,3; 34,6; 49,6; 61,5	4,4	TGP-4-060

Hydraulic pumps

The pumps are used for connection with hydraulic systems and serve for supplying actuators with working pressure. IEK® hydraulic pumps are fitted with unified quick-detachable connectors that allow for system connection and disconnection without leaks of hydraulic fluid.

	Description	Product ID
	NGR-700 IEK manual hydraulic pump	TKL10-057
	NGRn-700 IEK foot-operated hydraulic pump	TKL10-087
	NGE IEK electrohydraulic pump	TKL10-075

Tools for works with electrical buses

The equipment for work with copper current-carrying buses is intended for assembling works. Bus cutting, bending and perforating equipment operates using external pumps.

	Description	Product ID
	PGGSh-150 IEK bending press for electrical buses	TPG-3-150
	PGPSH-95 IEK perforating press for electrical buses	TPG-1-095
	PGRSh-150 IEK cutting press for electrical buses	TPG-2-150

Cable cutting tools

The cutting tools for cables with plastic and paper insulation is made from free-cutting tool steel. Special configuration of blades allows working safely and quickly. It is featured by high stability and low weight. The segment shears are fitted with ratchet mechanism, extendable handles, cutting lock. The locking mechanism design allows for the blade reverse motion that is necessary when foreign objects are seized in the shears. Extremely high cutting performance of the tools is ensured by optimum design of the shears and cutting blades of special shape.

Mechanical shears	Name	Cable parameters	Weight, kg	Product ID
	 NS-240	Cu Al 240 mm ²	1,45	TLK10-240
	NK-250	Cu 185 mm ² Al 240 mm ²	0,75	TLK10-250
	NS-300	Cu Al 300 mm ²	1,00	TLK10-300
	NS-325	Cu Al 320 mm ²	0,60	TLK10-320
	NS-380	Cu Al 380 mm ²	0,93	TLK10-380
	NS-520	Cu Al 400 mm ²	0,80	TLK10-520
	NS-760	Cu Al 500 mm ²	1,25	TLK10-760
	NS-765	Cu Al 400 mm ²	0,82	TLK10-760
Hydraulic shears				
	NG-40	Cu Al 800 mm ²	5,2	TLK10-40
	NG-50	Cu Al 1500 mm ²	7,1	TLK10-50

Stripping tools

The tools allow for quick stripping of wires and cables of various sizes, without damage to current conductors.

	Name	Functions	Weight, kg	Product ID
	AS 0,18-6	- wire cutting - insulation stripping - can be used for single- and multi-core wires with cross-section 0.18-6 mm ² - force regulator	0,15	TFS-D3
	SOK-5	- insulation stripping - can be used for cables of diameter over 20 mm - stripping depth up to 5 mm	0,15	TPG-5

Hand tools

The characteristic feature of hand tools for electrical installation works is ensuring safety for users working near live conductors or parts. Dielectric tools IEK® of PROFI and EXPERT series are tested according to national and international standards. Safety of works at voltage under 1000 V is guaranteed by total testing of all dielectric tools for breakdown strength at 10,000 V (i.e. breakdown strength is verified by test at the voltage exceeding the claimed proof value in 10 times).



PROFI and EXPERT series are certified according to international quality standards VDE.

Appropriate marking on the tool handles indicates to this fact.

Screwdrivers

A screwdriver is a manual tool designed for screwing and unscrewing of threaded fasteners, heads of which have slots (grooves). The screwdrivers are widely used in all fields.

	Bit type		Slot size × screwdriver length	Product ID
MASTER universal series				
	PH	⊕	0×75	TSC-1PH-075
	PH	⊕	1×100	TSC-1PH-1100
	PH	⊕	2×100	TSC-1PH-2100
	PH	⊕	2×150	TSC-1PH-2150
	PH	⊕	2×38	TSC-1PH-238
	PH	⊕	3×150	TSC-1PH-3150
	PZ	⊗	0×75	TSC-1PZ-075
	PZ	⊗	1×100	TSC-1PZ-1100
	PZ	⊗	2×100	TSC-1PZ-2100
	PZ	⊗	3×150	TSC-1PZ-3150
	SL	⊖	3×75	TSC-1SL-375
	SL	⊖	4×100	TSC-1SL-4100
	SL	⊖	5×125	TSC-1SL-5125
	SL	⊖	6×125	TSC-1SL-6125
	SL	⊖	6×150	TSC-1SL-6150
	SL	⊖	6×38	TSC-1SL-638
	SL	⊖	8×150	TSC-1SL-8150
PROFI dielectric series				
	PH	⊕	0×75	TSC-3PH-075
	PH	⊕	1×80	TSC-3PH-180
	PH	⊕	2×100	TSC-3PH-2100
	SL	⊖	4×100	TSC-3SL-4100
	SL	⊖	5,5×125	TSC-3SL-5125
	SL	⊖	6,5×150	TSC-3SL-6150
EXPERT dielectric series				
	PH	⊕	0×60	TSC-2PH-060
	PH	⊕	1×80	TSC-2PH-180
	PH	⊕	2×100	TSC-2PH-2100
	PH	⊕	3×150	TSC-2PH-3150
	PZ	⊗	1×80	TSC-2PZ-180
	PZ	⊗	2×100	TSC-2PZ-2100
	SL	⊖	2,5×0,4×75	TSC-2SL-275
	SL	⊖	4,0×0,8×100	TSC-2SL-4100
	SL	⊖	5,5×1,0×125	TSC-2SL-5125
	SL	⊖	6,5×1,2×150	TSC-2SL-6150

Joint pliers

Combination pliers are fitter's multifunctional hand tools intended for gripping and clamping of parts of various shapes.

Nippers are a cutting tool using a lever principle to decrease an effort required for material cutting.

	Description	Product ID
	Combination pliers EXPERT 160 mm 1000 V IEK	TPL-2-160
	Combination pliers EXPERT 180 mm 1000 V IEK	TPL-2-180
	Combination pliers EXPERT 200 mm 1000 V IEK	TPL-2-200
	Combination pliers PROFI 160 mm 1000 V IEK	TPL-3-160
	Combination pliers PROFI 180 mm 1000 V IEK	TPL-3-180
	Combination pliers PROFI 200 mm 1000 V IEK	TPL-3-200
Nippers		
	Side nippers EXPERT 160 mm 1000 V IEK	TCP-2-160
	Side nippers PROFI 160 mm 1000 V IEK	TCP-3-160

Test screwdrivers

OP-1 and OP-2e are modern and efficient devices of new generation that can quickly and safely check the following parameters: AC and DC voltage, polarity, circuit integrity.

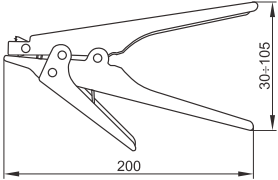
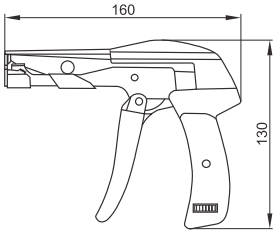
	Description	Product ID
	OP-1 test screwdriver	TPR10
	OP-2e test screwdriver (electronic)	TPR20

Technical characteristics

Description	Range of operating temperatures, °C	Mains operating frequency, Hz	Testable parameters					Product ID
			AC voltage, V	DC voltage, V	Polarity, V (DC)	Circuit integrity, MOhm	Indication of electromagnetic power density, mW/cm ²	
OP-1 test screwdriver	-10 ÷ +50	50 ÷ 500	contact method 70 ÷ 250; contactless method 70 ÷ 600	—	1,5–36	0–50	> 5	TPR10
OP-2e test screwdriver (electronic)	-10 ÷ +50	50 ÷ 500	contact method 70 ÷ 250; contactless method 70 ÷ 10,000	up to 250	1,2–36	«0» = 0–5 «L» = 0–50 «H» = 0–100	«L» = 5 «H» = 2	TPR20

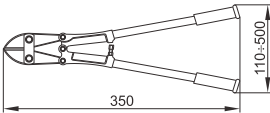
Tools for ties

PKH cable tie tensioning guns of brand IEK® are designed for quick and secure tensioning and cutting of cable ties. The following IEK® nylon cable ties are recommended for use: HOK, HP, HA, HM, HD and ties for LED panels (p. 683–685).

	Overall dimensions	Name	Tightened clamps width, mm	Product ID
		Guns for clamp tightening and cutting PKH-519	2,3÷9,5	THS10-W9 0
		Guns for clamp tightening and cutting PKH-600A	2,2÷4,8	THS10-W4 8

Bolt cutting pliers

Bolt cutting pliers are intended for cutting fittings, steel rods, wires, cables, nails, bolts etc. Special construction of cutter head provides for cutting rigid materials with little effort. KPL-14 IEK® bolt cutting pliers are ideal for mounting cable trays, creating a necessary bend radius when rotating the tray, changing the tray width, their T-shape connection etc. It is acceptable to apply the pliers for cutting cores of aluminum and copper wires when they are not under voltage.

	Overall dimensions	Name	Product ID
		Bolt cutting pliers KPL-14	TKK10-D14

Technical Features

Feature	KPL-14
Cutting bit durability, HRCe	55
Weight, kg	0,95
Max. cut cable diameter, mm	10
Max. section of cut cables, mm²	70
Max. durability of cut cables, HRCe	30

Multimeters and current clamps

The multimeters are combined electrical measuring instruments with several functions (as minimum set, functionality of voltmeter, ammeter and ohmmeter is provided).

The current clamps allow for contactless measurements of currents with high accuracy, without interrupting current supply to consumers. IEK® digital multimeters and current clamps meet requirements of GOST R 52319 (IEC 61010-1) for instruments safety and GOST R 51522.1 (IEC 61326-1), GOST R 51522.2.2 (IEC 61326-2-2) for EMC.



Advantages

- Well-balanced range of products that satisfies demands of both professionals and amateurs.
- Enhanced set of accessories ensures that instrument is ready for work right after purchase.
- Check of measurement accuracy.
- 1-year warranty.

Technical characteristics

Maximum display value	number 1999, with automatic polarity detection
Measurement method	double-integration ADC
Measurement time	2-3 measurements per second
Overload indication	digit "1" on LCD-display
Indication of empty battery	yes
Overload current protection	fuse
Safety category according to GOST R 52319 (IEC 61010-1)	CAT II 600 V
Housing insulation	double, class 2
Degree of protection acc. to GOST 14254	IP20
Operating temperature	0 to +40°C at relative humidity not more than 80%
	Altitude above sea level up to 2000 m
Supply voltage	9 V (battery of type Krona (NEDA 1604, 6F22), except for COMPACT series)

Design features



The multimeters of all series are completed with measurement probes of professional quality. Safety category: CAT II 600 V.

Wire connections are featured by improved reliability that extend probe service life in several times.



The multimeters and current clamps of all series are completed with original 9-volt battery of type Krona. The battery is located outside of the instrument, therefore storage period does not result in its discharge.

Exception: COMPACT series. Supply voltage 12 V, battery type "23 A".



The multimeters of series MASTER and PROFESSIONAL are completed with rubber boot protecting the instrument from damage in case of falling. Folding foot of the boot allows for convenient installation of the instrument during measurement.



The current clamps of EXPERT series are supplied with handy protective bag.



Attractive package design is developed for multimeters of UNIVERSAL, MASTER and COMPACT series that are highly demanded in retail distribution. The blister can be conveniently suspended on sales facilities with hooks.



Measurement instruments of PROFESSIONAL and EXPERT series are intended mainly for professional use and packed in the boxes that are suitable for shipping and storage.

Products' range

	Description	Overall dimensions, mm	Weight (with battery), g	Product ID
UNIVERSAL series				
	Digital multimeter Universal M830B IEK	126×70×24	150	TMD-2B-830
	Digital multimeter Universal M832 IEK	126×70×24	150	TMD-2S-832
	Digital multimeter Universal M838 IEK	126×70×24	150	TMD-2S-838
MASTER series				
	Digital multimeter Master MAS830L IEK	138×69×31	160	TMD-3L-830
	Digital multimeter Master MAS838L IEK	138×69×31	160	TMD-3L-838
COMPACT series				
	Digital multimeter Compact M182 IEK	100×50×20	60	TMD-1S-182
PROFESSIONAL series				
	Digital multimeter Professional MY61 IEK	189×91×31,5	310	TMD-5S-061
	Digital multimeter Professional MY62 IEK	189×91×31,5	310	TMD-5S-062
	Digital multimeter Professional MY63 IEK	189×91×31,5	310	TMD-5S-063
	Digital multimeter Professional MY64 IEK	189×91×31,5	310	TMD-5S-064
EXPERT series				
	Current clamps Expert 266 IEK	230×90×37	320	TCM-1S-266
	Current clamps Expert 266C IEK	230×90×37	320	TCM-1C-266
	Current clamps Expert 266F IEK	230×90×37	320	TCM-1F-266

Technical characteristics

UNIVERSAL series

Functions	Range	Accuracy	Model		
			M830B	M832	M838
Direct voltage (DCV)	200 mV	$\pm 1,2\% \pm 2$ counts	+	+	+
	2000 mV				
	20 V				
	200 V				
	1000 V				
Alternating voltage (ACV)	200 V	$\pm 1,2\% \pm 10$ counts	+	+	+
	750 V				
Direct current (DCA)	200 μ A	$\pm 2,0\% \pm 2$ counts	+	—	—
	2000 μ A				
	20 mA				
	200 mA				
	10 A				
Electrical resistance (Ω)	200 Ω	$\pm 1,0\% \pm 2$ counts	+	+	+
	2 K Ω				
	20 K Ω				
	200 K Ω				
	2 M Ω				
Diode test ($\rightarrow$)	2,8 B/1 mA	—	+	+	+
Transistor test (hFE)	0-1000	—	+	+	+
Continuity test with sound («»)	—	—	—	+	+
Temperature measurement ($^{\circ}$ C)	-20 ÷ 1370	$\pm 1,5\% \pm 2$ counts	—	—	+
Generation of signals 50 Hz, meander ($\neg$)	—	—	—	+	—

MASTER series

Functions	Range	Accuracy	Model	
			MAS830L	MAS838L
Direct voltage (DCV)	200 mV	$\pm 0,8\% \pm 2$ counts	+	+
	2 V			
	20 V			
	200 V			
	600 V			
Alternating voltage (ACV)	200 V	$\pm 2,0\% \pm 10$ counts	+	+
	600 V			
Direct current (DCA)	200 μ A	$\pm 2,0\% \pm 2$ counts	+	—
	2 mA			
	20 mA			
	200 mA			
	10 A			
Electrical resistance (Ω)	200 Ω	$\pm 5,0\% \pm 1$ counts	+	+
	2 K Ω			
	20 K Ω			
	200 K Ω			
	2 M Ω			
Diode test ($\rightarrow$)	2,8B/1mA	—	+	+
Transistor test (hFE)	0-1000	—	+	+
Continuity test with sound («»)	—	—	+	+
Temperature measurement ($^{\circ}$ C)	0 ÷ 750	$\pm 1,5\% \pm 3$ counts	—	+
Display backlighting (BACK LIGHT)	15 seconds	—	+	+
Data hold on screen (HOLD)	—	—	+	+
Protective case	—	—	+	+

COMPACT series

Functions	Range	Accuracy	Model
			M182
Direct voltage (DCV)	200 mV	$\pm 1,2\% \pm 2$ counts	+
	2000 mV		
	20 V		
	200 V		
	500 V		
Alternating voltage (ACV)	200 V	$\pm 1,2\% \pm 2$ counts	+
	500 V		
Direct current (DCA)	2 mA	$\pm 1,2\% \pm 2$ counts	+
	20 mA		
	200 mA		
Electrical resistance (Ω)	200 Ω	$\pm 1,0\% \pm 3$ counts	+
	2 K Ω		
	20 K Ω		
	200 K Ω		
	2 M Ω		
Diode test ()	2,8B/1mA	—	+
Transistor test (hFE)	0-1000	—	+
Continuity test with sound ()	—	—	+
Battery test	1,59V	—	+
Compact size			+

PROFESSIONAL series

Functions	Range	Accuracy	Model			
			MY61	MY62	MY63	MY64
Direct voltage (DCV)	200 mV	$\pm 1,0\% \pm 2$ counts	+	+	+	+
	2 V					
	20 V					
	200 V					
	600 V					
Alternating voltage (ACV)	200 mV	$\pm 1,2\% \pm 2$ counts	+	+	—	—
	2 V		+	+	+	+
	20 V					
	200 V					
	700 V					
Direct current (DCA)	2 mA	$\pm 2,0\% \pm 2$ counts	+	+	+	+
	20 mA					
	200 mA					
	10 A					
Alternating current (ACA)	2 mA	$\pm 2,5\% \pm 2$ counts	+	—	—	—
	20 mA		+	+	+	+
	200 mA					
	10 A					
Electrical resistance (Ω)	200 Ω	$\pm 5,0\% \pm 3$ counts	+	+	+	+
	2 K Ω					
	20 K Ω					
	200 K Ω					
	2 M Ω					
	20 M Ω					
	200 M Ω					
Capacitor capacitance	2 nF	$\pm 4,0\% \pm 3$ counts	+	+	+	+
	20 nF					
	200 nF					
	2 μ F					
	20 μ F					
Diode test ()	2,8 B/1mA	—	+	+	+	+
Transistor test (hFE)	0-1000	—	+	+	+	+
Continuity test with sound ()	—	—	+	+	+	+
Temperature measurement (°C)	0 ÷ 750	$\pm 1,5\% \pm 2$ counts	—	+	—	+
Frequency	2 kHz	$\pm 3,0\% \pm 1$ count	—	—	+	—
	20 kHz					
Automatic switching off	≥ 40 minutes	—	+	+	+	+

EXPERT series

Functions	Range	Accuracy	Model		
			266	266C	266F
Direct voltage (DCV)	200 mV	$\pm 1,0\% \pm 1$ count	—	+	—
	2 V				+
	20 V				
	200 V				
	1000 V		+		
Alternating voltage (ACV)	200 V	$\pm 1,2\% \pm 1$ count	—	+	+
	750 V		+		
Direct current (DCA)	20 A	$\pm 2,5\% \pm 1$ count	—	+	—
	200 A		+		+
	1 kA				
Electrical resistance	200 Ω	$\pm 1,0\% \pm 1$ count	+	+	+
	2 k Ω		—	—	
	20 k Ω		+	+	
	200 k Ω		—	—	
	2 M Ω		—	+	
Frequency	2,8 B/1 mA	$\pm 3,0\% \pm 1$ count	—	—	+
Continuity test with sound («))	—	—	+	+	+
Temperature measurement (°C, °F)	0 ÷ 750 °C	$\pm 1,5\% \pm 3$ counts	—	+	—
	32 ÷ 1382 °F				
Data hold on screen (DATA HOLD)	—	—	+	+	+
Connection of DT261 insulation resistance meter	—	—	+	+	+
Clamps gap	50 mm	—	+	+	+



11 Electrical machines

Three-phase AC induction motors of DRIVE series	712
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Three-phase AC induction motors of DRIVE series

The induction motors are widely used in numerous fields: processing and extractive industries, construction and communal services, power engineering and transport.

The electrical motors are indispensable devices used in fans, pumps, conveyors, processing machine-tools, mixers, handling mechanisms, shutters and gates, compressors, etc.



Advantages

- Bearings featured by improved reliability, manufactured by NSK (Japan).
- Three-stage quality control.
- Cooling by fan on the motor shaft.
- Full compliance with GOST 51689.
- Winding material: electrical grade copper.
- Material of frame and bearing shields of size 80 and higher: cast iron.
- 3-year warranty

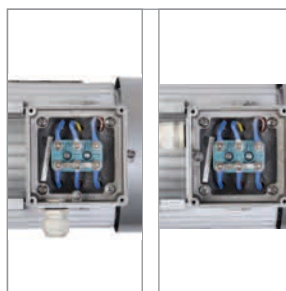
Technical characteristics

Frequency of supply voltage, Hz	50
Degree of protection according to GOST 17494 (IEC 34-5-81)	IP55
Insulation class acc. to GOST 8865	F
Type of working cycle acc. to GOST 28173	S1

Design features



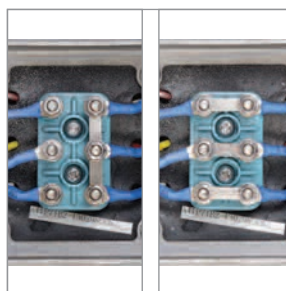
The motors are fitted with the most reliable bearings made by NSK (Japan), world leader in this sector.



For purpose of convenience during installation, the terminal box can be turned relative to the motor frame.



Insulation class F according to GOST 8865.



Depending on mains voltage, jumpers on terminal board can be placed as follows:

- for delta connection "Δ"
- for wye connection "Y"



Cooling reliability is ensured by the motor cooling fan installed on the motor shaft. The fan housing is made from metal for good protection against mechanical damage.

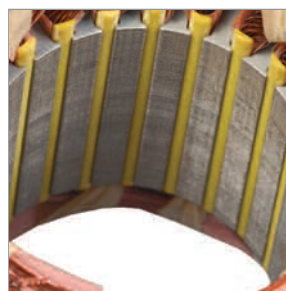


Degree of protection IP55 according to GOST 17494 (IEC 34-5-81).



According to GOST IEC 60034-7, the motors are offered in the following versions:

- IM1081 – feet,
- IM2081 – combined,
- IM3081 – flange.



The stator core is made from high-quality cold-rolled steel.



Material of frame and bearing shields of size 80 and higher: cast iron.

Products' range

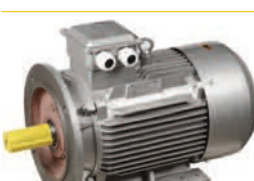
Mounting version IM1081 (feet)

	Description	Power, kW	Speed, RPM	Voltage, V	Weight, kg	Product ID
	AIR 56A2 380 V 0.18 kW 3000 RPM 1081 DRIVE IEK	0,18	2700	220/380	5,7	DRV056-A2-000-2-3010
	AIR 56A4 380 V 0.12 kW 1500 RPM 1081 DRIVE IEK	0,12	1325	220/380	5,7	DRV056-A4-000-1-1510
	AIR 56B2 380 V 0.25 kW 3000 RPM 1081 DRIVE IEK	0,25	2720	220/380	6,2	DRV056-B2-000-3-3010
	AIR 56B4 380 V 0.18 kW 1500 RPM 1081 DRIVE IEK	0,18	1310	220/380	4,3	DRV056-B4-000-2-1510
	AIR 63A2 380 V 0.37 kW 3000 RPM 1081 DRIVE IEK	0,37	2730	220/380	9	DRV063-A2-000-4-3010
	AIR 63A4 380 V 0.25 kW 1500 RPM 1081 DRIVE IEK	0,25	1325	220/380	9	DRV063-A4-000-3-1510
	AIR 63A6 380 V 0.18 kW 1000 RPM 1081 DRIVE IEK	0,18	860	220/380	9,5	DRV063-A6-000-2-1010
	AIR 63B2 380 V 0.55 kW 3000 RPM 1081 DRIVE IEK	0,55	2770	220/380	9,5	DRV063-B2-000-5-3010
	AIR 63B4 380 V 0.37 kW 1500 RPM 1081 DRIVE IEK	0,37	1325	220/380	9,5	DRV063-B4-000-4-1510
	AIR 63B6 380 V 0.25 kW 1000 RPM 1081 DRIVE IEK	0,25	860	220/380	10	DRV063-B6-000-3-1010
	AIR 71A2 380 V 0.75 kW 3000 RPM 1081 DRIVE IEK	0,75	2820	220/380	11	DRV071-A2-000-8-3010
	AIR 71A4 380 V 0.55 kW 1500 RPM 1081 DRIVE IEK	0,55	1350	220/380	11	DRV071-A4-000-5-1510
	AIR 71A6 380 V 0.37 kW 1000 RPM 1081 DRIVE IEK	0,37	895	220/380	12	DRV071-A6-000-4-1010
	AIR 71A8 380 V 0.18 kW 750 RPM 1081 DRIVE IEK	0,18	690	220/380	12	DRV071-A8-000-2-0710
	AIR 71B2 380 V 1.1 kW 3000 RPM 1081 DRIVE IEK	1,1	2790	220/380	12	DRV071-B2-001-1-3010
	AIR 71B4 380 V 0.75 kW 1500 RPM 1081 DRIVE IEK	0,75	1360	220/380	12	DRV071-B4-000-7-1510
	AIR 71B6 380 V 0.55 kW 1000 RPM 1081 DRIVE IEK	0,55	895	220/380	12	DRV071-B6-000-5-1010
	AIR 71B8 380 V 0.18 kW 750 RPM 1081 DRIVE IEK	0,18	655	220/380	10	DRV071-B8-000-3-0710
	AIR 80A2 380 V 1.5 kW 3000 RPM 1081 DRIVE IEK	1,5	2830	220/380	16	DRV080-A2-001-5-3010
	AIR 80A4 380 V 1.1 kW 1500 RPM 1081 DRIVE IEK	1,1	1375	220/380	16	DRV080-A4-001-1-1510
	AIR 80A6 380 V 0.75 kW 1000 RPM 1081 DRIVE IEK	0,75	910	220/380	16	DRV080-A6-000-7-1010
	AIR 80A8 380 V 0.37 kW 750 RPM 1081 DRIVE IEK	0,37	675	220/380	18	DRV080-A8-000-4-0710
	AIR 80B2 380 V 2.2 kW 3000 RPM 1081 DRIVE IEK	2,2	2840	220/380	20	DRV080-B2-002-2-3010
	AIR 80B4 380 V 1.5 kW 1500 RPM 1081 DRIVE IEK	1,5	1390	220/380	20	DRV080-B4-001-5-1510
	AIR 80B6 380 V 1.1 kW 1000 RPM 1081 DRIVE IEK	1,1	910	220/380	20	DRV080-B6-001-1-1010
	AIR 80B8 380 V 0.55 kW 750 RPM 1081 DRIVE IEK	0,55	675	220/380	19	DRV080-B8-000-5-0710
	AIR 90L2 380 V 3 kW 3000 RPM 1081 DRIVE IEK	3	2840	220/380	17	DRV090-L2-003-0-3010
	AIR 90L4 380 V 2.2 kW 1500 RPM 1081 DRIVE IEK	2,2	1400	220/380	17,8	DRV090-L4-002-2-1510
	AIR 90L6 380 V 1.5 kW 1000 RPM 1081 DRIVE IEK	1,5	910	220/380	18,1	DRV090-L6-001-5-1010
	AIR 90LA8 380 V 0.75 kW 750 RPM 1081 DRIVE IEK	0,75	685	220/380	30	DRV090-L8-000-7-0710
	AIR 90LB8 380 V 1.1 kW 750 RPM 1081 DRIVE IEK	1,1	685	220/380	32	DRV090-B8-001-1-0710
	AIR 100L2 380 V 5.5 kW 3000 RPM 1081 DRIVE IEK	5,5	2870	220/380	34,3	DRV100-L2-005-5-3010
	AIR 100L4 380 V 4 kW 1500 RPM 1081 DRIVE IEK	4	1430	220/380	33,8	DRV100-L4-004-0-1510
	AIR 100L6 380 V 2.2 kW 1000 RPM 1081 DRIVE IEK	2,2	940	220/380	31	DRV100-L6-002-2-1010
	AIR 100L8 380 V 1.5 kW 750 RPM 1081 DRIVE IEK	1,5	690	220/380	49	DRV100-L8-001-5-0710
	AIR 100S2 380 V 4 kW 3000 RPM 1081 DRIVE IEK	4	2870	220/380	31,4	DRV100-S2-004-0-3010
	AIR 100S4 380 V 3 kW 1500 RPM 1081 DRIVE IEK	3	1430	220/380	31	DRV100-S4-003-0-1510
	AIR 112M2 380 V 7.5 kW 3000 RPM 1081 DRIVE IEK	7,5	2890	220/380	43,2	DRV112-M2-007-5-3010
	AIR 112M4 380 V 5.5 kW 1500 RPM 1081 DRIVE IEK	5,5	1440	220/380	42,6	DRV112-M4-005-5-1510
	AIR 112MA6 380 V 3 kW 1000 RPM 1081 DRIVE IEK	3	940	220/380	39,4	DRV112-M6-003-0-1010
	AIR 112MA8 380 V 2.2 kW 750 RPM 1081 DRIVE IEK	2,2	700	220/380	46	DRV112-M8-002-2-0710
	AIR 112MB6 380 V 4 kW 1000 RPM 1081 DRIVE IEK	4	935	220/380	52	DRV112-B6-004-0-1010
	AIR 112MB8 380 V 3 kW 750 RPM 1081 DRIVE IEK	3	700	220/380	53	DRV112-B8-003-0-0710
	AIR 132M2 380 V 11 kW 3000 RPM 1081 DRIVE IEK	11	2900	220/380	90	DRV132-M2-011-0-3010
	AIR 132M4 380 V 11 kW 1500 RPM 1081 DRIVE IEK	11	1450	220/380	91	DRV132-M4-011-0-1510
	AIR 132M6 380 V 7.5 kW 1000 RPM 1081 DRIVE IEK	7,5	960	220/380	78	DRV132-M6-007-5-1010
	AIR 132M8 380 V 5.5 kW 750 RPM 1081 DRIVE IEK	5,5	715	220/380	86	DRV132-M8-005-5-0710
	AIR 132S4 380 V 7.5 kW 1500 RPM 1081 DRIVE IEK	7,5	1440	220/380	80	DRV132-S4-007-5-1510
	AIR 132S6 380 V 5.5 kW 1000 RPM 1081 DRIVE IEK	5,5	960	220/380	71	DRV132-S6-005-5-1010
	AIR 132S8 380 V 4 kW 750 RPM 1081 DRIVE IEK	4	715	220/380	92	DRV132-S8-004-0-0710

	Description	Power, kW	Speed, RPM	Voltage, V	Weight, kg	Product ID
	AIR 160M2 660 V 11 kW 3000 RPM 1081 DRIVE IEK	18,5	2930	380/660	106	DRV160-M2-018-5-3010
	AIR 160M4 660 V 18.5 kW 1500 RPM 1081 DRIVE IEK	18,5	1460	380/660	128	DRV160-M4-018-5-1510
	AIR 160M6 660 V 15 kW 1000 RPM 1081 DRIVE IEK	15	970	380/660	122	DRV160-M6-015-0-1010
	AIR 160M8 660 V 11 kW 750 RPM 1081 DRIVE IEK	11	720	380/660	125	DRV160-M8-011-0-0710
	AIR 160S2 660 V 15 kW 3000 RPM 1081 DRIVE IEK	15	2940	380/660	101	DRV160-S2-015-0-3010
	AIR 160S4 660 V 15 kW 1500 RPM 1081 DRIVE IEK	15	1460	380/660	114	DRV160-S4-015-0-1510
	AIR 160S6 660 V 11 kW 1000 RPM 1081 DRIVE IEK	11	970	380/660	114	DRV160-S6-011-0-1010
	AIR 160S8 660 V 7.5 kW 750 RPM 1081 DRIVE IEK	7,5	720	380/660	108	DRV160-S8-007-5-0710
	AIR 180M2 660 V 30 kW 3000 RPM 1081 DRIVE IEK	30	2940	380/660	176	DRV180-M2-030-0-3010
	AIR 180M4 660 V 30 kW 1500 RPM 1081 DRIVE IEK	30	1470	380/660	200	DRV180-M4-030-0-1510
	AIR 180M6 660 V 18.5 kW 1000 RPM 1081 DRIVE IEK	18,5	970	380/660	186	DRV180-M6-018-5-1010
	AIR 180S4 660 V 22 kW 1500 RPM 1081 DRIVE IEK	22	1470	380/660	165	DRV180-S4-022-0-1510
	AIR 200M2 660 V 37 kW 3000 RPM 1081 DRIVE IEK	37	2950	380/660	221	DRV200-M2-037-0-3010
	AIR 200M4 660 V 37 kW 1500 RPM 1081 DRIVE IEK	37	1470	380/660	238	DRV200-M4-037-0-1510
	AIR 200M6 660 V 22 kW 1000 RPM 1081 DRIVE IEK	22	970	380/660	222	DRV200-M6-022-0-1010

Mounting version IM2081 (feet + flange)

	AIR 56A2 380 V 0.18 kW 3000 RPM 2081 DRIVE IEK	0,18	2700	220/380	5,9	DRV056-A2-000-2-3020
	AIR 56A4 380 V 0.12 kW 1500 RPM 2081 DRIVE IEK	0,12	1325	220/380	5,9	DRV056-A4-000-1-1520
	AIR 56B2 380 V 0.25 kW 3000 RPM 2081 DRIVE IEK	0,25	2720	220/380	6,4	DRV056-B2-000-3-3020
	AIR 56B4 380 V 0.18 kW 1500 RPM 2081 DRIVE IEK	0,18	1310	220/380	5,1	DRV056-B4-000-2-1520
	AIR 63A2 380 V 0.37 kW 3000 RPM 2081 DRIVE IEK	0,37	2730	220/380	9,4	DRV063-A2-000-4-3020
	AIR 63A4 380 V 0.25 kW 1500 RPM 2081 DRIVE IEK	0,25	1325	220/380	9,4	DRV063-A4-000-3-1520
	AIR 63A6 380 V 0.18 kW 1000 RPM 2081 DRIVE IEK	0,18	860	220/380	9,9	DRV063-A6-000-2-1020
	AIR 63B2 380 V 0.55 kW 3000 RPM 2081 DRIVE IEK	0,55	2770	220/380	9,9	DRV063-B2-000-5-3020
	AIR 63B4 380 V 0.37 kW 1500 RPM 2081 DRIVE IEK	0,37	1325	220/380	9,9	DRV063-B4-000-4-1520
	AIR 63B6 380 V 0.25 kW 1000 RPM 2081 DRIVE IEK	0,25	860	220/380	10	DRV063-B6-000-3-1020
	AIR 71A2 380 V 0.75 kW 3000 RPM 2081 DRIVE IEK	0,75	2820	220/380	11	DRV071-A2-000-8-3020
	AIR 71A4 380 V 0.55 kW 1500 RPM 2081 DRIVE IEK	0,55	1350	220/380	11	DRV071-A4-000-5-1520
	AIR 71A6 380 V 0.37 kW 1000 RPM 2081 DRIVE IEK	0,37	895	220/380	13	DRV071-A6-000-4-1020
	AIR 71A8 380 V 0.18 kW 750 RPM 2081 DRIVE IEK	0,18	690	220/380	13	DRV071-A8-000-2-0720
	AIR 71B2 380 V 1.1 kW 3000 RPM 2081 DRIVE IEK	1,1	2790	220/380	13	DRV071-B2-001-1-3020
	AIR 71B4 380 V 0.75 kW 1500 RPM 2081 DRIVE IEK	0,75	1360	220/380	12	DRV071-B4-000-7-1520
	AIR 71B6 380 V 0.55 kW 1000 RPM 2081 DRIVE IEK	0,55	895	220/380	13	DRV071-B6-000-5-1020
	AIR 71B8 380 V 0.18 kW 750 RPM 2081 DRIVE IEK	0,18	655	220/380	11	DRV071-B8-000-3-0720
	AIR 80A2 380 V 1.5 kW 3000 RPM 2081 DRIVE IEK	1,5	2830	220/380	16	DRV080-A2-001-5-3020
	AIR 80A4 380 V 1.1 kW 1500 RPM 2081 DRIVE IEK	1,1	1375	220/380	17	DRV080-A4-001-1-1520
	AIR 80A6 380 V 0.75 kW 1000 RPM 2081 DRIVE IEK	0,75	910	220/380	17	DRV080-A6-000-7-1020
	AIR 80A8 380 V 0.37 kW 750 RPM 2081 DRIVE IEK	0,37	675	220/380	19	DRV080-A8-000-4-0720
	AIR 80B2 380 V 2.2 kW 3000 RPM 2081 DRIVE IEK	2,2	2840	220/380	20	DRV080-B2-002-2-3020
	AIR 80B4 380 V 1.5 kW 1500 RPM 2081 DRIVE IEK	1,5	1390	220/380	20	DRV080-B4-001-5-1520
	AIR 80B6 380 V 1.1 kW 1000 RPM 2081 DRIVE IEK	1,1	910	220/380	21	DRV080-B6-001-1-1020
	AIR 80B8 380 V 0.55 kW 750 RPM 2081 DRIVE IEK	0,55	675	220/380	20	DRV080-B8-000-5-0720
	AIR 90L2 380 V 3 kW 3000 RPM 2081 DRIVE IEK	3	2840	220/380	21	DRV090-L2-003-0-3020
	AIR 90L4 380 V 2.2 kW 1500 RPM 2081 DRIVE IEK	2,2	1400	220/380	21,8	DRV090-L4-002-2-1520
	AIR 90L6 380 V 1.5 kW 1000 RPM 2081 DRIVE IEK	1,5	910	220/380	22,1	DRV090-L6-001-5-1020
	AIR 90LA8 380 V 0.75 kW 750 RPM 2081 DRIVE IEK	0,75	685	220/380	31	DRV090-L8-000-7-0720
	AIR 90LB8 380 V 1.1 kW 750 RPM 2081 DRIVE IEK	1,1	685	220/380	33	DRV090-B8-001-1-0720

	Description	Power, kW	Speed, RPM	Voltage, V	Weight, kg	Product ID
	AIR 100L2 380 V 5.5 kW 3000 RPM 2081 DRIVE IEK	5,5	2870	220/380	38,3	DRV100-L2-005-5-3020
	AIR 100L4 380 V 4 kW 1500 RPM 2081 DRIVE IEK	4	1430	220/380	37	DRV100-L4-004-0-1520
	AIR 100L6 380 V 2.2 kW 1000 RPM 2081 DRIVE IEK	2,2	940	220/380	38	DRV100-L6-002-2-1020
	AIR 100L8 380 V 1.5 kW 750 RPM 2081 DRIVE IEK	1,5	690	220/380	51	DRV100-L8-001-5-0720
	AIR 100S2 380 V 4 kW 3000 RPM 2081 DRIVE IEK	4	2870	220/380	35,4	DRV100-S2-004-0-3020
	AIR 100S4 380 V 3 kW 1500 RPM 2081 DRIVE IEK	3	1430	220/380	35	DRV100-S4-003-0-1520
	AIR 112M2 380 V 7.5 kW 3000 RPM 2081 DRIVE IEK	7,5	2890	220/380	48,2	DRV112-M2-007-5-3020
	AIR 112M4 380 V 5.5 kW 1500 RPM 2081 DRIVE IEK	5,5	1440	220/380	47,4	DRV112-M4-005-5-1520
	AIR 112MA6 380 V 3 kW 1000 RPM 2081 DRIVE IEK	3	940	220/380	40,4	DRV112-M6-003-0-1020
	AIR 112MA8 380 V 2.2 kW 750 RPM 2081 DRIVE IEK	2,2	700	220/380	48	DRV112-M8-002-2-0720
	AIR 112MB6 380 V 4 kW 1000 RPM 2081 DRIVE IEK	4	935	220/380	54	DRV112-B6-004-0-1020
	AIR 112MB8 380 V 3 kW 750 RPM 2081 DRIVE IEK	3	700	220/380	55	DRV112-B8-003-0-0720
	AIR 132M2 380 V 11 kW 3000 RPM 2081 DRIVE IEK	11	2900	220/380	94	DRV132-M2-011-0-3020
	AIR 132M4 380 V 11 kW 1500 RPM 2081 DRIVE IEK	11	1450	220/380	95	DRV132-M4-011-0-1520
	AIR 132M6 380 V 7.5 kW 1000 RPM 2081 DRIVE IEK	7,5	960	220/380	81	DRV132-M6-007-5-1020
	AIR 132M8 380 V 5.5 kW 750 RPM 2081 DRIVE IEK	5,5	715	220/380	89	DRV132-M8-005-5-0720
	AIR 132S4 380 V 7.5 kW 1500 RPM 2081 DRIVE IEK	7,5	1440	220/380	83	DRV132-S4-007-5-1520
	AIR 132S6 380 V 5.5 kW 1000 RPM 2081 DRIVE IEK	5,5	960	220/380	74	DRV132-S6-005-5-1020
	AIR 132S8 380 V 4 kW 750 RPM 2081 DRIVE IEK	4	715	220/380	96	DRV132-S8-004-0-0720
	AIR 160M2 660 V 11 kW 3000 RPM 2081 DRIVE IEK	18,5	2930	380/660	116	DRV160-M2-018-5-3020
	AIR 160M4 660 V 18.5 kW 1500 RPM 2081 DRIVE IEK	18,5	1460	380/660	138	DRV160-M4-018-5-1520
	AIR 160M6 660 V 15 kW 1000 RPM 2081 DRIVE IEK	15	970	380/660	132,5	DRV160-M6-015-0-1020
	AIR 160M8 660 V 11 kW 750 RPM 2081 DRIVE IEK	11	720	380/660	135	DRV160-M8-011-0-0720
	AIR 160S2 660 V 15 kW 3000 RPM 2081 DRIVE IEK	15	2940	380/660	111	DRV160-S2-015-0-3020
	AIR 160S4 660 V 15 kW 1500 RPM 2081 DRIVE IEK	15	1460	380/660	125	DRV160-S4-015-0-1520
	AIR 160S6 660 V 11 kW 1000 RPM 2081 DRIVE IEK	11	970	380/660	124	DRV160-S6-011-0-1020
	AIR 160S8 660 V 7.5 kW 750 RPM 2081 DRIVE IEK	7,5	720	380/660	118	DRV160-S8-007-5-0720
	AIR 180M2 660 V 30 kW 3000 RPM 2081 DRIVE IEK	30	2940	380/660	188	DRV180-M2-030-0-3020
	AIR 180M4 660 V 30 kW 1500 RPM 2081 DRIVE IEK	30	1470	380/660	212	DRV180-M4-030-0-1520
	AIR 180M6 660 V 18.5 kW 1000 RPM 2081 DRIVE IEK	18,5	970	380/660	198	DRV180-M6-018-5-1020
	AIR 180S4 660 V 22 kW 1500 RPM 2081 DRIVE IEK	22	1470	380/660	177	DRV180-S4-022-0-1520
	AIR 200M2 660 V 37 kW 3000 RPM 2081 DRIVE IEK	37	2950	380/660	235	DRV200-M2-037-0-3020
	AIR 200M4 660 V 37 kW 1500 RPM 2081 DRIVE IEK	37	1470	380/660	252	DRV200-M4-037-0-1520
	AIR 200M6 660 V 22 kW 1000 RPM 2081 DRIVE IEK	22	970	380/660	236	DRV200-M6-022-0-1020

Mounting version IM3081 (flange)

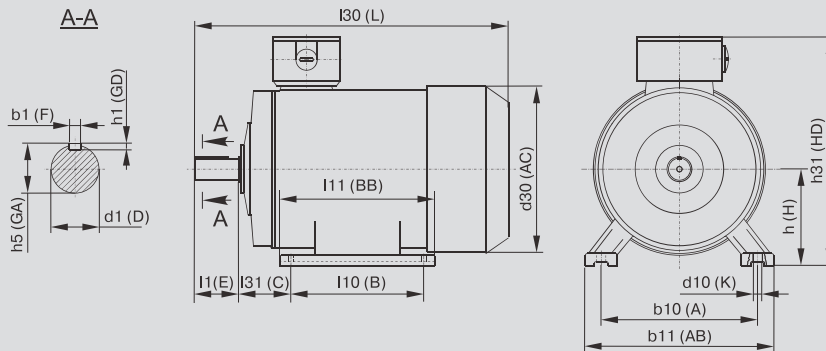
	Description	Power, kW	Speed, RPM	Voltage, V	Weight, kg	Product ID
	AIR 56A2 380 V 0.18 kW 3000 RPM 3081 DRIVE IEK	0,18	2700	220/380	5,9	DRV056-A2-000-2-3030
	AIR 56A4 380 V 0.12 kW 1500 RPM 3081 DRIVE IEK	0,12	1325	220/380	5,9	DRV056-A4-000-1-1530
	AIR 56B2 380 V 0.25 kW 3000 RPM 3081 DRIVE IEK	0,25	2720	220/380	6,4	DRV056-B2-000-3-3030
	AIR 56B4 380 V 0.18 kW 1500 RPM 3081 DRIVE IEK	0,18	1325	220/380	6,2	DRV056-B4-000-2-1530
	AIR 63A2 380 V 0.37 kW 3000 RPM 3081 DRIVE IEK	0,37	2730	220/380	9,3	DRV063-A2-000-4-3030
	AIR 63A4 380 V 0.25 kW 1500 RPM 3081 DRIVE IEK	0,25	1325	220/380	9,3	DRV063-A4-000-3-1530
	AIR 63A6 380 V 0.18 kW 1000 RPM 3081 DRIVE IEK	0,18	860	220/380	9,8	DRV063-A6-000-2-1030
	AIR 63B2 380 V 0.55 kW 3000 RPM 3081 DRIVE IEK	0,55	2770	220/380	9,8	DRV063-B2-000-5-3030
	AIR 63B4 380 V 0.37 kW 1500 RPM 3081 DRIVE IEK	0,37	1325	220/380	9,8	DRV063-B4-000-4-1530
	AIR 63B6 380 V 0.25 kW 1000 RPM 3081 DRIVE IEK	0,25	860	220/380	10	DRV063-B6-000-3-1030
	AIR 71A2 380 V 0.75 kW 3000 RPM 3081 DRIVE IEK	0,75	2820	220/380	11	DRV071-A2-000-8-3030
	AIR 71A4 380 V 0.55 kW 1500 RPM 3081 DRIVE IEK	0,55	1350	220/380	11	DRV071-A4-000-5-1530
	AIR 71A6 380 V 0.37 kW 1000 RPM 3081 DRIVE IEK	0,37	895	220/380	13	DRV071-A6-000-4-1030
	AIR 71A8 380 V 0.18 kW 750 RPM 3081 DRIVE IEK	0,18	690	220/380	13	DRV071-A8-000-2-0730
	AIR 71B2 380 V 1.1 kW 3000 RPM 3081 DRIVE IEK	1,1	2790	220/380	13	DRV071-B2-001-1-3030
	AIR 71B4 380 V 0.75 kW 1500 RPM 3081 DRIVE IEK	0,75	1360	220/380	12	DRV071-B4-000-7-1530
	AIR 71B6 380 V 0.55 kW 1000 RPM 3081 DRIVE IEK	0,55	895	220/380	13	DRV071-B6-000-5-1030
	AIR 71B8 380 V 0.18 kW 750 RPM 3081 DRIVE IEK	0,18	655	220/380	11	DRV071-B8-000-3-0730
	AIR 80A2 380 V 1.5 kW 3000 RPM 3081 DRIVE IEK	1,5	2830	220/380	16	DRV080-A2-001-5-3030
	AIR 80A4 380 V 1.1 kW 1500 RPM 3081 DRIVE IEK	1,1	1375	220/380	16	DRV080-A4-001-1-1530
	AIR 80A6 380 V 0.75 kW 1000 RPM 3081 DRIVE IEK	0,75	910	220/380	16	DRV080-A6-000-7-1030
	AIR 80A8 380 V 0.37 kW 750 RPM 3081 DRIVE IEK	0,37	675	220/380	19	DRV080-A8-000-4-0730
	AIR 80B2 380 V 2.2 kW 3000 RPM 3081 DRIVE IEK	2,2	2840	220/380	20	DRV080-B2-002-2-3030
	AIR 80B4 380 V 1.5 kW 1500 RPM 3081 DRIVE IEK	1,5	1390	220/380	20	DRV080-B4-001-5-1530
	AIR 80B6 380 V 1.1 kW 1000 RPM 3081 DRIVE IEK	1,1	910	220/380	21	DRV080-B6-001-1-1030
	AIR 80B8 380 V 0.55 kW 750 RPM 3081 DRIVE IEK	0,55	675	220/380	19	DRV080-B8-000-5-0730
	AIR 90L2 380 V 3 kW 3000 RPM 3081 DRIVE IEK	3	2845	220/380	22	DRV090-L2-003-0-3030
	AIR 90L4 380 V 2.2 kW 1500 RPM 3081 DRIVE IEK	2,2	1400	220/380	26	DRV090-L4-002-2-1530
	AIR 90L6 380 V 1.5 kW 1000 RPM 3081 DRIVE IEK	1,5	920	220/380	26	DRV090-L6-001-5-1030
	AIR 90LA8 380 V 0.75 kW 750 RPM 3081 DRIVE IEK	0,75	685	220/380	31	DRV090-L8-000-7-0730
	AIR 90LB8 380 V 1.1 kW 750 RPM 3081 DRIVE IEK	1,1	685	220/380	33	DRV090-B8-001-1-0730
	AIR 100L2 380 V 5.5 kW 3000 RPM 3081 DRIVE IEK	5,5	2870	220/380	35	DRV100-L2-005-5-3030
	AIR 100L4 380 V 4 kW 1500 RPM 3081 DRIVE IEK	4	1420	220/380	38	DRV100-L4-004-0-1530
	AIR 100L6 380 V 2.2 kW 1000 RPM 3081 DRIVE IEK	2,2	930	220/380	39	DRV100-L6-002-2-1030
	AIR 100L8 380 V 1.5 kW 750 RPM 3081 DRIVE IEK	1,5	690	220/380	51	DRV100-L8-001-5-0730
	AIR 100S2 380 V 4 kW 3000 RPM 3081 DRIVE IEK	4	2870	220/380	31	DRV100-S2-004-0-3030
	AIR 100S4 380 V 3 kW 1500 RPM 3081 DRIVE IEK	3	1420	220/380	35	DRV100-S4-003-0-1530
	AIR 112M2 380 V 7.5 kW 3000 RPM 3081 DRIVE IEK	7,5	2880	220/380	55	DRV112-M2-007-5-3030
	AIR 112M4 380 V 5.5 kW 1500 RPM 3081 DRIVE IEK	5,5	1430	220/380	57	DRV112-M4-005-5-1530
	AIR 112MA6 380 V 3 kW 1000 RPM 3081 DRIVE IEK	3	935	220/380	53	DRV112-M6-003-0-1030
	AIR 112MA8 380 V 2.2 kW 750 RPM 3081 DRIVE IEK	2,2	700	220/380	47	DRV112-M8-002-2-0730
	AIR 112MB6 380 V 4 kW 1000 RPM 3081 DRIVE IEK	4	935	220/380	54	DRV112-B6-004-0-1030
	AIR 112MB8 380 V 3 kW 750 RPM 3081 DRIVE IEK	3	700	220/380	55	DRV112-B8-003-0-0730
	AIR 132M2 380 V 11 kW 3000 RPM 3081 DRIVE IEK	11	2900	220/380	93	DRV132-M2-011-0-3030
	AIR 132M4 380 V 11 kW 1500 RPM 3081 DRIVE IEK	11	1450	220/380	94	DRV132-M4-011-0-1530
	AIR 132M6 380 V 7.5 kW 1000 RPM 3081 DRIVE IEK	7,5	960	220/380	80	DRV132-M6-007-5-1030
	AIR 132M8 380 V 5.5 kW 750 RPM 3081 DRIVE IEK	5,5	715	220/380	89	DRV132-M8-005-5-0730
	AIR 132S4 380 V 7.5 kW 1500 RPM 3081 DRIVE IEK	7,5	1440	220/380	82	DRV132-S4-007-5-1530
	AIR 132S6 380 V 5.5 kW 1000 RPM 3081 DRIVE IEK	5,5	960	220/380	73	DRV132-S6-005-5-1030
	AIR 132S8 380 V 4 kW 750 RPM 3081 DRIVE IEK	4	715	220/380	95	DRV132-S8-004-0-0730

Технические характеристики

№	Name	Pn, kW	I _n , A Δ/Y 220/380	n, RPM	U _n Δ/Y, V	Efficiency, %	Cos φ	M _m /M _n	M _p /M _n	I _p /I _n
1	AIR56A2	0,18	0,95/0,55	2700	220/380	65,7	0,77	2,2	2,2	5,3
2	AIR56A4	0,12	0,86/0,50	1325	220/380	56,5	0,66	2,2	2,1	4,6
3	AIR56B2	0,25	1,26/0,73	2720	220/380	68	0,78	2,2	2,2	5,3
4	AIR56B4	0,18	1,20/0,70	1325	220/380	61,2	0,68	2,2	2,1	4,9
5	AIR63A2	0,37	1,73/1,00	2730	220/380	69,7	0,81	2,2	2,2	5,7
6	AIR63A4	0,25	1,40/0,82	1325	220/380	64,5	0,73	2,2	2,1	5,1
7	AIR63A6	0,18	1,38/0,80	860	220/380	55,5	0,64	2	1,9	4,1
8	AIR63B2	0,55	2,40/1,40	2770	220/380	72,7	0,82	2,3	2,2	5,7
9	AIR63B4	0,37	1,93/1,12	1325	220/380	66,3	0,76	2,2	2,1	5,1
10	AIR63B6	0,25	1,90/1,10	860	220/380	58,3	0,65	2	1,9	4
11	AIR71A2	0,75	3,28/1,90	2820	220/380	74	0,83	2,3	2,2	6,1
12	AIR71A4	0,55	3,02/1,75	1350	220/380	70	0,73	2,3	2,2	5,4
13	AIR71A6	0,37	2,30/1,33	895	220/380	62,8	0,68	2	1,9	4,7
14	AIR71A8	0,18	1,68/0,97	690	220/380	55	0,65	1,8	1,5	4
15	AIR71B2	1,1	4,66/2,70	2790	220/380	77,6	0,83	2,3	2,2	6,7
16	AIR71B4	0,75	3,80/2,20	1360	220/380	71,3	0,77	2,3	2,2	5,7
17	AIR71B6	0,55	3,28/1,90	895	220/380	65,7	0,7	2	1,9	4,7
18	AIR71B8	0,25	2,02/1,17	655	220/380	54,5	0,6	1,9	1,8	3,7
19	AIR80A2	1,5	6,22/3,60	2830	220/380	78,1	0,84	2,3	2,2	7
20	AIR80A4	1,1	5,25/3,04	1375	220/380	74,5	0,76	2,3	2,3	5,8
21	AIR80A6	0,75	3,95/2,29	910	220/380	69	0,72	2,1	2	5,3
22	AIR80A8	0,37	2,59/1,50	675	220/380	60,1	0,62	1,9	1,8	4,3
23	AIR80B2	2,2	8,64/5,00	2840	220/380	80,6	0,85	2,3	2,2	7
24	AIR80B4	1,5	6,82/3,95	1390	220/380	77,5	0,78	2,3	2,3	6,2
25	AIR80B6	1,1	5,49/3,18	910	220/380	72,1	0,74	2,1	2	5,3
26	AIR80B8	0,55	3,76/2,18	675	220/380	62,9	0,62	2	1,8	4
27	AIR90L2	3	11,23/6,50	2845	220/380	83,4	0,86	2,3	2,2	7,2
28	AIR90L4	2,2	9,15/5,30	1400	220/380	80	0,81	2,3	2,3	6,8
29	AIR90L6	1,5	7,25/4,20	920	220/380	76	0,74	2,1	2	6
30	AIR90LA8	0,75	4,02/2,33	685	220/380	72,4	0,7	2	1,9	4
31	AIR90LB8	1,1	5,65/3,27	685	220/380	73	0,69	2	1,8	4
32	AIR100S2	4	14,51/8,40	2870	220/380	83,7	0,88	2,3	2,2	7,5
33	AIR100S4	3	12,43/7,20	1420	220/380	81,4	0,82	2,3	2,3	7
34	AIR100L2	5,5	19,00/11,00	2870	220/380	84,8	0,89	2,3	2,2	7,5
35	AIR100L4	4	16,06/9,30	1420	220/380	82,8	0,81	2,3	2,3	7
36	AIR100L6	2,2	10,19/5,90	930	220/380	77,1	0,76	2,1	2	6,3
37	AIR100L8	1,5	7,77/4,50	690	220/380	73,5	0,72	2	1,9	4,7
38	AIR112M2	7,5	26,25/15,20	2880	220/380	85,4	0,88	2,4	2,2	7,2
39	AIR112M4	5,5	21,24/12,30	1430	220/380	84,1	0,82	2,3	2,3	6,6
40	AIR112MA6	3	13,64/7,90	935	220/380	80,1	0,76	2,2	2,1	5,7
41	AIR112MB6	4	17,79/10,30	935	220/380	80,7	0,77	2,1	2,1	5,7
42	AIR112MA8	2,2	11,05/6,40	700	220/380	75,6	0,71	2,1	2	4,9
43	AIR112MB8	3	14,85/8,60	700	220/380	76,9	0,71	2,1	2	5
44	AIR132S4	7,5	27,80/16,10	1440	220/380	86	0,81	2,3	2,2	6,7
45	AIR132S6	5,5	23,14/13,40	960	220/380	82,8	0,78	2,1	2,1	6,3
46	AIR132S8	4	18,65/10,80	715	220/380	81,9	0,78	2,1	2,1	5,6
47	AIR132M2	11	37,65/21,80	2900	220/380	87,4	0,9	2,3	2,2	7,2
48	AIR132M4	11	39,89/23,10	1450	220/380	87,1	0,82	2,3	2,2	6,8
49	AIR132M6	7,5	29,70/17,20	960	220/380	84,1	0,8	2,2	2,1	6,2
50	AIR132M8	5,5	25,39/14,7	715	220/380	80,9	0,74	2,1	2,1	5,6
51	AIR160S2	15	30,0/17,3	2925	380/660	88,4	0,88	2,4	2,2	7,1
52	AIR160S4	15	30,8/17,8	1455	380/660	88,7	0,84	2,3	2,2	6,8
53	AIR160S6	11	24,6/14,2	970	380/660	86,8	0,79	2,2	2	6,3
54	AIR160S8	7,5	19,2/11,1	720	380/660	85,2	0,74	2,1	2	5,8
55	AIR160M2	18,5	36,3/21,0	2925	380/660	89,3	0,89	2,4	2,2	7,1
56	AIR160M4	18,5	37,8/21,9	1455	380/660	89,8	0,84	2,3	2,2	6,8
57	AIR160M6	15	33,0/19,1	970	380/660	88,2	0,81	2,2	2	6,5
58	AIR160M8	11	27,3/15,8	720	380/660	86,4	0,76	2,1	2	5,8
59	AIR180S4	22	44,4/25,7	1465	380/660	90,6	0,85	2,4	2,1	7
60	AIR180M2	30	56,9/32,9	2940	380/660	90,7	0,9	2,5	2,1	7,3
61	AIR180M4	30	59,6/34,5	1465	380/660	91,2	0,86	2,3	2,1	6,8
62	AIR180M6	18,5	39,0/22,5	970	380/660	88,9	0,82	2,1	2,1	6,6
63	AIR200M2	37	71,0/41,0	2940	380/660	91,2	0,89	2,4	2,1	7,1
64	AIR200M4	37	73,1/42,3	1470	380/660	92	0,86	2,3	2,2	7
65	AIR200M6	22	45,2/26,1	970	380/660	89,7	0,83	2,2	2,1	6,3

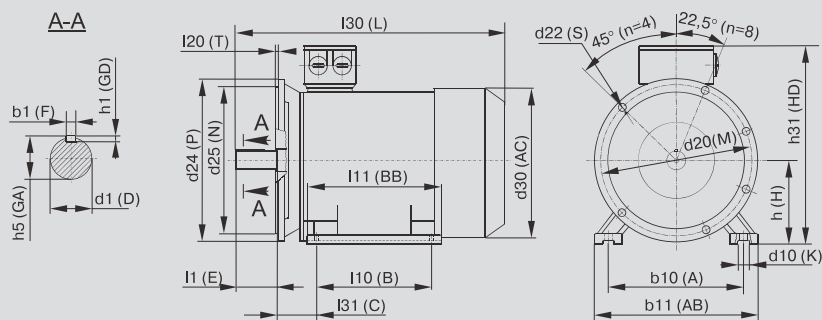
Overall, mounting and connection dimensions

Mounting version 1081



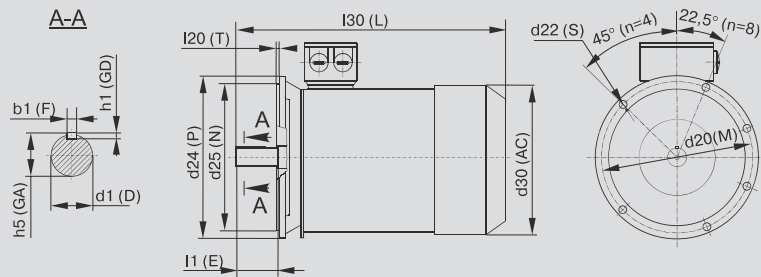
Type	No. of poles	Overall dimensions			Mounting and connection dimensions											
		I30	h31	d30	b10	b11	I10	I11	I31	d1	I1	b1	h5	h1	h	d10
		L	HD	AC	A	AB	B	BB	C	D	E	F	GA	GD	H	K
AIR56A	2, 4	210	150	120	90	110	71	90	36	11	23	4	12,5	4	56	5,8
AIR56B	2, 4	210	150	120	90	110	71	90	36	11	23	4	12,5	4	56	5,8
AIR63A	2, 4, 6	230	170	140	100	135	80	102	40	14	30	5	16	5	63	5,8
AIR63B	2, 4, 6	230	170	140	100	135	80	102	40	14	30	5	16	5	63	5,8
AIR71A	2, 4, 6	290	175	155	112	140	90	120	45	19	40	6	21,5	6	71	7
AIR71B	2, 4, 6, 8	290	175	155	112	140	90	120	45	19	40	6	21,5	6	71	7
AIR80A	2, 4, 6, 8	310	215	176	125	160	100	131	50	22	50	6	24,5	6	80	10
AIR80B	2, 4, 6, 8	335	215	176	125	160	100	155	50	22	50	6	24,5	6	80	10
AIR90LA	2, 4, 6, 8	350	245	185	140	195	125	170	56	24	50	8	27	7	90	10
AIR90LB	8	350	245	185	140	195	125	170	56	24	50	8	27	7	90	10
AIR100S	2, 4	385	250	215	160	200	112	180	63	28	60	8	31	7	100	12
AIR100L	2, 4, 6, 8	415	250	215	160	200	140	185	63	28	60	8	31	7	100	12
AIR112MA	2, 4, 6, 8	435	280	240	190	240	140	223	70	32	80	10	35	8	112	12
AIR112MB	6, 8	435	280	240	190	240	140	223	70	32	80	10	35	8	112	12
AIR132S	4, 6, 8	475	325	283	216	275	140	237	89	38	80	10	41	8	132	12
AIR132M	2, 4, 6, 8	515	325	283	216	275	178	238	89	38	80	10	41	8	132	12
AIR160S	2	635	375	330	254	320	178	314	108	42	110	12	45	8	160	15
	4, 6, 8	635	375	330	254	320	178	314	108	48	110	14	51,5	9	160	15
AIR160M	2	679	375	330	254	320	210	314	108	42	110	12	45	8	160	15
	4, 6, 8	679	375	330	254	320	210	314	108	48	110	14	51,5	9	160	15
AIR180S	2	700	435	380	279	355	203	343	121	48	110	14	51,5	9	180	15
	4	700	435	380	279	355	203	343	121	55	110	16	59	10	180	15
AIR180M	2	738	435	380	279	355	241	355	121	48	110	14	51,5	9	180	15
	4, 6, 8	738	435	380	279	355	241	355	121	55	110	16	59	10	180	15
AIR200M	2	780	475	420	318	390	267	379	133	55	110	16	59	10	200	19
	4, 6, 8	810	475	420	318	390	267	379	133	60	140	18	64	11	200	19
AIR200L	2	780	475	420	318	390	305	379	133	55	110	16	59	10	200	19
	4, 6, 8	810	475	420	318	390	305	379	133	60	140	18	64	11	200	19

Mounting version 2081



Type	No. of poles	Overall dimensions				Mounting and connection dimensions																	
		I30	h31	d30	D24	b10	b11	I10	I11	I31	d1	I1	b1	h5	h1	h	d10	d20	d25	I20	d22	n	
		L	HD	AC	P	A	AB	B	BB	C	D	E	F	GA	GD	H	K	M	N	T	S	n	
AIR56A	2, 4	210	150	120	140	90	110	71	90	36	11	23	4	12,5	4	56	5,8	115	95	3	10	4	
AIR56B	2, 4	210	150	120	140	90	110	71	90	36	11	23	4	12,5	4	56	5,8	115	95	3	10	4	
AIR63A	2, 4, 6	230	170	140	160	100	135	80	102	40	14	30	5	16	5	63	5,8	130	110	3,5	10	4	
AIR63B	2, 4, 6	230	170	140	160	100	135	80	102	40	14	30	5	16	5	63	5,8	130	110	3,5	10	4	
AIR71A	2, 4, 6	290	175	155	200	112	140	90	120	45	19	40	6	21,5	6	71	7	165	130	3,5	12	4	
AIR71B	2, 4, 6, 8	290	175	155	200	112	140	90	120	45	19	40	6	21,5	6	71	7	165	130	3,5	12	4	
AIR80A	2, 4, 6, 8	310	215	176	200	125	160	100	131	50	22	50	6	24,5	6	80	10	165	130	3,5	12	4	
AIR80B	2, 4, 6, 8	335	215	176	200	125	160	100	155	50	22	50	6	24,5	6	80	10	165	130	3,5	12	4	
AIR90LA	2, 4, 6, 8	350	245	185	250	140	195	125	170	56	24	50	8	27	7	90	10	215	180	4	15	4	
AIR90LB	8	350	245	185	250	140	195	125	170	56	24	50	8	27	7	90	10	215	180	4	15	4	
AIR100S	2, 4	385	250	215	250	160	200	112	180	63	28	60	8	31	7	100	12	215	180	4	15	4	
AIR100L	2, 4, 6, 8	415	250	215	250	160	200	140	185	63	28	60	8	31	7	100	12	215	180	4	15	4	
AIR112MA	2, 4, 6, 8	435	280	240	300	190	240	140	223	70	32	80	10	35	8	112	12	265	230	4	15	4	
AIR112MB	6, 8	435	280	240	300	190	240	140	223	70	32	80	10	35	8	112	12	265	230	4	15	4	
AIR132S	4, 6, 8	475	325	283	350	216	275	140	237	89	38	80	10	41	8	132	12	300	250	5	19	4	
AIR132M	2, 4, 6, 8	515	325	283	350	216	275	178	238	89	38	80	10	41	8	132	12	300	250	5	19	4	
AIR160S	2	635	375	330	350	254	320	178	314	108	42	110	12	45	8	160	15	300	250	5	19	4	
	4, 6, 8	635	375	330	350	254	320	178	314	108	48	110	14	51,5	9	160	15	300	250	5	19	4	
AIR160M	2	679	375	330	350	254	320	210	314	108	42	110	12	45	8	160	15	300	250	5	19	4	
	4, 6, 8	679	375	330	350	254	320	210	314	108	48	110	14	51,5	9	160	15	300	250	5	19	4	
AIR180S	2	700	435	380	400	279	355	203	343	121	48	110	14	51,5	9	180	15	350	300	5	19	8	
	4	700	435	380	400	279	355	203	343	121	55	110	16	59	10	180	15	350	300	5	19	8	
AIR180M	2	738	435	380	400	279	355	241	355	121	48	110	14	51,5	9	180	15	350	300	5	19	8	
	4, 6, 8	738	435	380	400	279	355	241	355	121	55	110	16	59	10	180	15	350	300	5	19	8	
AIR200M	2	780	475	420	450	318	390	267	379	133	55	110	16	59	10	200	19	400	350	5	19	8	
	4, 6, 8	810	475	420	450	318	390	267	379	133	60	140	18	64	11	200	19	400	350	5	19	8	
AIR200L	2	780	475	420	450	318	390	305	379	133	55	110	16	59	10	200	19	400	350	5	19	8	
	4, 6, 8	810	475	420	450	318	390	305	379	133	60	140	18	64	11	200	19	400	350	5	19	8	

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Type	No. of poles	Overall dimensions			Mounting and connection dimensions									
		$I30$	$d30$	$d24$	$d1$	$I1$	$b1$	$h5$	$h1$	$d20$	$d25$	$I20$	$d22$	n
		L	AC	P	D	E	F	GA	GD	M	N	T	S	n
AIR56A	2, 4	210	120	140	11	23	4	12,5	4	115	95	3	10	4
AIR56B	2, 4	210	120	140	11	23	4	12,5	4	115	95	3	10	4
AIR63A	2, 4, 6	230	140	160	14	30	5	16	5	130	110	3,5	10	4
AIR63B	2, 4, 6	230	140	160	14	30	5	16	5	130	110	3,5	10	4
AIR71A	2, 4, 6	290	155	200	19	40	6	21,5	6	165	130	3,5	12	4
AIR71B	2, 4, 6, 8	290	155	200	19	40	6	21,5	6	165	130	3,5	12	4
AIR80A	2, 4, 6, 8	310	176	200	22	50	6	24,5	6	165	130	3,5	12	4
AIR80B	2, 4, 6, 8	335	176	200	22	50	6	24,5	6	165	130	3,5	12	4
AIR90LA	2, 4, 6, 8	350	185	250	24	50	8	27	7	215	180	4	15	4
AIR90LB	8	350	185	250	24	50	8	27	7	215	180	4	15	4
AIR100S	2, 4	385	215	250	28	60	8	31	7	215	180	4	15	4
AIR100L	2, 4, 6, 8	415	215	250	28	60	8	31	7	215	180	4	15	4
AIR112MA	2, 4, 6, 8	435	240	300	32	80	10	35	8	265	230	4	15	4
AIR112MB	6, 8	435	240	300	32	80	10	35	8	265	230	4	15	4
AIR132S	4, 6, 8	475	283	350	38	80	10	41	8	300	250	5	19	4
AIR132M	2, 4, 6, 8	515	283	350	38	80	10	41	8	300	250	5	19	4

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CKK10D-V-100-060-K01	329	CKK30-070-016-3-K03	335	CLN10-035-200-070-3	370	CLP1F-050-2	386
CKK10D-Z-012-012-K01	329	CKK40-080-040-1-K01	338	CLN10-035-300-080-3	370	CLP1F-050-2	379
CKK10D-Z-015-010-K01	329	CKK40-100-040-1-K01	338	CLN10-050-050-3	370	CLP1F-080-2	386
CKK10D-Z-015-010-K11	332	CKK40-100-040-1-K01	338	CLN10-050-100-3	370	CLP1F-080-2	379
CKK10D-Z-016-016-K01	329	CKK40-120-055-1-K01	338	CLN10-050-150-3	370	CLP1F-100-2	386
CKK10D-Z-016-016-K11	332	CKK40-150-060-1-K01	338	CLN10-050-200-3	370	CLP1F-100-2	379
CKK10D-Z-020-010-K01	329	CKK-40D-P40-K01	329	CLN10-050-300-3	370	CLP1H-035-050-050	380
CKK10D-Z-020-010-K11	332	CKK-40D-P60-K01	329	CLN10-050-400-3	370	CLP1H-035-050-100	380
CKK10D-Z-025-016-K01	329	CKK-40D-PD2-K01	340	CLN10-050-500-3	370	CLP1H-035-050-150	380
CKK10D-Z-025-016-K11	332	CKK-40D-PD2-K01	340	CLN10-080-100-3	370	CLP1H-035-050-200	380
CKK10D-Z-025-025-K01	329	CKK-40D-RS2-K01-K	340	CLN10-080-150-3	370	CLP1H-035-050-300	380
CKK10D-Z-040-016-K01	329	CKK-40D-RS2-K04-K	340	CLN10-080-200-3	370	CLP1H-035-080-100	380
CKK10D-Z-040-016-K11	332	CKK-40D-RS2-K01-K	341	CLN10-080-300-3	370	CLP1H-035-080-150	380
CKK10D-Z-040-025-K01	329	CKK-40D-RSZK2-K04-K	341	CLN10-080-400-3	370	CLP1H-035-080-200	380
CKK10D-Z-040-025-K11	332	CKK-40D-S-120-055-K01	339	CLN10-080-500-3	370	CLP1H-035-080-300	380
CKK10D-Z-040-040-K01	329	CKK-40D-S-120-055-K01	339	CLN10-100-100-3	370	CLP1H-035-100-100	380
CKK10D-Z-060-040-K01	329	CKK-40D-T-120-055-K01	339	CLN10-100-150-3	370	CLP1H-035-100-150	380
CKK10D-Z-060-060-K01	329	CKK-40D-VD2-K01	340	CLN10-100-200-3	370	CLP1H-035-100-200	380
CKK10D-Z-080-040-K01	329	CKK-40D-VD2-K01	340	CLN10-100-300-3	370	CLP1H-035-100-300	380
CKK10D-Z-080-060-K01	329	CKK-40D-P-120-055-K01	338	CLN10-100-400-3	370	CLP1H-050-080-100	380
CKK10D-Z-100-040-K01	329	CKK-40D-W-120-055-K01	338	CLN10-100-500-3	370	CLP1H-050-080-150	380
CKK10D-Z-100-060-K01	329	CKK-40D-X-120-055-K01	338	CLP 1M-G-8	396	CLP1H-050-080-200	380
CKK10-012-012-1-K24	331	CKK-40D-Z-120-055-K01	338	CLP10-080-080-3	369	CLP1H-050-080-300	380
CKK10-012-012-1-K34	331	CKK-40D-FU-K03	339	CLP10-035-050-070-3	369	CLP1H-050-080-400	380
CKK10-015-010-1-K24	331	CKK-40D-FU-K03	339	CLP10-035-100-070-3	369	CLP1H-050-080-500	380
CKK10-015-010-1-K34	331	CKK-40D-FU-K03	339	CLP10-035-150-070-3	369	CLP1H-050-100-100	380
CKK10-016-016-1-K24	331	CKK-40D-KR125-K01	338	CLP10-035-200-070-3	369	CLP1H-050-100-150	380
CKK10-016-016-1-K34	331	CKK-40D-KR75-K01	338	CLP10-035-300-080-3	369	CLP1H-050-100-200	380
CKK10-020-010-1-K24	331	CKK-40D-NP-150-060-K01	338	CLP10-050-050-3	369	CLP1H-050-100-300	380
CKK10-020-010-1-K34	331	CKK-40D-P40-K01	338	CLP10-050-100-3	369	CLP1H-050-100-400	380
CKK10-025-016-1-K24	331	CKK-40D-P40-K01	338	CLP10-050-150-3	369	CLP1H-050-100-500	380
CKK10-025-016-1-K34	331	CKK-40D-P60-K01	338	CLP10-050-200-3	369	CLP1H-080-100-100	380
CKK10-040-016-1-K24	331	CKK-40D-P-080-060-K01	338	CLP10-050-300-3	369	CLP1H-080-100-150	380
CKK10-040-016-1-K34	331	CKK-40D-P-100-040-K01	338	CLP10-050-400-3	369	CLP1H-080-100-200	380
CKK10-040-025-1-K24	331	CKK-40D-P-100-060-K01	338	CLP10-050-500-3	369	CLP1H-080-100-300	380
CKK10-040-025-1-K34	331	CKK-40D-P-150-060-K01	338	CLP10-080-100-3	369	CLP1H-080-100-400	380
CKK11-012-012-1-K01	328	CKK-40D-R11-K01	341	CLP10-080-150-3	369	CLP1H-080-100-500	380
CKK11-015-010-1-K01	328	CKK-40D-R12-K01	341	CLP10-080-200-3	369	CLP1H-035-050	379
CKK11-016-016-1-K01	328	CKK-40D-RK2-K01	340	CLP10-080-300-3	369	CLP1H-035-100	379
CKK11-020-010-1-K01	328	CKK-40D-RSK2-K01	340	CLP10-080-400-3	369	CLP1H-035-150	379
CKK11-025-016-1-K01	328	CKK-40D-RSU4-060-K01	339	CLP10-080-500-3	369	CLP1H-035-200	379
CKK11-025-025-1-K01	328	CKK-40D-RSU4-060-K01	339	CLP10-100-100-3	369	CLP1H-035-300	379
CKK11-040-016-1-K01	328	CKK-40D-RSU4-075-K01	339	CLP10-100-150-3	369	CLP1H-035-400	379
CKK11-040-025-1-K01	328	CKK-40D-RSU4-075-K01	339	CLP10-100-200-3	369	CLP1H-050-050	379
CKK11-040-040-1-K01-024	328	CKK-40D-RSU6-060-K01	339	CLP10-100-300-3	369	CLP1H-050-100	379
CKK11-060-040-1-K01-018	328	CKK-40D-RSU6-060-K01	339	CLP10-100-400-3	369	CLP1H-050-150	379
CKK11-060-060-1-K01	328	CKK-40D-RSU6-075-K01	339	CLP10-100-500-3	369	CLP1H-050-200	379
CKK11-080-060-1-K01-008	328	CKK-40D-RSU6-075-K01	339	CLP1C-020-030	391	CLP1H-050-300	379
CKK11-100-040-1-K01	328	CKK-40D-RT1-K01	341	CLP1CF-050-050	381	CLP1H-050-400	379
CKK11-100-060-1-K01	328	CKK-40D-RT2-K01	341	CLP1CF-050-100	381	CLP1H-080-050	379
CKK11D-A-080-020-K01	335	CKK-40D-RU2-K01	339	CLP1CF-050-150	381	CLP1H-080-100	379
CKK11D-P-080-020-K01	335	CKK-40D-RU2-K01	339	CLP1CF-050-200	381	CLP1H-080-150	379
CKK11D-S-080-020-K01	335	CKK-40D-RU2-K01	339	CLP1CF-050-300	381	CLP1H-080-200	379
CKK11D-T-080-020-K01	335	CKK-40D-RU2-K01	339	CLP1CF-050-400	381	CLP1H-080-300	379
CKK11D-U-080-020-K01	335	CKK-40D-SB40-K01	339	CLP1CF-050-500	381	CLP1H-080-400	379
CKK11D-W-080-020-K01	335	CKK-40D-SB40-K01	339	CLP1CF-080-080	381	CLP1H-100-050	379
CKK11D-X-080-020-K01	335	CKK-40D-SB60-K01	339	CLP1CF-080-100	381	CLP1H-100-100	379
CKK11D-Z-080-020-K01	335	CKK-40D-SB60-K01	339	CLP1CF-080-150	381	CLP1H-100-150	379
CKK12D-K-070-016-K03	335	CKK-40D-SE75-K01	339	CLP1CF-080-200	381	CLP1H-100-200	379
CKK20D-N-015-010-K01	332	CKK-40D-SE75-K01	339	CLP1CF-080-300	381	CLP1H-100-300	379
CKK20D-N-016-016-K01	332	CKK-40D-SK2-K01	340	CLP1CF-080-400	381	CLP1H-100-400	379
CKK20D-N-020-010-K01	332	CKK-40D-SL125-K01	339	CLP1CF-080-500	381	CLP1K-050-1	386
CKK20D-N-025-016-K01	332	CKK-40D-SL60-K01	339	CLP1CF-100-100	381	CLP1K-050-1	373
CKK20D-N-040-016-K01	332	CKK-40D-SL75-K01	339	CLP1CF-100-150	381	CLP1K-050-3	386
CKK20D-N-040-025-K01	332	CKK-40D-SL75-K01	339	CLP1CF-100-200	381	CLP1K-060-1	386
CKK20D-P-015-010-K01	332	CKK-40D-TV1-K01	341	CLP1CF-100-300	381	CLP1K-060-2	386
CKK20D-P-016-016-K01	332	CKK-40D-T-080-040-K01	339	CLP1CF-100-400	381	CLP1K-100-1	386
CKK20D-P-020-010-K01	332	CKK-40D-T-100-040-K01	339	CLP1CF-100-500	381	CLP1K-100-1	373
CKK20D-P-025-016-K01	332	CKK-40D-T-100-060-K01	339	CLP1CL-600-1	388	CLP1K-100-3	386
CKK20D-P-040-016-K01	332	CKK-40D-T-150-060-K01	339	CLP1CL-100-1	388	CLP1K-150-1	386
CKK20D-P-040-025-K01	332	CKK-40D-W-080-060-K01	338	CLP1CL-150-1	388	CLP1K-150-1	373
CKK20D-S-015-010-K01	332	CKK-40D-W-100-040-K01	338	CLP1CL-200-1	388	CLP1K-150-3	386
CKK20D-S-016-016-K01	332	CKK-40D-W-100-060-K01	338	CLP1CL-300-1	388	CLP1K-200-1	386
CKK20D-S-020-010-K01	332	CKK-40D-W-150-060-K01	338	CLP1CL-400-1	388	CLP1K-200-1	373
CKK20D-S-025-016-K01	332	CKK-40D-X-080-040-K01	338	CLP1CL-500-1	388	CLP1K-200-3	386
CKK20D-S-040-016-K01	332	CKK-40D-X-100-040-K01	338	CLP1CW-100-1-INOX	388	CLP1K-300-1	386
CKK20D-S-040-025-K01	332	CKK-40D-X-100-060-K01	338	CLP1CW-150-1-INOX	388	CLP1K-300-1	373
CKK20D-T-015-010-K01	332	CKK-40D-X-150-060-K01	338	CLP1CW-200-1-INOX	388	CLP1K-300-3	386

Product ID	page	Product ID	page	Product ID	page	Product ID	page
CLP1K-400-3	386	CLP1M-N-6	396	CLP1V-080-080	376	CLP2P-100-400	374
CLP1K-400-3	373	CLP1M-N-8	396	CLP1V-035-050-1	376	CLP2P-100-500	374
CLP1K-500-3	386	CLP1M-SBC-10	396	CLP1V-035-100-1	376	CLP3N-080-080	376
CLP1K-500-3	373	CLP1M-SBC-8	396	CLP1V-035-150-1	376	CLP3N-050-050	375
CLP1K-600-3	373	CLP1M-SHU-10	396	CLP1V-035-200-1	376	CLP3N-050-100	375
CLP1L-030-030	391	CLP1M-SHU-12	396	CLP1V-035-300-1	376	CLP3N-050-150	375
CLP1M-CDZ-3-01	398	CLP1M-SHU-6	396	CLP1V-050-050	376	CLP3N-050-200	375
CLP1M-CDZ-3-02	398	CLP1M-SHU-8	396	CLP1V-050-100	376	CLP3N-050-300	375
CLP1M-CDZ-3-03	398	CLP1M-SH-10	396	CLP1V-050-150	376	CLP3N-050-400	375
CLP1M-CDZ-3-05	398	CLP1M-SH-12	396	CLP1V-050-200	376	CLP3N-050-500	376
CLP1M-CDZ-3-07	398	CLP1M-SH-6	396	CLP1V-050-300	376	CLP3N-080-100	376
CLP1M-CDZ-3-10	398	CLP1M-SH-8	396	CLP1V-050-400	376	CLP3N-080-150	376
CLP1M-CKZ-3-01	398	CLP1M-VP-10	396	CLP1V-050-500	376	CLP3N-080-200	376
CLP1M-CKZ-3-02	398	CLP1M-VP-8	396	CLP1V-080-100	376	CLP3N-080-300	376
CLP1M-CKZ-3-03	398	CLP1M-V-6-10	395	CLP1V-080-150	376	CLP3N-080-400	376
CLP1M-CKZ-3-05	398	CLP1N-080-080	375	CLP1V-080-200	376	CLP3N-080-500	376
CLP1M-CKZ-3-07	398	CLP1N-035-050-1	375	CLP1V-080-300	376	CLP3N-100-100	376
CLP1M-CKZ-3-10	398	CLP1N-035-100-1	375	CLP1V-080-400	376	CLP3N-100-150	376
CLP1M-LP-12-055	397	CLP1N-035-150-1	375	CLP1V-080-500	377	CLP3N-100-200	376
CLP1M-LP-20-1	397	CLP1N-035-200-1	375	CLP1V-100-100	377	CLP3N-100-300	376
CLP1M-LP-20-2	397	CLP1N-035-300-1	375	CLP1V-100-150	377	CLP3N-100-400	376
CLP1M-MPV	391	CLP1N-050-050	375	CLP1V-100-200	377	CLP3N-100-500	376
CLP1M-N-8-1	396	CLP1N-050-100	375	CLP1V-100-300	377	CLP3P-080-080	374
CLP1M-RB-10	398	CLP1N-050-150	375	CLP1V-100-400	377	CLP3P-050-050	374
CLP1M-RB-6	398	CLP1N-050-200	375	CLP1V-100-500	377	CLP3P-050-100	374
CLP1M-RB-8	398	CLP1N-050-300	375	CLP1X-080-80	373	CLP3P-050-150	374
CLP1M-RG-10	398	CLP1N-050-400	375	CLP1X-035-050-1	373	CLP3P-050-200	374
CLP1M-RG-6	398	CLP1N-050-500	375	CLP1X-035-100-1	373	CLP3P-050-300	374
CLP1M-RG-8	398	CLP1N-080-100	375	CLP1X-035-150-1	373	CLP3P-050-400	374
CLP1M-SRB-2-6-01	397	CLP1N-080-150	375	CLP1X-035-200-1	373	CLP3P-050-500	374
CLP1M-SRB-2-6-02	397	CLP1N-080-200	375	CLP1X-035-300-1	373	CLP3P-080-100	374
CLP1M-SRB-2-6-03	397	CLP1N-080-300	375	CLP1X-050-050	373	CLP3P-080-150	374
CLP1M-SRB-2-6-05	397	CLP1N-080-400	375	CLP1X-050-100	373	CLP3P-080-200	374
CLP1M-SRB-2-6-07	397	CLP1N-080-500	375	CLP1X-050-150	373	CLP3P-080-300	374
CLP1M-SRB-2-6-10	397	CLP1N-100-100	375	CLP1X-050-200	373	CLP3P-080-400	374
CLP1M-SRB-2-8-01	397	CLP1N-100-150	375	CLP1X-050-300	373	CLP3P-080-500	374
CLP1M-SRB-2-8-02	397	CLP1N-100-200	375	CLP1X-050-400	373	CLP3P-100-100	374
CLP1M-SRB-2-8-03	397	CLP1N-100-300	375	CLP1X-050-500	373	CLP3P-100-150	374
CLP1M-SRB-2-8-05	397	CLP1N-100-400	375	CLP1X-080-100	373	CLP3P-100-200	374
CLP1M-SRB-2-8-07	397	CLP1N-100-500	375	CLP1X-080-150	373	CLP3P-100-300	374
CLP1M-SRB-2-8-10	397	CLP1P-KS-5	398	CLP1X-080-200	373	CLP3P-100-400	374
CLP1M-SRC-2-01	397	CLP1P-KV-4	398	CLP1X-080-300	373	CLP3P-100-500	374
CLP1M-SRC-2-02	397	CLP1P-PL	391	CLP1X-080-400	373	CLP3V-080-080	377
CLP1M-SRC-2-03	397	CLP1P-SC-4	398	CLP1X-080-500	373	CLP3V-050-050	377
CLP1M-SRC-2-05	397	CLP1P-ZTVD-2	398	CLP1X-100-100	373	CLP3V-050-100	377
CLP1M-SRC-2-07	397	CLP1P-035-050-1	374	CLP1X-100-150	373	CLP3V-050-150	377
CLP1M-SRC-2-10	397	CLP1P-035-100-1	374	CLP1X-100-200	373	CLP3V-050-200	377
CLP1M-SRL-2-01	397	CLP1P-035-150-1	374	CLP1X-100-300	373	CLP3V-050-300	377
CLP1M-SRL-2-02	397	CLP1P-035-200-1	374	CLP1X-100-400	373	CLP3V-050-400	377
CLP1M-SRL-2-03	397	CLP1P-035-300-1	374	CLP1X-100-500	373	CLP3V-050-500	377
CLP1M-SRL-2-05	397	CLP1Q-050	390	CLP1Z-035-050	381	CLP3V-080-100	377
CLP1M-SRL-2-07	397	CLP1SH-035-1	379	CLP1Z-035-100	381	CLP3V-080-150	377
CLP1M-SRL-2-10	397	CLP1SH-050	379	CLP1Z-035-150	381	CLP3V-080-200	377
CLP1M-AL-10	396	CLP1SH-080	379	CLP1Z-035-200	381	CLP3V-080-300	377
CLP1M-AL-12	396	CLP1SH-100	379	CLP1Z-035-300	381	CLP3V-080-400	377
CLP1M-AL-6	396	CLP1-SPN-100	392	CLP1Z-050-025	391	CLP3V-080-500	377
CLP1M-AL-8	396	CLP1-SPN-150	392	CLP1Z-050-04	391	CLP3V-100-100	377
CLP1M-AS-10	396	CLP1-SPN-200	392	CLP1Z-050-050	381	CLP3V-100-150	377
CLP1M-AS-12	396	CLP1-SPN-300	392	CLP1Z-050-06	391	CLP3V-100-200	377
CLP1M-AS-6	396	CLP1-SPN-400	392	CLP1Z-050-10	391	CLP3V-100-300	377
CLP1M-AS-8	396	CLP1-SPN-500	392	CLP1Z-050-100	391	CLP3V-100-400	377
CLP1M-A-B-10-40	395	CLP1-SPV-100	392	CLP1Z-050-15	391	CLP3V-100-500	377
CLP1M-A-B-10-50	395	CLP1-SPV-150	392	CLP1Z-050-20	391	CLW10-BSD	390
CLP1M-A-B-10-75	395	CLP1-SPV-200	392	CLP1Z-050-200	381	CLW10-BSD-400	390
CLP1M-A-B-10-95	395	CLP1-SPV-300	392	CLP1Z-050-300	381	CLW10-BSD-400 HDZ	390
CLP1M-A-B-12-100	395	CLP1-SPV-400	392	CLP1Z-050-400	381	CLW10-BSD-600	390
CLP1M-A-B-12-60	395	CLP1-SPV-500	392	CLP1Z-050-500	381	CLW10-BSD-600 HDZ	390
CLP1M-A-B-8-40	395	CLP1S-035-1	378	CLP1Z-080-100	381	CLW10-CF-INOX	386
CLP1M-A-B-8-65	395	CLP1S-050	378	CLP1Z-080-150	381	CLW10-CP-INOX	386
CLP1M-A-B-8-85	395	CLP1S-080	378	CLP1Z-080-200	381	CLW10-CR-INOX	390
CLP1M-B-10-20	395	CLP1S-100	378	CLP1Z-080-300	381	CLW10-DR-INOX	390
CLP1M-B-10-30	395	CLP1T-080-080	378	CLP1Z-080-400	381	CLW10-GEM-KS-1157	392
CLP1M-B-10-40	395	CLP1T-035-050-1	378	CLP1Z-080-500	381	CLW10-GEM-KS-1157-U3	392
CLP1M-B-10-50	395	CLP1T-035-100-1	378	CLP1Z-50-100	381	CLW10-GEM-KS-1157-UT15	392
CLP1M-B-12-20	395	CLP1T-035-150-1	378	CLP1Z-50-150	381	CLW10-GEM-PK-150	392
CLP1M-B-12-30	395	CLP1T-035-200-1	378	CLP1Z-CP-050-1	391	CLW10-GEM-PK-150-U3	392
CLP1M-B-12-40	395	CLP1T-035-300-1	378	CLP1Z-GP	390	CLW10-GEM-PK-150-UT15	392
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KMM11-012-230-10	511	LDV00-1602-1-7-K01	600	LLE25-14-015-2700-T2	574	LL-MR16-6-12-40-GU5	579
KMM11-012-400-01	511	LDV00-1603-1-7-K23	600	LLE25-14-015-4000-T2	574	LL-MR16-6-230-30-GU5	580
KMM11-012-400-10	511	LDV00-1604-1-7-K23	600	LLE25-27-009-2700-T2	574	LL-MR16-6-230-40-GU5	580
KMM11-016-230-01	511	LDV00-1605-1-12-K01	600	LLE25-27-009-4000-T2	574	LLP-A60-11-230-40-E27	579
KMM11-016-230-10	511	LDV00-1606-1-12-K23	600	LLE25-27-011-2700-T2	574	LLP-A60-5-230-30-E27	579
KMM11-016-400-01	511	LDV00-1607-1-18-K01	600	LLE25-27-011-4000-T2	574	LLP-A60-9-230-40-E27	579
KMM11-016-400-10	511	LDV00-1608-1-18-K23	600	LLE25-27-015-2700-T2	574	LL-PAR16-5-230-40-GU10	580
KPK10-04	526	LDV00-6563-20-6500-K00	625	LLE25-27-015-2700-T2-S3	574	LL-PAR16-7-230-30-GU10	580
KPK10-11	526	LDV00-6564-20-4500-K00	625	LLE25-27-015-4000-T2	574	LL-PAR16-7-230-40-GU10	580
KPK10-20	526	LDV00-6565-40-4500-K00	625	LLE25-27-015-4000-T2-S3	574	LLPB-MR16-3-230-30-GU5	580
KPK10-22	526	LDV00-6566-40-6500-K00	625	LLE25-27-015-6500-T2	574	LLPB-MR16-3-230-40-GU5	580
KPK10-40	526	LDV00-6567-40-6500-K00	625	LLE25-27-020-2700-T2	574	LLP-MR16-3-230-30-GU5	580
KPV10-11-1	526	LDV00-6568-40-4500-K00	625	LLE25-27-020-2700-T2-S3	574	LLP-MR16-3-230-40-GU5	580
KPV10-11-2	526	LDV01-40304-30-4000-K01	625	LLE25-27-020-4000-T2	574	LLP-MR16-5-230-30-GU5	580
KPV10-11-3	526	LDV01-40306-30-6500-K01	625	LLE25-27-020-4000-T2-S3	574	LLP-MR16-5-230-40-GU5	580
KPV20-11-1	526	LDV01-40404-40-4000-K01	625	LLE25-27-020-6500-T2	574	LLP00-2001-1-06-K01	613
KPV20-11-2	526	LDV01-40406-40-6500-K01	625	LLE25-27-023-2700-T2	574	LLP00-2001-1-08-K01	613
KPV20-11-3	526	LDV01-40454-45-4000-K01	625	LLE25-27-023-4000-T2	574	LLP00-2001-1-13-K01	613
KYP11-16-02-00-Z	464	LDV01-40456-45-6500-K01	625	LLE25-27-025-2700-T2	574	LLP00-2001-1-21-K01	613
KYP11-16-02-00-ZK	464	LDV01D-PLN-6368	626	LLE25-27-025-4000-T2	574	LLP00-2001-1-28-K01	613
KYP11-16-03-00-Z	464	LDV02D-PLP-6368	626	LLE25-27-030-2700-T4	574	LLP00-2003-1-08-K01	613
KYP11-16-03-00-ZK	464	LF20-600-1300-003	658	LLE25-27-030-4000-T4	574	LLP00-2003-1-13-K01	613
KYP11-16-04-00-Z	464	LF20-601-2200-003	658	LLE25-27-030-4000-T4-S3	574	LLP00-2004A1-1-06-K01	613
KYP11-16-04-00-ZK	464	LF20-602-4400-003	658	LLE25-27-030-6500-T4	574	LLP00-2004A1-1-08-K01	613
KYP11-16-06-00-ZK	464	LL-A60-11-230-30-E27	579	LLE25-27-100-2700-T5	571	LLP00-2004A1-1-12-K01	613
		LL-A60-11-230-40-E27	579	LLE25-27-100-4000-T5	571	LLP00-2004A1-1-16-K01	613
		LL-A60-13-230-30-E27	579	LLE25-27-100-6500-T5	571	LLP00-2004A1-1-20-K01	613
		LL-A60-13-230-40-E27	579	LLE25-27-100-6500-T5-S3	571	LLP00-2004A1-1-24-K01	613
		LLBA0-3923-2-08-K01	645	LLE25-27-55-4000	571	LLP00-2004A1-1-30-K01	613
		LLBA0-3924-1-20-K01	645	LLE25-27-55-6500	571	LLP00-2004B-1-06-K01	613
		LLBA1-3923a-2-08-K01	645	LLE25-27-65-4000	571	LLP00-2004B-1-08-K01	613
		LLBA1-3924a-2-08-K01	645	LLE25-27-65-6500	571	LLP00-2004B-1-12-K01	613
		LL-C35-4-230-27-E14-CL	579	LLE25-40-100-4000-T5	571	LLP00-2004B-1-16-K01	613
		LL-C35-4-230-30-E14-FR	579	LLE25-40-125-4000	571	LLP00-2004B-1-20-K01	613
		LL-C35-4-230-40-E14-FR	579	LLE25-40-125-6500	571	LLP00-2004B-1-24-K01	613
		LL-C37-5-230-30-E14-FR	579	LLE25-40-85-4000	571	LLP00-2004B-1-30-K01	613
		LL-C37-5-230-30-E27-FR	579	LLE25-40-85-6500	571	LLP00-2010-1-13-K01	614
		LL-C37-5-230-40-E14-FR	579	LLE30-23-009-2700	576	LLP00-2011-1-13-K01	614
		LL-C37-5-230-40-E27-FR	579	LLE30-23-009-4000	576	LLP00-2014-1-13-K03	614
		LL-CB37-5-230-30-E14-FR	579	LLE30-23-011-2700	576	LLP00-2018B-1-06-K03	614
		LL-CORN-10-230-40-E27	579	LLE30-23-011-4000	576	LLP00-2018B-1-08-K03	614
		LL-CORN-12-230-40-E27	579	LLE60-14-009-2700	576	LLP00-2018B-1-13-K03	614
		LL-CORN-8-230-40-E27	579	LLE60-14-009-4000	576	LLP00-2018B-1-21-K03	614
		LLD111-LS-65	661	LLE60-14-009-4000-S6	576	LLP00-2018C-1-14-K03	614
		LLE10-27-015-2700-T3	577	LLE60-14-009-6500	576	LLP00-2018C-1-21-K03	614
		LLE10-27-015-4000-T3	577	LLE60-14-011-2700	576	LLP00-2018C-1-28-K03	614
		LLE10-27-015-6500-T3	577	LLE60-14-011-4000	576	LLP00-2025-1-13-K01	614
		LLE10-27-020-2700-T4	577	LLE60-27-011-2700	576	LLP00-3011-1-10-K01	615
		LLE10-27-020-4000-T4	577	LLE60-27-011-2700-S6	576	LLP00-3011-1-15-K01	615
		LLE10-27-020-4000-T4-S3	577	LLE60-27-011-4000	576	LLP00-3011-1-18-K01	615
		LLE10-27-020-6500-T4	577	LLE61-14-009-2700	576	LLP00-3011-1-30-K01	615
		LLE10-27-020-6500-T4-S3	577	LLE61-14-009-2700-S6	576	LLP00-3011-1-36-K01	615
		LLE10-27-025-2700-T4	577	LLE61-14-009-4000	576	LLP00-3016-1-10-K01	615
		LLE10-27-025-4000-T4	577	LLE61-14-009-4000-S6	576	LLP00-3016-1-15-K01	615
		LLE10-27-025-4000-T4-S3	577	LLE61-14-009-6500	576	LLP00-3016-1-18-K01	615
		LLE10-27-025-6500-T4	577	LLE70-14-009-2700	576	LLP00-3016-1-30-K01	615
		LLE10-27-055-6500	571	LLE70-27-009-2700	576	LLP00-3016-1-36-K01	615
		LLE10-27-055-6500-S3	571	LLE70-27-009-4000	576	LLP00-3017-2-18-K01	615
		LLE10-27-065-6500	571	LLE70-27-020-2700	576	LLP00-3017-2-30-K01	615
		LLE10-40-085-6500	571	LLE75-27-015-2700	576	LLP00-3017-2-36-K01	615
		LLE10-40-105-6500	571	LLE75-27-015-4000	576	LLP00-3018-1-15-K01	615
		LLE10-40-105-6500-S3	571	LLEP10-27-015-2700-T4	572	LLP00-3018-1-18-K01	615
		LLE10-40-150-6500	571	LLEP10-27-015-4000-T4	572	LLP00-3018-1-30-K01	615
		LLE10-40-200-6500	571	LLEP10-27-020-2700-T3	572	LLP00-3018-1-36-K01	615
		LLE10-40-250-6500	571	LLEP10-27-020-4000-T3	572	LLP00-3019-2-09-K01	617
		LLE20-27-011-2700-T2	575	LLEP10-27-020-4000-T3-S20	573	LLP00-3020-1-10-K01	615
		LLE20-27-011-4000-T2	575	LLEP10-27-020-6500-T3	572	LLP00-3020-1-15-K01	615
		LLE20-27-011-6500-T2	575	LLEP10-27-020-6500-T3-S20	573	LLP00-3020-1-18-K01	615
		LLE20-27-015-2700-T2	575	LLEP20-27-100-4000-T5	572	LLP00-3020-1-30-K01	615
		LLE20-27-015-2700-T2-S3	575	LLEP20-27-100-4000-T5-S3	573	LLP00-3020-1-36-K01	615
		LLE20-27-015-4000-T2	575	LLEP20-27-100-6500-T5	572	LLP00-3024-1-09-K01	617
		LLE20-27-015-4000-T2-S3	575	LLEP25-27-015-2700-T3	572	LLP00-3025-2-09-K01	617
		LLE20-27-015-6500-T2	575	LLEP25-27-015-2700-T3-S20	573	LLP00-3026-1-09-K01	617
		LLE20-27-020-2700-T2	575	LLEP25-27-015-2700-T3-S3	573	LLP00-3041-2-09-K01	617
		LLE20-27-020-2700-T2-S3	575	LLEP25-27-015-4000-T3	572	LLP00-3051-2-09-K01	617
		LLE20-27-020-4000-T2	575	LLEP25-27-015-4000-T3-S20	573	LLP00-3052-2-09-K01	617
		LLE20-27-020-4000-T2-S3	575	LLEP25-27-015-4000-T3-S3	573	LLP00-3053-1-09-K01	617
		LLE20-27-020-6500-T2	575	LLEP25-27-015-6500-T3	572	LLP01-3017-2-18-K01	615
		LLE20-27-025-2700-T4	575	LLEP25-27-020-2700-T3	572	LLP01-3017-2-30-K01	615
		LLE20-27-025-4000-T4	575	LLEP25-27-020-2700-T3-S3	573	LLP01-3017-2-36-K01	615
		LLE20-27-045-4000-T4	575	LLEP25-27-020-4000-T3	572	LLP02-2006-1-08-K02	651
		LLE21-27-015-2700-T2	575	LLEP25-27-020-4000-T3-S20	573	LLP02-2030-1-36-K02	651
		LLE21-27-015-4000-T2	575	LLEP25-27-020-4000-T3-S3	573	LLP-PAR16-3-230-30-GU10	580
		LLE21-27-015-6500-T2	575	LLEP25-27-020-6500-T3	572	LLP-PAR16-3-230-40-GU10	580
		LLE21-27-020-2700-T3	575	LLEP25-27-020-6500-T3-S20	573	LLP-PAR16-5-230-30-GU10	580
		LLE21-27-020-4000-T3	575	LLEP25-27-030-2700-T4	572	LLP-PAR16-5-230-40-GU10	580
		LLE21-27-020-4000-T3-S3	575	LLEP25-27-030-4000-T4	572	LLP-R39-3-230-40-E14	580
		LLE21-27-020-6500-T3	575	LLEP25-27-030-4000-T4-S3	573	LLP-R50-5-230-40-E14	580
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LL-R63-8-230-27-E27	580	LNPP0-1401-1-060-K01	604	LSCON10-MONO-213-5-PRO	585	LSSA0-1003-003-K03	641
LL-R63-8-230-40-E27	580	LNPP0-1401-1-060-K02	604	LSCON10-MONO65-212-5-PRO	585	LSSA0-1004-003-K03	641
LLSP2-3901-1-18-K03	635	LNPP0-1402-1-060-K01	604	LSCON10-RGB-202-10-PRO	585		
LLSP2-3901A-2-18-K03	635	LNPP0-1402-1-060-K02	604	LSCON10-RGB-212-10-PRO	585	M	
LLSP2-3902-1-36-K03	635	LNPP0-1403-1-060-K01	604	LSCON10-RGB-213-5-PRO	585	MAD10-2-006-C-010	42
LLSP2-3902A-2-36-K03	635	LNPP0-1403-1-060-K02	604	LSCON10-RGB65-212-10-PRO	585	MAD10-2-010-C-010	42
LLSP3-3907-1-18-K03	635	LNPP0-1404-1-060-K01	604	LSCON-8-set9	585	MAD10-2-010-C-030	42
LLSP3-3907A-2-18-K03	635	LNPP0-1404-1-060-K02	604	LSL14-12-G5-06	569	MAD10-2-010-C-100	42
LLSP3-3908-1-36-K03	635	LNPP0-1405-1-060-K02	605	LSL14-12-G5-08	569	MAD10-2-016-B-030	42
LLSP3-3908A-2-36-K03	635	LNPP0-1406-1-060-K01	605	LSL14-12-G5-12	569	MAD10-2-016-C-010	42
LLV118D-EBFL-1-18	660	LNPP0-1406-1-060-K02	605	LSL14-12-G5-16	569	MAD10-2-016-C-030	42
LLV118D-EBFLM-1-18	660	LNPP0-1407-1-060-K01	605	LSL14-12-G5-20	569	MAD10-2-016-C-100	42
LLV136D-EBFL-1-36	660	LNPP0-1407-1-060-K02	605	LSL14-12-G5-24	569	MAD10-2-020-C-030	42
LLV136D-EBFLM-1-36	660	LNPP0-1408-1-060-K01	605	LSL14-12-G5-28	569	MAD10-2-025-B-030	42
LLV158D-EBFL-1-58	660	LNPP0-1408-1-060-K02	605	LSL14-16-G5-06	569	MAD10-2-025-C-010	42
LLV158D-EBFLM-1-58	660	LNPP0-2501-1-060-K01	605	LSL14-16-G5-08	569	MAD10-2-025-C-030	42
LLV218D-EBFL-2-18	660	LNPP0-2501-1-060-K02	605	LSL14-16-G5-13	569	MAD10-2-025-C-100	42
LLV218D-EBFLM-2-18	660	LNPP0-2602-1-060-K01	609	LSL14-16-G5-14	569	MAD10-2-025-C-300	42
LLV226D-EBPL-2-26	660	LNPP0-2602-1-060-K02	609	LSL14-16-G5-21	569	MAD10-2-032-C-010	42
LLV236D-EBFL-2-36	660	LNPP0-2602A-1-060-K01	609	LSL14-16-G5-28	569	MAD10-2-032-C-030	42
LLV236D-EBFLM-2-36	660	LNPP0-2602A-1-060-K02	609	LSL14-26-G13-18	569	MAD10-2-032-C-100	42
LLV258D-EBFL-2-58	660	LNPP0-2603-1-060-K01	609	LSL14-26-G13-36	569	MAD10-2-040-C-010	42
LLV258D-EBFLM-2-58	660	LNPP0-2603-1-060-K02	609	LSL16-12-G5-06	569	MAD10-2-040-C-030	42
LLV418D-EBFL-4-18	660	LNPP0-2603A-1-060-K01	609	LSL16-12-G5-08	569	MAD10-2-040-C-100	42
LLV418D-EBFLM-4-18	660	LNPP0-2603A-1-060-K02	609	LSL16-12-G5-12	569	MAD10-2-040-C-300	42
LLV00-1501-2-26-K01	598	LNPP0-2604-1-060-K01	609	LSL16-12-G5-16	569	MAD10-2-050-C-030	42
LLV00-1501-2-26-K03	598	LNPP0-2604-1-060-K02	609	LSL16-12-G5-20	569	MAD10-2-050-C-100	42
LLV00-1501-2-26-K23	598	LNPP0-2604A-1-060-K01	609	LSL16-12-G5-24	569	MAD10-2-050-C-300	42
LLV00-1502-2-26-K01	598	LNPP0-2604A-1-060-K02	609	LSL16-12-G5-28	569	MAD10-2-063-C-030	42
LLV00-1502-2-26-K03	598	LNPP0-3006-1-060-K01	605	LSL16-16-G5-06	569	MAD10-2-063-C-100	42
LLV00-1502-2-26-K23	598	LNPP0-3101-1-060-K01	607	LSL16-16-G5-08	569	MAD10-2-063-C-300	42
LLV00-1503-2-26-K01	598	LNPP0-3101-1-060-K02	607	LSL16-16-G5-13	569	MAD10-4-006-C-010	42
LLV00-1503-2-26-K03	598	LNPP0-3102-1-060-K01	607	LSL16-16-G5-14	569	MAD10-4-010-C-010	42
LLV00-1503-2-26-K23	598	LNPP0-3102-1-060-K02	607	LSL16-16-G5-21	569	MAD10-4-010-C-030	42
LLV00-1504-2-26-K01	598	LNPP0-3103-1-060-K01	607	LSL16-16-G5-28	569	MAD10-4-016-C-010	42
LLV00-1504-2-26-K03	598	LNPP0-3103-1-060-K02	607	LSL16-26-G13-18	569	MAD10-4-016-C-030	42
LLV00-1504-2-26-K23	598	LNPP0-3114-1-060-K01	607	LSL16-26-G13-36	569	MAD10-4-016-C-100	42
LLV00-1505-2-26-K01	598	LNPP0-3118-1-060-K01	607	LSP1-025-12-20-33-PRO	583	MAD10-4-016-C-300	42
LLV00-1505-2-26-K03	598	LNPP0-3118-1-060-K02	607	LSP1-030-12-20-33-PRO	583	MAD10-4-025-C-030	42
LLV00-1506-2-26-K01	598	LNPP0-9101-1-060-K01	605	LSP1-030-12-67-33-PRO	583	MAD10-4-025-C-100	42
LLV00-1506-2-26-K03	598	LPD0101-10-K03	589	LSP1-040-12-20-33-PRO	583	MAD10-4-025-C-300	42
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LLVPOD-EPK-58-1H	639	LPD0101-30-K03	589	LSP1-050-12-67-33-PRO	583	MAD10-4-032-C-100	42
LMSP0-4001I-1-200-K03	596	LPD0101-50-K03	589	LSP1-060-12-20-33-PRO	583	MAD10-4-032-C-300	42
LMSP1-4001IK-1-200-E40	596	LPD0102-10-K03	589	LSP1-100-12-20-33-PRO	583	MAD10-4-040-C-030	42
LNPO0-3231D-2-025-K01	611	LPD0102-20-K03	589	LSP1-100-12-67-33-PRO	583	MAD10-4-040-C-100	42
LNPO0-3233D-2-025-K01	611	LPD0102-30-K03	589	LSP1-150-12-20-33-PRO	583	MAD10-4-040-C-300	42
LNPO0-3234D-2-025-K01	611	LPD0103-20-K03	589	LSP1-150-12-67-33-PRO	583	MAD10-4-050-C-030	42
LNPO0-3235D-2-025-K01	611	LPD0201-10-K03	589	LSP1-200-12-20-33-PRO	583	MAD10-4-050-C-100	42
LNPO0-3236D-2-025-K01	611	LPD0201-20-K03	589	LSP1-200-12-67-33-PRO	583	MAD10-4-050-C-300	42
LNPO0-3237D-2-025-K01	611	LPD0301-30-K03	589	LSP1-360-12-20-33-PRO	583	MAD10-4-063-C-030	42
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LNPP0-1202-1-100-K02	604	LPI01-1-0150-K02	594	LSR1-6-060-20-1-05	582	MAD22-5-032-C-30	48
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LNPP0-1303-1-060-K02	603	LSC1-RGB-216-RF-20-12-B	584	LSR2-4-030-20-1-05	582	MAD32-5-006-B-10	50
LNPP0-1304-1-060-K01	603	LSC1-W-WW-144-RF-20-12-B	584	LSR2-4-030-65-1-05	582	MAD32-5-006-C-10	50
LNPP0-1304-1-060-K02	603	LSC2-MONO-120-RF-20-12-B	584	LSR2-5-030-20-1-05	582	MAD32-5-006-C-30	50
LNPP0-1305-1-060-K01	603	LSC2-MONO-120-RF-20-12-W	584	LSR2-5-030-65-1-05	582	MAD32-5-010-B-30	50
LNPP0-1306-1-060-K01	603	LSC2-RGB-072-IR-20-12-W	584	LSR2-6-030-20-1-05	582	MAD32-5-010-C-10	50
LNPP0-1306-1-060-K02	603	LSC2-RGB-144-RF-20-12-B	584	LSR2-6-030-65-1-05	582	MAD32-5-010-C-30	50
LNPP0-1307-1-060-K01	604	LSC2-RGB-144-RF-20-12-W	584	LSR2-7-030-20-1-05	582	MAD32-5-016-B-30	50
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MDV10-4-100-030	31	MKM12-V-72-30-Z	226	MKM32-N-36-31-Z0	236	MKP82-N-06-41-20	202
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MDV10-4-100-300	31	MKM13-N-12-31-Z	226	MKM33-N-12-31-Z0	235	MKP82-N-12-41-10	202
MDV11-2-016-010	34	MKM13-N-18-31-Z	226	MKM33-N-36-31-Z0	236	MKP82-N-18-41-10	202
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MDV11-2-063-100	34	MKM13-N-48-31-Z	227	MKM33-V-36-31-Z0	234	MKP82-V-24-41-10	204
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MDV12-4-032-100	38	MKM14-V-36-31-TW	230	MKM42-06-1270-31	256	MNV10-3-040	60
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PSN22-032-5	477	RRP20D-RRM-4	544	SVA30D-EP	89	TLK10-380	700
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YKV10-S-XX45XX	279	YNN10-69-24D-K05	312	YNN20-08-100	311	Y-PL-O-36-6-0	285
YKV10-S-XX63XX	279	YNN10-69-24D-K07	312	YNN20-10-100	311	Y-PL-O-74-1-0	289
YKV10-S-XX80XX	279	YNN10-69-4C1-K05	313	YNN20-12-100	311	Y-PL-O-74-1-0	285
YKV10-UP-XXXX40-36	278	YNN10-69-4C1-K07	313	YNN20-14-100	311	Y-PL-O-74-2-0	289
YKV10-UP-XXXX60-36	278	YNN10-69-4C2-K05	311	YNN20-16-100	311	Y-PL-O-74-2-0	285
YKV10-UV-1090-36	279	YNN10-69-4C2-K07	311	YNN20-18-100	311	Y-PL-O-74-3-0	289
YKV10-UV-1290-36	279	YNN10-69-4D-K05	312	YNN20-20-100	311	Y-PL-O-74-3-0	285
YKV10-UV-640-36	279	YNN10-69-4D-K07	312	YNN20-22-100	311	Y-PL-O-74-4567-0	289
YKV10-ZP-XXXX40	279	YNN10-69-6C1-K05	313	YNN20-24-100	311	Y-PL-O-74-4567-0	285
YKV10-ZP-XXXX60	279	YNN10-69-6C1-K07	313	YNN21-04-100	310	Y-PL-U-1-0	285
YND10-2-07-100	314	YNN10-69-6C2-K05	311	YNN21-06-100	310	Y-PL-U-2-0	285
YND10-2-15-125	314	YNN10-69-6C2-K07	311	YNN21-08-100	310	Y-PL-U-3-0	285
YND10-4-07-100	314	YNN10-69-6D-K05	312	YNN21-10-100	310	Y-PL-U-4-0	285
YND10-4-11-125	314	YNN10-69-6D-K07	312	YNN21-12-100	310	Y-PL-U-5-0	285
YND10-4-15-125	314	YNN10-69-8C1-K05	313	YNN21-14-100	310	Y-PL-U-6-0	285
YNK51-1-100	316	YNN10-69-8C1-K07	313	YNN21-16-100	310	Y-PL-U-7-0	285
YNK51-2-100	316	YNN10-69-8C2-K05	311	YNN21-18-100	310	Y-PM-U-G-1-0	289
YNK51-3-100	316	YNN10-69-8C2-K07	311	YNN21-20-100	310	Y-PM-U-G-2-0	289
YNK51-4-100	316	YNN10-69-8D-K05	312	YNN21-22-100	310	Y-PM-U-G-3-0	289
YNN10-04-100	310	YNN10-69-8D-K07	312	YNN21-24-100	310	Y-PM-U-G-4-0	289
YNN10-06-100	310	YNN10-69-8KD-K02	313	YNN21-26-125	311	Y-PM-U-G-5-0	289
YNN10-08-100	310	YNN10-69-8KD-K06	313	YNN21-26-125	253	Y-PM-U-G-6-0	289
YNN10-10-100	310	YNN10-69-8KD-K07	313	YNS11-1-063	316	YSA10-08-12-68-K02	307
YNN10-12-100	310	YNN10-69-8P-K05	313	YNS11-1-100	316	YSA10-10-16-68-K02	307
YNN10-14-100	310	YNN10-69-8P-K07	313	YNS11-2-063	316	YSA10-14-20-68-K02	307
YNN10-16-100	310	YNN10-812-10C2-K05	311	YNS11-2-100	316	YSA10-18-25-68-K02	307
YNN10-18-100	310	YNN10-812-10C2-K07	311	YNS11-3-063	316	YSA10-25-32-68-K02	307
YNN10-20-100	310	YNN10-812-10DP-K05	312	YNS11-3-100	316	YSA10-30-40-68-K02	307
YNN10-22-100	310	YNN10-812-10DP-K07	312	YNS11-4-063	316	YSA10-39-50-68-K02	307
YNN10-24-100	310	YNN10-812-10D-K05	312	YNS11-4-100	316	YSA10-52-63-68-K02	307
YNN10-69-10C1-K05	313	YNN10-812-10D-K07	312	YNS21-1-063	316	YSA20-06-07-54-K41	306
YNN10-69-10C1-K07	313	YNN10-812-12C2-K05	311	YNS21-1-100	316	YSA20-08-09-54-K41	306
YNN10-69-10C2-K05	311	YNN10-812-12C2-K07	311	YNS21-2-063	316	YSA20-10-11-54-K41	306
YNN10-69-10C2-K07	311	YNN10-812-12DP-K05	312	YNS21-2-100	316	YSA20-12-13-54-K41	306
YNN10-69-10D-K05	312	YNN10-812-12DP-K07	312	YNS21-3-063	316	YSA20-14-16-54-K41	306
YNN10-69-10D-K07	312	YNN10-812-12D-K05	312	YNS21-3-100	316	YSA20-18-21-54-K41	306
YNN10-69-10KD-K02	313	YNN10-812-12D-K07	312	YNS21-4-063	316	YSA20-25-29-54-K41	306
YNN10-69-10KD-K06	313	YNN10-812-14C2-K05	311	YNS21-4-100	316	YSA20-32-36-54-K41	306
YNN10-69-10KD-K07	313	YNN10-812-14C2-K07	311	YNS51-1-100	316	YSA20-40-42-54-K41	306
YNN10-69-10P-K05	313	YNN10-812-14DP-K05	312	YNS51-2-100	316	YSA20-44-48-54-K41	306
YNN10-69-10P-K07	313	YNN10-812-14DP-K07	312	YNS51-3-100	316	YSA30-08-11-54-K41	306
YNN10-69-12C1-K05	313	YNN10-812-14D-K05	312	YNS51-4-100	316	YSA30-10-13-54-K41	306
YNN10-69-12C1-K07	313	YNN10-812-14D-K07	312	YPC30-105NEV-NAL	321	YSA30-12-16-54-K41	306
YNN10-69-12C2-K05	311	YNN10-812-16C2-K05	311	YPC30-105NEV-NALVN	321	YSA30-16-21-54-K41	306
YNN10-69-12C2-K07	311	YNN10-812-16C2-K07	311	YPC30-105NEV-NALVV	321	YSA30-25-29-54-K41	306
YNN10-69-12D-K05	312	YNN10-812-16DP-K05	312	YPC30-105NEV-NAPR	321	YSA30-32-36-54-K41	306
YNN10-69-12D-K07	312	YNN10-812-16DP-K07	312	YPC30-105NEV-NAPRVN	321	YSA30-40-42-54-K41	306
YNN10-69-12KD-K02	313	YNN10-812-16D-K05	312	YPC30-105NEV-NAPRVV	321	YSA30-44-48-54-K41	306
YNN10-69-12KD-K06	313	YNN10-812-16D-K07	312	YPC30-105NEV-PRM	321	YWN11	319
YNN10-69-12KD-K07	313	YNN10-812-18C2-K05	311	YPC30-105V	321	YWN12	319
YNN10-69-12P-K05	313	YNN10-812-18C2-K07	311	YPC30-105ZAPV	321	YXD10	319
YNN10-69-12P-K07	313	YNN10-812-18D-K05	312	YPC30-150NEV-LNALVN	321	YZK10-18-18-34	322
YNN10-69-14C1-K05	313	YNN10-812-18D-K07	312	YPC30-150NEV-LNALVV	321	YZK10-18-20-40	322
YNN10-69-14C1-K07	313	YNN10-812-20C2-K05	311	YPC30-150NEV-LNAPRVN	321	YZK10-20-22-40	322
YNN10-69-14C2-K05	311	YNN10-812-20C2-K07	311	YPC30-150NEV-LNAPRVV	321	YZK11-20-22-45	322
YNN10-69-14C2-K07	311	YNN10-812-20D-K05	312	YPC30-150VZ-LSTR	321	YZK20-00	322
YNN10-69-14D-K05	312	YNN10-812-20D-K07	312	YPC30-150VZ-PSTR	321	YZK21-00	322
YNN10-69-14D-K07	312	YNN10-812-22C2-K05	311	YPC30-2010NEV-NAL	321	YZM10-12	319
YNN10-69-14KD-K02	313	YNN10-812-22C2-K07	311	YPC30-2010NEV-NALVN	321	YZM10-12-K01	319
YNN10-69-14KD-K06	313	YNN10-812-22D-K05	312	YPC30-2010NEV-NALVV	321	YZN10D-ZGL-006-K03	308
YNN10-69-14KD-K07	313	YNN10-812-22D-K07	312	YPC30-2010NEV-NAPR	321	YZN10D-ZGL-006-K07	308
YNN10-69-14P-K05	313	YNN10-812-24C2-K05	311	YPC30-2010NEV-NAPRVN	321	YZN10D-ZGL-010-K03	308
YNN10-69-14P-K07	313	YNN10-812-24C2-K07	311	YPC30-2010NEV-NAPRVV	321	YZN10D-ZGL-010-K07	308
YNN10-69-16C1-K05	313	YNN10-812-24D-K05	312	YPC30-2010NEV-PRM	321	YZN10D-ZGL-016-K03	308
YNN10-69-16C1-K07	313	YNN10-812-24D-K07	312	YPC30-2010V	321	YZN10D-ZGL-016-K07	308
YNN10-69-16C2-K05	311	YNN10-812-4C2-K05	311	YPC30-2010ZAPV	321	YZN10D-ZGL-035-K03	308
YNN10-69-16C2-K07	311	YNN10-812-4C2-K07	311	YPC30-50NEV-LNALVN	321	YZN10D-ZGL-035-K07	308
YNN10-69-16D-K05	312	YNN10-812-4D-K05	312	YPC30-50NEV-LNALVV	321	YZN10-002-K03	308
YNN10-69-16D-K07	312	YNN10-812-4D-K07	312	YPC30-50NEV-LNAPRVN	321	YZN10-002-K07	308
YNN10-69-16KD-K02	313	YNN10-812-6C2-K05	311	YPC30-50NEV-LNAPRVV	321	YZN10-004-K03	308
YNN10-69-16KD-K06	313	YNN10-812-6C2-K07	311	YPC30-50VZ-LSTR	321	YZN10-004-K07	308
YNN10-69-16KD-K07	313	YNN10-812-6DP-K05	312	YPC30-50VZ-PSTR	321	YZN10-006-K03	308
YNN10-69-18C1-K05	313	YNN10-812-6DP-K07	312	Y-PL-G-36-1-0	285	YZN10-006-K07	308
YNN10-69-18C1-K07	313	YNN10-812-6D-K05	312	Y-PL-G-36-2-0	285	YZN10-010-K03	308
YNN10-69-18C2-K05	311	YNN10-812-6D-K07	312	Y-PL-G-36-3-0	285	YZN10-010-K07	308
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YNN10-69-18D-K05	312	YNN10-812-8C2-K07	311	Y-PL-G-36-4567-2-0	285	YZN10-022-K07	308
YNN10-69-18D-K07	312	YNN10-812-8DP-K05	312	Y-PL-G-36-4567-3-0	285	YZN10-035-K03	308
YNN10-69-20C1-K05	313	YNN10-812-8DP-K07	312	Y-PL-G-36-4567-4-0	285	YZN10-035-K07	308
YNN10-69-20C1-K07	313	YNN10-812-8D-K05	312	Y-PL-G-36-4567-5-0	285	YZN10-070-K03	308
YNN10-69-20C2-K05	311	YNN10-812-8D-K07	312	Y-PL-G-54-3-0	289	YZN10-070-K07	308
YNN10-69-20C2-K07	311	YNN11-04-100	310	Y-PL-G-54-3-0	285	YZN10-095-K03	308
YNN10-69-20D-K05	312	YNN11-06-100	310	Y-PL-G-74-1-0	289	YZN10-095-K07	308
YNN10-69-20D-K07	312	YNN11-08-100	310	Y-PL-G-74-1-0	285	YZN20-004-K52	308
YNN10-69-22C1-K05	313	YNN11-10-100	310	Y-PL-G-74-2-0	289	YZN20-006-K52	308
YNN10-69-22C1-K07	313	YNN11-12-100	310	Y-PL-G-74-2-0	285	YZN20-010-K52	308
YNN10-69-22C2-K05	311	YNN11-14-100	310	Y-PL-G-74-4567-1-0	285	YZN20-016-K52	308
YNN10-69-22C2-K07	311	YNN11-16-100	310	Y-PL-G-74-4567-2-0	285	YZN20-035-K52	308
YNN10-69-22D-K05	312	YNN11-18-100	310	Y-PL-G-74-4567-3-0	285	YZN20-070-K52	308
YNN10-69-22D-K07	312	YNN11-20-100	310	Y-PL-G-74-4567-4-0	285		
YNN10-69-24C1-K05	313	YNN11-22-100	310	Y-PL-G-74-4567-5-0	285		
YNN10-69-24C1-K07	313	YNN11-24-100	310	Y-PL-O-36-3-0	285		