

ELPRESS

Elpress System



Product brochure

Elpress Wind Power Catalogue

Reliable Results





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.

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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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

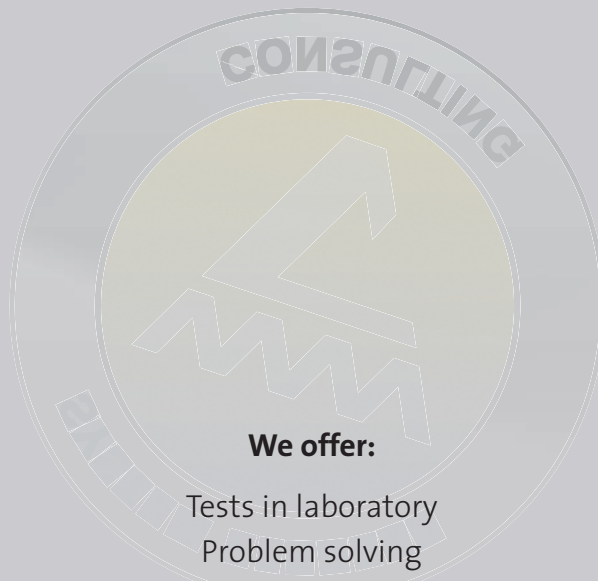
- ISO 14001
- ISO 9001
- DNV
- UL





*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?

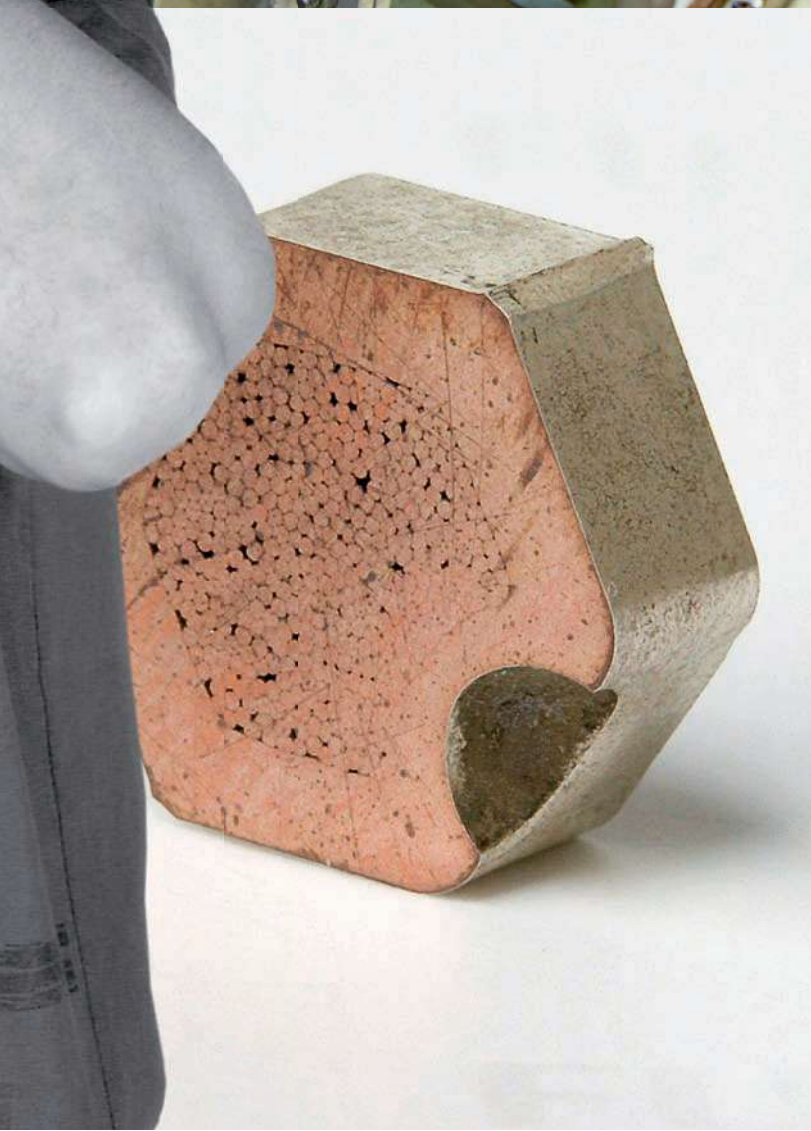
We have been developing, manufacturing and marketing complete cable crimping systems for electrical connectors with more than 50 years of experience. We have therefore the best knowledge and equipment for your requirements and demands.

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 transformer 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
- 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

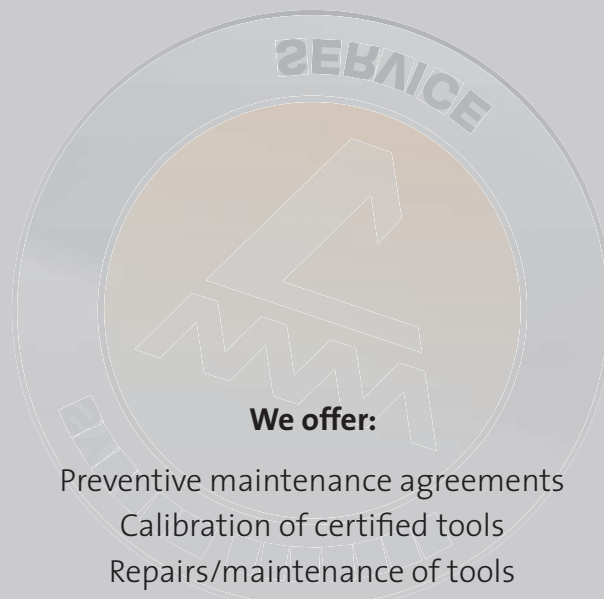
Price can vary depending on the number of participants. For efficiency the maximum number of participants per seminar is 15. Travel expenses for the training officer are additional costs.

A follow-up of the certificates is necessary



*Preventive maintenance agreements
secure the quality of your connection*

SYSTEM ELPRESS SERVICE



We offer:

- 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 premisses.

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:

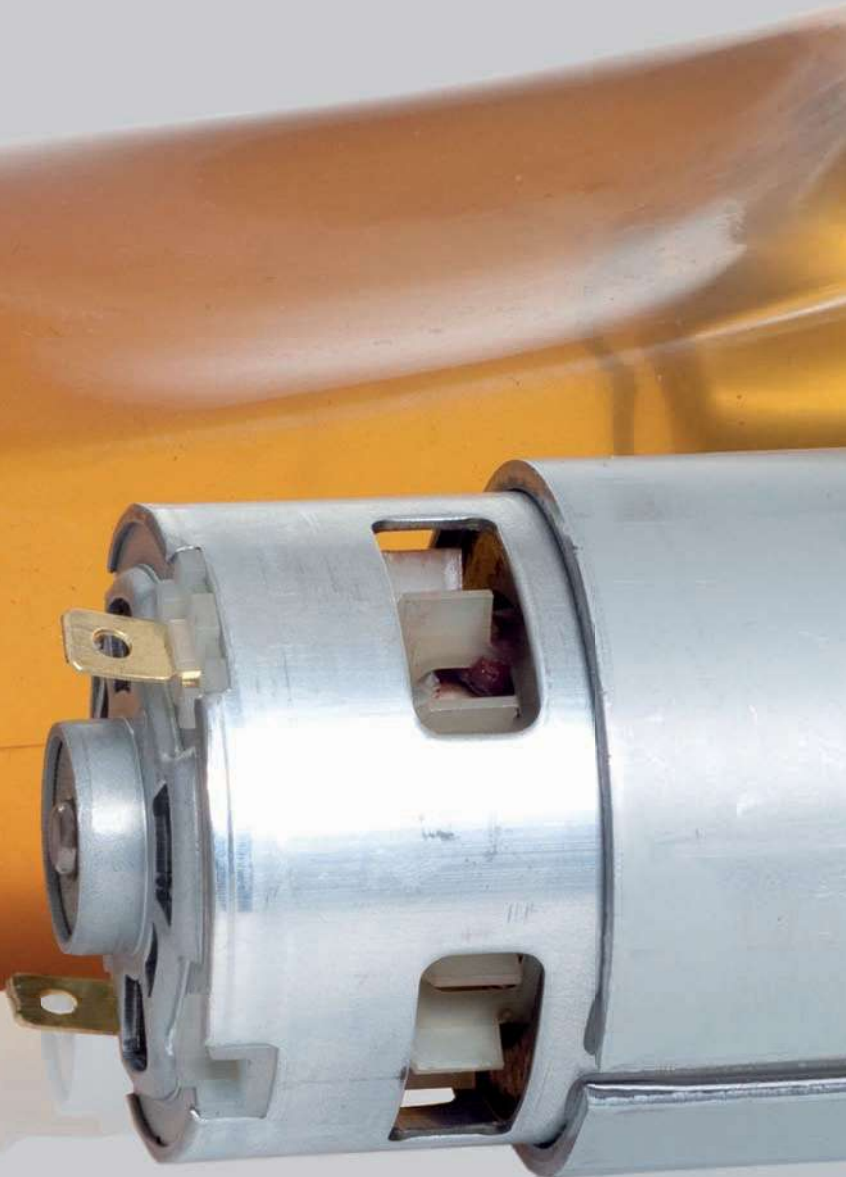
- Elpress Basic + corrective maintenance
- Includes the Calibration/certification and wear & tear repairs at a fixed price.

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.



What's special with Wind applications?

During several years Elpress has had contact with manufacturers of demanding applications like trains and windpower manufacturers, or with their sub-suppliers of cable assemblies. In these contacts it has been more and more apparent that there is quite a spectrum of different requirements that is regarded highly relevant to the use in these applications.

- First of all comes of course the requirements of **electrical** properties and mainly the current carrying capacity. These requirements must be seen in the light of high currents and current peaks in lowest possible conductor areas and the requirements of flexible conductors.
- Wind applications may include tough **corrosion** resistance requirements.
- **Vibrations** as well as **static** loads may occur and be of the most different types. The connection must stand these loads.

Elpress has gone through which tests that may be used to verify that our terminals and connectors together with our crimp systems meet the Wind application requirements. Together with customers the following test standards have been regarded relevant:

- Electrical properties - **IEC61238-1, Class A**. This is a relatively new standard corresponding to or in many cases superceding most earlier European standards.
- Environmental requirements - **DIN V 40 046, part 37**. The choosen part of this German standard states a very tough test where hydrogen sulphide is used as the aggressive substance.
- Static loads normally form part of established electrical tests and this is the case also in the IEC-Standard referred to above. The load limits are often rather low but in the Swedish Standard **SEN 245010** relatively high load limits are given and these are therefore used here.
- Vibration tests are hard to carry through in a representative manner. This is due to the very different load patterns that every build-in case may give. A European test for railway applications - **EN 50155** - has been used in applicable parts.



Crimping is a System Technology. This means that it is the combination of a choosen terminal or connector and a matching crimp tool, all determined by the specific conductor that will result in the desired connection properties.

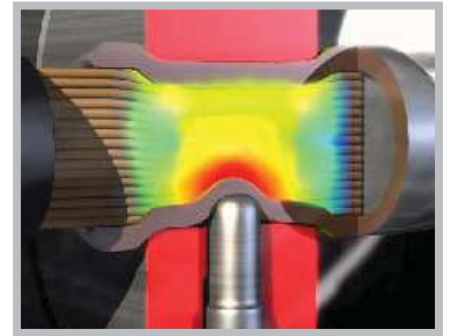
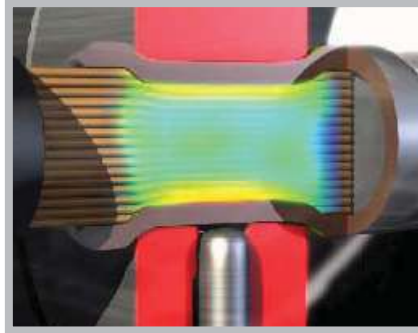
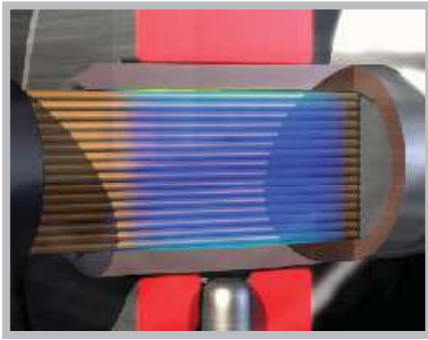
Elpress Group make reservations for misprints, misinformation and changes.

Crimping with the DUAL System

This System has been developed to meet the hard combined requirements from manufacturers with tough applications with the best result.

The DUAL technology combines the desired properties from an optimal hexagonal crimp with those of a limited indent crimp.

This results in tight contact surfaces without damage to the conductor strands.



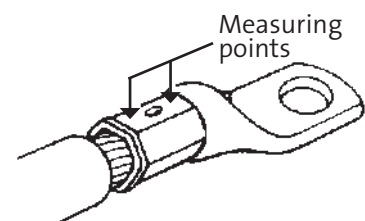
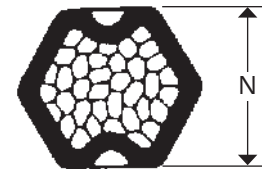
We call this technology, which is patented, the **Elpress DUAL System** where the name points at split crimp sequence that starts with a hexagonal crimp and, without separation of the dies, is finished by an additional indent crimp.

The DUAL Crimp is performed by crimp tool **PVL1300DUAL**, crimp heads **DV1300** or **DV1300C** using the crimp dies DBxx available from 10 to 300 mm². The crimp heads are powered by the normal Elpress hydraulic pumps **P4000** (foot pump), **PS710** (mains and battery operated hydraulic pump) or **P1000** (mains powered pump).

Check measures

An effective way to check correct crimps during work is to perform measurements of achieved crimp heights, N-measures below, regularly or as first and last piece inspection.

| Area mm ² | Die id. no. | | N _{max} -measure mm |
|-------------------------|-----------------------|-----------|------------------------------------|
| | DV1300 PVL1300DUAL | DV1300C | |
| 10 | 13DB8 | 13DCB8 | 6,7 |
| 16 | 13DB9 | 13 DCB9 | 7,7 |
| 25 | 13DB11 | 13 DCB11 | 9,2 |
| 35 | 13DB13 | 13DCB13 | 10,8 |
| 50 | 13DB14,5 | 13DCB14,5 | 11,8 |
| 70 | 13DB17 | 13DCB17 | 13,8 |
| 95 | 13DB20 | 13DCB20 | 16,0 |
| 120 | 13DB22 | 13DCB22 | 17,9 |
| 150 | 13DB25 | 13DCB25 | 20,3 |
| 185 | 13DB27 | 13DCB27 | 21,9 |
| 240 | 13DB30 | 13DCB30 | 24,1 |
| 300 | 13DB32 | 13DCB32 | 25,9 |



General information about Elpress Cu-terminals

Cu-connections

Elpress Cu-connections are produced from electrolytic 99.9% copper. Terminals and through connectors exist in a large variety of types for stranded as well as for flexible conductors. If a standard type is not suitable, we produce tailor made designs specific to the application.

KR/KRF terminals and KS/KSF connectors may be used for both stranded and flexible conductors.

By crimping Elpress terminals and connectors with Elpress crimp tools, connections are achieved that meet the requirements of SEN 245010, BS 4579:1, VDE 0220:1, EN-IEC 61238:1 whichever is applicable.

UL approved terminals



UL is an American standard which is also internationally accepted. Elpress standard Cu-terminals of types KRF/KSF are UL approved according to no. E205350. Cu-terminals of types KR/KS, KRF/KSF are for stranded and flexible copper wires, classes 2 and 5 according to IEC 60228, and have a working area of 1-500 mm².

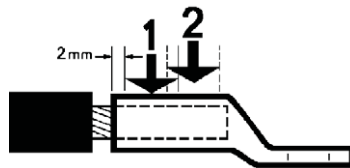


DNV approved terminals

Elpress KRF/KSF, KRT/KST terminals comply with DNV's rules for the classification of ships and Det Norske Veritas' Offshore Standards. The terminals are approved for installations on ships and mobile offshore units.

Number of crimps

Normally only one crimp per conductor end is needed up to and including 150 mm² and two crimps for larger areas. If possible multiple crimps should be positioned with a few mm distance from each other and from the neck end. In many cases however, overlapping crimps have to be made for space reasons.



Crimp sequence with two adjacent crimps.

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.

| Marking of tube terminals |
|---|
| 32 (on the terminal neck) |
| ID-no. for the hexagonal die |
| (Elpress logo) 300-16F (on the palm) |
| 300 = Cu-conductor area, mm ² |
| 16 = hole for screw M16 |
| F = KRF |

| Marking of connectors |
|---|
| (Elpress logo) 27 |
| ID-no. for hexagonal die |
| 185 F (possible screen area and an earth-sign) |
| 185 = Cu-conductor area, mm ² |
| F = KSF |



Customized products

A customized product is an important part of our work. It is a special challenge to solve problems for customers while producing products profitably. In this way, we also have our knowledge of cus-

tomers needs. Among these connectors include different models of T-connectors where you can connect three conductors of the same size by using only one connection. These are used for example in transformer manufacturing. Other connections in the transformer manufactur-

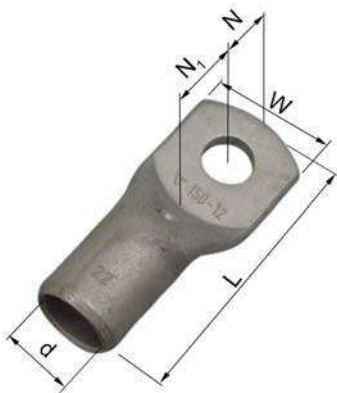
ing is the terminal for tap chargers. In summary, all connections are designed to be an easy way to ensure a high quality crimped connection even in advanced applications.

Tube terminals 16 - 300 mm², KRF

- Data: electrolytic copper, tin plated.
- Cable inspection hole, for flexible and stranded, round, compressed Cu-conductors.
- UL-approved and DNV-approved.

Marking example KRF: 70 10F (Elpress logotype included)

70 = mm² 10 = palm hole for M10 F = type KRF, for stranded and flexible conductors

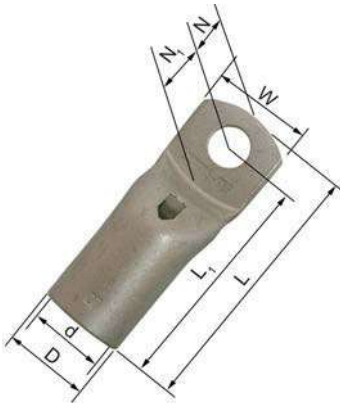


| AWG | Cat. no. mm ² - bolt hole M | mm W | d | N | N ₁ | L | Pcs/ pack | Die no. | Rec. System |
|-----|---|---------|------|------|----------------|-----|--------------|------------|-------------|
| 6 | KRF16-6 | 13,0 | 6,0 | 8,0 | 9,0 | 34 | 100 | 9 | V1300 |
| 6 | KRF16-8 | 13,0 | 6,0 | 8,0 | 9,0 | 34 | 100 | 9 | V1300 |
| 6 | KRF16-10 | 16,0 | 6,0 | 10,0 | 11,0 | 38 | 100 | 9 | V1300 |
| 6 | KRF16-12 | 22 | 6,0 | 12,0 | 13,0 | 47 | 100 | 9 | V1300 |
| 4 | KRF25-6 | 16,0 | 8,0 | 8,0 | 10,0 | 39 | 100 | 11 | V1300 |
| 4 | KRF25-8 | 16,0 | 8,0 | 8,0 | 10,0 | 39 | 100 | 11 | V1300 |
| 4 | KRF25-10 | 17,0 | 8,0 | 10,0 | 11,0 | 42 | 100 | 11 | V1300 |
| 4 | KRF25-12 | 22 | 8,0 | 12,0 | 13,0 | 47 | 100 | 11 | V1300 |
| 2 | KRF35-6 | 18,0 | 9,0 | 10,0 | 11,0 | 47 | 100 | 13 | V1300 |
| 2 | KRF35-8 | 18,0 | 9,0 | 10,0 | 11,0 | 47 | 100 | 13 | V1300 |
| 2 | KRF35-10 | 18,0 | 9,0 | 10,0 | 11,0 | 47 | 100 | 13 | V1300 |
| 2 | KRF35-12 | 22 | 9,0 | 12,0 | 14,0 | 52 | 100 | 13 | V1300 |
| 1/0 | KRF50-6 | 21 | 11,0 | 11,0 | 12,0 | 50 | 100 | 14,5 | V1300 |
| 1/0 | KRF50-8 | 21 | 11,0 | 11,0 | 12,0 | 50 | 100 | 14,5 | V1300 |
| 1/0 | KRF50-10 | 21 | 11,0 | 11,0 | 12,0 | 50 | 100 | 14,5 | V1300 |
| 1/0 | KRF50-12 | 21 | 11,0 | 12,0 | 14,0 | 53 | 100 | 14,5 | V1300 |
| 1/0 | KRF50-16 | 27 | 11,0 | 15,0 | 17,0 | 59 | 100 | 14,5 | V1300 |
| 2/0 | KRF70-6 | 25 | 13,0 | 11,0 | 12,0 | 55 | 50 | 17 | V1300 |
| 2/0 | KRF70-8 | 25 | 13,0 | 11,0 | 12,0 | 55 | 50 | 17 | V1300 |
| 2/0 | KRF70-10 | 25 | 13,0 | 11,0 | 12,0 | 55 | 50 | 17 | V1300 |
| 2/0 | KRF70-12 | 25 | 13,0 | 12,0 | 14,0 | 58 | 50 | 17 | V1300 |
| 2/0 | KRF70-16 | 28 | 13,0 | 15,0 | 17,0 | 64 | 50 | 17 | V1300 |
| 4/0 | KRF95-8 | 29 | 15,0 | 15,0 | 17,0 | 69 | 50 | 20 | V1300 |
| 4/0 | KRF95-10 | 29 | 15,0 | 15,0 | 17,0 | 69 | 50 | 20 | V1300 |
| 4/0 | KRF95-12 | 29 | 15,0 | 15,0 | 17,0 | 69 | 50 | 20 | V1300 |
| 4/0 | KRF95-16 | 29 | 15,0 | 15,0 | 17,0 | 69 | 50 | 20 | V1300 |
| 250 | KRF120-10 | 32 | 17,0 | 15,0 | 17,0 | 73 | 25 | 22 | V1300, V250 |
| 250 | KRF120-12 | 32 | 17,0 | 15,0 | 17,0 | 73 | 25 | 22 | V1300, V250 |
| 250 | KRF120-16 | 32 | 17,0 | 15,0 | 17,0 | 73 | 25 | 22 | V1300, V250 |
| 300 | KRF150-10 | 36 | 19,0 | 15,0 | 16,0 | 80 | 25 | 25 | V1300, V250 |
| 300 | KRF150-12 | 36 | 19,0 | 15,0 | 16,0 | 80 | 25 | 25 | V1300, V250 |
| 300 | KRF150-16 | 36 | 19,0 | 15,0 | 16,0 | 80 | 25 | 25 | V1300, V250 |
| 300 | KRF150-20 | 36 | 19,0 | 19,0 | 19,0 | 87 | 25 | 25 | V1300, V250 |
| 350 | KRF185-10 | 39 | 21 | 15,0 | 16,0 | 86 | 20 | 27 | V1300, V250 |
| 350 | KRF185-12 | 39 | 21 | 15,0 | 16,0 | 86 | 20 | 27 | V1300, V250 |
| 350 | KRF185-16 | 39 | 21 | 15,0 | 16,0 | 86 | 20 | 27 | V1300, V250 |
| 350 | KRF185-20 | 39 | 21 | 19,0 | 19 | 93 | 20 | 27 | V1300, V250 |
| 500 | KRF240A-10 | 42 | 22,5 | 19 | 20 | 96 | 10 | 30 | V1300, V250 |
| 500 | KRF240A-12 | 42 | 22,5 | 19 | 20 | 96 | 10 | 30 | V1300, V250 |
| 500 | KRF240A-16 | 42 | 22,5 | 19 | 20 | 96 | 10 | 30 | V1300, V250 |
| 500 | KRF240A-20 | 42 | 22,5 | 19 | 20 | 96 | 10 | 30 | V1300, V250 |
| 600 | KRF300A-10 | 46 | 24,5 | 15 | 19 | 93 | 10 | 32 | V1300, V250 |
| 600 | KRF300A-12 | 46 | 24,5 | 15 | 19 | 93 | 10 | 32 | V1300, V250 |
| 600 | KRF300A-16 | 46 | 24,5 | 20 | 20 | 99 | 10 | 32 | V1300, V250 |
| 600 | KRF300A-20 | 46 | 24,5 | 20 | 20 | 99 | 10 | 32 | V1300, V250 |
| 600 | KRF300A-24 | 46 | 24,5 | 23 | 25 | 107 | 10 | 32 | V1300, V250 |

** total palm length

Cu-terminals 50 - 240 mm², KRFN, with narrow palm

- Data: electrolytic copper, tin plated.
- Cable inspection hole, for flexible and stranded Cu-conductors, class 2 and class 5.
- Easy to mount through conduits, enables pre-assembly.



Marking example KRF: 70 10F (Elpress logotype included)

70 = mm² 10 = palm hole for M10 F = type KRF, for stranded and flexible conductors



KRFN terminals suitable for narrow spaces.



Easy to mount through conduits.

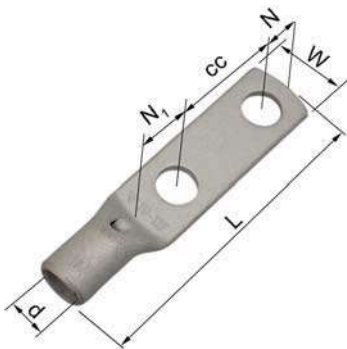
| Cat. no. mm ² , Bolt | mm W | d | D | N | N ₁ | L ₁ | L | Pcs/Pack | Die no. | Rec. System |
|------------------------------------|---------|------|------|----|----------------|----------------|----|----------|---------|-------------|
| KRFN50-6 | 18 | 11 | 14,5 | 11 | 11 | 40 | 51 | 100 | 14,5 | V1300 |
| KRFN50-8 | 18 | 11 | 14,5 | 11 | 11,5 | 40 | 51 | 100 | 14,5 | V1300 |
| KRFN50-10 | 18 | 11 | 14,5 | 11 | 11,5 | 40 | 51 | 100 | 14,5 | V1300 |
| KRFN70-6 | 20 | 13,0 | 17,0 | 11 | 11,5 | 45 | 56 | 50 | 17 | V1300 |
| KRFN70-8 | 20 | 13,0 | 17,0 | 11 | 11,5 | 45 | 56 | 50 | 17 | V1300 |
| KRFN70-10 | 20 | 13,0 | 17,0 | 11 | 11,5 | 45 | 56 | 50 | 17 | V1300 |
| KRFN95-8 | 24 | 15,0 | 20,0 | 11 | 12 | 50 | 61 | 50 | 20 | V1300 |
| KRFN95-10 | 24 | 15,0 | 20,0 | 11 | 13 | 51 | 62 | 50 | 20 | V1300 |
| KRFN95-12 | 24 | 15,0 | 20,0 | 12 | 14 | 52 | 64 | 50 | 20 | V1300 |
| KRFN120-8 | 26 | 17,0 | 22,0 | 11 | 12 | 54 | 65 | 50 | 22 | V1300, V250 |
| KRFN120-10 | 26 | 17,0 | 22,0 | 11 | 13 | 55 | 66 | 50 | 22 | V1300, V250 |
| KRFN120-12 | 26 | 17,0 | 22,0 | 12 | 14 | 56 | 68 | 50 | 22 | V1300, V250 |
| KRFN150-10 | 30 | 19,0 | 25,0 | 11 | 13 | 62 | 73 | 50 | 25 | V1300, V250 |
| KRFN150-12 | 30 | 19,0 | 25,0 | 12 | 14 | 63 | 75 | 50 | 25 | V1300, V250 |
| KRFN185-10 | 32 | 21,0 | 27,0 | 11 | 14 | 69 | 80 | 25 | 27 | V1300, V250 |
| KRFN185-12 | 32 | 21,0 | 27,0 | 12 | 15 | 70 | 82 | 25 | 27 | V1300, V250 |
| KRFN185-16 | 32 | 21,0 | 27,0 | 15 | 16 | 71 | 86 | 25 | 27 | V1300, V250 |
| KRFN240A-10 | 38 | 22,5 | 29,0 | 11 | 16 | 73 | 84 | 50 | 30 | V1300, V250 |
| KRFN240A-12 | 38 | 22,5 | 29,0 | 12 | 15 | 72 | 84 | 50 | 30 | V1300, V250 |
| KRFN240A-16 | 38 | 22,5 | 29,0 | 15 | 18 | 75 | 90 | 50 | 30 | V1300, V250 |

Tube terminals with two stud holes 70 - 300 mm², KRF

- Data: electrolytic copper, tin plated.
- Cable inspection hole, for flexible and stranded, round, compressed Cu-conductors.
- UL-approved. DNV-approved (marked with *).

Marking example KRF: 70 10F (Elpress logotype included)

70 = mm² 10 = palm hole for M10 F = type KRF, for flexible and stranded conductors



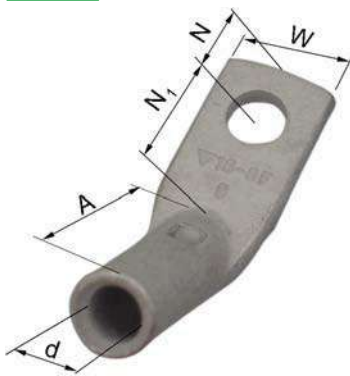
| AWG | Cat. no. mm ² , bolt hole, cc-measure | mm W | d | N | N ₁ | L | Pcs/ pack | Die no. | Rec. System |
|-----|---|---------|------|----|----------------|-----|--------------|------------|-------------|
| 2 | KRF35-10X2-24-26 | 18,5 | 9 | 11 | 16 | 78 | 100 | 13 | V1300 |
| 1/0 | KRF50-10X2-24-26 | 20,5 | 11 | 11 | 16 | 82 | 100 | 14,5 | V1300 |
| 2/0 | KRF70-10x2-24-26 | 25 | 13,0 | 11 | 17 | 86 | 50 | 17 | V1300 |
| 2/0 | KRF70-12X2-40* | 25 | 13,0 | 12 | 18 | 103 | 25 | 17 | V1300 |
| 4/0 | KRF95-10X2-24-26 | 29 | 15,0 | 11 | 19 | 93 | 25 | 20 | V1300 |
| 4/0 | KRF95-12X2-40* | 29 | 15,0 | 12 | 18 | 109 | 25 | 20 | V1300 |
| 250 | KRF120-10X2-24-26 | 32 | 17,0 | 11 | 19 | 97 | 25 | 22 | V1300, V250 |
| 250 | KRF120-12X2-40* | 32 | 17,0 | 12 | 19 | 113 | 25 | 22 | V1300, V250 |
| 300 | KRF150-10X2-24-26 | 36 | 19,0 | 11 | 19 | 104 | 25 | 25 | V1300, V250 |
| 300 | KRF150-12X2-40* | 36 | 19,0 | 12 | 19 | 120 | 20 | 25 | V1300, V250 |
| 350 | KRF185-10X2-24-26 | 39 | 21 | 13 | 19 | 111 | 20 | 27 | V1300, V250 |
| 350 | KRF185-12X2-40* | 39 | 21 | 12 | 20 | 126 | 20 | 27 | V1300, V250 |
| 500 | KRF240A-10X2-24-26 | 42 | 22,5 | 11 | 22 | 115 | 10 | 30 | V1300, V250 |
| 500 | KRF240A-12X2-40* | 42 | 22,5 | 12 | 21 | 130 | 10 | 30 | V1300, V250 |
| 600 | KRF300A-12X2-40* | 46 | 24,5 | 12 | 22 | 133 | 5 | 32 | V1300, V250 |

Tube terminals 45°, 10 - 150 mm², KRF

- Data: electrolytic copper, tin plated.
- Cable inspection hole, for flexible and stranded, round, compressed Cu-conductors.
- UL-approved (KRF 35-150 mm²). DNV-approved (16-150 mm²).

Marking example KRF: 70 10F (Elpress logotype included)

70 = mm² 10 = palm hole for M10 F = type KRF, for stranded and flexible conductors



| AWG | Cat. no. mm ² , Bolt, 45° | mm W | d | N | N ₁ | A | Pcs/ pack | Die no. | Rec. System |
|-----|---|---------|------|------|----------------|----|--------------|------------|-------------|
| 8 | KR10-6-45GR | 13,0 | 5,0 | 6,5 | 11,5 | 19 | 100 | 8 | V1300 |
| 8 | KR10-8-45GR | 13,5 | 5,0 | 8,5 | 12,0 | 19 | 100 | 8 | V1300 |
| 6 | KRF16-6-45GR | 13,0 | 6,0 | 6,5 | 11,5 | 23 | 100 | 9 | V1300 |
| 6 | KRF16-8-45GR | 13,5 | 6,0 | 8,5 | 12,0 | 23 | 100 | 9 | V1300 |
| 4 | KRF25-6-45GR | 17,0 | 8,0 | 6,5 | 11,5 | 24 | 100 | 11 | V1300 |
| 4 | KRF25-8-45GR | 17,0 | 8,0 | 8,5 | 12,0 | 24 | 100 | 11 | V1300 |
| 4 | KRF25-10-45GR | 17,0 | 8,0 | 11,5 | 13,5 | 24 | 100 | 11 | V1300 |
| 2 | KRF35-6-45GR | 18,0 | 9,0 | 6,5 | 11,5 | 30 | 100 | 13 | V1300 |
| 2 | KRF35-8-45GR | 18,0 | 9,0 | 8,5 | 12,0 | 30 | 100 | 13 | V1300 |
| 2 | KRF35-10-45GR | 18,0 | 9,0 | 11,5 | 13,5 | 30 | 100 | 13 | V1300 |
| 1/0 | KRF50-8-45GR | 21 | 11,0 | 8,5 | 17,5 | 31 | 100 | 14,5 | V1300 |
| 1/0 | KRF50-10-45GR | 21 | 11,0 | 11,5 | 18,5 | 31 | 100 | 14,5 | V1300 |
| 1/0 | KRF50-12-45GR | 21 | 11,0 | 12,5 | 19,5 | 31 | 100 | 14,5 | V1300 |
| 2/0 | KRF70-8-45GR | 25 | 13,0 | 8,5 | 17,5 | 35 | 50 | 17 | V1300 |
| 2/0 | KRF70-10-45GR | 25 | 13,0 | 11,5 | 18,5 | 35 | 50 | 17 | V1300 |
| 2/0 | KRF70-12-45GR | 25 | 13,0 | 12,5 | 19,5 | 35 | 50 | 17 | V1300 |
| 4/0 | KRF95-10-45GR | 29 | 15,0 | 11,5 | 18,5 | 40 | 50 | 20 | V1300 |
| 4/0 | KRF95-12-45GR | 29 | 15,0 | 12,5 | 19,5 | 40 | 50 | 20 | V1300 |
| 4/0 | KRF95-16-45GR | 29 | 15,0 | 15,5 | 20,5 | 40 | 50 | 20 | V1300 |
| 250 | KRF120-10-45GR | 32 | 17,0 | 11,5 | 18,5 | 43 | 25 | 22 | V1300, V250 |
| 250 | KRF120-12-45GR | 32 | 17,0 | 12,5 | 19,5 | 43 | 25 | 22 | V1300, V250 |
| 250 | KRF120-16-45GR | 32 | 17,0 | 15,5 | 20,4 | 43 | 25 | 22 | V1300, V250 |
| 300 | KRF150-10-45GR | 36 | 19,0 | 11,5 | 18,5 | 49 | 25 | 25 | V1300, V250 |
| 300 | KRF150-12-45GR | 36 | 19,0 | 12,5 | 19,5 | 49 | 25 | 25 | V1300, V250 |
| 300 | KRF150-16-45GR | 36 | 19,0 | 15,5 | 20,5 | 49 | 25 | 25 | V1300, V250 |

Tube terminals 90° degrees 10 - 150 mm², KRF

- Data: electrolytic copper, tin plated.
- Cable inspection hole, for flexible and stranded, round, compressed Cu-conductors.
- UL-approved (35-150 mm²). DNV-approved (16-150 mm²).

Marking example KRF: 70 10F (Elpress logotype included)

70 = mm² 10 = palm hole for M10 F = type KRF, for stranded and flexible conductors



| AWG | Cat. no. mm ² , Bolt | mm W | d | N | N ₁ | A | Pcs/ pack | Die no. | Rec. System |
|-----|------------------------------------|---------|------|------|----------------|------|--------------|------------|-------------|
| 8 | KR10-6-90GR | 13,0 | 5,0 | 6,5 | 11,5 | 15 | 100 | 8 | V1300 |
| 8 | KR10-8-90GR | 13,5 | 5,0 | 8,5 | 12,0 | 15 | 100 | 8 | V1300 |
| 6 | KRF16-6-90GR | 13,0 | 6,0 | 6,5 | 11,5 | 16,5 | 100 | 9 | V1300 |
| 6 | KRF16-8-90GR | 13,5 | 6,0 | 8,5 | 12,0 | 16,5 | 100 | 9 | V1300 |
| 4 | KRF25-6-90GR | 17,0 | 8,0 | 6,5 | 11,5 | 18,5 | 100 | 11 | V1300 |
| 4 | KRF25-8-90GR | 17,0 | 8,0 | 8,5 | 12,0 | 18,5 | 100 | 11 | V1300 |
| 4 | KRF25-10-90GR | 17,0 | 8,0 | 11,5 | 13,5 | 18,5 | 100 | 11 | V1300 |
| 2 | KRF35-6-90GR | 18,0 | 9,0 | 6,5 | 11,5 | 22,5 | 100 | 13 | V1300 |
| 2 | KRF35-8-90GR | 18,0 | 9,0 | 8,5 | 12,0 | 22,5 | 100 | 13 | V1300 |
| 2 | KRF35-10-90GR | 18,0 | 9,0 | 11,5 | 13,5 | 22,5 | 100 | 13 | V1300 |
| 1/0 | KRF50-8-90GR | 21 | 11,0 | 8,5 | 17,5 | 30,5 | 100 | 14,5 | V1300 |
| 1/0 | KRF50-10-90GR | 21 | 11,0 | 11,5 | 18,5 | 30,5 | 100 | 14,5 | V1300 |
| 1/0 | KRF50-12-90GR | 21 | 11,0 | 12,5 | 19,5 | 30,5 | 100 | 14,5 | V1300 |
| 2/0 | KRF70-8-90GR | 25 | 13,0 | 8,5 | 17,5 | 31,5 | 50 | 17 | V1300 |
| 2/0 | KRF70-10-90GR | 25 | 13,0 | 11,5 | 18,5 | 31,5 | 50 | 17 | V1300 |
| 2/0 | KRF70-12-90GR | 25 | 13,0 | 12,5 | 19,5 | 31,5 | 50 | 17 | V1300 |
| 4/0 | KRF95-10-90GR | 29 | 15,0 | 11,5 | 18,5 | 32,5 | 50 | 20 | V1300 |
| 4/0 | KRF95-12-90GR | 29 | 15,0 | 12,5 | 19,5 | 32,5 | 50 | 20 | V1300 |
| 4/0 | KRF95-16-90GR | 29 | 15,0 | 15,5 | 20,5 | 32,5 | 50 | 20 | V1300 |
| 250 | KRF120-10-90GR | 32 | 17,0 | 11,5 | 18,5 | 34,5 | 25 | 22 | V1300, V250 |
| 250 | KRF120-12-90GR | 32 | 17,0 | 12,5 | 19,5 | 34,5 | 25 | 22 | V1300, V250 |
| 250 | KRF120-16-90GR | 32 | 17,0 | 15,5 | 20,5 | 34,5 | 25 | 22 | V1300, V250 |
| 300 | KRF150-10-90GR | 36 | 19,0 | 11,5 | 18,5 | 37,5 | 25 | 25 | V1300, V250 |
| 300 | KRF150-12-90GR | 36 | 19,0 | 12,5 | 19,5 | 37,5 | 25 | 25 | V1300, V250 |
| 300 | KRF150-16-90GR | 36 | 19,0 | 15,5 | 20,5 | 37,5 | 25 | 25 | V1300, V250 |

Through connectors 10 - 300 mm², KS/KSF

■ Data: electrolytic copper, tin plated.

■ Cable inspection hole and cable stop, for flexible and stranded, round, compressed Cu-conductors. UL-approved. DNV-approved (16-300 mm²).

Marking example: 20 95F 111 (earth-sign) Elpress logotype included

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

111 = screen, mm²



| AWG | Cat. no. mm ² | Screen cross section | mm d | D | L | Pcs/ pack | Die no. | Rec. System |
|-----|--------------------------|----------------------|------|------|----|-----------|---------|-------------|
| 8 | KS10 | | 5,0 | 8,0 | 30 | 100 | 8 | V1300 |
| 6 | KSF16 | 15 | 6,0 | 9,0 | 35 | 100 | 9 | V1300 |
| 4 | KSF25 | 21-29 | 8,0 | 11,0 | 35 | 100 | 11 | V1300 |
| 2 | KSF35 | 41 | 9,0 | 13,0 | 35 | 100 | 13 | V1300 |
| 1/0 | KSF50 | 57 | 11,0 | 14,5 | 45 | 50 | 14,5 | V1300 |
| 2/0 | KSF70 | 72-88 | 13,0 | 17,0 | 45 | 50 | 17 | V1300 |
| 4/0 | KSF95 | 111 | 15,0 | 20 | 45 | 50 | 20 | V1300 |
| 250 | KSF120 | | 17,0 | 22 | 55 | 50 | 22 | V1300, V250 |
| 300 | KSF150 | | 19,0 | 25 | 65 | 25 | 25 | V1300, V250 |
| 350 | KSF185 | | 21 | 27 | 70 | 25 | 27 | V1300, V250 |
| 500 | KSF240A | | 22,5 | 29 | 70 | 25 | 30 | V1300, V250 |
| 600 | KSF300A | | 24 | 31,5 | 75 | 10 | 32 | V1300, V250 |

Through connectors with partition 10 - 300 mm²

■ Data: electrolytic copper, tin plated.

■ With partition to prevent oil-leakage, for flexible and stranded, round, compressed Cu-conductors.

Marking example: 20 95F 111 (earth-sign) Elpress logotype included

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

111 = screen, mm²



| Cat.no. mm ² | Screen cond. area | mm d | D | L | Pcs/ pack | Die no. | Rec. System |
|-------------------------|-------------------|------|------|----|-----------|---------|-------------|
| KS10M | | 5,0 | 8,0 | 36 | 100 | 8 | V1300 |
| KSF16M | 15 | 6,0 | 9,0 | 37 | 100 | 9 | V1300 |
| KSF25M | 21-29 | 8,0 | 11,0 | 38 | 100 | 11 | V1300 |
| KSF35M | 41 | 9,0 | 13,0 | 41 | 100 | 13 | V1300 |
| KSF50M | 57 | 11,0 | 14,5 | 48 | 50 | 14,5 | V1300 |
| KSF70M | 72-88 | 13,0 | 17,0 | 49 | 50 | 17 | V1300 |
| KSF95M | 111 | 15,0 | 20 | 56 | 50 | 20 | V1300 |
| KSF120M | | 17,0 | 22 | 63 | 50 | 22 | V1300, V250 |
| KSF150M | | 19,0 | 25 | 64 | 25 | 25 | V1300, V250 |
| KSF185M | | 21 | 27 | 74 | 25 | 27 | V1300, V250 |
| KSF240AM | | 22,5 | 29 | 76 | 1 | 30 | V1300, V250 |
| KSF300AM | | 24,5 | 31,5 | 88 | 1 | 32 | V1300, V250 |

General information about Elpress Al- and Al-/Cu-terminals

Al-terminals

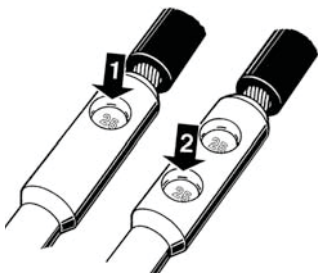
Elpress terminals and connectors are made from pure aluminium 99.7%. We manufacture Al-terminals type AK and AS. The standard range size is 16 to 1200 mm² but a variety of customer specified types also exists.



Al terminals type AK are mainly used for connection to Al bus bars, apparatus terminals or such.



Al connectors type AS are used to connect two Al conductors, also of different sizes.



Crimp sequence when making indent crimping on aluminium.

Al or AlCu types

Elpress AlCu terminals and connectors for Al cable is made from solid materials with friction welding. This method means that the aluminum joined with copper. This occurs when aluminum is rotated against copper under pressure and is the method that provides the best connection between Al and Cu.



Bi-metal terminals type AKK are mainly used for connection to Cu busbars, apparatus terminals or such.



Bi-metal connectors type AKS are used to connect an Al and a Cu conductor also of different sizes.



Bi-metal pin connectors type AKP are used to connect Al conductors to mechanical clamp type connections for round Cu pins.

Marking of Al- and Al-/Cu-terminals

Elpress System for marking of Al and AlCu terminals and connectors shows the stranded and solid metric conductor size and reference to the id-numbers of the appropriate Elpress pre-rounding and crimp tools. Do not use other crimp tools! The T2-mark is a reference to an earlier Finnish standard. On bi-metal connectors there is also a tool id-reference to the hexagonal die to be used for the Cu-crimp.

TERMINALS:

Markings on Al and AlCu terminals

Barrel marking, example:
ALU185-R18-P32 (Elpress logotype) T2
SOLID 240

ALU185 = Al-conductor, mm²

R18 = id-no. for punch and matrix for pre-rounding

P32 = id-no. for punch and matrix for crimping

T2 = Finnish temperature class

SOLID 240 = suitable size on solid conductor

Palm marking:
(Elpress logotype) 16 = M-screw size

THROUGH CONNECTORS:

Markings on Al and AlCu connectors

Copper side of AlCu type
Example: Cu240 - 30 (Elpress logotype)

Cu240 = Cu conductor, mm²

30 = id-no. for hexagonal crimp die

Al connector or Al side of AlCu connector
Example: ALU300-R21-P36 (Elpress logotype) T2

ALU300 = Al conductor, mm²

R21 = id-no. of punch and matrix for pre-rounding

P36 = id-no. of punch and matrix for crimping

T2 = Finnish temperature class

Al terminals 16 - 1200 mm²

- used to terminate Al-conductors to Al busbars
- two adjacent crimps are necessary - crimp sequence see picture



Crimp sequence.

| Cat.no. stranded, mm ² | Solid | mm W | d | N | N ₁ | L | Pcs/pack | Note | Rec. System |
|-----------------------------------|---------|------|------|------|----------------|-----|----------|------|-------------|
| AK16-6 | 25(16) | 16,0 | 5,9 | 8,5 | 9,0 | 57 | 48 | | V1300 |
| AK16-8 | 25 (16) | 16,0 | 5,9 | 8,5 | 9,0 | 57 | 48 | | V1300 |
| AK25-6 | 35 | 16,0 | 6,8 | 8,5 | 9,0 | 57 | 48 | | V1300 |
| AK25-8 | 35 | 16,0 | 6,8 | 8,5 | 9,0 | 57 | 48 | | V1300 |
| AK35-6 | 50 | 22 | 8,5 | 11,0 | 14,0 | 85 | 24 | | V1300 |
| AK35-8 | 50 | 22 | 8,5 | 11,0 | 14,0 | 85 | 24 | | V1300 |
| AK50-8 | 70 | 22 | 9,6 | 11,0 | 14,0 | 85 | 24 | | V1300 |
| AK50-10 | 70 | 22 | 9,6 | 11,0 | 14,0 | 85 | 24 | | V1300 |
| AK50-12 | 70 | 27 | 9,6 | 14,0 | 15,0 | 90 | 24 | | V1300 |
| AK70-8 | 95 | 22 | 11,3 | 11,0 | 14,0 | 85 | 24 | | V1300 |
| AK70-10 | 95 | 22 | 11,3 | 11,0 | 14,0 | 85 | 24 | | V1300 |
| AK70-12 | 95 | 27 | 11,3 | 14,0 | 15,0 | 90 | 24 | | V1300 |
| AK95-8 | 120 | 27 | 12,5 | 14,0 | 15,0 | 104 | 24 | | V1300 |
| AK95-10 | 120 | 27 | 12,5 | 14,0 | 15,0 | 104 | 24 | | V1300 |
| AK95-12 | 120 | 27 | 12,5 | 14,0 | 15,0 | 104 | 24 | | V1300 |
| AK120-10 | 150 | 27 | 14,0 | 14,0 | 15,0 | 104 | 24 | | V1300 |
| AK120-12 | 150 | 27 | 14,0 | 14,0 | 15,0 | 104 | 24 | | V1300 |
| AK150-10 | 185 | 27 | 15,8 | 14,0 | 15,0 | 104 | 24 | | V1300 |
| AK150-12 | 185 | 27 | 15,8 | 14,0 | 15,0 | 104 | 24 | | V1300 |
| AK150-16 | 185 | 35 | 15,8 | 21 | 23 | 119 | 12 | | V1300 |
| AK185-10 | 240 | 35 | 17,6 | 16,0 | 19,0 | 112 | 12 | | V1300 |
| AK185-12 | 240 | 35 | 17,6 | 16,0 | 19,0 | 112 | 12 | | V1300 |
| AK185-16 | 240 | 35 | 17,6 | 16,0 | 19,0 | 112 | 12 | | V1300 |
| AK240-12 | | 35 | 19,8 | 16,0 | 19,0 | 112 | 12 | | V1300, V250 |
| AK240-16 | | 35 | 19,8 | 16,0 | 19,0 | 112 | 12 | | V1300, V250 |
| AK300-12SOLID | | 41 | 20 | 18,0 | 25 | 155 | 6 | 3 | V250 |
| AK300-16SOLID | | 41 | 20 | 18,0 | 25 | 155 | 6 | 3 | V250 |
| AK300-12 | | 41 | 22 | 18,0 | 25 | 155 | 6 | | V250 |
| AK300-16 | | 41 | 22 | 18,0 | 25 | 155 | 6 | | V250 |
| AK300-20 | | 41 | 22 | 20 | 23 | 155 | 6 | | V250 |
| AK400-12 | | 41 | 25 | 18,0 | 25 | 155 | 6 | | V250 |
| AK400-16 | | 41 | 25 | 18,0 | 25 | 155 | 6 | | V250 |
| AK400-20 | | 41 | 25 | 20 | 23 | 155 | 6 | | V250 |
| AK500A-16 | | 55 | 28 | 26 | 29 | 225 | 1 | 4 | V250 |
| AK500A-20 | | 55 | 28 | 26 | 29 | 225 | 3 | 4 | V250 |
| AK500A-1 | | 38 | 28 | 80* | | 232 | 3 | 2,4 | V250 |
| AK500A-2 | | 70 | 28 | 80* | | 250 | 3 | 2,4 | V250 |
| AK500B-16 | | 44 | 28 | 22 | 22 | 174 | 3 | 5 | V250 |
| AK500B-20 | | 44 | 28 | 22 | 22 | 174 | 3 | 5 | V250 |
| AK500B-1 | | 44 | 28 | 80* | | 210 | 3 | 2,5 | V250 |
| AK500B-2 | | 70 | 28 | 80* | | 210 | 3 | 2,5 | V250 |
| AK630A-1 | | 55 | 32 | 80* | | 250 | 3 | 1,2 | V250 |
| AK630A-2 | | 70 | 32 | 80* | | 250 | 3 | 1,2 | V250 |
| AK800-1 | | 60 | 36 | 80* | | 267 | 1 | 1,2 | V1470 |
| AK800-2 | | 75 | 36 | 80 | | 275 | 1 | 1,2 | V1470 |
| AK1000-1 | | 60 | 40 | 80* | | 267 | 1 | 1,2 | V1470 |
| AK1000-2 | | 75 | 40 | 80* | | 375 | 1 | 1,2 | V1470 |
| AK1200 | | 75 | 44 | 80* | | 291 | 1 | 1,2 | V1470 |

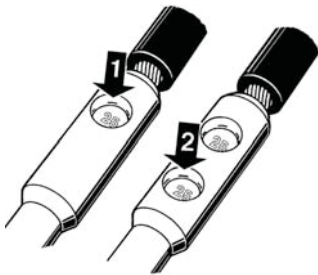
* corresponds to the full palm length.

Note

- 1 Stranded, compacted conductor
- 2 Unholed palm
- 3 For solid conductors only
- 4 Outer barrel diam. 52 mm.
- 5 Outer barrel diam. 44 mm.

Through connectors with partition 16 - 1200 mm²

- used mainly for connecting two Al-conductors of the same size to each other
- two crimps on each side are necessary, crimp sequence see picture
- partition in the middle to prevent fluid flow



Crimp sequence.

| Cat.no. stranded, mm ² | Solid mm ² | mm d | D | L | Pcs/pack | Rec. System | Note |
|-----------------------------------|-----------------------|------|------|-----|----------|-------------|------|
| AS16 | 25 (+16) | 5,9 | 13,0 | 67 | 48 | V1300 | |
| AS25 | 35 | 6,8 | 13,0 | 67 | 48 | V1300 | |
| AS35 | 50 | 8,5 | 20 | 100 | 24 | V1300 | |
| AS50 | 70 | 9,6 | 20 | 100 | 24 | V1300 | |
| AS70 | 95 | 11,3 | 20 | 100 | 24 | V1300 | |
| AS95 | 120 | 12,5 | 25 | 130 | 12 | V1300 | |
| AS120 | 150 | 14,0 | 25 | 130 | 12 | V1300 | |
| AS150 | 185 | 15,8 | 25 | 130 | 12 | V1300 | |
| AS185 | 240 | 17,6 | 32 | 131 | 9 | V1300 | |
| AS240 | | 19,8 | 32 | 131 | 9 | V1300, V250 | |
| AS300SOLID | 300 | 20 | 36 | 179 | 6 | V250 | 3 |
| AS300 | | 22 | 36 | 179 | 3 | V250 | |
| AS400 | | 25 | 40 | 179 | 3 | V250 | |
| AS500A | | 28 | 52 | 250 | 3 | V250 | 4 |
| AS500B | | 28 | 44 | 184 | 3 | V250 | 5 |
| AS630A-1 | | 32 | 52 | 250 | | V250 | 1 |
| AS630-1 | | 32 | 60 | 288 | | V250 | 1 |
| AS800-1 | | 36 | 60 | 288 | | V1470 | 1 |
| AS1000-1 | | 40 | 60 | 288 | | V1470 | 1 |
| AS1200 | | 44 | 70 | 320 | | V1470 | 1 |

If other combinations are needed, contact Elpress.

Note

- 1 Stranded, compacted conductor
- 2 Unholed palm
- 3 For solid conductors only
- 4 Outer barrel diam. 52 mm.
- 5 Outer barrel diam. 44 mm.

Other designs of Al and AlCu terminals and connectors

In cases where other hole patterns, palm sizes, assembly angles, etc. are needed, a broad variety of customer specified items may be produced.

Some examples are indicated here: AKK500A/2-16-12x4-35 resp. AK185-14x2-40.

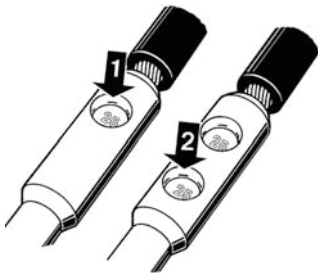


Through connectors with partition and for different areas 16 - 400 mm²

- used mainly for connecting two Al-conductors of different sizes to each other
- two crimps on each side are necessary, crimp sequence see picture
- partition in the middle to prevent fluid flow



| Cat. no. stranded, mm ² | Solid mm ² | mm L | d ₁ | D ₁ | d | D | Pcs/pack | Rec. System |
|------------------------------------|-----------------------|------|----------------|----------------|------|------|----------|-------------|
| AS25-16 | 35-25 | 67 | 5,9 | 13,0 | 6,8 | 13,0 | 48 | V1300 |
| AS35-25 | 50-35 | 85 | 6,8 | 13,0 | 8,5 | 20 | 24 | V1300 |
| AS50-25 | 70-35 | 85 | 6,8 | 13,0 | 9,6 | 20 | 24 | V1300 |
| AS50-35 | 70-50 | 100 | 8,5 | 20 | 9,6 | 20 | 24 | V1300 |
| AS70-50 | 95-70 | 100 | 9,6 | 20 | 11,3 | 20 | 24 | V1300 |
| AS95-25 | 120-35 | 101 | 6,8 | 13,0 | 12,5 | 25 | 24 | V1300 |
| AS95-35 | 120-50 | 116 | 8,5 | 20 | 12,5 | 25 | 24 | V1300 |
| AS95-50 | 120-70 | 116 | 9,6 | 20 | 12,5 | 25 | 24 | V1300 |
| AS95-70 | 120-95 | 116 | 11,3 | 20 | 12,5 | 25 | 24 | V1300 |
| AS120-95 | 150-120 | 130 | 12,5 | 25 | 14 | 25 | 12 | V1300 |
| AS150-50 | 185-70 | 116 | 9,6 | 20 | 15,8 | 25 | 12 | V1300 |
| AS150-70 | 185-95 | 116 | 11,3 | 20 | 15,8 | 25 | 24 | V1300 |
| AS150-95 | 185-120 | 130 | 12,5 | 25 | 15,8 | 25 | 12 | V1300 |
| AS150-120 | 185-150 | 130 | 14,0 | 25 | 15,8 | 25 | 12 | V1300 |
| AS185-95 | 240-120 | 132 | 12,5 | 25 | 17,6 | 32 | 12 | V1300 |
| AS185-150 | 240-185 | 132 | 15,8 | 25 | 17,6 | 32 | 12 | V1300 |
| AS240-95 | -120 | 132 | 12,5 | 25 | 19,8 | 32 | 12 | V1300, V250 |
| AS240-120 | -150 | 132 | 14,0 | 25 | 19,8 | 32 | 12 | V1300, V250 |
| AS240-150 | -185 | 132 | 15,8 | 25 | 19,8 | 32 | 12 | V1300, V250 |
| AS240-185 | -240 | 131 | 17,6 | 32 | 19,8 | 32 | 12 | V1300, V250 |
| AS300-240 | | 156 | 19,8 | 32 | 22 | 36 | 6 | V250 |
| AS400-300 | | 179 | 22 | 36 | 25 | 40 | 3 | V250 |



Crimp sequence.

Other measures, see corresponding connector on previous pages.
If other combinations are needed, contact Elpress.

Through connectors without partition 300 - 400 mm²

- used mainly for connecting two Al-conductors of different sizes to each other
- two crimps on each side are necessary, crimp sequence see picture
- use special matrix 13P37M and special punch 13P37D, no matrix holder necessary



| Cat. no. mm ² | mm D | d | L | Rec. tool |
|--------------------------|------|------|-----|-------------|
| AS300B | 37 | 22,3 | 150 | PVL1300DUAL |
| AS400B | 37 | 25 | 150 | PVL1300DUAL |

AlCu, bi-metal terminals 16 - 1200 mm²

- used primarily to terminate Al-conductors to Cu bus bars, etc.
- two adjacent crimps are necessary - crimp sequence, see picture



Crimp sequence.

| Cat. no. stranded, mm ² | Solid | mm W | d | N | N ₁ | L | Pcs/ pack | Rec. System | Note |
|---------------------------------------|---------|---------|------|------|----------------|-----|--------------|-------------|------|
| AKK16-8 | 25 (16) | 16,0 | 5,9 | 8,5 | 10,0 | 66 | 48 | V1300 | |
| AKK25-8 | 35 | 16,0 | 6,8 | 8,5 | 10,0 | 66 | 48 | V1300 | |
| AKK25-12 | 35 | 22 | 6,8 | 11,5 | 15,5 | 75 | 24 | V1300 | |
| AKK35-8 | 50 | 25 | 8,5 | 12,5 | 12,5 | 89 | 24 | V1300 | |
| AKK50-8 | 70 | 25 | 9,6 | 12,5 | 12,5 | 89 | 24 | V1300 | |
| AKK50-10 | 70 | 25 | 9,6 | 12,5 | 12,5 | 89 | 24 | V1300 | |
| AKK50-12 | 70 | 25 | 9,6 | 12,5 | 12,5 | 89 | 24 | V1300 | |
| AKK70-8 | 95 | 25 | 11,3 | 12,5 | 12,5 | 89 | 24 | V1300 | |
| AKK70-10 | 95 | 25 | 11,3 | 12,5 | 12,5 | 89 | 24 | V1300 | |
| AKK70-12 | 95 | 25 | 11,3 | 12,5 | 12,5 | 89 | 24 | V1300 | |
| AKK95-8 | 120 | 25 | 12,5 | 12,5 | 12,5 | 108 | 12 | V1300 | |
| AKK95-10 | 120 | 25 | 12,5 | 12,5 | 12,5 | 108 | 12 | V1300 | |
| AKK95-12 | 120 | 25 | 12,5 | 12,5 | 12,5 | 108 | 12 | V1300 | |
| AKK95-16 | 120 | 30 | 12,5 | 15,0 | 15,0 | 115 | 12 | V1300 | |
| AKK120-10 | 150 | 25 | 14,0 | 12,5 | 12,5 | 108 | 12 | V1300 | |
| AKK120-12 | 150 | 25 | 14,0 | 12,5 | 12,5 | 108 | 12 | V1300 | |
| AKK120-16 | 150 | 30 | 14,0 | 15,0 | 15,0 | 115 | 12 | V1300 | |
| AKK150-10 | 185 | 25 | 15,8 | 12,5 | 12,5 | 108 | 12 | V1300 | |
| AKK150-12 | 185 | 25 | 15,8 | 12,5 | 12,5 | 108 | 12 | V1300 | |
| AKK150-16 | 185 | 30 | 15,8 | 15,0 | 15,0 | 115 | 12 | V1300 | |
| AKK185-10 | 240 | 30 | 17,6 | 15,0 | 15,0 | 116 | 12 | V1300 | |
| AKK185-12 | 240 | 30 | 17,6 | 15,0 | 15,0 | 116 | 12 | V1300 | |
| AKK185-16 | 240 | 30 | 17,6 | 15,0 | 15,0 | 116 | 12 | V1300 | |
| AKK240-10 | | 30 | 19,8 | 15,0 | 15,0 | 116 | 12 | V1300, V250 | |
| AKK240-12 | | 30 | 19,8 | 15,0 | 15,0 | 116 | 12 | V1300, V250 | |
| AKK240-16 | | 30 | 19,8 | 15,0 | 15,0 | 116 | 12 | V1300, V250 | |
| AKK300-12 | | 37 | 22 | 18,5 | 18,5 | 154 | 6 | V250 | |
| AKK300-16 | | 37 | 22 | 18,5 | 18,5 | 154 | 6 | V250 | |
| AKK300-20 | | 37 | 22 | 18,5 | 18,5 | 154 | 6 | V250 | |
| AKK300-12SOLID | | 37 | 20 | 18,5 | 18,5 | 154 | 6 | V250 | |
| AKK300-16SOLID | | 37 | 20 | 18,5 | 18,5 | 154 | 6 | V250 | |
| AKK300-20SOLID | | 37 | 20 | 18,5 | 18,5 | 155 | 6 | V250 | |
| AKK400-12 | | 37 | 25 | 18,5 | 18,5 | 155 | 6 | V250 | |
| AKK400-16 | | 37 | 25 | 18,5 | 18,5 | 155 | 6 | V250 | |
| AKK400-20 | | 37 | 25 | 18,5 | 18,5 | 155 | 6 | V250 | |
| AKK500A-16 | | 48 | 28 | 18,5 | 18,5 | 222 | 3 | V250 | 4 |
| AKK500A-20 | | 48 | 28 | 26 | 29 | 222 | 3 | V250 | 4 |
| AKK500A-1 | | 48 | 28 | 70* | | 237 | | V250 | 2 |
| AKK500A-2 | | 70 | 28 | 70* | | 239 | | V250 | 2 |
| AKK500B-16 | | 42 | 28 | 21 | 21 | 174 | 3 | V250 | 5 |
| AKK500B-20 | | 42 | 28 | 21 | 21 | 174 | 3 | V250 | 5 |
| AKK500B-1 | | 42 | 28 | 70* | | 202 | 3 | V250 | 2 |
| AKK500B-2 | | 70 | 28 | 70* | | 211 | | V250 | 2 |
| AKK630A-1 | | 48 | 32 | 70* | | 237 | 3 | V250 | 1,2 |
| AKK630A-2 | | 70 | 32 | 70* | | 239 | | V250 | 1,2 |
| AKK800-1 | | 62 | 36 | 70* | | 263 | | V1470 | 1,2 |
| AKK800-2 | | 75 | 36 | 75* | | 275 | | V1470 | 1,2 |
| AKK1000-1 | | 62 | 40 | 70* | | 263 | | V1470 | 1,2 |
| AKK1000-2 | | 75 | 40 | 75* | | 275 | | V1470 | 1,2 |
| AKK1200 | | 75 | 44 | 75* | | 310 | | V1470 | 1,2 |

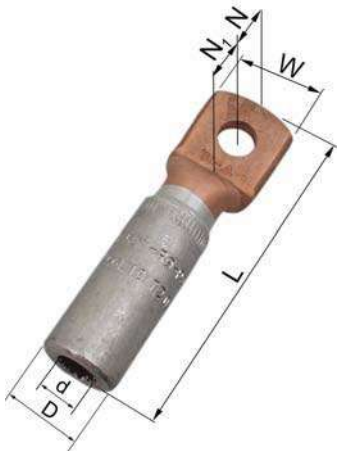
* the full palm length

Note

- 1 Stranded, compacted conductor
- 2 Unholed palm
- 3 For solid conductors only
- 4 Outer barrel diam. 52 mm.
- 5 Outer barrel diam. 44 mm.

AlCu, bi-metallic terminals 300 - 400 mm²

- used primarily to terminate Al-conductors to Cu bus bars, etc.
- two adjacent crimps are necessary - crimp sequence, see pictures
- when crimping Al-part, use special matrix 13P37M and special punch 13P37D, no matrix holder necessary
- when crimping Cu-part, use special dies 13B30, no die holder necessary



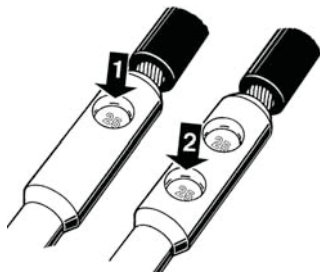
| Cat. no. mm ² | mm W | D | d | N | N ₁ | L | Rec. tool |
|--------------------------|------|----|------|------|----------------|-----|-------------|
| AKK300B-12 | 37 | 37 | 22,3 | 18,5 | 18,5 | 139 | PVL1300DUAL |
| AKK300B-16 | 37 | 37 | 22,3 | 18,5 | 18,5 | 139 | PVL1300DUAL |
| AKK400B-16 | 37 | 37 | 25 | 18,5 | 18,5 | 139 | PVL1300DUAL |
| AKK400BA-16 | 37 | 37 | 26 | 18,5 | 18,5 | 139 | PVL1300DUAL |
| AKK400B-12 | 37 | 37 | 25 | 18,5 | 18,5 | 139 | PVL1300DUAL |

AlCu pin terminals, bi-metal 16 - 300 mm²

- used to connect Al conductors to mechanical clamp type connections for round Cu pins.
- two adjacent crimps are necessary - crimp sequence, see picture



| Cat. no. stranded, mm ² | Solid mm ² | mm e | d | D | L ₁ | L | Pcs/pack | Rec. System |
|------------------------------------|-----------------------|------|------|------|----------------|-----|----------|-------------|
| AKP16 | 25 (16) | 6,0 | 5,9 | 13,0 | 25 | 56 | 48 | V1300 |
| AKP25 | 35 | 6,0 | 6,8 | 13,0 | 25 | 56 | 48 | V1300 |
| AKP35 | 50 | 9,0 | 8,5 | 20 | 25 | 78 | 24 | V1300 |
| AKP50 | 70 | 9,0 | 9,6 | 20 | 35 | 88 | 24 | V1300 |
| AKP70 | 95 | 9,0 | 11,3 | 20 | 35 | 88 | 24 | V1300 |
| AKP95 | 120 | 12,0 | 12,5 | 25 | 35 | 103 | 24 | V1300 |
| AKP120 | 150 | 12,0 | 14,0 | 25 | 40 | 108 | 24 | V1300 |
| AKP150 | 185 | 12,0 | 15,8 | 25 | 40 | 108 | 24 | V1300 |
| AKP185 | 240 | 14,0 | 17,6 | 32 | 45 | 113 | 12 | V1300 |
| AKP240 | | 14,0 | 19,8 | 32 | 45 | 113 | 12 | V1300, V250 |
| AKP300 | | 16,0 | 22 | 36 | 50 | 143 | 9 | V250 |



Crimp sequence.

Transition connectors for Al conductors 16 - 95 mm² to Cu solid conductors 10 mm²

- adapter connector from stranded Al-conductor to solid Cu-conductor 10 mm² (e.g. Excel, Excelett)
- two crimps are necessary for both Al and Cu, crimp sequence see picture (equal order for Cu)



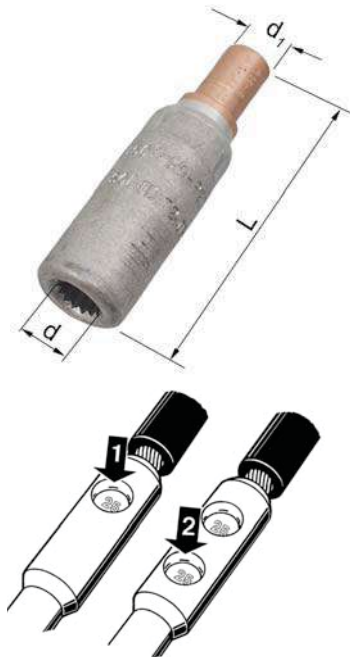
| Cat. no., mm ² , Al-Cu | Solid Al mm ² | mm d | d ₁ | L | Pcs/pack | Rec. System | Note |
|-----------------------------------|--------------------------|------|----------------|-----|----------|-------------|------|
| AKS16-10S | 25 (16) | 5,9 | 4,5 | 64 | 48 | V1300 | 1 |
| AKS25-10S | 35 | 6,8 | 4,5 | 64 | 48 | V1300 | 1 |
| AKS35-10S | 50 | 8,5 | 4,5 | 86 | 48 | V1300 | 1 |
| AKS50-10S | 70 | 9,6 | 4,5 | 86 | 24 | V1300 | 1 |
| AKS70-10S | 95 | 11,3 | 4,5 | 86 | 24 | V1300 | 1 |
| AKS95-10S | 120 | 12,5 | 4,5 | 101 | 24 | V1300 | 1 |

Note

1. Make two crimps also on the Cu-side.

AlCu bimetal through connectors 16 - 400 mm²

- connect Al-conductors to Cu-conductors
- stranded/solid Al-conductors, stranded/flexible Cu conductor
- two adjacent crimps for Al, see picture; normally one for Cu
- when crimping the Cu-part, place the dies between the marked circular groove on the Cu-barrel and the edge



Crimp sequence.

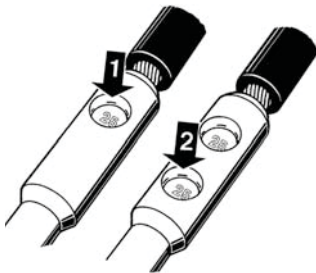
| Cat. no., mm ² , Al-Cu | Solid Al mm ² | mm d | d ₁ | L | Pcs/ pack | Rec. System |
|--------------------------------------|-----------------------------|---------|----------------|-----|--------------|-------------|
| AKS16-10 | 25 (16) | 5,9 | 5,0 | 46 | 48 | V1300 |
| AKS25-10 | 35 | 6,8 | 5,0 | 46 | 48 | V1300 |
| AKS25-16 | 35 | 6,8 | 6,0 | 46 | 48 | V1300 |
| AKS35-10 | 50 | 8,5 | 5,0 | 66 | 24 | V1300 |
| AKS35-16 | 50 | 8,5 | 6,0 | 66 | 24 | V1300 |
| AKS35-25 | 50 | 8,5 | 8,0 | 69 | 24 | V1300 |
| AKS50-10 | 70 | 9,6 | 5,0 | 66 | 24 | V1300 |
| AKS50-16 | 70 | 9,6 | 6,0 | 66 | 24 | V1300 |
| AKS50-25 | 70 | 9,6 | 8,0 | 69 | 24 | V1300 |
| AKS50-35 | 70 | 9,6 | 9,0 | 71 | 24 | V1300 |
| AKS50-50 | 70 | 9,6 | 11,0 | 76 | 24 | V1300 |
| AKS70-35 | 95 | 11,3 | 9,0 | 71 | 24 | V1300 |
| AKS70-50 | 95 | 11,3 | 11,0 | 76 | 24 | V1300 |
| AKS70-70 | 95 | 11,3 | 13,0 | 78 | 24 | V1300 |
| AKS95-10 | 120 | 12,5 | 5,0 | 81 | 24 | V1300 |
| AKS95-16 | 120 | 12,5 | 6,0 | 81 | 24 | V1300 |
| AKS95-25 | 120 | 12,5 | 8,0 | 84 | 24 | V1300 |
| AKS95-35 | 120 | 12,5 | 9,0 | 86 | 24 | V1300 |
| AKS95-50 | 120 | 12,5 | 11,0 | 91 | 24 | V1300 |
| AKS95-70 | 120 | 12,5 | 13,0 | 93 | 24 | V1300 |
| AKS95-95 | 120 | 12,5 | 15,0 | 94 | 24 | V1300 |
| AKS120-50 | 150 | 14,0 | 11,0 | 91 | 24 | V1300 |
| AKS120-70 | 150 | 14,0 | 13,0 | 93 | 24 | V1300 |
| AKS120-95 | 150 | 14,0 | 15,0 | 94 | 24 | V1300 |
| AKS120-120 | 150 | 14,0 | 17,0 | 98 | 24 | V1300 |
| AKS150-25 | 185 | 15,8 | 8,0 | 84 | 24 | V1300 |
| AKS150-35 | 185 | 15,8 | 9,0 | 86 | 24 | V1300 |
| AKS150-50 | 185 | 15,8 | 11,0 | 91 | 24 | V1300 |
| AKS150-70 | 185 | 15,8 | 13,0 | 93 | 24 | V1300 |
| AKS150-95 | 185 | 15,8 | 15,0 | 94 | 24 | V1300 |
| AKS150-120 | 185 | 15,8 | 17,0 | 99 | 24 | V1300 |
| AKS150-150 | 185 | 15,8 | 19,0 | 99 | 24 | V1300 |
| AKS185-95 | 240 | 17,6 | 15,0 | 94 | 12 | V1300 |
| AKS185-120 | 240 | 17,6 | 17,0 | 99 | 12 | V1300 |
| AKS185-150 | 240 | 17,6 | 19,0 | 100 | 12 | V1300 |
| AKS185-185 | 240 | 17,6 | 21 | 100 | 12 | V1300 |
| AKS240-35 | | 19,8 | 9,0 | 87 | 12 | V1300, V250 |
| AKS240-50 | | 19,8 | 11,0 | 91 | 12 | V1300, V250 |
| AKS240-70 | | 19,8 | 13,0 | 94 | 12 | V1300, V250 |
| AKS240-95 | | 19,8 | 15,0 | 94 | 12 | V1300, V250 |
| AKS240-120 | | 19,8 | 17,0 | 99 | 12 | V1300, V250 |
| AKS240-150 | | 19,8 | 19,0 | 100 | 12 | V1300, V250 |
| AKS240-185 | | 19,8 | 21 | 100 | 12 | V1300, V250 |
| AKS240-240A | | 19,8 | 22,5 | 100 | 12 | V1300, V250 |
| AKS300-150 | | 22 | 19,0 | 124 | 9 | V250 |
| AKS300-185 | | 22 | 21 | 124 | 9 | V250 |
| AKS300-240A | | 22 | 22,5 | 125 | 9 | V250 |
| AKS400-150 | | 25 | 19,0 | 124 | 6 | V250 |
| AKS400-185 | | 25 | 21 | 124 | 6 | V250 |
| AKS400-240A | | 25 | 22,5 | 124 | 6 | V250 |
| AKS400-300A | | 25 | 24,5 | 125 | 6 | V250 |

AlCu bimetallic through connectors 300 - 400 mm²

- connect Al-conductors to Cu-conductors
- stranded/solid Al-conductors, stranded/flexible Cu conductor
- two adjacent crimps are necessary - crimp sequence, see pictures
- when crimping Al-part, use special matrix 13P37M and special punch 13P37D, no matrix holder necessary
- when crimping Cu-part, use special dies 13B30, no die holder necessary
- when crimping the Cu-part, place the dies between the marked circular groove on the Cu-barrel and the edge



| Cat. no., mm ² , Al-Cu | mm D | d | d ₁ | L | Rec. tool |
|--------------------------------------|---------|------|----------------|-----|-------------|
| AKS300B-240A | 37 | 22,3 | 29 | 111 | PVL1300DUAL |
| AKS400B-240A | 37 | 25 | 29 | 111 | PVL1300DUAL |



Crimp sequence.

Patented DUAL System for crimping flexible conductors in KRF/KSF-connectors for demanding applications, 10 - 300 mm²

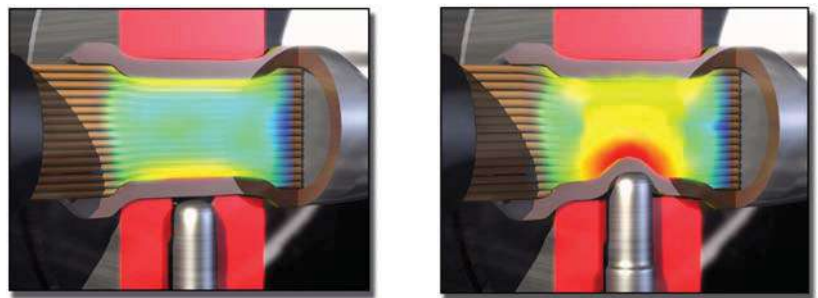


Particulars:

- patented crimp technique
- for crimping of flexible Cu-terminals according to IEC60228, type class 5
- crimps terminals type KRF and through connectors type KSF
- for extra tough environments like cars and train, where the connections except electrical properties also are exposed to such as corrosion, mechanical strength and vibration
- meet the requirements in IEC/EN 61238:1
- meet the requirements of corrosion according to DIN V 40 046, part 37
- meet the requirements for vibration according to EN 50 155
- meet the requirements of mechanical strength according to SEN 24 50 10

Crimp sequence

The crimp starts with an optimized hexagonal crimp and then makes a small indent in the same crimp cycle to further improve gas tightness as well as electrical and mechanical properties.



PVL1300DUAL



Crimp types



DUAL+regular crimps

PVL1300DUAL

Battery powered crimp tool for crimping of type KRF/KSF 10–300 mm², and Al-terminals 16-240 mm² (without DUAL function) in demanding applications.

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)



DV1300



Crimp geometries



DUAL+regular crimps

DV1300

Crimp head for crimping of type KRF/KSF 10-300 mm². Used with footpump P4000 or battery / mains powered pump PS710.

Particulars:

- crimp head with the patented DUAL CRIMP technique which starts with an optimized hexagonal crimp and then makes a small indent in the same crimp cycle to further improve gas tightness as well as electrical and mechanical properties
- DUAL dies are available for 10 - 300 mm²
- crimps terminals type KRF and through connectors type KSF
- conventional accessories as shown for V1300 can be used (without DUAL-function)
- DV1300 can also be used with regular crimp dies for the 1300-system
- no die holders are necessary when using DUAL dies
- weight 3.4 kg

DV1300C

C-fork type crimp head, open to one side, for crimping of type KRF/KSF 10-300 mm². Used with footpump P4000 or battery / mains powered pump PS710.

Particulars:

- Crimp head with the patented DUAL CRIMP technique which starts with an optimized hexagonal crimp and then makes a small indent in the same crimp cycle to further improve gas tightness as well as electrical and mechanical properties
- DUAL dies are available for 10 - 300 mm²
- crimps terminals type KRF and through connectors type KSF
- conventional dies as for V1300C can be used (without DUAL-function)
- DV1300C can also be used with regular crimp dies for the 1300C-system
no die holders are necessary when using DUAL-dies
- weight 4.9 kg

DV1300C



Crimp geometries



DUAL + regular crimps

Accessories for crimping flexible Cu conductors in the DUAL Crimp system with PVL1300DUAL, DV1300 and DV1300C

DUAL crimp dies

Supplied in pairs.

For crimping of flexible Cu conductors in terminals type KRF or connectors type KSF.

No die holders necessary.



Die pair 13DB20.



Die pair 13DCB20.

| mm ² | Dies for DV1300 and PVL1300DUAL | Dies for DV1300C | No. of crimps |
|-----------------|---------------------------------|------------------|---------------|
| 10 | 13DB8 | 13DCB8 | 1 |
| 16 | 13DB9 | 13DCB9 | 1 |
| 25 | 13DB11 | 13DCB11 | 1 |
| 35 | 13DB13 | 13DCB13 | 1 |
| 50 | 13DB14,5 | 13DCB14,5 | 1 |
| 70 | 13DB17 | 13DCB17 | 1 |
| 95 | 13DB20 | 13DCB20 | 1 |
| 120 | 13DB22 | 13DCB22 | 2 |
| 150 | 13DB25 | 13DCB25 | 2 |
| 185 | 13DB27 | 13DCB27 | 2 |
| 240 | 13DB30 | 13DCB30 | 2 |
| 300 | 13DB32 | 13DCB32 | 2 |

Crimp station for industrial crimping needs, KRF/KSF-terminals 10 - 300 mm²

CS2500

Crimp station CS2500 offers effective production with highest operator safety. Advanced intelligent features combined with simplicity make the product unique.



Crimp station CS2500.



Analyzer, crimp station CS2500 and pump PS710D.

Particulars:

- designed for continuous production of Cu tubeterminals, 10-300 mm²
- fast locking and unlocking of terminals, with low force, makes the total crimp cycle short
- constructed to give high personal safety
- high crimping force up to 250 kN, self- adjusting for optimal durability of tool and accessories
- one crimpcycle regardless crimp size
- Elpress patented DUAL System is used
- Elpress Hydraulic pump unit, of type PS710 with foot pedal and with advanced control and supervision is attached
- CE-approved, fulfilling machine safety regulations
- PC- software for crimp analysis is available
- to be used with mains powered pump PS710D
- weight 60 kg
- dimensions 200 x 350 x 350 mm

Dies

Supplied in pairs.

For crimping of Cu-terminals and connectors, KRF/KSF.

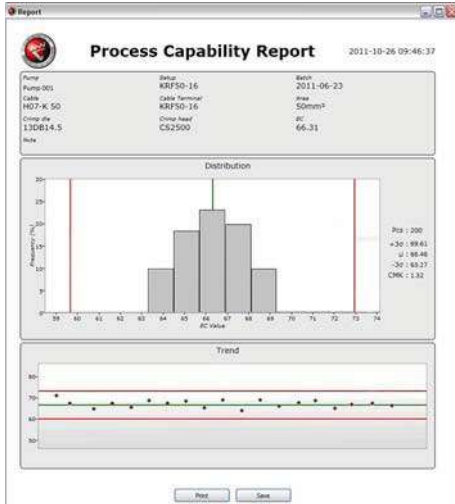
Used without die holders.



Dies 13DCB20.

| mm ² | Dies | No. of crimps |
|-----------------|-----------|---------------|
| 10 | 13DCB8 | 1 |
| 16 | 13DCB9 | 1 |
| 25 | 13DCB11 | 1 |
| 35 | 13DCB13 | 1 |
| 50 | 13DCB14,5 | 1 |
| 70 | 13DCB17 | 1 |
| 95 | 13DCB20 | 1 |
| 120 | 20DCB22 | 1 |
| 150 | 20DCB25 | 1 |
| 185 | 20DCB27 | 1 |
| 240 | 20DCB30 | 1 |
| 300 | 20DCB32 | 1 |

Analyzer, software for analysis of crimps and system calibration



Analyzer, monitors and measure all crimps.



The Analyzer computer software is used for quality assurance of crimping work.

The Analyzer computer software is used for quality assurance of crimping work. In a simple way all crimps can be examined in a PC. This unique SPC-tool, Statistic Process Control, give the opportunity to look upon crimping as a measurable process. By definition, process control is a statistical program for systematic studies of variations in operational performance. Import and export of information to customers or just internal can now be realized, as well as printing reports. Analyzer should be used together with Elpress pump PS710D and crimpstation CS2500 or Elpress pump PS710E together with system V1300 or V250.

Particulars:

- Elpress Analyzer improves total quality
- helps the operator
- provides a tool for process improvement
- monitors and measure all crimps
- supports preventive maintenance of equipment
- creates traceability and documents
- makes communication easy
- increases user competence
- eliminates defective crimps
- delivered with instructions for use

Light weight and handy pump designed according to customer request

PS710 POWERMAN



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 as well in cable harness manufacturing as for electrician work in the installation field. 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
- Small dimensions 370x250x160 mm
- Weight approx. 11 kg
- Mains power 100-240 VAC 50-60 Hz
- Li-ion battery 28,8 V

The pump system consists of three basic versions, all with customizing possibilities;

PS710D



PS710D

For the cable harness manufacturer.

Technical data:

- unique electronic system together with a special PC-software
- process control and analysis, SPC – each crimp can be traced
- communication to PC in real-time, immediate quality check
- integrated communication through CAN with Elpress CS2500 unit
- high flow hydraulic pump for fastest crimping movement
- can be used with a PC in a data-network with a printer
- to be used with crimp station CS2500

PS710E



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
- to be used with crimp head system 1300 or 250

PS710R



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
- to be used with crimp head system 1300 or 250

Hydraulic foot pump

P4000

Elpress hydraulic footpump.

P4000



Particulars:

- unique design in high tensile aluminium alloy
- low weight, 8.6 kg, incl. 2.2 m hose
- standard setting 630 bar (max setting to 700 bar)
- safety valve for relief at all pressures
- a pressure gauge can be attached to indicate working pressure
- ergonomic design
- high finish anodised surface - easy to keep clean
- high efficiency two-step oil flow
- simple foot operated off-loading (piston return) after automatic stop at full pressure
- robust and stable to work with
- practical storage position for hose

Mains powered pump for industrial use

The pump operates all Elpress crimp heads.

P1000

P1000 is a secure, lean produced 2-step pump as an economical alternative for industrial use where simplicity and reliability is required. The pump is supplied with Elpress safety hose with quick coupling. The robust although light weight-ed design allows intensive use in most cases. The pump is CE-approved.

P1000



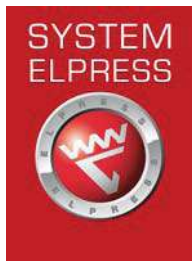
Particulars:

- function Self holding pressure during crimp cycle, automatic return after completed crimp
- hydraulic pressure: Working range 0-63 (70) MPa, adjustable
- hydraulic flow: Low pressure (up to 1.5 MPa) approx. 0.8 l/min, High pressure (more than 1,5 MPa) 0.2 l/min
- oil volume 2 l (usable 1,8 l)
- oil hydraulic oil ISOVG32
- measures, w x d x h approx. 250 x 150 x 384 mm (excl. hose)
- weight 15 kg (incl. hose)
- mains connection 230 V AC 50/60 Hz
- allowable voltage fluctuation: Rated voltage \pm 5%
- electric motor 0.25 kW, Class E insulation, open type commutated motor 230 V, 50/60 Hz single-phase, Max. current: 2.8 A (5 min.)
- protection class IP20
- environment temperatures 0 - 40°C
- CE-approved: Machine safety 98/37/CE, LVD 73/23/EEC
- hydraulic hose 2.4 m, quick coupling, manoeuvre handle 12 V AC
- mains cord 1.5 m earth plug

Pre-insulated terminals

System Elpress

System Elpress consists of connections and tools tested together for optimum fitting. 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.



Pre-insulated terminals

Elpress ring, fork and pin terminals are manufactured from high grade copper and receptacles from brass or tin-bronze. All terminals are electrolytically tin plated to achieve good corrosion protection. The necks of the terminals are brazed and annealed to allow crimping in any direction around the neck. The metal in the receptacles neck is double folded for excellent mechanical strength and electrical conductivity.

Insulation

Elpress insulation sleeves are moulded in polycarbonate which has excellent deformation characteristics and maintains its vibration support up to high temperatures, well over 100° C. Caution must be taken at alkalic exposure.



Ring terminals 0.1 - 6 mm²

■ Data: Cu 99.95%, tin plated, brazed necks.

■ PC sleeves have EasyEntry, PC and PA sleeves are halogen free.

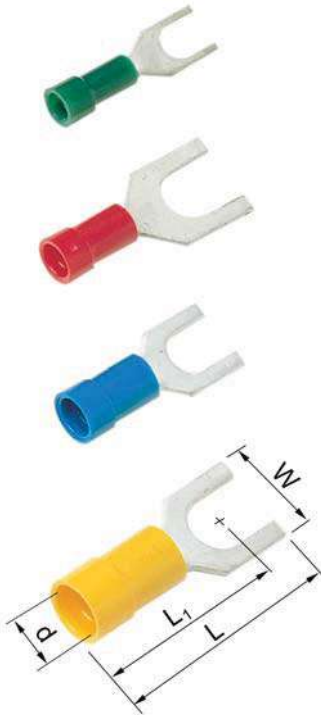
| | mm ² | Cat. no. | Screw | mm W | d | t | L ₁ | L | s | Rec. tool | Pcs/pack | Insulation |
|--------|-----------------|----------|-------|------|-----|------|----------------|------|---|-----------|----------|------------|
| Yellow | 0,1-0,5 | A0522R | M2 | 5,4 | 2,0 | 0,5 | 14,0 | 16,0 | 6 | DSA0115 | 100 | PA* |
| | | A0532R | M3 | 5,0 | 2,0 | 0,5 | 14,0 | 16,0 | 6 | DSA0115 | 100 | PA* |
| | | A0543R | M4 | 7,0 | 2,0 | 0,5 | 16,0 | 19,0 | 6 | DSA0115 | 100 | PA* |
| | | A0553R | M5 | 8,0 | 2,0 | 0,5 | 15,0 | 19,0 | 6 | DSA0115 | 100 | PA* |
| Green | 0,25-0,75 | A0832R | M3 | 5,5 | 3,2 | 0,5 | 15,0 | 18,0 | 7 | DSA0115 | 100 | PC |
| | | A0837R | M3,5 | 6,2 | 3,2 | 0,5 | 17,5 | 21 | 7 | DSA0115 | 100 | PC |
| | | A0843R | M4 | 7,5 | 3,2 | 0,5 | 17,5 | 21 | 7 | DSA0115 | 100 | PC |
| | | A0853R | M5 | 9 | 3,2 | 0,5 | 17,5 | 22 | 7 | DSA0115 | 100 | PC |
| Red | 0,5-15 | A1532R | M3 | 5,5 | 4,0 | 0,7 | 16,0 | 19,0 | 7 | GSA0760 | 100 | PC |
| | | A1537R | M3,5 | 6,0 | 4,0 | 0,7 | 16 | 19 | 7 | GSA0760 | 100 | PC |
| | | A1543R | M4 | 7,5 | 4,0 | 0,7 | 17 | 20,5 | 7 | GSA0760 | 100 | PC |
| | | A1553R | M5 | 9,0 | 4,0 | 0,7 | 18 | 22,5 | 7 | GSA0760 | 100 | PC |
| | | A1565R | M6 | 11,0 | 4,0 | 0,7 | 21 | 26,5 | 7 | GSA0760 | 100 | PC |
| | | A1585R | M8 | 14,0 | 4,0 | 0,7 | 20 | 27,5 | 7 | GSA0760 | 100 | PC |
| | | A1510R | M10 | 16,5 | 4,0 | 0,7 | 22 | 30,5 | 7 | GSA0760 | 100 | PC |
| Blue | 1,5-2,5 | A2532R | M3 | 5,5 | 4,5 | 0,8 | 16 | 19 | 8 | GSA0760 | 100 | PC |
| | | A2537R | M3,5 | 6 | 4,5 | 0,8 | 16 | 19 | 8 | GSA0760 | 100 | PC |
| | | A2543R | M4 | 7 | 4,5 | 0,8 | 17,5 | 21 | 8 | GSA0760 | 100 | PC |
| | | A2553R | M5 | 9,0 | 4,5 | 0,8 | 18 | 23 | 8 | GSA0760 | 100 | PC |
| | | A2565R | M6 | 11,0 | 4,5 | 0,8 | 20,6 | 26,1 | 8 | GSA0760 | 100 | PC |
| | | A2585R | M8 | 14,0 | 4,5 | 0,8 | 20 | 27,5 | 8 | GSA0760 | 100 | PC |
| | | A2510R | M10 | 16,5 | 4,5 | 0,75 | 22 | 30,5 | 8 | GSA0760 | 100 | PC |
| | | A2513R | M12 | 19,0 | 4,5 | 0,75 | 25 | 34 | 8 | GSA0760 | 100 | PA |
| Yellow | 4-6 | A4643R | M4 | 7,8 | 6,4 | 1,0 | 20,5 | 24,5 | 9 | GSA0760 | 100 | PC |
| | | A4653R | M5 | 9,0 | 6,4 | 1,0 | 20,5 | 25 | 9 | GSA0760 | 100 | PC |
| | | A4665R | M6 | 11,0 | 6,4 | 1,0 | 23 | 28,5 | 9 | GSA0760 | 100 | PC |
| | | A4685R | M8 | 14,0 | 6,4 | 1,0 | 23,8 | 30,8 | 9 | GSA0760 | 100 | PC |
| | | A4610R | M10 | 17,0 | 6,4 | 1,0 | 25,5 | 34 | 9 | GSA0760 | 50 | PC |
| | | A4613R | M12 | 19,2 | 6,8 | 1,0 | 31 | 40 | 9 | GSA0760 | 50 | PVC* |

t = palm thickness s = strip length * no EasyEntry

Fork terminals 0.1 - 6 mm²

■ Data: Cu 99.95%, tin plated, brazed necks.

■ PC sleeves have EasyEntry, PC and PA sleeves are halogen free.



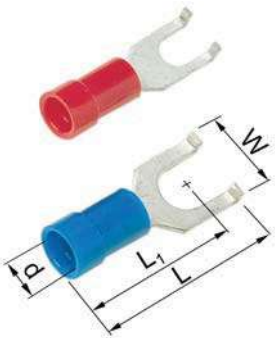
| | mm ² | Cat. no. | Screw | mm W | d | t | L ₁ | L | s | Rec. tool | Pcs/pack | Insulation |
|--|-----------------|----------|-------|------|-----|-----|----------------|------|---|-----------|----------|------------|
| | 0,1-0,5 | A0532G | M3 | 5,0 | 2,0 | 0,5 | 14,0 | 16,0 | 6 | DSA0115 | 100 | PA* |
| | 0,25-0,75 | A0832G | M3 | 5,5 | 3,2 | 0,5 | 15,0 | 18,0 | 7 | DSA0115 | 100 | PC |
| | | A0837G | M3,5 | 6,2 | 3,2 | 0,5 | 17,5 | 21 | 7 | DSA0115 | 100 | PC |
| | | A0843G | M4 | 6,2 | 3,2 | 0,5 | 17,5 | 21 | 7 | DSA0115 | 100 | PC |
| | 0,5-1,5 | A1532G | M3 | 5,5 | 4,0 | 0,7 | 16 | 19 | 7 | GSA0760 | 100 | PC |
| | | A1537G | M3,5 | 6,2 | 4,0 | 0,7 | 17,5 | 21 | 7 | GSA0760 | 100 | PC |
| | | A1537GS | M3,5 | 5,5 | 4,0 | 0,7 | 17 | 21,2 | 7 | GSA0760 | 100 | PC |
| | | A1543G | M4 | 7,0 | 4,0 | 0,7 | 17,5 | 21 | 7 | GSA0760 | 100 | PC |
| | | A1553G | M5 | 9,0 | 4,0 | 0,7 | 18 | 22,5 | 7 | GSA0760 | 100 | PC |
| | | A1565G | M6 | 11,0 | 4,0 | 0,7 | 21 | 26,5 | 7 | GSA0760 | 100 | PC |
| | 1,5-2,5 | A2532G | M3 | 5,5 | 4,5 | 0,8 | 15,0 | 18,0 | 8 | GSA0760 | 100 | PC |
| | | A2537G | M3,5 | 6,2 | 4,5 | 0,8 | 17,5 | 21 | 8 | GSA0760 | 100 | PC |
| | | A2537GS | M3,5 | 5,5 | 4,5 | 0,8 | 17 | 21,2 | 8 | GSA0760 | 100 | PC |
| | | A2543G | M4 | 7,0 | 4,5 | 0,8 | 17,5 | 21 | 8 | GSA0760 | 100 | PC |
| | | A2553G | M5 | 9,0 | 4,5 | 0,8 | 18 | 23 | 8 | GSA0760 | 100 | PC |
| | | A2565G | M6 | 11,0 | 4,5 | 0,8 | 19,5 | 25 | 8 | GSA0760 | 100 | PC |
| | 4-6 | A4643G | M4 | 7,8 | 6,4 | 1,0 | 20 | 24 | 9 | GSA0760 | 100 | PC |
| | | A4653G | M5 | 9,0 | 6,4 | 1,0 | 20,5 | 25 | 9 | GSA0760 | 100 | PC |
| | | A4665G | M6 | 11,0 | 6,4 | 1,0 | 21,5 | 27 | 9 | GSA0760 | 100 | PC |
| | | A4685G | M8 | 14,0 | 6,4 | 1,0 | 23 | 30 | 9 | GSA0760 | 100 | PC |
| | | A4610G | M10 | 18,0 | 6,4 | 1,0 | 27 | 36 | 9 | GSA0760 | 100 | PA |

t = palm thickness s = strip length * no EasyEntry

Flanged fork terminals 0.5 - 2.5 mm²

■ Data: Cu 99.95%, tin plated, brazed necks.

■ PC sleeves have EasyEntry, PC and PA sleeves are halogen free.



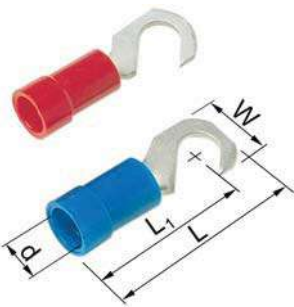
| | mm ² | Cat. no. | Screw | mm W | d | t | L ₁ | L | s | Rec. tool | Pcs/pack | Insulation |
|--|-----------------|----------|-------|------|-----|-----|----------------|------|---|-----------|----------|------------|
| | 0,5-1,5 | A1537GB | M3,5 | 6,2 | 4,0 | 0,7 | 17,5 | 21 | 7 | GSA0760 | 100 | PC |
| | | A1543GB | M4 | 6,2 | 4,0 | 0,7 | 17,5 | 21 | 7 | GSA0760 | 100 | PC |
| | 1,5-2,5 | A2543GB | M4 | 6,2 | 4,5 | 0,8 | 17,5 | 21 | 7 | GSA0760 | 100 | PC |
| | | A2553GB | M5 | 9,0 | 4,5 | 0,8 | 17,5 | 22,5 | 7 | GSA0760 | 100 | PC |

t = palm thickness s = strip length

Hook terminals 0.5 - 2.5 mm²

■ Data: Cu 99.95%, tin plated, brazed necks.

■ PC sleeves have EasyEntry, PC and PA sleeves are halogen free.



| | mm ² | Cat. no. | Screw | mm W | d | t | L ₁ | L | s | Rec. tool | Pcs/pack | Insulation |
|--|-----------------|----------|-------|------|-----|-----|----------------|------|---|-----------|----------|------------|
| | 0,5-1,5 | A1543K | M4 | 7 | 4,0 | 0,8 | 17 | 20,5 | 7 | GSA0760 | 100 | PC |
| | 1,5-2,5 | A2543K | M4 | 7,5 | 4,5 | 0,8 | 17 | 21 | 8 | GSA0760 | 100 | PC |

t = palm thickness s = strip length

End terminals

Elpress end terminals are manufactured from tin plated, electrolytic 99.95% copper tubes. The end terminals have dimensions in accordance with DIN 46228. Elpress end terminals are used when a perfect connection is required, for example, to a screw terminal block. The strands are kept together and connecting screws will not damage the strands. Long lasting contact forces are easier to achieve.

Pre-insulated end terminals 0.14 - 50 mm² ET, standard colour

■ Data: Cu 99.95%, tin plated. CSA approved.

■ Insulation polypropylene, dimensions according to DIN 46228, colour code W.



| | AWG | mm ² | Cat. no. | mm d | L ₁ | L | s | Rec. tool | Pcs/pack |
|-------------|-----|-----------------|------------|------|----------------|------|----|-----------|----------|
| Grey | 26 | 0,14 | A0,14-6ET* | 2,0 | 6 | 10,5 | 8 | EEB0160 | 500 |
| | 26 | | A0,14-8ET* | 2,0 | 8 | 12,5 | 10 | EEB0160 | 500 |
| Light Blue | 24 | 0,25 | A0,25-6ET* | 2,0 | 6 | 10,5 | 8 | EEB0160 | 100 |
| | 24 | | A0,25-8ET* | 2,0 | 8 | 12,5 | 10 | EEB0160 | 500 |
| Light Green | 24 | 0,34 | A0,34-6ET* | 2,0 | 6 | 10,5 | 8 | EEB0160 | 100 |
| | 24 | | A0,34-8ET* | 2,0 | 8 | 12,5 | 10 | EEB0160 | 100 |
| Orange | 20 | 0,5 | A0,5-6ET | 2,5 | 6 | 11,5 | 8 | EEB0160 | 100 |
| | 20 | | A0,5-8ET | 2,5 | 8 | 13,5 | 10 | EEB0160 | 100 |
| | 20 | | A0,5-10ET | 2,5 | 10 | 15,5 | 12 | EEB0160 | 100 |
| White | 20 | 0,75 | A0,75-6ET | 2,8 | 6 | 12,0 | 8 | EEB0160 | 100 |
| | 20 | | A0,75-8ET | 2,8 | 8 | 14,0 | 10 | EEB0160 | 100 |
| | 20 | | A0,75-10ET | 2,8 | 10 | 16,0 | 12 | EEB0160 | 100 |
| | 20 | | A0,75-12ET | 2,8 | 12 | 18,0 | 14 | EEB0160 | 100 |
| Yellow | 18 | 1 | A1-6ET | 3,0 | 6 | 12,5 | 8 | EEB0160 | 100 |
| | 18 | | A1-8ET | 3,0 | 8 | 14,5 | 10 | EEB0160 | 100 |
| | 18 | | A1-10ET | 3,0 | 10 | 16,5 | 12 | EEB0160 | 100 |
| | 18 | | A1-12ET | 3,0 | 12 | 18,5 | 14 | EEB0160 | 100 |
| Red | 16 | 1,5 | A1,5-6ET* | 3,4 | 6 | 12,5 | 8 | EEB0160 | 100 |
| | 16 | | A1,5-8ET | 3,4 | 8 | 14,5 | 10 | EEB0160 | 100 |
| | 16 | | A1,5-10ET | 3,4 | 10 | 16,5 | 12 | EEB0160 | 100 |
| | 16 | | A1,5-12ET | 3,4 | 12 | 18,5 | 14 | EEB0160 | 100 |
| | 16 | | A1,5-18ET | 3,4 | 18 | 24,5 | 20 | EEB0160 | 100 |
| Yellow | 14 | 2,08 | A2,08-8ET* | 3,6 | 8 | 14,5 | 10 | EEB0160 | 100 |
| Light Blue | 14 | 2,5 | A2,5-8ET | 4,2 | 8 | 15,0 | 10 | EEB0160 | 100 |
| | 14 | | A2,5-10ET | 4,2 | 10 | 17,0 | 12 | EEB0160 | 100 |
| | 14 | | A2,5-12ET | 4,2 | 12 | 19,0 | 14 | EEB0160 | 100 |
| | 14 | | A2,5-18ET | 4,2 | 18 | 25,0 | 20 | EEB0160 | 100 |
| Grey | 12 | 4 | A4-10ET | 4,8 | 10 | 18 | 12 | EEB0160 | 100 |
| | 12 | | A4-12ET | 4,8 | 12 | 20,0 | 14 | EEB0160 | 100 |
| | 12 | | A4-18ET | 4,8 | 18 | 26,0 | 20 | EEB0160 | 100 |
| Black | 10 | 6 | A6-12ET | 6,2 | 12 | 20 | 14 | EEB0160 | 100 |
| | 10 | | A6-18ET | 6,2 | 18 | 26 | 20 | EEB0160 | 100 |
| Light Green | 8 | 10 | A10-12ET | 7,5 | 12 | 21 | 14 | GEB1025 | 100 |
| | 8 | | A10-18ET | 7,5 | 18 | 27 | 20 | GEB1025 | 100 |
| Light Green | 6 | 16 | A16-12ET | 8,8 | 12 | 23 | 14 | GEB1025 | 100 |
| | 6 | | A16-18ET | 8,8 | 18 | 29 | 20 | GEB1025 | 100 |
| Dark Red | 4 | 25 | A25-16ET | 11,0 | 16 | 29 | 18 | GEB1025 | 50 |
| | 4 | | A25-18ET | 11,0 | 18 | 31,0 | 20 | GEB1025 | 50 |
| | 4 | | A25-22ET | 11,0 | 22 | 35 | 24 | GEB1025 | 50 |
| Yellow | 2 | 35 | A35-16ET | 12,5 | 16 | 30 | 18 | GEB3550 | 50 |
| | 2 | | A35-18ET | 12,5 | 18 | 32,0 | 20 | GEB3550 | 50 |
| | 2 | | A35-25ET | 12,5 | 25 | 39 | 27 | GEB3550 | 50 |
| Black | 1/0 | 50 | A50-20ET | 15,0 | 20 | 36,0 | 22 | GEB3550 | 50 |
| | 1/0 | | A50-25ET | 15,0 | 25 | 41,0 | 27 | GEB3550 | 50 |

* does not conform to DIN 46228

s = strip length

For larger areas than 50 mm², contact Elpress.

Certified tools for pre-insulated terminals and end terminals

GSA0760



Crimp range 0.5 - 6 mm²

GSA0760 and GSA0760C

Elpress Miniforce crimp tools for symmetrical crimping of pre-insulated terminals 0,5 - 6 mm².

- locator to hold the terminal in the right position when crimping which simplifies the installation
- die calibration is easily performed with the gauge ESAQ0760
- die nests leave imprints on terminal insulation sleeve after crimp to show nest size and Elpress logotype for system identification

| Area | Cat. no. | Crimp types | Weight | Length x Width |
|-----------------------|----------|-------------------|----------|----------------|
| 0.5-6 mm ² | GSA0760 | oval, symmetrical | 0.664 kg | 220 x 72 mm |
| 0.5-6 mm ² | GSA0760C | oval, symmetrical | 0.678 kg | 255 x 72 mm |

DSA0115



Crimp range 0.14 - 1.5 mm²

DSA0115

Elpress crimp tool for symmetrical crimping of pre-insulated terminals.

| Area | Cat. no. | Crimp type | Weight | Length x Width |
|--------------------------|----------|-------------------|----------|----------------|
| 0.14-1.5 mm ² | DSA0115 | oval, symmetrical | 0.445 kg | 192 x 66 mm |

EEB0160



Self setting crimp range 0.1 - 6 mm²

EEB0160

Miniforce self-setting tool for crimping pre-insulated and un-insulated end terminals 0.1 - 6 mm² and pre-insulated TWIN end terminals 2x0.5 - 2x4 mm².

- only one crimp nest, which automatically sets to the appropriate size for the end terminal crimped
- front feed
- accepts crimp lengths up to 20 mm

| Area | Cat. no. | Crimp type | Weight | Length x Width |
|-----------------------|----------|------------|----------|----------------|
| 0.1-6 mm ² | EEB0160 | trapetz | 0.551 kg | 220 x 72 mm |

GEB1025



Crimp range 10 - 25 mm²

GEB1025 and GEB1025C

Miniforce crimp tool for crimping pre-insulated and un-insulated end terminals.

| Area | Cat. no. | Crimp type | Weight | Length x Width |
|-----------------------|----------|------------|----------|----------------|
| 10-25 mm ² | GEB1025 | trapetz | 0.657 kg | 220 x 72 mm |
| 10-25 mm ² | GEB1025C | trapetz | 0.691 kg | 255 x 72 mm |

GEB3550



Crimp range 35 - 50 mm²

GEB3550 and GEB3550C

Miniforce crimp tool for crimping pre-insulated and un-insulated end terminals.

| Area | Cat. no. | Crimp type | Weight | Length x Width |
|-----------------------|----------|------------|----------|----------------|
| 35-50 mm ² | GEB3550 | trapetz | 0.654 kg | 220 x 72 mm |
| 35-50 mm ² | GEB3550C | trapetz | 0.691 kg | 255 x 72 mm |

Battery powered cable cutter

PKL54

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

PKL54

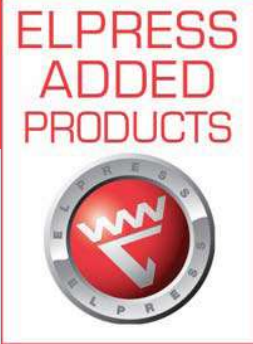


Particulars:

- 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 mm²
equivalent 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 double batteries, 14.4V NiMH

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

Cable Clamps



ELPRESS ADDED PRODUCTS - products with new possibilities

Cable Clamps for 3-conductor, Ø 27 - 69 mm

- for fastening single and multi conductor,
low and high voltage cables

Cable Clamps for fastening a wide range of single and multi conductor low and high voltage cables in a triangular formation. The installation is designed to provide superior mechanical strength. The width of the clamping area provides a controlled pressure on the cable and avoids damage to the insulation.

- Constructed for a mechanical strength up to 65500 Nm
- Temperature range -40 – +120 C° (shortly +225 C°)
- Material strength of more than 50 year
- UL tested
- Space saving
- For low and high voltage cables
- Halogen free
- Easy to mount
- Stackable

To mount next clamp above the first, i.e. a mounting of 6 cables, you preferable use 1 pcs TRIPLE 27-38 KIT, 1 pcs TRIPLE 27-38 and 1 pcs fastening material M10x120.

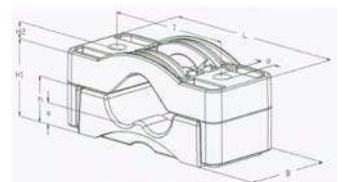


Cable clamp and mounting material

| 3-conductor x Ø, mm | Type | Mounting material (screw, nut, washer) | Rail | Fastening torque |
|------------------------|-------------------|---|------|---------------------|
| 3x27-38 | TRIPLE 27-38 KIT | Galvanized steel, 2xM10x120, 4xM10 | 300 | 20 Nm |
| 3x38-51 | TRIPLE 38-51 KIT | Galvanized steel, 2xM10,140, 4xM10 | 300 | 20 Nm |
| 3x51-69 | TRIPLE 51-69 KIT | Galvanized steel, 2xM10x180, 4xM10 | 300 | 20 Nm |
| 3x69-90 | TRIPLE 69-90 KIT | Galvanized steel, 2xM10x180, 4xM10 | 300 | 20 Nm |
| 3x90-118 | TRIPLE 90-118 KIT | Galvanized steel, 2xM10x180, 4xM10 | 300 | 20 Nm |

Cable clamp

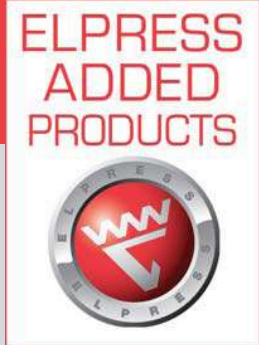
| 3-conductor x Ø, mm | Type | mm | | | | | | | | |
|------------------------|---------------|-----|-----|-----|------|-----|----|----|------|--|
| | | L | B | l | d | H1 | H2 | h | a | |
| 3x27-38 | TRIPLE 27-38 | 180 | 75 | 125 | 15.5 | 63 | 12 | 35 | 16.5 | |
| 3x38-51 | TRIPLE 38-51 | 195 | 80 | 145 | 15.5 | 84 | 16 | 45 | 20 | |
| 3x51-69 | TRIPLE 51-69 | 220 | 85 | 170 | 15.5 | 109 | 21 | 58 | 26 | |
| 3x69-90 | TRIPLE 69-90 | 252 | 90 | 215 | 15.5 | 134 | 29 | 72 | 30 | |
| 3x90-118 | TRIPLE 90-118 | 321 | 100 | 270 | 15.5 | 180 | 27 | 89 | 33 | |



Accessories

| Type | Description |
|---------|--|
| M10x120 | Fastening material, 2 threaded rods M10x120, 4 x M10 nuts and washers, 2 bushes. |

Cable Clamps



Cable Clamps for 1-conductor, Ø 26-135 mm

- for fastening single and multi conductor,
low and high voltage cables

Cable Clamps for fastening a wide range of single and multi conductor low and high voltage cables. The installation is designed to provide superior mechanical strength. The width of the clamping area provides a controlled pressure on the cable and avoids damage to the insulation.

- Constructed for a mechanical strength of up to 68 Nm
- Temperature range -40 - + 120 C° (shortly +225 C°)
- Material strength of more than 50 year
- Tested by the Prof. Ir. Damstra Laboratory
- UL tested
- For low and high voltage cables
- Halogen free

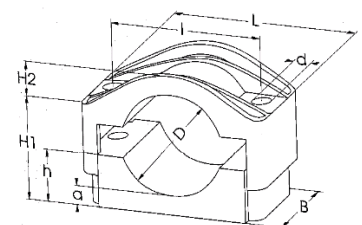


Cable Clamp and mounting material

| 1-conductor x Ø, mm | Type | Mounting material (screw, nut, washer) | Rail | Fastening torque |
|------------------------|----------------|---|------|---------------------|
| 1x26-38 | SE 26-38 KIT | Galvanized steel, 2xM10x80, 4xM10 | 200 | 5 Nm |
| 1x36-52 | SE 36-52 KIT | Galvanized steel, 2xM10x100, 4xM10 | 200 | 5 Nm |
| 1x50-75 | SE 50-75 KIT | Galvanized steel, 2xM10x100, 4xM10 | 200 | 5 Nm |
| 1x75-100 | SE 75-100 KIT | Galvanized steel, 2xM10x120, 4xM10 | 300 | 5 Nm |
| 1x100-135 | SE 100-135 KIT | Galvanized steel, 2xM10x180, 4xM10 | 300 | 5 Nm |

Cable clamp

| 1-conductor x Ø, mm | Type | mm | | | | | | | |
|------------------------|------------|-----|----|-----|----|--------|----|----|----|
| | | L | B | l | d | H1 | H2 | h | a |
| 1x26-38 | SE 26-38 | 92 | 60 | 60 | 12 | 33-49 | 7 | 18 | 7 |
| 1x36-52 | SE 36-52 | 105 | 60 | 75 | 12 | 39-55 | 15 | 23 | 8 |
| 1x50-75 | SE 50-75 | 126 | 60 | 95 | 12 | 46-71 | 22 | 30 | 9 |
| 1x75-100 | SE 75-100 | 200 | 80 | 150 | 15 | 70-95 | 32 | 45 | 10 |
| 1x100-135 | SE 100-135 | 225 | 85 | 175 | 15 | 85-120 | 43 | 58 | 10 |



Cable Blocks

ELPRESS
ADDED
PRODUCTS



Cable Blocks for 4-conductor, Ø 12-32 mm and 32-48 mm

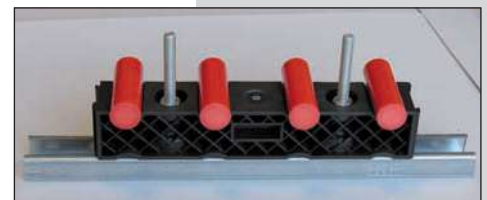
- for fastening of 4 cables in a block along side each other

Cable Blocks are suitable for fastening cables with a diameter 12 mm (0.45 inch) up to 32 mm (1.26 inch) and a diameter of 32 mm up to 48 mm. By means of 2 block parts, 4 cables can be fastening along side each other. On the basis of the number of cables to be fastened, the number of block parts is decided. 2 block parts for 4 cables, 3 block parts for 8 cables and so on. The blocks can also be fastened along side each other by the clever dovetail connection.

- Constructed for a mechanical strength of 29500 Nm
- Temperature range -40 – + 120 C° (shortly +225 C°)
- Material strength of more than 50 year
- UL tested
- For low and high voltage cables
- Supplied in 2 blocks (for 4 cables)
- Halogen free
- Stackable (max 6 blocks)

Example:

To mount 8 cables above each other you preferable use 1 pcs UNIFIX IM12-32, 1 pcs UNIFIX IM12-32 and 1 pcs mounting material M10x120.



Cable clamp and mounting material

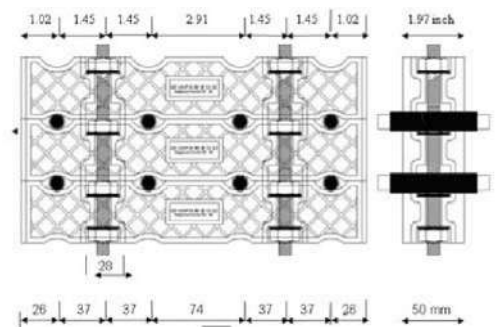
| 4-conductor x Ø, mm | Type | Mounting material (screw, nut, washer) | Rail | Fastening torque |
|------------------------|--------------------|---|------|---------------------|
| 4x12-32 | UNIFIX IM12-32 KIT | Galvanized steel, 2xM10x140, 4xM10 | 400 | 20 Nm |
| 4x32-48 | UNIFIX IM32-48 KIT | Galvanized steel, 2xM10x140, 4xM10 | 400 | 20 Nm |

Two clamps, rail, mounting material as above picture.

Cable clamp

| 4-conductor x Ø, mm | Type |
|------------------------|-----------------|
| 4x12-32 | UNIFIX IM 12-32 |
| 4x32-48 | UNIFIX IM 32-48 |

Two clamps



Accessories

| Type | Description |
|---------------------------|--|
| Mounting material M10x120 | 2 threaded rods M10x120, 4 M10 nuts and washers, 2 bushes Galvanized steel |

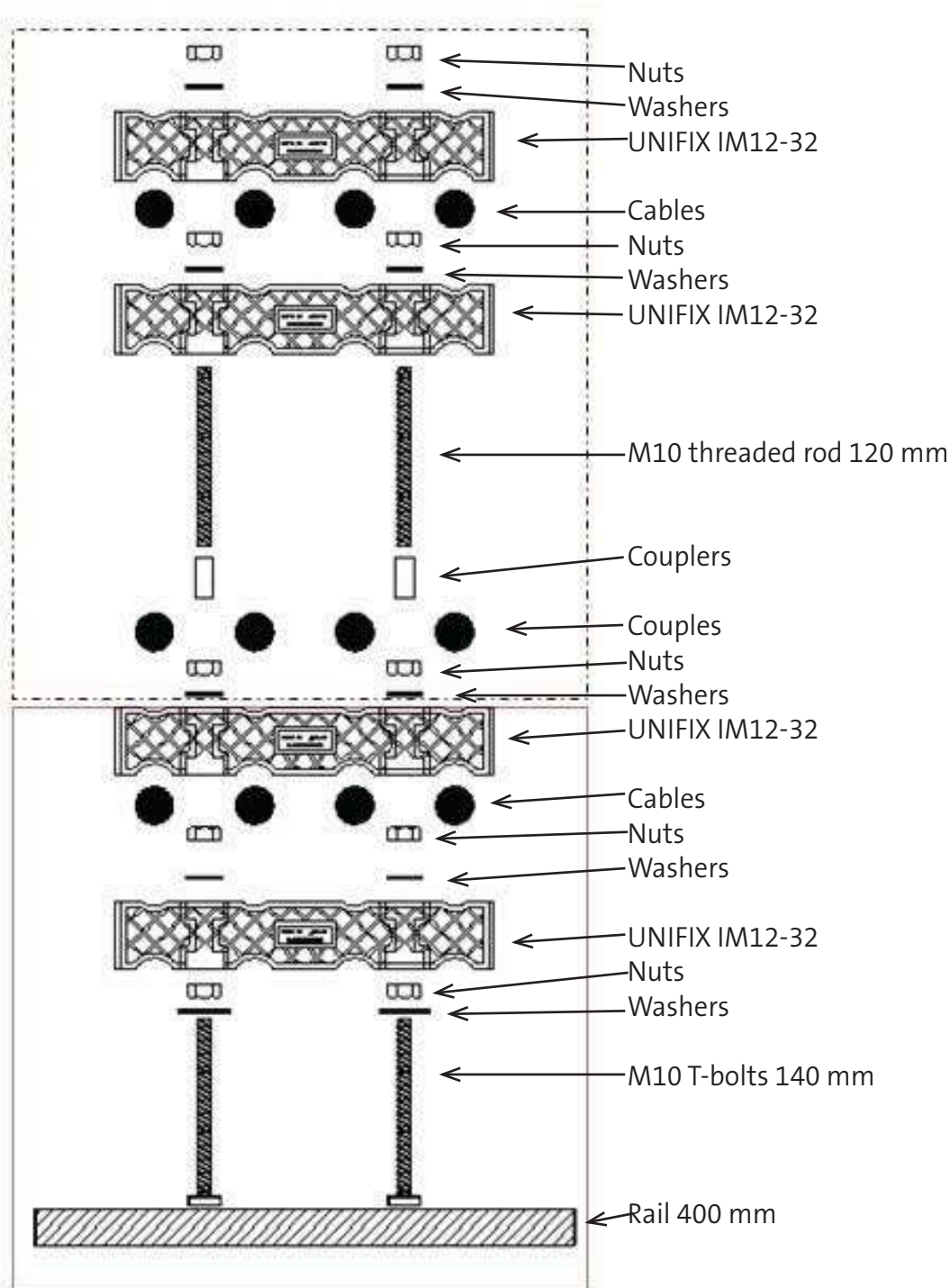


Cable Blocks

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Mounting example



□ UNIFIX IM12-32 KIT. This includes: 2 pcs UNIFIX IM12-32, 1 pcs rail, 2 pcs M10 T-bolts, 4 pcs nuts, 4 pcs washers.

□ UNIFIX IM12-32 + mounting material. One Kit can be completed with UNIFIX 12-32 and mounting material to mount next block on each other.

Earthing bus bars



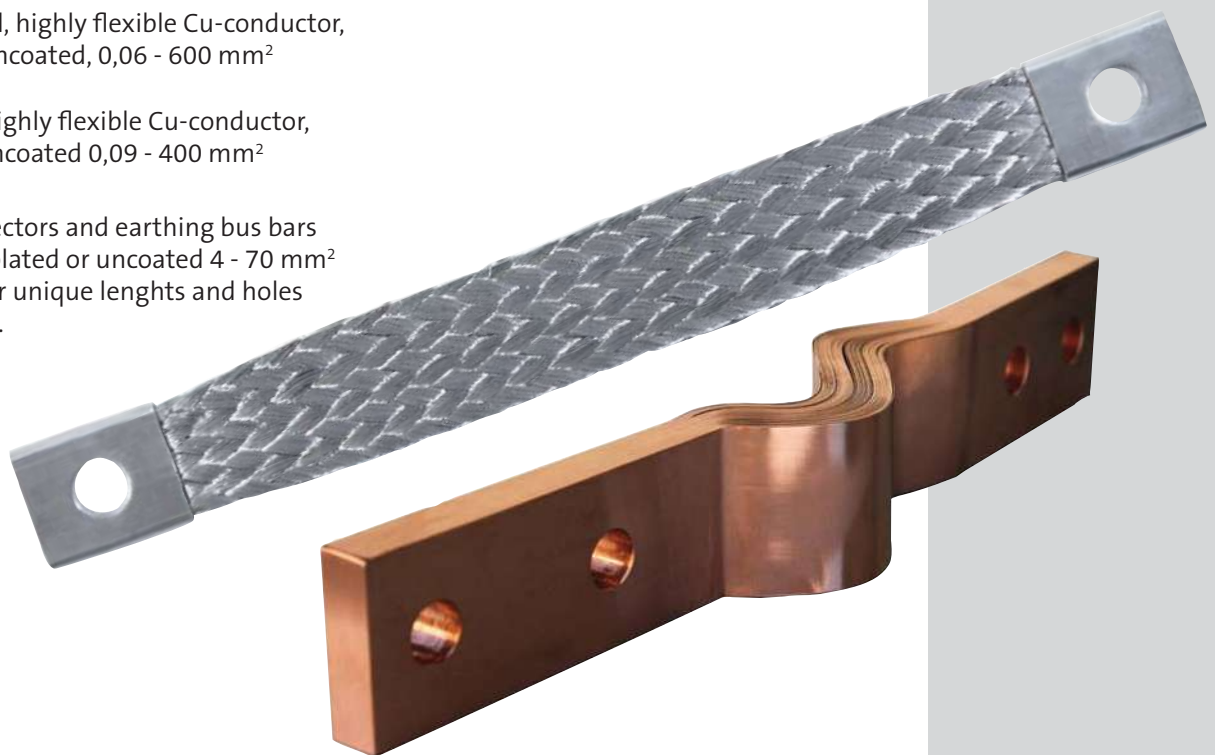
ELPRESS ADDED PRODUCTS - products with new possibilities

Highly flexible connectors and earthing bus bars

Elpress supply a broad range of flexible and highly flexible connectors and earthing bus bars. The flexible solutions which is demanded of this type of connectors is often customer unique and Elpress can also supply earthing bus bars in other material such as stainless steel, aluminum and insulated connectors.

Product Overview

- Round, twined, highly flexible Cu-conductor, tinned or uncoated, 0,06 - 600 mm²
- Flat, twined, highly flexible Cu-conductor, tinned or uncoated 0,09 - 400 mm²
- Flexible connectors and earthing bus bars in copper, tinned or uncoated 4 - 70 mm² with customer unique lengths and holes size and place.



Stainless steel, aluminum and insulated connectors can also be supplied after your demand.

Elpress



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