



High voltage
transformers



Low voltage
transformers



Product catalogue Electrical Machines

**Elpress crimp system for
transformer manufacturing**





Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2004



This is to certify that:

Elpress AB
including business area Kablema
Industrivägen 15
Kranfors
SE-872 24
Sweden

Holds Certificate No:

EMS 531083

and operates an Environmental Management System which complies with the requirements of ISO 14001:2004 for the following scope:

The design, manufacturing, marketing and sales of electrical connector systems as well as marketing and sales of complementary components.

Utveckling, tillverkning, marknadsföring och försäljning av system för elektriska förbindningar samt marknadsföring och försäljning av kompletterade komponenter.

For and on behalf of BSI:

Gary Fenton, Global Assurance Director

Originally registered: 21/11/2007

Latest Issue: 05/03/2013

Expiry Date: 05/03/2016

Page: 1 of 1



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Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: +44 845 080 9000.
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4RL, UK.
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Environment policy

Within ELPRESS AB we shall always work with ongoing improvements reducing our influence on the environment. This shall be achieved by using resources in an environment promoting way and by reducing the amount of emissions and waste. We shall meet the legal requirements with a good margin. Our products shall be designed to minimise environmental influence related to

- Manufacture
- Use, and
- Final disposal

All ingredients, materials and components with a negative environment influence shall gradually be exchanged. Our processes as well as our places and methods of work shall be designed and adapted in order to minimise environmental influence and to avoid injury and health hazard to persons.

Information and training shall constitute normal activities in the company to stimulate interest in environment issues with all ELPRESS' employees and to support personal development and participation in the environment work of the company.

Our suppliers and commissioned partners shall be chosen and influenced in such a way that they can add to our fulfilment of the environment policy.

Our customers shall be informed of our environment work and form co-operation partners to spread knowledge and advice to the parties of the distribution chain, all in order to safeguard the proper use, stocking and final disposal of our products.

We shall continuously evaluate the results of the environment work.

We shall demonstrate openness concerning information on our work and our effect on the environment.



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2008

This is to certify that:

Elpress AB
including business area Kablema
Industrivägen 15
Kranfors
SE-872 24
Sweden

Holds Certificate No:

FM 20987

and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:

The design, manufacture and sales of electrical connector systems and complementary accessories.

Utveckling, tillverkning, marknadsföring och försäljning av system för elektriska förbindningar samt marknadsföring och försäljning av kompletterade komponenter.

For and on behalf of BSI:

Gary Fenton, Global Assurance Director

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Quality

Good quality forms the basis for development with high productivity and competitiveness. Our quality concept addresses our customers, our suppliers and ourselves. With quality we understand our ability to meet internal as well as external customer requirements and expectations regarding the use of our products and services.

Quality declaration

Our overall quality target shall be to surpass the quality in products and services offered to the market by our competitors. Our attitude shall be characterized by ongoing improvements, with the ambition also to be regarded a natural partner in relevant quality work. Each and every employee of Elpress AB shall give priority the responsibility for quality in his/her daily work. All work regarding quality improvements is supported by the company management.

As a means to fulfil this quality declaration, the requirements of the quality standard ISO 9001 shall be applied as a general standard for the quality work within Elpress AB.



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Advanced crimping makes reliability, high performance and documentation essential

When crimping in advanced applications as transformers it is essential that the crimping system is a high performance and reliable system. Elpress has developed a wide range of products specialized for these applications. Together with training of operators, certifications and the products this is a complete system concept. Elpress Crimp System for Transformer Connections is:

- Terminals and connectors adapted to transformer use
- Electrically powered crimp tools with ergonomic crimp heads, rounding and crimp dies
- Test certification to international standards
- Production quality procedures
- Training and certifying of operators



Terminals and connectors

Elpress complete system consists of terminals and connectors from 25 to 630 mm². They have the suffix L which is the customers' guarantee that the connectors are a part of the quality assured system. Special items have been developed, like the straight and angled T-connectors. Markings on the terminals and connectors show tool identification, size, stud

hole and manufacturers emblem. The markings are made for easier and correct use.

Tools

With the 13 and 25 tons crimp heads Elpress ensures easy operation both when rounding of winding bundles and when crimping. Elpress offers a mains and/or battery operated hydraulic pump that is controlled from the crimping head handle and powers the crimping head. Rounding and crimping dies are polished for minimising the risk of sharp edges. Winding connections are crimped within the following acceptance range for each connection.

Nom. connector area mm ²	Tot. initial real winding conductor cross section	
	min mm ²	max mm ²
25	30	47
35	45	70
50	69	103
70	100	120
95	113	161
120	145	185
150	180	220
185	220	265
240	302	343
300	340	400
400	412	500
500	500	580
630	630	730

Tests

Elpress has tested the use of terminals and connectors within the specified cross section area ranges in accordance with IEC61238:1. This is the most widely accepted test standard with a qualified evaluation of performance stability. Test reports are available from Elpress and can be requested if needed.

Crimping of conductors for transformers
Report II: Testing of connectors for transformer windings (50/95/150 mm²)
Document number: 00000000000000000000000000000000
Test object designation: 50 mm², min. area
Report date: 2 Aug 1996

DATA

Conductor material	Alloy C11000
Conductor thickness	4.0 ± 0.2 mm
Test temperature	23 °C
Crimp die damage	0.14 ± 0.01 mm

RESULTS

Pass/fail (three measurements made)

Sample	Test Date N	Requirement N
1	7000	5000
2	7452	5000
3	5000	5000

Circle pass

Pass	Conductor no.	1	2	3	4	5	Mean
1	L001	1,000	1,001	1,004	1,004	1,004	1,001
2	L020	0,928	0,928	0,928	0,928	0,928	0,928
3	L002	0,914	0,902	0,912	0,912	0,904	0,911
4	Pass	-	-	-	-	-	Pass

Notes:
 A = minimum surface area (relative to ref conductor)
 B = total width of conductor
 C = total outer diameter
 D = crimping force
 E = In these instance temperature (°C) above means lower than ref conductor

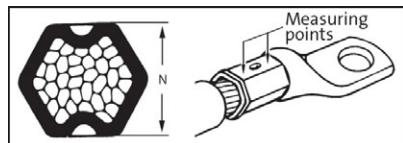
RESULT AREA

All requirements are met.
Report date: 2 Aug 1996
Report number: 00000000000000000000000000000000

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Production Quality Assurance

It is essential to have simple means of identifying correct crimp procedures and results while working. With the Elpress System the dies leave an imprint on the crimped barrel surface showing the die identification. This enables a direct and easy inspection that proper tools have been used. For all crimps a crimp height limit is given to make an easy check of proper tool function by means of a vernier calliper or a gauge.



Operator training

To ensure that operators have the detailed know-how that is the base for long term quality, Elpress runs theoretical and practical training sessions at each production site resulting in certification of the individual operators. These trained operators will have a qualified level in regard to practical work procedures as well as the precautions that ensure proper results. Please contact Elpress for more information.



Assured results

When you work with the Elpress Crimp System for Transformer Conductor Connections, and follow the instructions for this system, you get results which have been tested to well established standards and requirements. This is your way of getting assured results in production work.



Markings on Cu-connections

Elpress marking system for Cu-connectors shows logotype, conductor area and ID-number for crimp die to be used. This system enables final inspection of proper die use as the die number is automatically imprinted by the die on the crimped barrel, see picture above.



Marking of tube terminals

20 (on the terminal neck)
ID-no. for the hexagonal die
(Elpress logo) 95-12F (on the palm)
95 = Cu-conductor area, mm ²
12 = hole for screw M12
F = KSF

Marking of connectors

(Elpress logo) 20
ID-no. for hexagonal die
95 F
95 = Cu-conductor area, mm ²
F = KSF

Stud holes in terminal palms

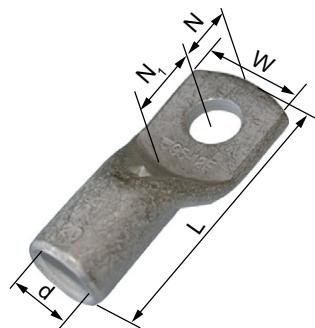
Screw-dimension	Hole diameter tolerance H13 (Ø mm)
M 3	3,2
M 4	4,3
M 5	5,3
M 6	6,4
M 8	8,4
M 10	10,5
M 12	13
M 16	17
M 20	21
M 24	25

**Tube terminals 25 - 630 mm², KRF-L**

■ Electrolytic copper, tin plated.

■ Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example KRF: 95 12F, (Elpress logotype included) 20

95 = mm² 12 = palm hole for M12 F = type KRF, flexible, stranded and winding conductors 20 = Die No.

Flexible, stranded mm ²	Winding mm ²	Cat. No. mm ² - bolt size	mm W	d	N	N ₁	L	Pcs/ pack	Die No.
25	30-47	KRF25-6L	16	8	8	10	39	100	11L
25	30-47	KRF25-8L	16	8	8	10	39	100	11L
25	30-47	KRF25-10L	17	8	10	11	42	100	11L
25	30-47	KRF25-12L	22	8	12	13	47	100	11L
35	45-70	KRF35-6L	18	9	10	11	47	100	13L
35	45-70	KRF35-8L	18	9	10	11	47	100	13L
35	45-70	KRF35-10L	18	9	10	11	47	100	13L
35	45-70	KRF35-12L	22	9	12	14	52	100	13L
50	69-103	KRF50-8L	21	11	11	11	50	100	14,5L
50	69-103	KRF50-10L	21	11	11	11	50	100	14,5L
50	69-103	KRF50-12L	21	11	12	13	53	100	14,5L
50	69-103	KRF50-16L	27	11	15	16	59	100	14,5L
70	100-120	KRF70-8L	25	13	11	11	55	50	17L
70	100-120	KRF70-10L	25	13	11	11	55	50	17L
70	100-120	KRF70-12L	25	13	12	13	58	50	17L
70	100-120	KRF70-16L	28	13	15	16	64	50	17L
95	113-161	KRF95-8L	29	15	15	16	69	50	20L
95	113-161	KRF95-10L	29	15	15	16	69	50	20L
95	113-161	KRF95-12L	29	15	15	16	69	50	20L
95	113-161	KRF95-16L	29	15	15	16	69	50	20L
120	145-185	KRF120-8L	32	17	15	16	73	25	22L
120	145-185	KRF120-10L	32	17	15	16	73	25	22L
120	145-185	KRF120-12L	32	17	15	16	73	25	22L
120	145-185	KRF120-16L	32	17	15	16	73	25	22L
150	180-220	KRF150-00L	36	19	31*	-	80	25	25L
150	180-220	KRF150-8L	36	19	15	16	80	25	25L
150	180-220	KRF150-10L	36	19	15	16	80	25	25L
150	180-220	KRF150-12L	36	19	15	16	80	25	25L
150	180-220	KRF150-16L	36	19	15	16	80	25	25L
185	220-265	KRF185-00L	39	21	38*	-	93	20	27L
185	220-265	KRF185-10L	39	21	15	16	86	20	27L
185	220-265	KRF185-12L	39	21	15	16	86	20	27L
185	220-265	KRF185-16L	39	21	15	16	86	20	27L
185	220-265	KRF185-20L	39	21	19	19	93	20	27L
240	302-343	KRF240-00L	44	24	38*	-	95	10	30L
240	302-343	KRF240-8L	44	24	19	19	95	10	30L
240	302-343	KRF240-10L	44	24	19	19	95	10	30L
240	302-343	KRF240-12L	44	24	19	19	95	10	30L
240	302-343	KRF240-16L	44	24	19	19	95	10	30L
300	340-400	KRF300-00L	46	24,5	54*	-	116	10	32L
300	340-400	KRF300-10L	46	24,5	22	32	116	10	32L
300	340-400	KRF300-12L	46	24,5	22	32	116	10	32L
300	340-400	KRF300-16L	46	24,5	22	32	116	10	32L
300	340-400	KRF300-20L	46	24,5	22	32	116	10	32L
400	412-500	KRF400-00L	56	30	55*	-	125	10	38L
400	412-500	KRF400-10L	56	30	22	33	125	10	38L
400	412-500	KRF400-12L	56	30	22	33	125	10	38L
400	412-500	KRF400-16L	56	30	22	33	125	10	38L
400	412-500	KRF400-20L	56	30	23	25	119	10	38L

* total palm length



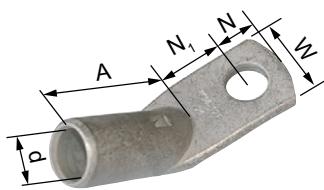
Flexible, stranded mm ²	Winding mm ²	Cat. No. mm ² - bolt size	mm W	d	N	N ₁	L	Pcs/ pack	Die No.
500	500-580	KRF500-00L	61	33	70*	-	160	5	42L
500	500-580	KRF500-12L	61	33	25	35	150	5	42L
500	500-580	KRF500-16L	61	33	25	35	150	5	42L
500	500-580	KRF500-20L	61	33	25	35	150	5	42L
630	630-730	KRF630-20L	73	39	35	45	195	5	50L

* total palm length

Tube terminals 45°, 25 - 400 mm², KRF-L

- Electrolytic copper, tin plated.
- Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example KRF: 95 12F (Elpress logotype included) 20

95 = mm² 12 = palm hole for M12 F = type KRF, flexible, stranded and winding conductors 20 = Die No.

Flexible, stranded mm ²	Winding mm ²	Cat. No.	mm W	d	N	N ₁	A	Pcs/ pack	Die No.
25	30-47	KRF25-8L-45GR	16	8	8,5	12	24	50	11L
25	30-47	KRF25-10L-45GR	17	8	11,5	13,5	24	50	11L
35	45-70	KRF35-8L-45GR	18	9	8,5	12	30	100	13L
35	45-70	KRF35-10L-45GR	18	9	11,5	13,5	30	100	13L
35	45-70	KRF35-12L-45GR	19	9	12,5	17,5	30	100	13L
50	69-103	KRF50-8L-45GR	21	11	8,5	17,5	31	100	14,5L
50	69-103	KRF50-10L-45GR	21	11	11,5	18,5	31	100	14,5L
50	69-103	KRF50-12L-45GR	21	11	12,5	19,5	31	100	14,5L
70	100-120	KRF70-10L-45GR	24	13	11,5	18,5	35	50	17L
70	100-120	KRF70-12L-45GR	24	13	12,5	19,5	35	50	17L
95	113-161	KRF95-10L-45GR	28	15	11,5	18,5	40	50	20L
95	113-161	KRF95-12L-45GR	28	15	12,5	19,5	40	50	20L
120	145-185	KRF120-10L-45GR	32	17	11,5	18,5	43	25	22L
120	145-185	KRF120-12L-45GR	32	17	12,5	19,5	43	25	22L
150	180-220	KRF150-10L-45GR	36	19	11,5	18,5	49	25	25L
150	180-220	KRF150-12L-45GR	36	19	12,5	19,5	49	25	25L
185	220-265	KRF185-10L-45GR	39	21	11,5	18,5	55	20	27L
185	220-265	KRF185-12L-45GR	39	21	12,5	19,5	55	20	27L
240	302-343	KRF240-10L-45GR	44	24	11,5	18,5	57	10	30L
240	302-343	KRF240-12L-45GR	44	24	12,5	19,5	57	10	30L
300	340-400	KRF300-12L-45GR	46	24,5	22	32	65	10	32L
300	340-400	KRF300-16L-45GR	46	24,5	22	32	65	10	32L
400	412-500	KRF400-12L-45GR	56	30	22	33	74	25	38L
400	412-500	KRF400-16L-45GR	56	30	22	33	74	15	38L



Cu-terminals

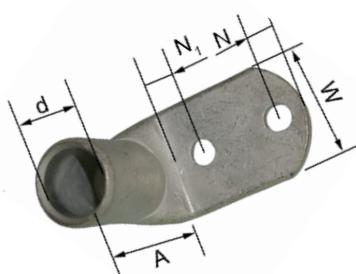
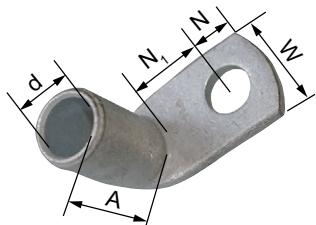
Tube terminals 90°, 25 - 630 mm², KRF-L

■ Electrolytic copper, tin plated.

■ Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example KRF: 95 12F (Elpress logotype included) 20

95 = mm² 12 = palm hole for M12 F = type KRF, flexible, stranded and winding conductors 20 = Die No.



KRF500-12x2-44,5L-90GR,
KRF630-12x2-44,5L-90GR.

Flexible, stranded mm ²	Winding mm ²	Cat. No. mm ² , bolt size	mm W	d	N	N ₁	A	Pcs/ pack	Die No.
25	30-47	KRF25-8L-90GR	16	8	8,5	12	18,5	50	11L
25	30-47	KRF25-10L-90GR	17	8	11,5	13,5	18,5	50	11L
35	45-70	KRF35-8L-90GR	18	9	8,5	12	22,5	100	13L
35	45-70	KRF35-10L-90GR	18	9	11,5	13,5	22,5	100	13L
35	45-70	KRF35-12L-90GR	19	9	12,5	17,5	22,5	100	13L
50	69-103	KRF50-8L-90GR	21	11	8,5	17,5	31,5	100	14,5L
50	69-103	KRF50-10L-90GR	21	11	11,5	18,5	31,5	100	14,5L
50	69-103	KRF50-12L-90GR	21	11	12,5	19,5	31,5	100	14,5L
70	100-120	KRF70-8L-90GR	24	13	8,5	17,5	31,5	50	17L
70	100-120	KRF70-10L-90GR	24	13	11,5	18,5	31,5	50	17L
70	100-120	KRF70-12L-90GR	24	13	12,5	19,5	31,5	50	17L
95	113-161	KRF95-8L-90GR	28	15	8,5	17,5	32,5	50	20L
95	113-161	KRF95-10L-90GR	28	15	11,5	18,5	32,5	50	20L
95	113-161	KRF95-12L-90GR	28	15	12,5	19,5	32,5	50	20L
95	113-161	KRF95-16L-90GR	29	15	15,5	20,5	32,5	50	20L
120	145-185	KRF120-10L-90GR	32	17	11,5	18,5	42	25	22L
120	145-185	KRF120-12L-90GR	32	17	12,5	19,5	42	25	22L
120	145-185	KRF120-16L-90GR	32	17	15,5	20,5	42	25	22L
150	180-220	KRF150-10L-90GR	36	19	11,5	18,5	47	25	25L
150	180-220	KRF150-12L-90GR	36	19	12,5	19,5	47	25	25L
150	180-220	KRF150-16L-90GR	36	19	15,5	20,5	47	25	25L
185	220-265	KRF185-10L-90GR	39	21	11,5	18,5	42,5	20	27L
185	220-265	KRF185-12L-90GR	39	21	12,5	19,5	42,5	20	27L
240	302-343	KRF240-10L-90GR	44	24	11,5	18,5	47	15	30L
240	302-343	KRF240-12L-90GR	44	24	12,5	19,5	47	15	30L
300	340-400	KRF300-12L-90GR	46	24,5	15	19	57	10	32L
300	300-400	KRF300-16L-90GR	46	24,5	20	26	57	10	32L
400	412-500	KRF400-00L-90GR	56	30	55*	-	53	5	38L
400	412-500	KRF400-12L-90GR	56	30	22	33	53	5	38L
400	412-500	KRF400-16L-90GR	56	30	22	33	70	5	38L
500	500-580	KRF500-12x2-44,5L-90GR	61	33	15	20,5	86**	4	42L
630	630-730	KRF630-12x2-44,5L-90GR	73	39	15	20,5	112**	1	50L

* total palm length

** +/- 3 mm



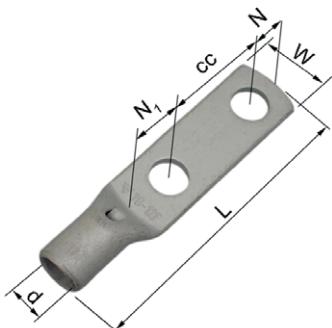
Tube terminals with two stud holes 50 - 500 mm², KRF-L

■ Electrolytic copper, tin plated.

■ Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example KRF: 95 12F (Elpress logotype included) 20

95 = mm² 12 = palm hole for M12 F = type KRF, flexible, stranded and winding conductors 20 = Die No.



Flexible, stranded mm ²	Winding mm ²	Cat. No. mm ² , bolt size, cc-measure	mm W	d	N	N ₁	L	Pcs/ pack	Die No.
50	69-103	KRF50-10X2-24-26L	20,5	11	11	22	87	50	14,5L
50	69-103	KRF50-12x2-44,5L	21	11	12	18,5	102	50	14,5L
70	100-120	KRF70-10X2-24-26L	25	13	11	17,0	86	50	17L
70	100-120	KRF70-12x2-44,5L	25	13	12	17,5	107	25	17L
95	113-161	KRF95-10X2-24-26L	29	15	11	19	93	25	20L
95	113-161	KRF95-12x2-44,5L	29	15	12	18,5	113	25	20L
120	145-185	KRF120-10X2-24-26L	32	17	11	19	97	25	22L
120	145-185	KRF120-12x2-44,5L	32	17	12	19,5	116	25	22L
150	180-220	KRF150-10X2-24-26L	36	19	11	19	104	25	25L
150	180-220	KRF150-12x2-44,5L	36	19	12	18,5	124	25	25L
185	220-265	KRF185-10X2-24-26L	39	21	11	21	111	20	27L
185	220-265	KRF185-12x2-44,5L	39	21	12	19,5	130	10	27L
240	302-343	KRF240-10X2-24-26L	44	24	11	22	114	10	30L
240	302-343	KRF240-12x2-44,5L	44	24	12	19,5	132	10	30L
300	340-400	KRF300-12X2-44,5L	46	24,5	12	20,5	139	10	32L
400	412-500	KRF400-12X2-44,5L	56	30	12	20,5	147	8	38L
500	500-580	KRF500-12x2-44,5L	61	33	12	18,5	165	8	42L

Flexible, stranded mm ²	Winding mm ²	Cat. No. mm ² , bolt size, cc-measure	mm W	d	N	N ₁	L	Pcs/ Pack	Die No.
95	113-161	KRF95-12X2-40L	29	15	12	18	109	25	20L
120	145-185	KRF120-12X2-40L	32	17	12	18	113	25	22L
150	180-220	KRF150-12X2-40L	36	19	12	19	120	20	25L
185	220-265	KRF185-12X2-40L	39	21	12	20	126	20	27L
240	302-343	KRF240-12x2-40L	44	24	12	21	129	10	30L
300	340-400	KRF300-12X2-40L	45	24,5	12	22	136	10	32L
400	412-500	KRF400-12X2-40L	56	30	12	23	145	5	38L
500	500-580	KRF500-12X2-40L	61	33	15	15	160	5	42L



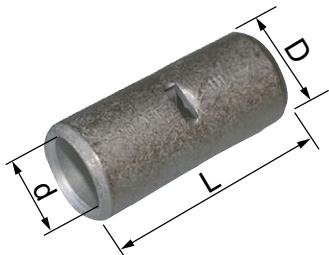
Through connectors 25 - 630 mm², KSF-L

■ Electrolytic copper, tin plated.

■ Cable inspection hole and cable stop. For Cu-conductors; flexible, stranded and winding.

Marking example: 20 95F (earth-sign) Elpress logotype included

20 = die no. 95 = mm² F = type KSF, flexible, stranded and winding conductors



Flexible, stranded mm ²	Winding mm ²	Cat. No. mm ²	mm d	D	L	Pcs/ pack	Die No.
25	30-47	KSF25L	8	11	35	100	11L
35	45-70	KSF35L	9,0	13,0	35	100	13L
50	69-103	KSF50L	11	14,5	45	50	14,5L
70	100-120	KSF70L	13	17	45	50	17L
95	113-161	KSF95L	15	20	45	50	20L
120	145-185	KSF120L	17	22	55	50	22L
150	180-220	KSF150L	19	25	65	25	25L
185	220-265	KSF185L	21	27	70	25	27L
240	302-343	KSF240L	24	30	70	25	30L
300	340-400	KSF300L	24,5	31,5	75	10	32L
400	412-500	KSF400L	30	38	100	10	38L
500	500-580	KSF500L	33	42	135	5	42L
630	630-730	KSF630L	39	50	170	5	50L

T-connectors 35 - 630 mm², KTSF

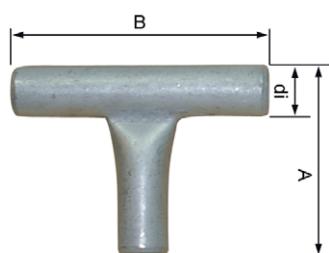
■ Electrolytic copper, tin plated.

■ Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example: 14,5 3x50F Elpress logotype included

14,5 = die no. 3x = no. of conductor entries 50 = mm²

F = type KSF, flexible, stranded and winding conductors



Flexible, stranded mm ²	Winding mm ²	Cat. No.	mm di	A	B	Marking	Pcs/ pack	Die No.
35	45-70	KTSF35	9	63	87	13 3x 35F	20	13L
50	69-103	KTSF50	11	70	96	14,5 3x 50F	20	14,5L
70	100-120	KTSF70	13	74	100	17 3x 70F	10	17L
95	113-161	KTSF95	15	77	103	20 3x 95F	10	20L
120	145-185	KTSF120	17	87,5	120	22 3x 120F	6	22L
150	180-220	KTSF150	19	92	124	25 3x 150F	6	25L
185	220-265	KTSF185	21	96	124	27 3x 185F	6	27L
240	302-343	KTSF240	24	100	129	30 3x 240F	4	30L
300	340-400	KTSF300	24,5	101,5	130	32 3x 300F	4	32L
400	412-500	KTSF400	30	130	190	38 3x 400F	2	38L
500	500-590	KTSF500	33	134,5	200	42 3x 500F	2	42L
630	630-730	KTSF630	39	168	235	50 3 x 630F	2	50L

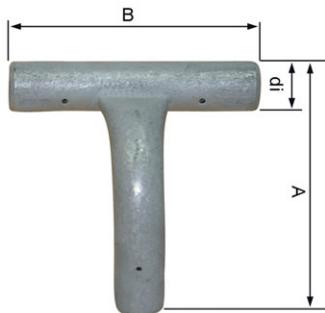


T-connectors 35 - 300 mm², 110°, KTSF

- Electrolytic copper, tin plated.
- Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example: 14,5 3x50F Elpress logotype included

14,5 = die no. 3x = no. of conductor entries 50 = mm² F = type KSF, flexible, stranded and winding conductors



Flexible, stranded mm ²	Winding mm ²	Cat. No.	mm di	A	B	Marking	Pcs/ pack	Die No.
35	45-70	KTSF35-110GR	13	63	87	13 3x 35F	20	13L
50	69-103	KTSF50-110GR	11	66	96	14,5 3x 50F	20	14,5L
70	100-120	KTSF70-110GR	13	80	100	17 3x 70F	10	17L
95	113-161	KTSF95-110GR	15	84,5	103	20 3x 95F	6	20L
120	145-185	KTSF120-110GR	17	91	120	22 3x 120F	6	22L
150	180-220	KTSF150-110GR	19	104	124	25 3x 150F	4	25L
185	220-265	KTSF185-110GR	21	112	124	27 3x 185F	2	27L
240	302-343	KTSF240-110GR	24	117	129	30 3x 240F	2	30L
300	340-400	KTSF300-110GR	24,5	119	130	32 3x 300F	1	32L



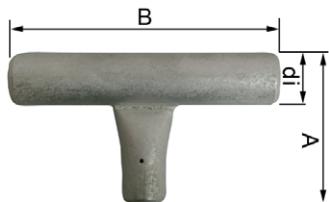
T-connectors with different area 95 - 500 mm², KTSF

■ Electrolytic copper, tin plated.

■ Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example: 20 2x95F Elpress logotype included + 14,5

20 = die no. 2x = no. of conductor entries + one 95 = mm² F = type KSF, flexible, stranded and winding conductors



Flexible, stranded mm ²	Winding mm ²	Cat. No.	mm di	A	B	Marking	Pcs/ pack	Die No.
95	113-161/45-70	KTSF95-35	15	70	93	20 2x95F 13	10	20L 13L
95	113-161/69-103	KTSF95-50	15	75	96	20 2x95F 14,5	10	20L 14,5L
150	180-220/69-103	KTSF150-50	19	80	124	25 2x150F 14,5	10	25L 14,5L
150	180-220/113-161	KTSF150-95	19	83	124	25 2x150F 20	8	25L 20L
185	220-265/45-70	KTSF185-35	21	80	105	27 2x185F 13	6	27L 13L
185	220-265/69-103	KTSF185-50	21	85	105	27 2x185F 14,5	6	27L 14,5L
185	220-265/113-161	KTSF185-95	21	88	110	27 2x185F 20	6	27L 20L
185	220-265/180-220	KTSF185-150	21	97	124	27 2x185F 25	6	27L 25L
240	302-343/45-70	KTSF240-35	24	80	105	30 2x240F 13	5	30L 13L
240	302-343/69-103	KTSF240-50	24	85	129	30 2x240F 14,5	6	30L 14,5L
240	302-343/113-161	KTSF240-95	24	88	129	30 2x240F 20	6	30L 20L
240	302-343/180-220	KTSF240-150	24	97	129	30 2x240F 25	5	30L 25L
240	302-343/220-265	KTSF240-185	24	99	129	30 2x240F 27	5	30L 27L
300	340-400/180-220	KTSF300-150	24,5	98	130	32 2x300F 25	5	32L 25L
400	412-500/45-70	KTSF400-35	30	92	160	38 2x400F 13	4	38L 13L
400	412-500/69-103	KTSF400-50	30	97	160	38 2x400F 14,5	4	38L 14,5L
400	412-500/113-161	KTSF400-95	30	99	170	38 2x400F 20	4	38L 20L
400	412-500/180-220	KTSF400-150	30	103	175	38 2x400F 25	4	38L 25L
400	412-500/220-265	KTSF400-185	30	111	180	38 2x400F 27	4	38L 27L
400	412-500/302-343	KTSF400-240	30	112	190	38 2x400F 30	4	38L 30L
400	412-500/340-400	KTSF400-300	30	108	190	38 2x400F 32	2	38L 32L
500	500-580/45-70	KTSF500-35	33	92	160	42 2x500F 13	2	42L 13L
500	500-580/69-103	KTSF500-50	33	97	160	42 2x500F 14,5	2	42L 14,5L
500	500-580/113-161	KTSF500-95	33	100	170	42 2x500F 20	2	42L 20L
500	500-580/180-220	KTSF500-150	33	107	180	42 2x500F 25	2	42L 25L
500	500-580/220-265	KTSF500-185	33	111	180	42 2x500F 27	2	42L 27L
500	500-580/302-343	KTSF500-240	33	112	200	42 2x500F 30	2	42L 30L
500	500-580/340-400	KTSF500-300	33	113	200	42 2x500F 32	2	42L 32L
500	500-580/412-500	KTSF500-400	33	135	200	42 2x500F 38	2	42L 38L



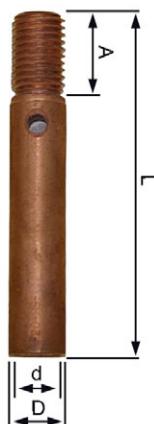
Lead through terminals 50 - 240 mm², D20 and D32

■ Electrolytic copper.

■ Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example: 14,5 50F Elpress logotype included

14,5 = die no. 50 = mm² F = type KSF, flexible, stranded and winding conductors



Flexible, stranded mm ²	Winding mm ²	Cat. No.	mm D	d	A	L	Pcs/ pack	Die No.
50	69-103	KGF50-D20	14,5	11	25	120	10	14,5L
50	69-103	KGF50-D32	14,5	11	25	105	10	14,5L
95	113-161	KGF95-D20	20	15	28	120	20	20L
95	113-161	KGF95-D32	20	15	28	105	10	20L
150	180-220	KGF150-D32	25	19	35	105	10	25L
240	302-343	KGF240-D32	30	24	35	105	10	30L

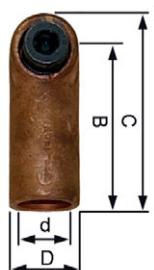
Terminals for tap changers 50 - 150 mm²

■ Electrolytic copper, cable inspection hole.

■ Cable inspection hole. For Cu-conductors; flexible, stranded and winding.

Marking example: 14,5 50F Elpress logotype included

14,5 = die no. 50 = mm² F = type KSF, flexible, stranded and winding conductors



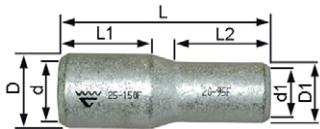
Flexible, stranded mm ²	Winding mm ²	Cat. No.	mm d	D	B	C	Pcs/ Pack	Die No.
50	69-103	KLF50-M10	11	14,5	45	59	25	14,5L
95	113-161	KLF95-M10	15	20	46	60	25	20L
150	180-220	KLF150-M10	19	25	54	68	25	25L

**Through connectors with different area 35 - 630 mm², KSF-L**

■ Electrolytic copper, tin plated.

■ For Cu-conductors; flexible, stranded and winding.

Marking example: 25-150F 20-95F Elpress logotype included

25 / 20 = Die No. 150, 95 = mm² F = type KSF, flexible, stranded and winding conductors

Flexible, stranded mm ²	Winding mm ²	Cat. No.	mm D	d	L ₁	D ₁	d ₁	L ₂	L	Pcs/ pack	Die No.
35-25	45-70/30-47	KSF35-25L	13	9	16	11	8	14	33	100	13L, 11L
50-25	69-103/30-47	KSF50-25L	14,5	11	20	11	8	16	40	50	14,5L, 11L
50-35	69-103/45-70	KSF50-35L	14,5	11	24	13	9	25	55	50	14,5L, 13L
70-35	100-120/45-70	KSF70-35L	17	13	24	13	9	25	60	50	17L, 13L
70-50	100-120/69-103	KSF70-50L	17	13	24	14,5	11	20	50	50	17L, 14,5L
95-35	113-161/45-70	KSF95-35L	20	15	25	13	9	25	60	25	20L, 13L
95-50	113-161/69-103	KSF95-50L	20	15	25	14,5	11	20	55	25	20L, 14,5L
95-70	113-161/100-120	KSF95-70L	20	15	25	17	13	25	60	25	20L, 17L
120-35	145-185/45-70	KSF120-35L	22	17	31	13	9	25	65	25	22L, 13L
120-50	145-185/69-103	KSF120-50L	22	17	31	14,5	11	20	60	50	22L, 14,5L
120-70	145-185/100-120	KSF120-70L	22	17	31	17	13	25	65	25	22L, 17L
120-95	145-185/113-161	KSF120-95L	22	17	31	20	15	31	70	25	22L, 20L
150-35	180-220/45-70	KSF150-35L	25	19	31	13	9	25	65	25	25L, 13L
150-50	180-220/69-103	KSF150-50L	25	19	31	14,5	11	20	60	25	25L, 14,5L
150-70	180-220/100-120	KSF150-70L	25	19	31	17	13	25	65	25	25L, 17L
150-95	180-220/113-161	KSF150-95L	25	19	31	20	15	31	70	25	25L, 20L
150-120	180-220/145-185	KSF150-120L	25	19	31	22	17	31	70	25	25L, 22L
185-50	220-265/69-103	KSF185-50L	27	21	31	14,5	11	25	65	25	27L, 14,5L
185-70	220-265/100-120	KSF185-70L	27	21	31	17	13	25	65	25	27L, 17L
185-95	220-265/113-161	KSF185-95L	27	21	31	20	15	31	71	25	27L, 20L
185-120	220-265/145-185	KSF185-120L	27	21	31	22	17	31	70	25	27L, 22L
185-150	220-265/180-220	KSF185-150L	27	21	31	25	19	31	71	25	27L, 25L
240-35	302-343/45-70	KSF240-35L	30	24	31	13	9	25	65	25	30L, 13L
240-50	302-343/69-103	KSF240-50L	30	24	31	14,5	11	30	70	25	30L, 14,5L
240-70	302-343/100-120	KSF240-70L	30	24	31	17	13	25	65	25	30L, 17L
240-95	302-343/113-161	KSF240-95L	30	24	31	20	15	31	71	25	30L, 20L
240-120	302-343/145-185	KSF240-120L	30	24	31	22	17	31	70	25	30L, 22L
240-150	302-343/180-220	KSF240-150L	30	24	31	25	19	31	70	25	30L, 25L
240-185	302-343/220-265	KSF240-185L	30	24	31	27	21	31	70	25	30L, 27L
300-70	340-400/100-120	KSF300-70L	32	24,5	35	17	13	24	70	25	32L, 17L
300-95	340-400/113-161	KSF300-95L	32	24,5	35	20	15	31	77	25	32L, 20L
300-120	340-400/145-185	KSF300-120L	32	24,5	35	22	17	31	76	25	32L, 22L
300-150	340-400/180-220	KSF300-150L	32	24,5	35	25	19	31	76	5	32L, 25L
300-185	340-400/220-265	KSF300-185L	32	24,5	35	27	21	31	76	20	32L, 27L
300-240	340-400/302-343	KSF300-240L	32	24,5	35	30	24	31	76	20	32L, 30L
400-95	412-500/113-161	KSF400-95L	38	30	45	20	15	31	90	10	38L, 20L
400-120	412-500/145-185	KSF400-120L	38	30	45	22	17	31	90	5	38L, 22L
400-150	412-500/180-220	KSF400-150L	38	30	45	25	19	31	90	10	38L, 25L
400-185	412-500/220-265	KSF400-185L	38	30	45	27	21	31	90	5	38L, 27L
400-240	412-500/302-343	KSF400-240L	38	30	45	30	24	31	90	10	38L, 30L
400-300	412-500/340-400	KSF400-300L	38	30	45	32	24,5	35	90	10	38L, 32L
500-150	500-580/180-220	KSF500-150L	42	33	47	25	19	31	101	10	42L, 25L
500-185	500-580/220-265	KSF500-185L	42	33	47	27	21	31	101	5	42L, 27L
500-240	500-580/302-343	KSF500-240L	42	33	47	30	24	31	101	5	42L, 30L
500-300	500-580/340-400	KSF500-300L	42	33	47	31,5	24,5	35	105	5	42L, 32L
500-400	500-580/412-500	KSF500-400L	42	33	47	38	30	45	115	5	42L, 38L
630-240	630-730/302-343	KSF630-240L	50	39	76	30	24	35	111	5	50L, 30L
630-300	630-730/340-400	KSF630-300L	50	39	60	31,5	24,5	35	111	5	50L, 32L
630-400	630-730/412-500	KSF630-400L	50	39	60	38	30	45	121	5	50L, 38L
630-500	630-730/500-580	KSF630-500L	50	39	60	42	33	50	126	4	50L, 42L



Parallel through connectors, winding to flexible conductor 50 - 240 mm²

■ Electrolytic copper, tin plated.

■ For combination of winding and flexible or stranded conductors.

■ Working range 34-280 mm².

Marking example: 120 P22L Elpress logotype included

120 = mm² P22L = die no.



Flexible, stranded mm ²	Winding mm ²	Cat. No.	mm d	D	W	L	H	h	Pcs/ Pack	Die No.
25	9-30	KS50PL	11,6	15,2	15,2	30	12,5	8,9	100	P14,5L
35	31-52	KS70PL	13,7	17,7	17,7	30	15	11	100	P17L
50	38-62	KS95PL	16,1	21,1	21,1	30	18	13	100	P20L
50 / 70	63-90 / 43-70	KS120PL	17,7	22,7	22,7	32	20	15	50	P22L
70	71-105	KS150PL	19,4	25,4	25,4	34	23	17	50	P25L
95	81-120	KS185PL	21,4	27,4	27,4	36	25	19	25	P27L
120	96-160	KS240PL	24,7	30,7	30,7	38	28	22	25	P30L

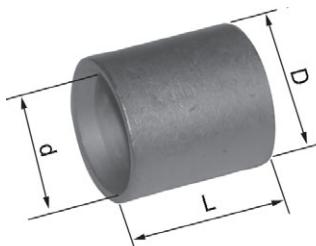
Parallel through connectors 25 - 630 mm², KS-P

■ Electrolytic copper, tin plated.

■ Cable inspection hole. For Cu-conductors; flexible, stranded.

Marking example: 17 70 Elpress logotype included

17 = die no. 70 = mm²



Flexible, stranded mm ²	Cat. No. mm ²	mm d	D	L	Pcs/ pack	Die No.
25	KS25P	8	11	14	200	11L
35	KS35P	9	13	16	100	13L
50	KS50P	11	15	18	100	14,5L
70	KS70P	13	17	18	100	17L
95	KS95P	15	20	20	100	20L
120	KS120P	17	22	26	100	22L
150	KS150P	19	25	26	50	25L
185	KS185P	21	27	28	50	27L
240	KS240P	24	30	30	25	30L
300	KS300P	26	32	35	50	32L
400	KS400P	30	38	50	50	38L
500	KS500P	33	42	52	10	42L
630	KS630P	39	50	62	10	50L

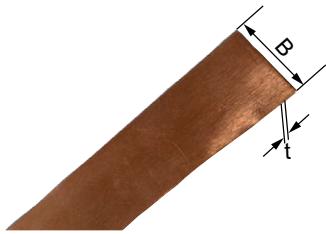


Copper strip

■ Electrolytic copper strip, thickness 0,4 mm.

■ To be used as filling material, six different widths depending on the size of the terminal.

■ No marking.

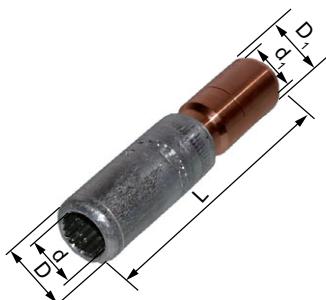


Cat. No.	mm B	t	Pack
			/m
CU0415L	15	0,4	
CU0420L	20	0,4	
CU0425L	25	0,4	
CU0430L	30	0,4	
CU0450L	50	0,4	
CU0460L	60	0,4	

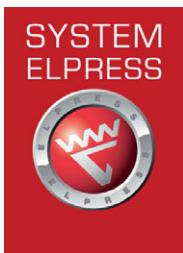
Al-Cu bimetalic through connectors 10 - 240 mm²

■ Connect Al winding conductors to Cu stranded and flexible conductors.

■ Al-range 35-310 mm². Cu-range 10-185 mm².



Cu, flexible stranded mm ²	Al, winding mm ²	Cat. No.	mm d	D	d ₁	D ₁	L	Pcs/ Pack	Cu die no.	Al die no.
10	35-50	AKS35L-10	8,5	20	5	8	69	25	B8	13P20M2/D2
16	35-50	AKS35L-16	8,5	20	6	9	69	25	B9	13P20M2/D2
25	35-50	AKS35L-25	8,5	20	8	11	74	25	B11L	13P20M2/D2
10	50-70	AKS50L-10	9,6	20	5	8	69	25	B8	13P20M2/D2
16	50-70	AKS50L-16	9,6	20	6	9	69	25	B9	13P20M2/D2
25	50-70	AKS50L-25	9,6	20	8	11	74	25	B11L	13P20M2/D2
35	50-70	AKS50L-35	9,6	20	9	13	79	25	B13L	13P20M2/D2
50	50-70	AKS50L-50	9,6	20	11	14,5	83,5	25	B14,5L	13P20M2/D2
35	70-100	AKS70L-35	11,3	20	9	13	79	25	B13L	13P20M2/D2
50	70-100	AKS70L-50	11,3	20	11	14,5	83,5	25	B14,5L	13P20M2/D2
70	70-100	AKS70L-70	11,3	20	13	17	85,5	25	B17L	13P20M2/D2
35	100-125	AKS95L-35	12,5	25	8,8	12,8	94	25	B13L	13P25M2/D2
50	100-125	AKS95L-50	12,5	25	11	14,5	99	25	B14,5L	13P25M2/D2
70	100-125	AKS95L-70	12,5	25	13	17	101	25	B17L	13P25M2/D2
50	125-160	AKS120L-50	14	25	11	14,5	99	25	B14,5L	13P25M2/D2
70	125-160	AKS120L-70	14	25	13	17	101	25	B17L	13P25M2/D2
95	125-160	AKS120L-95	14	25	15	20	101,5	25	B20L	13P25M2/D2
70	160-216	AKS150L-70	16	25	13	17	101	25	B17L	13P25M2/D2
95	160-216	AKS150L-95	16	25	15	20	101,5	25	B20L	13P25M2/D2
120	160-216	AKS150L-120	16	25	17	22	106,5	25	B22L	13P25M2/D2
95	216-270	AKS185L-95	17,6	32	15	20	100,5	10	B20L	13P32M2/D2
120	216-270	AKS185L-120	17,6	32	17	22	105,5	10	B22L	13P32M2/D2
150	216-270	AKS185L-150	17,6	32	19	25	106	10	B25L	13P32M2/D2
120	270-310	AKS240L-120	19,8	32	17	22	105,5	10	B22L	13P32M2/D2
150	270-310	AKS240L-150	19,8	32	19	25	106	10	B25L	13P32M2/D2
185	270-310	AKS240L-185	19,8	32	21	27	106,5	10	B27L	13P32M2/D2



System Elpress

System Elpress consists of connectors and tools tested together for optimum connection result. The System concept makes you as a customer able to feel secure when using our system and to be sure a safe connections is made when Elpress products are used correctly.

Hydraulic crimp systems

Elpress hydraulic crimp systems fit Elpress terminals and connectors from 25 to 630 mm². The systems comprise either pumps and crimp heads which can be freely combined or by complete hand held tools where these functions are integrated.

For crimping, prrounding of sectorised conductors, cable cutting, etc. there are a variety of accessories. Together with matching terminals the complete crimp system is formed. Both pumps and manual tools have, with a few exceptions, fast feed function that allows the actual crimping to start after the dies have rapidly been brought in contact with the terminal. There is also a full-closure function to safe-guard a complete crimp action.

V1300-system Cu



Crimp head

Cu terminals

V1300 system for crimping of Cu terminals and pre-rounding of Cu conductors 25-240 mm².

V1300-system Al



Crimp head

Al terminals

V1300 system for crimping of Al terminals and pre-rounding of Al conductors 35-240 mm². Pre-rounding is done on sector-shaped Al winding conductors.

V250-system Cu



Crimp head

Cu terminals

V250-system for crimping of Cu terminals and pre-rounding of Cu conductors 150-630 mm².



Crimping Systems

SYSTEM 1300 for crimping Cu terminals 25 - 240 mm², and Al terminals 35 - 240 mm²

V1300



V1300L



PVL1300



LV1300L



V1300 / V1300L

Elpress crimp head, used with battery / mains powered pump PS710.

Particulars:

- crimps Cu-conductors of type KRF-L up to 240 mm²
- V1300L is equipped with protective rubber coating on top of the fork
- equipped with oil spray safety protection cap
- working pressure 63 MPa (630 bar)
- weight 3,7 kg, excl. accessories
- length 270 mm, incl. quick coupling, width 82 mm
- crimp force 130 kN (13 tons)
- light and flexible steel crimp head
- special nitrogen anti-corrosion surface treatment

PVL1300

Battery powered crimp tool with 13 tons force. Uses the same crimp accessories as the other products in the above V1300 System.

Particulars:

- ergonomic design that optimizes the balance of the tool in the users hand
- buzzing signal and flashing light if right pressure is not achieved
- LED lightning for work in dark environments
- possibility to document each crimp for unique service control
- crimp force 124 kN (13 ton)
- crimps/charge: 60-120 depending on size and temperature
- crimp time: 4-12 s depending on size
- working temperature -20°C to +40°C
- environmental friendly battery, Li-Ion Makita, 3.0 Ah, 18V
- battery charger Li-Ion Makita, charging time 22 min
- LED indication of charge status
- supplied with robust plastic case, battery, charger and instruction
- PVL1300DB, supplied with 2 batteries
- weight 5,4 kg, (incl battery)

Storage box LV1300L

Carry box which takes the tool V1300/V1300L and all necessary accessories to crimp Elpress Cu- and Al terminals.

Particulars:

- steel reinforced plywood
- polyethylen insert material
- sturdy, form cut inserts
- weight 5.2 kg, excl. accessories
- length 570 mm, width 435 mm, height 130 mm.



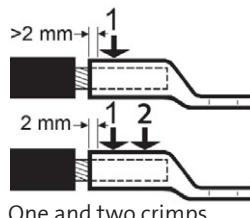
Accessories for crimping Cu and Al with V1300, V1300L and PVL1300



Rounding punch 13R15DL and matrix 13R15ML.



Die 13B20L.



One and two crimps.



Matrix 13P22ML and punch 13P22DL.

- Note that KRF terminals may be used on flexible (IEC60228, class 5) as well as stranded (class 2) conductors and for crimping of winding conductors in Transformer manufacture.
- Be sure to use dies exactly matching the terminal.

Pre-rounding of Cu

For pre-rounding copper winding conductors to fit the connector in question.

Connector size mm ²	Winding, mm ²	Matrix No.	Punch No.
25	30-47	13R8ML	13R8DL
35	45-70	13R9ML	13R9DL
50	69-103	13R11ML	13R11DL
70	100-120	13R13ML	13R13DL
95	113-161	13R15ML	13R15DL
120	145-185	13R17ML	13R17DL
150	180-220	13R19ML	13R19DL

Crimp dies for Cu

Supplied as a pair. For hexagonal crimping of Cu terminals and connectors.

KRF/KSF			
Flexible, stranded, mm ²	Winding, mm ²	Dies	No. of crimps
10	-	13B8	1
16	-	13B9	1
25	30-47	13B11L	1
35	45-70	13B13L	1
50	69-103	13B14,5L	1
70	100-120	13B17L	1
95	113-161	13B20L	1
120	145-185	13B22L	2
150	180-220	13B25L	2
185	220-265	13B27L	2
240	302-343	13B30L	2

Crimp dies for crimping of KS-PL

For crimping of parallel copper through connectors for transitions between winding- and flexible conductors.

Flexible conductor, mm ²	Winding conductor, mm ²	Working range, mm ²	Matrix No.	Punch No.	No. of crimps
25	9-30	32-62	13P14,5ML	13P14,5DL	1
35	31-52	66-87	13P17ML	13P17DL	1
50	38-62	88-112	13P20ML	13P20DL	1
50	63-90	113-140	13P22ML	13P22DL	1
70	43-70	113-140	13P22ML	13P22DL	1
70	71-105	141-175	13P25ML	13P25DL	1
95	81-120	176-215	13P27ML	13P27DL	1
120	96-160	216-280	13P30ML	13P30DL	1



Crimping Systems

Pre-rounding of Al

For pre-rounding aluminium winding conductors to fit the connector in question.



Rounding matrix 13R15ML-AL and
rounding punch 13R15DL-AL.



Matrix 13P25M2 and punch
13P25D2.

Punch and matrix for Al

For crimping of the aluminium side of the bimetallic connector.

Connector size mm ²	Winding, mm ²	Matrix No.	Punch No.
35	35-50	13P20M2	13P20D2
50	50-70	13P20M2	13P20D2
70	70-100	13P20M2	13P20D2
95	100-125	13P25M2	13P25D2
120	125-160	13P25M2	13P25D2
150	160-200	13P25M2	13P25D2
185	200-250	13P32M2	13P32D2
240	270-310	13P32M2	13P32D2



Battery powered crimp tool for crimping of standard tap changers for 30 A and 63 A

PV130L



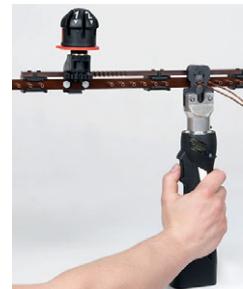
PV130L



Die pair LB7.

Particulars:

- easy-to-open crimp head for rapid die change
- slim ergonomic design - good accessibility even in confined areas
- NiMh battery (9.6 V, 2,0 Ah), charge time approx. 40 minutes
- rapid crimp operation 2-4 seconds
- dies for crimping of special through connectors
- weight 1,6 kg, length 360 mm

**Dies for crimping with PV130L**

Transformer tap changer	Die No.
Size Ø 5 mm	LB5
Size Ø 7 mm	LB7

Crimping tool for off-load transformer tap changers



ES2258LB5

Particulars

- designed for standardized 30 A and 63 A tap changers
- ergonomic handles for easier installation
- scissor movement for access into narrow spaces
- ratchet latch
- hexagonal crimp geometry
- possibility of calibration

ES2258LB5

A crimping tool for solid copper wires of diameters 2.5-2.8 mm in combination with 5 mm transformer tap changer connectors.

Particulars:

- weight 0.65 kg, length 300 mm

ES2258LB7

A crimping tool for solid copper wires of diameter 4.0 mm in combination with 7 mm transformer tap changer connectors.

Particulars:

- weight 0.65 kg, length 300 mm



ES2258LB7



Crimping Systems

SYSTEM V250 for crimping Cu terminals 150 - 630 mm²

V250



V250L



LV250L



V250 / V250L

Crimp head used together with battery / mains powered pump PS710

Particulars:

- equipped with oil spray safety protection cap
- V250L is equipped with protective rubber coating on top of the fork
- working pressure 63 MPa (630 bar)
- crimp force 250 kN (25 ton)
- crimp terminals and connectors of type KRF/KSF, Cu-conductors up to 630 mm²
- tested with Elpress pumps and connectors
- weight 4.6 kg, excl. accessories
- dimensions Ø 111 mm x 280 mm

Storage box LV250L

Carry box which takes the tool V250 / V250L and all necessary accessories to crimp Elpress Cu terminals and through connectors.

Particulars:

- steel reinforced plywood
- polyethylen insert material
- sturdy, form cut inserts
- weight 5.2 kg, excl. accessories
- length 570 mm, width 435 mm, height 130 mm.



Accessories for crimping Cu with V250 and V250L

- Note that KRF terminals may be used on flexible (IEC60228, class 5) as well as stranded (class 2) conductors and for crimping of winding conductors in Transformer manufacture.
- Be sure to use dies exactly matching the terminal.

Pre-rounding of Cu

For pre-rounding copper winding conductors to fit the connector in question.

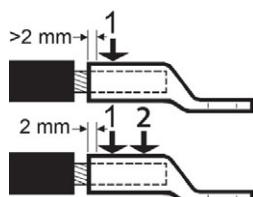


Rounding matrix 25R21ML and
rounding punch 25R21DL.

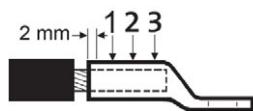
Flexible, stranded, mm ²	Winding, mm ²	Matrix No.	Rounding punch No.
185	220-265	25R21ML	25R21DL
240	302-343	25R24ML	25R24DL
300	340-400	25R26ML	25R26DL
400	412-500	25R30ML	25R30DL
500	500-580	25R33ML	25R33DL
630	630-730	25R39ML	25R39DL



B2527L.



One and two crimps.



Three crimps.

Crimp dies for Cu

Supplied in pairs.

For hexagonal crimping of Cu terminals and connectors.

KRF/KSF			
Flexible, stranded, mm ²	Winding, mm ²	Dies	No. of crimps
150	180-220	B2525L	1
185	220-265	B2527L	1
240	302-343	B2530L	1
300	340-400	B2532L	1
400	412-500	B2538L	2
500	500-580	B2542L	2
630	630-730	B2550L	3



Light weight and handy pump designed according to customer request



PS710

PS710 is a hydraulic battery / mains powered pump for crimping with advanced control and supervision of the crimp procedure. It is equipped with a flexible system for almost all crimp applications where high performance and reliability is required. The pump is suitable for cable harness manufacturing as well as for electricians working with utility, installation or service work. PS710 has power source for every kind of crimping work.

Technical data:

- possible to use different working pressures, 0 to 700 Bar.
- PC software, Analyzer, for crimp analysis and quality process integration
- can be used with a PC in a data network with a printer
- oil flow at 20 bar: 0.6 litre/min (PS710D 1.2 litre/min)
- oil volume: 1.0 litre
- oil type: HYDREX MV 22 (hydraulic oil, mineral type) or similar
- mains power 100-240 VAC 50-60 Hz
- Li-ion battery 28.8 V, 3.0 Ah
- crimps/battery charge: 120 crimps with Cu 150 mm²
- charger 230 VAC 50 Hz, 10.8-28.8 V, charging time 65 min
- protection class IP54
- ambient temperature - 15 to 40 °C
- CE-approved: Machine safety 98/37/EG, Electro magnetic compatibility 2004/108/EG, Low voltage directive 73/23/EEG, ROHS 2002/95/EC, WEEE 2002/96/EC
- weight approx. 11 kg
- small dimensions 370x250x160 mm



PS710E

For the installer working in the distribution network or in the industry.

Technical data:

- small size and low weight make it easy to use in every situation
- highest performance both with Li-ion battery 28.8 V and mains power
- display with keypad for full pump status information to operator
- possibility to have crimps stored in control system
- PC communication with USB
- new Elpress ergonomic handle for hydraulic crimp heads, ERGOCOM, with wireless communication is supplied together with PS710E (not available in USA and Canada)

Standard solutions:

PS710E251*

Included:

- pump E-version
- mains cable (for EU)
- hydraulic hose 2.5 m
- battery
- charger
- strap

PS710E501*

Included:

- pump E-version
- mains cable (for EU)
- hydraulic hose 5.0 m
- battery
- charger
- strap

* for customers outside EU-countries, please contact Elpress



PS710R

For the user asking for standard solutions (without need of crimp traceability).



Technical data:

- pump control without electronic system, relayed controlled
- easy equipped without data communication
- without battery
- new Elpress ergonomic handle for hydraulic crimp heads, ERGO, with wired communication is supplied together with PS710R

Standard solutions:

PS710R250*

Included:

- pump R-version
- mains cable (for EU)
- hydraulic hose 2.5 m
- strap

* for customers outside EU-countries, please contact Elpress



Battery powered cable cutter

PKL54

PKL54



Electric cable cutter for copper and aluminium cable; easy and safe to operate.

Particulars:

- electric cable cutter for copper and aluminium cable
- not intended for cutting steel
- max cutting diameter 54 mm; equivalent to 1 kV Cu type FKKJ 4 x 95 mm²
Al type AKKJ 4 x 240 mm²/Al type SE-N1XV 4G x 240 mm²equivalent to
12 kV Al type AXLJ 3 x 150 mm²
- charger 7.2-24V, charging time for battery approx. 60 min
- the tool has a scissor action when cutting, which produces a good cut
- integrated fuse as overvoltage protection
- protective cap for perfect safety, CE approved
- delivered with case and two batteries, 14.4V NiMH

Accessories:

- PVBP2-Mh, extra battery

Area	Cat. No.	Weight	Dimensions
Ø 54 mm	PKL54	3,5 kg (incl battery)	450x105x120 mm



Cable cutter up to Ø 50 mm

HKS50



UFE2



UFE1



UFEB



UFE



UCUAL

HKS50

Cutting tool for Cu/Al and steel cable with exchangeable cutting blades. HKS50 is delivered with universal blade UFE1 for Al/Cu, ACSR, flexible steel wire and anchoring cable. Supplied in a robust textile bag with instructions for use and a cleaning comb.

Particulars:

- one hand operation
- scissor movement
- change blades fast and easy with release of two screws
- clear marking of usage on the blades
- reliable and well proven ratchet drive

Area	Cat. No.	Weight	Length
Ø50 mm	HKS50	1.4 kg	230 mm

Blades for HKS50

Area	Cat. No.	Application
Ø 50 mm	UFE2	For Cu/Al, flex. steel wire, INOX, ACSR, screws, anchoring cable, piano wires and catenary cable.
Ø 50 mm	UFE1	For Cu/Al, flex. steel wire, INOX, ACSR, screws, anchoring cable and catenary cable.
Ø 30 mm	UFEB	For Cu/Al, flex. steel wire, ACSR and main application are for cutting data/signal cable.
Ø 50 mm	UFE	For Cu/Al, flex. steel wire, ACSR.
Ø 50 mm	UCUAL	For Cu/Al cable, clean cut and appropriate for most flexible cables. Does not cut steel.



Hydraulic cable cutters

■ Not for steel wires or steel wire armoured cables.

HKL40/KL40, HKL55/KL55, HKL85/KL85

A range of cable cutters covering virtually all needs for cutting power cables and OH-line wires. The cutting heads are powered by Elpress battery and mains operated electrohydraulic pump PS710.

Area	Cat. No.	Description	Weight	Dimensions
Ø 40 mm	HKL40	Manual cutting tool	5.9 kg	645x85x165
Ø 55 mm	HKL55	Manual cutting tool	3.7 kg	560x55x140
Ø 85 mm	HKL85	Manual cutting tool	7.6 kg	745x72x190
Ø 40 mm	KL40	Cutting head	4.3 kg	285x85x105
Ø 55 mm	KL55	Cutting head	3.0 kg	300x55x110
Ø 85 mm	KL85	Cutting head	6.2 kg	385x75x170

Technical specifications



Hydraulic manual cutters	HKL40	HKL55	HKL85
Hydraulic cutting heads	KL40	KL55	KL85
Max. opening	Ø 40	Ø 55	Ø 85
Max. cutting force, KN	88	43	55
Max. cutting capacity, examples.			
copper cable	Ø 40	400 (500) mm ²	630 mm ²
Cu annealed solid conductor		Ø 20	
Cu rod	Ø 30		
Aluminium cable	Ø 40	3x240+95 mm ²	3x240+95 mm ² 630 (800 mm ²)
Al annealed solid conductor		Ø 25	
ACSR	Ø 40		
Al bar	ca Ø 40		
Telephone cable		Ø 55	
Steel wire (<180 daN/mm ²)	Ø 11		
Steel rod	Ø 18		

Do not cut steel wire armoured cables.



SYSTEM ELPRESS

System Elpress symbolizes our **cornerstones**—safety and quality. In order to achieve a secure connection we offer **certified solutions** of the combination cable, terminal and tool.

For the installation to be accurate, the installer should undergo training in crimping technology at **Elpress Academy**.



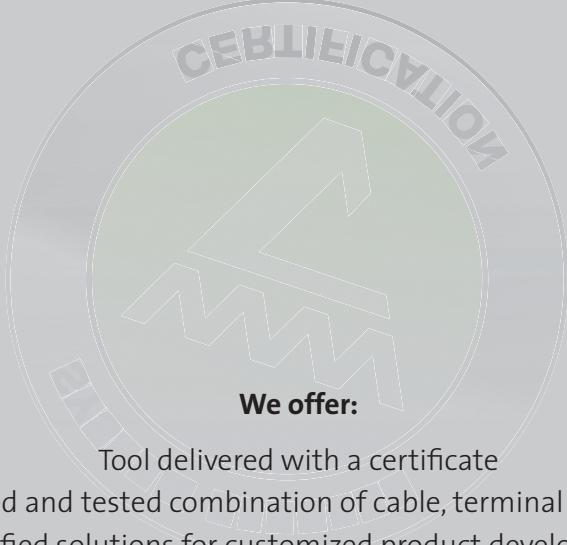
For non-standard solutions you can **consult** us and let our own production and laboratory verify your solution. A preventive **service** maintenance of the tool is the base for the system to work.

Certification, Academy, Consulting and Service is System Elpress – your secure connection!



*We manufacture tested systems for electrical connectors
and their tools. You get a secure connection*

SYSTEM ELPRESS CERTIFICATION



We offer:

Tool delivered with a certificate

Verified and tested combination of cable, terminal and tool

Certified solutions for customized product development

Product approval in accordance with UL, DNV and CSA

Third part quality and environment certification in accordance with ISO9001 and ISO14001



In order to achieve a secure connection we offer certified solutions of the combination cable, terminal and tool.

This is so that you as customer can feel secure when you use our system and be sure that a safe connection will be made when our products are used correctly.

FOR YOUR SAFETY

The System includes:

- Terminal, connector
- Crimping tool
- Correct cable
- Trained and skilled operator

The system is developed and tested in accordance with existing norms and standards, for example IEC.

Product development

- Customized solutions
- Specialized segment solutions
- Leading technology in our industry
- Innovative products





**Quality & environment certified
and approved according to**

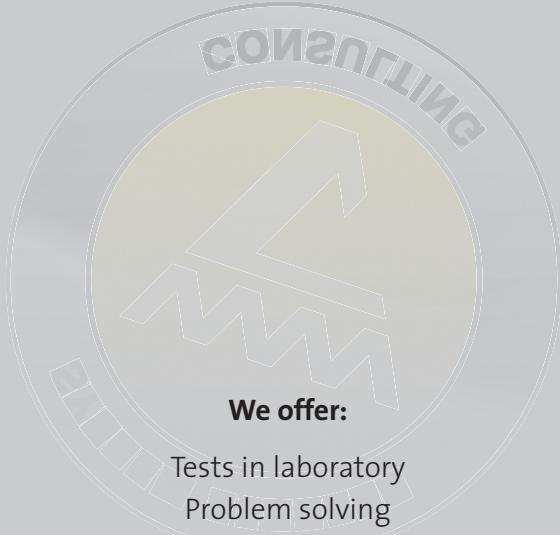
- ISO 14001
- ISO 9001
- DNV
- UL





*We have the necessary resources for you
to maintain the highest quality*

SYSTEM ELPRESS CONSULTING



We offer:
Tests in laboratory
Problem solving
Technical and customer support
Customized terminals and tools
Audits and validations at your premises





WHY CONSULT US?

We have been developing, manufacturing and marketing complete cable crimping systems for electrical connectors with more than 50 years of experience. We have therefore the best knowledge and equipment for your requirements and demands.

You will have access to:

- Our technical department that develops constructions according to your needs.
- Our production who can manufacture unique solutions.
- Our laboratory who can supply for example
 - Electrical tests
 - Mechanical tests
 - Corrosion- and environmental tests

Contact us and let us assist you.







*Your educated personnel ensures the final quality of products and services.
Our Academy certificate is a quality document between you and your customer*

SYSTEM ELPRESS ACADEMY



We focus on the following four areas:

- Utility sector and installers
- Transformer manufacturers
- Traction/Train manufacturers
- Wind Power manufacturers



WHO AND HOW DO WE EDUCATE?

Utility and installation personnel

Level 1

General training for all staff. Provides a general knowledge of crimping in all areas;

- Crimping in general
- Terminals below 10 mm²
- Cu-connectors over 10 mm²
- Al-connectors from 16 mm²
- Cu-branching
- Bolt connections
- Deep earthing
- Standards and requirement
- Safety and maintenance

The program combines theory and practice and concludes with a written test. Course participants will receive certificate after completed education.

Level 2

Education aimed primarily at supervisors, engineers, designers and quality departments. Provides a deeper knowledge of the crimping and maintenance routines. After completed training, the competence is indicated with a certificate.

Documentation

After completed training each participant receives a certificate of the fulfilled education.

Time and place

A complete training seminar level 1 takes 2 days and you can decide whether the training should be at your premises or held in Elpress' training facility. Training level 2 takes approximately 1 day depending on scope.

Price

Base-price seminar level 1 EUR350/person.

Seminar level 2 EUR500/person.

Price can vary depending on the scope and number of participants. Maximum number of participants per seminar is 15. Travel expenses for the training officer are additional costs.

Transformer manufacturers

Level 1

For operators who work daily in the production. The aim is to train personnel in the special conditions applying in the transformer manufacturing. The education concerns;

- Crimping in general
- Management of tools
- Calculations and preparation for crimping
- Work procedure
- Quality inspection
- Safety in use
- Preventive maintenance in daily production

The training consists of a theoretical and a practical part and ends with a written test. Course participants will receive certificate after completed education.

Level 2

Education aimed primarily at supervisors, designers and quality departments. Provides a thorough knowledge of calculations, tool selection and management, problems and solutions and quality assessment. Completed training gives a certified authorization in the field.

Documentation

Course participants will receive Elpress Work Manual for transormer manufacture and a certificate of the fulfilled education.

Time and place

A complete training seminar level 1 takes 1 day and the training takes place in your facilities. Training level 2 takes approximately 1 day depending on scope.

Price

Base-price seminar level 1 EUR250/person.

Seminar level 2 EUR500/person.

Price can vary depending on the number of participants. For efficiency the maximum number of participants per seminar is 10. Travel expenses for the training officer are additional costs.

A follow-up of the certificates is necessary



Each training has two levels: a basic education for all staff, and a training targeted at designers, supervisors and quality controllers. It is also possible to adjust the training so the content fits the needs of the company. You can also decide whether the training should be at your premises or held in Elpress' training facility.

Traction/Train manufacturers

Level 1

Educate staff in the special demands and external conditions that apply in the manufacture of rail traffic. The education concerns;

- Crimping in general
- Management of tools
- Work procedure
- Elpress Dual-technology
- Quality control
- Safety in use
- Preventive maintenance in daily production

The training consists of a theoretical and a practical part and ends with a written test. Course participants will receive certificate after completed education.

Level 2

Education aimed primarily at supervisors, designers and quality departments. Provides a thorough knowledge of the selection of tools and management, problems and solutions and quality assessment. Completed training gives a certified authorization in the field.

Documentation

After completed training each participant receives a certificate of the fulfilled education.

Time and place

A complete training seminar level 1 takes 1 day and you can decide whether the training should be at your premises or held in Elpress' training facility. Training level 2 takes approximately 1 day depending on scope.

Price

Base-price seminar level 1 EUR250/person.

Seminar level 2 EUR500/person

Price can vary depending on the number of participants.

For efficiency the maximum number of participants per seminar is 15. Travel expenses for the training officer are additional costs.

Wind Power manufacturers

Level 1

Educate staff in the special demands and external conditions that apply in the manufacture of wind turbines. The education concerns;

- Crimping in general
- Management of tools
- Management of tools
- Work procedure
- Elpress Dual-technology
- Quality inspection
- Safety in use
- Preventive maintenance in daily production

The training consists of a theoretical and a practical part and ends with a written test. Course participants will receive certificate after completed education.

Level 2

Education aimed primarily at supervisors, engineers and designers and quality departments. Provides a thorough knowledge of the selection of tools and management, problems and solutions and quality assessment. Completed training gives a certified authorization in the field.

Documentation

After completed training each participant receives a certificate, showing the scope of the education, together with a compendium about crimping.

Time and place

A complete training seminar level 1 takes 1 day and you can decide whether the training should be at your premises or held in Elpress' training facility. Training level 2 takes approximately 1 day depending on scope.

Price

Base-price seminar level 1, EUR250/person.

Seminar level 2 EUR500/person

Price can vary depending on the number of participants.

For efficiency the maximum number of participants per seminar is 15. Travel expenses for the training officer are additional costs.

A follow-up of the certificates is necessary



*Preventive maintenance agreements
secure the quality of your connection*

SYSTEM ELPRESS SERVICE



- Preventive maintenance agreements
- Calibration of certified tools
- Repairs/maintenance of tools
- Crimping systems for rent
- Sales of spare parts



WHAT IS THE BEST SOLUTION FOR YOU?

Preventive maintenance agreements

Our Service offers you a flexible solution for enhanced security, with rapid service and high availability:

- Planned and preventive maintenance guarantees high performance for your equipment.
- Regular service intervals minimize the risk of unforeseen stoppages by indicating any safety or functional defects and by recommending measures to avoid such problems.
- Regular service intervals are normally implemented every 12 months at a fixed price.

- The price is based on the service level solution and equipment.
 - A certificate is issued after the equipment has complied with calibration requirements..
- The maintenance can be performed at your premises.

Elpress Basic

Elpress Basic service agreement includes following points:

- Preventive maintenance, calibration with certification.
- General inspection of the tool
- Safety aspects in accordance with declaration of conformity (Compliance with Machine Safety Directive, Low Voltage Directive, EMC Directive)
- Function test
- Checking of accessories, e.g. crimp dies etc.
- Issue of Certificate

The inspection follows Elpress final inspection and acceptance inspection requirements.

Elpress Advance

Elpress Advance service agreement includes following points:

- Elpress Basic + corrective maintenance

Includes the Calibration/certification and wear & tear repairs at a fixed price.

Calibration of certified tools

The calibration follows the same inspection points and requirements as Elpress Basic, but it is the customer's responsibility to send the tool for calibration.

Purchased a new product?

Send the Product registration form to Elpress and Elpress Basic is included for free the first year.





Since 1959 Elpress develops, manufacture and market complete crimping systems for electrical conductor terminations.

Head office and factory with 120 employees are placed in Kramfors, Sweden.

We have our own sales companies in Germany, Denmark and China.

A wide network of qualified representatives support other markets.

