Overhead line connectors and tools

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twist connectors for Cu-wires 10 - 35 mm²</td>
<td>2</td>
</tr>
<tr>
<td>Twist connectors for Al-wires 31 - 99 mm²</td>
<td>2</td>
</tr>
<tr>
<td>Overhead connectors for alloy AlMgSi (Super B) and Al59 conductors 31 - 241 mm²</td>
<td>3</td>
</tr>
<tr>
<td>Overhead connectors for ACSR conductors 62 and 99 mm²</td>
<td>3</td>
</tr>
<tr>
<td>SYSTEM 600 for overhead line connectors</td>
<td>4</td>
</tr>
<tr>
<td>SYSTEM 1300 for overhead line connectors</td>
<td>8</td>
</tr>
<tr>
<td>SYSTEM V250 for overhead line connectors</td>
<td>10</td>
</tr>
</tbody>
</table>
System Elpress

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

Introduction

Elpress connector range for overhead lines includes crimp types for alloy aluminium wires like AlMgSi (Super B) and AlSi9 wires as well as for certain ACSR conductors. Twist type connectors for both Al and Cu wires are also offered.

Crimp tools types T2600, V600, V611, PVL611, V1300, PVL1300 and V250 may be used.

Twist connectors for Cu-wires 10 - 35 mm²

- material copper
- for single strand and multi-strand wire, see note
- the connector is twisted in the opposite direction to the direction of lay of the wire strands
- twist tool: adjustable spanner

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>mm²</th>
<th>b</th>
<th>W</th>
<th>L</th>
<th>Pcs/pack</th>
<th>No. of twists made</th>
<th>Marking Elpress logo</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>K10T</td>
<td>3.6</td>
<td>4.0</td>
<td>7.8</td>
<td>200</td>
<td>100</td>
<td>5</td>
<td>K10T XX</td>
<td>1</td>
</tr>
<tr>
<td>K16</td>
<td>5.2</td>
<td>5.8</td>
<td>11.1</td>
<td>250</td>
<td>100</td>
<td>3.5</td>
<td>K16 XX</td>
<td>2</td>
</tr>
<tr>
<td>K25</td>
<td>6.2</td>
<td>7.0</td>
<td>13.8</td>
<td>300</td>
<td>100</td>
<td>3.5</td>
<td>K25 XX</td>
<td>2</td>
</tr>
<tr>
<td>K35</td>
<td>7.5</td>
<td>8.3</td>
<td>16.2</td>
<td>350</td>
<td>100</td>
<td>3.5</td>
<td>K35 XX</td>
<td>2</td>
</tr>
</tbody>
</table>

Note

1 Single strand
2 Multi strand wire

Twist connectors for Al-wires 31 - 99 mm²

- material aluminium alloy
- the connector is twisted in the opposite direction to the direction of lay of the wire strands
- twist tool: adjustable spanner

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>mm²</th>
<th>b</th>
<th>W</th>
<th>L</th>
<th>Pcs/pack</th>
<th>No. of twists</th>
<th>Marking Elpress logo</th>
</tr>
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<tbody>
<tr>
<td>1006</td>
<td>31</td>
<td>9.1</td>
<td>17.3</td>
<td>355</td>
<td>100</td>
<td>3,5</td>
<td>1006 XX</td>
</tr>
<tr>
<td>1009</td>
<td>49</td>
<td>11.0</td>
<td>21</td>
<td>465</td>
<td>100</td>
<td>4</td>
<td>1009 XX</td>
</tr>
<tr>
<td>1010AL</td>
<td>62</td>
<td>12.0</td>
<td>23</td>
<td>480</td>
<td>10</td>
<td>4</td>
<td>1010 XX</td>
</tr>
<tr>
<td>1014AL</td>
<td>99</td>
<td>14.7</td>
<td>28</td>
<td>660</td>
<td>10</td>
<td>4,5</td>
<td>1014 XX</td>
</tr>
</tbody>
</table>
Overhead line connectors and tools

Overhead connectors for alloy AlMgSi (Super B) and Al59 conductors 31 - 241 mm²

- material aluminium alloy
- for jointing overhead conductors AlMgSi (Super B) and Al59
- tested according to the requirements of the standard SS 424 1241
- the connector is supplied with inner surface covered with contact paste
- conductor must be cleaned before crimp

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>mm²</th>
<th>mm</th>
<th>d</th>
<th>L</th>
<th>Pcs/pack</th>
<th>No. of crimps</th>
<th>Marking</th>
<th>Elpress logo</th>
<th>XXXX = Year, week</th>
<th>Rec. tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFS31</td>
<td>8.0</td>
<td>15.0</td>
<td>200</td>
<td>10</td>
<td>2x5</td>
<td>LFS 31 16 ALMGSI</td>
<td>V1300, V250</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFS62</td>
<td>11.0</td>
<td>16.0</td>
<td>200</td>
<td>10</td>
<td>2x5</td>
<td>LFS62 16 ALMGSI</td>
<td>V1300, V250</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFS99</td>
<td>13.5</td>
<td>18.7</td>
<td>250</td>
<td>10</td>
<td>2x5/2x10**</td>
<td>LSF99 20 ALMGSI</td>
<td>V1300, V250</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFS157</td>
<td>17.5</td>
<td>24</td>
<td>400</td>
<td>5</td>
<td>2x8</td>
<td>LSF157 26 ALMGSI</td>
<td>V1300, V250</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFS241</td>
<td>21</td>
<td>30</td>
<td>450</td>
<td>5</td>
<td>2x8</td>
<td>LSF241 32 ALMGSI</td>
<td>V1300, V250</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

** when crimping with T2600, V600, V611 and PVL611 2 x 10 crimps are necessary

Outer connectors for ACSR conductors 62 and 99 mm²

- outer Al-alloy connector + inner steel connector for the reinforcement wire
- meets the requirements of SS 424 1241

<table>
<thead>
<tr>
<th>Cat. no.</th>
<th>mm²</th>
<th>mm</th>
<th>d</th>
<th>L</th>
<th>kg/3</th>
<th>No. of crimps*</th>
<th>Marking</th>
<th>Elpress logo</th>
<th>XXXX = Year, week</th>
<th>Pcs/pack</th>
<th>Rec. tool</th>
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</thead>
<tbody>
<tr>
<td>LFEAL62</td>
<td>11</td>
<td>16</td>
<td>310</td>
<td>0,35</td>
<td>2x5</td>
<td>LFEAL 62 6 ALMGSI</td>
<td>V1300, V250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LFEAL99</td>
<td>13,5</td>
<td>8</td>
<td>95</td>
<td>0,5</td>
<td>2x5</td>
<td>LFEAL 99 8 ALMGSI</td>
<td>V1300, V250</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Crimp sequence, see picture

All Enquiries: | tel: +44 (0)1744 762 929 | email: sales@etechcomponents.com | web: www.etechcomponents.com
Hydraulic crimp systems for overhead connectors

System Elpress

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Hydraulic crimp systems

Elpress hydraulic crimp systems fit Elpress terminals and connectors from 10 to 1200 mm². The systems comprise either pumps and crimp heads which can be freely combined or by complete hand held tools where these functions are integrated.

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

V1300-system

Cu terminals
V1300 system for crimping of Cu terminals 10-400 mm². The V1300-system is also available in a C-version with an open head for crimping of Cu terminals in narrow spaces.

Al terminals
V1300 system for crimping of Al terminals and prerounding of Al conductors 16-400 mm². Prerounding is done on sector-shaped Al conductors.

V250-system

Cu terminals
V250-system for crimping of Cu terminals 10-800 mm².

Al terminals
V250-system for crimping of Al terminals and prerounding of Al conductors 16-630 mm². Prerounding is done on sector-shaped Al conductors.
Tools for Cu terminals 10 - 240 mm², Al terminals 16 - 25 mm² (-35 solid) mm² and C-sleeves 6 - 50 mm²

T2600/T2600B/T2600C

Mechanical handtool for crimping of Cu- and Al terminals:
- T2600 for crimping of Cu terminals type KRF/KSF 10-95 mm²
- T2600B for crimping of Cu terminals type KRD/KSD 10-120 mm²
- T2600C for crimping of Cu terminals type KRT/KST 10-120 mm²

Particulars:
- rapid opening enables easy die change and quick removal after jointing
- crimp die (TB7) is available for solid 10 mm² Cu-connector, (for EXCL-type cable or similar)
- crimp force up to 57 kN
- rapid die closure and minimum handle force
- easy to operate in confined spaces
- only four dies are required to crimp 10 - 120 mm² Cu (KRD/KRT)
- rapid feed function
- supplied in a metal box
- equipped with full closure mechanism
- weight 1.9 kg
- length 440 mm, width 140 mm

V600

Crimp head for crimping Cu terminals of type KRF/KSF 10–150 mm², KRD/KSD 10-185 mm², KRT/KST 10-240 mm² and C-sleeves up to 50/50 mm².
Used together with footpump P4000, battery / mains powered pump PS710 and mains powered pump P1000.

Particulars:
- crimping force 55 kN
- robust textile bag with room for 10 die pairs
- weight 2.1 kg
- dimensions 189 x 53 x 74 mm
V611
Hydraulic tool for crimping of Cu terminals type KRF/KSF 10-150 mm², KRD/KSD 10-185 mm², KRT/KST 10-240 mm² and C-sleeves up to 50/50 mm². Uses the same dies as T2600, V600 and PVL611.

Particulars:
- two-step, fast feed piston movement to crimp engagement which makes the crimp cycle shorter
- crimp force 60 kN
- supplied in a robust textile bag with foam rubber insert
- weight 2.5 kg
- dimensions 425 x 115 x 53 mm

PVL611
Battery crimp tool for crimping of Cu terminals type KRF/KSF 10-150 mm², KRD/KSD 10-185 mm² and KRT/KST 10-240 mm² and C-sleeves up to 50/50 mm². Uses the same dies as T2600, V600 and V611.

Particulars:
- flexible and ergonomic design
- 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 55 kN (6 ton)
- crimps/charge: 100-200 depending on size and temperature
- crimp time: 3-6 s depending on size
- working temperature -20°C to +40°C
- environment friendly battery, Li-Ion Makita, 1.3 Ah, 18V
- 230 VAC battery charger Li-Ion Makita, charging time 15 min
- LED indication of charge status
- for service and installation use
- supplied with robust plastic case, battery, charger and instruction manual
- weight 2.5 kg, (incl battery)
- dimensions 387 x 116 x 75 mm
### Accessories for crimping overhead line connectors with T2600, V600, V611 and PVL611

For **overhead line connectors** for alloy Al conductors, hexagonal crimping.

<table>
<thead>
<tr>
<th>mm²</th>
<th>Dies</th>
<th>No. of crimps</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-99</td>
<td>TBNP16-20</td>
<td>Die side 16: 2x5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Die side 20: 2x10</td>
</tr>
</tbody>
</table>

TBNP dies.
SYSTEM 1300 for Cu terminals and connectors
10 - 400 mm², C-sleeves 6 - 120 mm² and
Al terminals and connectors 16 - 400 mm²

V1300
Crimp head for crimping of Cu terminals type KRF/KSF 10-400 mm², KRD/KSD 10-400 mm², KRT/KST 10-400 mm², C-sleeves up to 120 mm², Al terminals and connectors 16-240 mm². Used with footpump P4000, battery / mains powered pump P5710 or mains powered pump P1000.

Particulars:
- equipped with oil spray safety protection cap
- light and flexible steel crimp head
- special nitrogen anti-corrosion surface treatment
- working pressure 63 MPa (630 bar)
- crimp force 130 kN (13 tons)
- weight 3.7 kg, excl. accessories
- length 270 mm, incl. quick coupling, width 82 mm

V1311
Hydraulic handtool for crimping of Cu terminals type KRF/KSF 10-400 mm², KRD/KSD 10-400 mm², KRT/KST 10-400 mm², C-sleeves up to 120 mm², Al terminals and connectors 16-240 mm². Uses the same accessories as for V1300 above.

Particulars:
- automatic fast forward action
- requires low hand force, about 245 N at max. force
- crimp force 130 kN (13 tons)
- weight 4.9 kg, excl. accessories, length 590 mm

PVL1300
PVL1300DB, supplied with 2 batteries
PVL1300-US, supplied with 115 VAC charger
Battery powered crimp tool for crimping of Cu terminals type KRF/KSF 10-400 mm², KRD/KSD 10-400 mm², KRT/KST 10-400 mm², C-sleeves up to 120 mm², Al terminals and connectors 16-240 mm². Uses the same crimp accessories as the other products in the above V1300 System.

Particulars:
- ergonomic design that optimizes the balance of the tool in the users hand
- buzzing signal and flashing light if right pressure is not achieved
- LED lightning for work in dark environments
- possibility to document each crimp for unique service control
- for service and installation use
- 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 t0 +40°C
- environmental friendly battery, Li-Ion Makita, 3.0 Ah, 18V
- 230VAC battery charger Li-Ion Makita, charging time 22 min
- LED indication of charge status
- supplied with robust plastic case, battery, charger and instruction
- weight 5.4 kg, (incl battery), dimensions 412 x 319 x 75 mm

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Accessories for crimping overhead line connectors with V1300, V1311 and PVL1300

Crimp dies
Supplied as a pair.
For hexagonal crimping of connectors for overhead conductors of AlMgSi (Super B) and Al 59.

<table>
<thead>
<tr>
<th>mm²</th>
<th>Inner die holder</th>
<th>Outer die holder</th>
<th>Dies</th>
<th>No. of crimps</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-62</td>
<td>V1316</td>
<td>V1318</td>
<td>B16NP</td>
<td>2x5</td>
</tr>
<tr>
<td>99</td>
<td>V1316</td>
<td>V1318</td>
<td>B20NP</td>
<td>2x5</td>
</tr>
<tr>
<td>157</td>
<td>V1316</td>
<td>V1318</td>
<td>13B26*</td>
<td>2x16</td>
</tr>
<tr>
<td>241</td>
<td>V1316</td>
<td>V1318</td>
<td>13B32*</td>
<td>2x16</td>
</tr>
</tbody>
</table>

* Used without die holders.

Supplied as a pair.
For hexagonal crimping of connectors for overhead ACSR conductors.
Die holders V1316 and V1318 to be used.

<table>
<thead>
<tr>
<th>mm²</th>
<th>Steel connector (inner)</th>
<th>No. of crimps</th>
<th>Al-connector (outer)</th>
<th>No. of crimps</th>
</tr>
</thead>
<tbody>
<tr>
<td>62</td>
<td>B6FE</td>
<td>2x5</td>
<td>B16NP</td>
<td>2x5</td>
</tr>
<tr>
<td>99</td>
<td>B8FE</td>
<td>2x5</td>
<td>B20NP</td>
<td>2x5</td>
</tr>
</tbody>
</table>
SYSTEM V250 for crimping Cu terminals and connectors 10 - 800 mm², C-sleeves up to 300 mm² and Al terminals and connectors 16 - 630 mm²

V250

Crimp head for crimping of Cu terminals type KRF/KSF, KRT/KST, KRD/KSD 10-800 mm², C-sleeves up to 300 mm², Al terminals and connectors 16-630 mm². Used together with footpump P4000, battery / mains powered pump PS710 and mains powered pump P1000.

Particulars:
- equipped with oil spray safety protection cap
- working pressure 63 MPa (630 bar)
- crimp force 250 kN (25 ton)
- tested with Elpress pumps and connectors
- weight 4.6 kg, excl. accessories
- dimensions Ø 111 mm x 280 mm
Accessories for crimping overhead line connectors with V250

Crimp dies
Supplied in pairs.
For hexagonal crimping of overhead line connectors for conductors type AlMgSi.

<table>
<thead>
<tr>
<th>mm²</th>
<th>Die holder</th>
<th>Die holder</th>
<th>Dies</th>
<th>No. of crimps</th>
</tr>
</thead>
<tbody>
<tr>
<td>31-62</td>
<td>V2506</td>
<td>V2508</td>
<td>B16NP</td>
<td>2 x 5</td>
</tr>
<tr>
<td>99</td>
<td>V2506</td>
<td>V2508</td>
<td>B20NP</td>
<td>2 x 5</td>
</tr>
<tr>
<td>157</td>
<td>V2506</td>
<td>V2508</td>
<td>B26NP</td>
<td>2 x 8</td>
</tr>
<tr>
<td>241</td>
<td>V2506</td>
<td>V2508</td>
<td>B32NP</td>
<td>2 x 8</td>
</tr>
</tbody>
</table>

Supplied in pairs.
For hexagonal crimping of overhead line connectors for conductors type ACSR (FeAl).

<table>
<thead>
<tr>
<th>mm²</th>
<th>Die holder</th>
<th>Die holder</th>
<th>Dies for steel sleeve</th>
<th>Dies for Al-sleeve</th>
<th>No. of crimps</th>
</tr>
</thead>
<tbody>
<tr>
<td>62</td>
<td>V2506</td>
<td>V2508</td>
<td>B6FE</td>
<td>B16NP</td>
<td>2 x 5</td>
</tr>
<tr>
<td>99</td>
<td>V2506</td>
<td>V2508</td>
<td>B8FE</td>
<td>B20NP</td>
<td>2 x 5</td>
</tr>
</tbody>
</table>

Die holder V2508 + BNP-dies + die holder V2506.