

### Cutting, Stripping, Skinning

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- Cutting tools for small diameters
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- Stripping tools

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# Cable Accessories



**Cutting, Stripping, Skinning**

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**Connection and crimping**

|                                                         |         |
|---------------------------------------------------------|---------|
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|                                       |     |
|---------------------------------------|-----|
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**Insulating, protecting, shrinking**

|                                                |     |
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**Binding, bundling, fastening**

|                                                 |         |
|-------------------------------------------------|---------|
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| <b>Assembly tool for cable ties</b>             |         |
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|                                                |         |                                                                 |     |
|------------------------------------------------|---------|-----------------------------------------------------------------|-----|
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| Overview Table Connector technology                                                                                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
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| <div></div> |  |  |  |  |  |  |  |  |                             |  |  |  |  |  |  |   |   |
|                                                                                                                                                                               | <b>QUADRO<sup>1</sup></b><br>0.5 – 2.5 mm <sup>2</sup>                            | <b>Multicrimp 6<sup>1</sup></b><br>0.08 – 6 mm <sup>2</sup>                       | <b>PEW 8.84<sup>1</sup></b><br>0.75 – 10 mm <sup>2</sup>                          | <b>PEW 8.87<sup>1</sup></b><br>0.08 – 10 mm <sup>2</sup>                          | <b>PEW 8.87<sup>1</sup> plus</b><br>0.08 – 16 mm <sup>2</sup>                     | <b>KEB 1025<sup>1</sup></b><br>10 – 25 mm <sup>2</sup>                            | <b>KEB 3550<sup>1</sup></b><br>35 – 50 mm <sup>2</sup>                            | <b>K 29<sup>1</sup></b><br>50 – 95 mm <sup>2</sup>                                | <b>KEBS 0560<sup>1</sup> Front pressing</b><br>0.1 – 6 mm <sup>2</sup> + Twin 2 x 0.5 – 2 x 4 mm <sup>2</sup> | <b>KEBC 4010<sup>2</sup></b><br>Twin 2 x 4 mm <sup>2</sup> – 2 x 10 mm <sup>2</sup> | <b>CRIMMBOSS<sup>2</sup></b><br>insulated end sleeves 0.5 – 2.52 mm <sup>2</sup>    | <b>PEW 12<sup>1</sup></b><br>Crimping inserts for 0.08 – 50 mm <sup>2</sup>         | <b>WT 4454 G<sup>1</sup></b><br>Crimping inserts for 0.5 – 16 mm <sup>2</sup>       | <b>FMP 20<sup>1</sup></b><br>Crimping inserts for 0.14 – 50 mm <sup>2</sup>         | <b>MCT Mobile Crimp Tool</b><br>Crimping inserts for 0.1 – 10 mm <sup>2</sup>       |   |   |
|                                                                                                                                                                               | end sleeves                                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
|                                                                                                                                                                               | 0.25 mm <sup>2</sup>                                                              |                                                                                   | •                                                                                 |                                                                                   | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   | • |   |
|                                                                                                                                                                               | 0.34 mm <sup>2</sup>                                                              |                                                                                   | •                                                                                 |                                                                                   | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     | •                                                                                   |                                                                                     | •                                                                                   | •                                                                                   | • | • |
|                                                                                                                                                                               | 0.50 mm <sup>2</sup>                                                              | •                                                                                 | •                                                                                 |                                                                                   | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • | • |
|                                                                                                                                                                               | 0.75 mm <sup>2</sup>                                                              | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • | • |
|                                                                                                                                                                               | 1.00 mm <sup>2</sup>                                                              | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • | • |
|                                                                                                                                                                               | 1.50 mm <sup>2</sup>                                                              | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • | • |
|                                                                                                                                                                               | 2.50 mm <sup>2</sup>                                                              | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • | • |
| 4.00 mm <sup>2</sup>                                                                                                                                                          |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   | •                                                                                                             |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • |   |
| 6.00 mm <sup>2</sup>                                                                                                                                                          |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   | •                                                                                                             |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • |   |
| 10.00 mm <sup>2</sup>                                                                                                                                                         |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • |   |
| 16.00 mm <sup>2</sup>                                                                                                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   | • |   |
| 25.00 mm <sup>2</sup>                                                                                                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                                                                                   |                                                                                   |                                                                                                               |                                                                                     |                                                                                     | •                                                                                   | on request                                                                          |                                                                                     |                                                                                     |   |   |
| 35.00 mm <sup>2</sup>                                                                                                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                                                                                   |                                                                                                               |                                                                                     |                                                                                     | •                                                                                   | on request                                                                          |                                                                                     |                                                                                     |   |   |
| 50.00 mm <sup>2</sup>                                                                                                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |                                                                                                               |                                                                                     |                                                                                     | •                                                                                   | on request                                                                          |                                                                                     |                                                                                     |   |   |
| 70.00 mm <sup>2</sup>                                                                                                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 95.00 mm <sup>2</sup>                                                                                                                                                         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 120.00 mm <sup>2</sup>                                                                                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 150.00 mm <sup>2</sup>                                                                                                                                                        |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| Insulated TWIN end sleeves                                                                                                                                                    |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                               |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 2 x 0.50 mm <sup>2</sup>                                                                                                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 2 x 0.75 mm <sup>2</sup>                                                                                                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 2 x 1.00 mm <sup>2</sup>                                                                                                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 2 x 1.50 mm <sup>2</sup>                                                                                                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 2 x 2.50 mm <sup>2</sup>                                                                                                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                                             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 2 x 4.00 mm <sup>2</sup>                                                                                                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                                             | •                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 2 x 6.00 mm <sup>2</sup>                                                                                                                                                      |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |
| 2 x 10.00 mm <sup>2</sup>                                                                                                                                                     |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                                               | •                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |   |   |

 manual tools

 crimping tools for end sleeves

 all purpose crimping tools with variable crimping inserts  
(also for flat plugs, cable lugs and other connectors)
<sup>1)</sup> insulated + not insulated<sup>2)</sup> insulated

| Overview Table Connector technology                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                  | DSA 0110<br>0.1 – 1.5 mm <sup>2</sup>                                             | DSA 0725<br>0.5 – 2.5 mm <sup>2</sup>                                             | CSA 0760<br>0.5 – 6 mm <sup>2</sup>                                               | KSA 0760<br>0.5 – 6 mm <sup>2</sup>                                               | DRB 0505<br>0.05 – 0.5 mm <sup>2</sup>                                            | DRB 0115<br>0.15 – 1.5 mm <sup>2</sup>                                            | KRB 0560<br>0.50 – 6 mm <sup>2</sup>                                              | DKB 0325<br>0.35 – 2.5 mm <sup>2</sup>                                            | DKB 0360<br>0.25 – 6.0 mm <sup>2</sup>                                            | KWB 4099<br>4 – 10 mm <sup>2</sup>                                                 | T 2288<br>10 – 25 mm <sup>2</sup>                                                   | WT 3195 G<br>6 – 95 mm <sup>2</sup>                                                 | V 1311<br>10 – 400 mm <sup>2</sup>                                                  | WT 4454 G<br>Crimping inserts for 0.5 – 16 mm <sup>2</sup>                          |
| Insulated flat plug connectors, cable lugs and other connectors                  |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 0.25 mm <sup>2</sup>                                                             | •                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 0.50 mm <sup>2</sup>                                                             | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 0.75 mm <sup>2</sup>                                                             | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 1.00 mm <sup>2</sup>                                                             | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 1.50 mm <sup>2</sup>                                                             | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 2.50 mm <sup>2</sup>                                                             |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 4.00 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 6.00 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| Non-insulated flat plug connectors, cable lugs and other connectors              |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 0.50 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 0.75 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 1.00 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 1.50 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 2.50 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 4.00 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                                                                                   | •                                                                                 | •                                                                                  |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 6.00 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 |                                                                                   | •                                                                                 | •                                                                                  |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| KB/KR tube cable lugs                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 0.75 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 1.00 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 1.50 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 2.50 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                 |                                                                                    |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 4.00 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                  |                                                                                     |                                                                                     |                                                                                     | •                                                                                   |
| 6.00 mm <sup>2</sup>                                                             |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                 | •                                                                                  |                                                                                     | •                                                                                   |                                                                                     | •                                                                                   |
| 10.00 mm <sup>2</sup>                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | •                                                                                  | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| KR/KRT/KRF tube cable lugs                                                       |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| 10.00 mm <sup>2</sup>                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| 16.00 mm <sup>2</sup>                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| 25.00 mm <sup>2</sup>                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    | •                                                                                   | •                                                                                   | •                                                                                   | •                                                                                   |
| 35.00 mm <sup>2</sup>                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   |
| 50.00 mm <sup>2</sup>                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   |
| 70.00 mm <sup>2</sup>                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   |
| 95.00 mm <sup>2</sup>                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     | •                                                                                   | •                                                                                   | •                                                                                   |
| 120.00 mm <sup>2</sup>                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   |
| 150.00 mm <sup>2</sup>                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   |
| 185.00 mm <sup>2</sup>                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   |
| 240.00 mm <sup>2</sup>                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   |
| 300.00 mm <sup>2</sup>                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   |
| 400.00 mm <sup>2</sup>                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | •                                                                                   | •                                                                                   |

Pressing tools for insulated connectors  
Pressing tools for non-insulated connectors

Pressing tools for CU connectors  
Universal crimping tools with variable crimping inserts

## COMBINOX cable shears



### Benefits

- Wire guide integrated into blade.

### Included

- Included: stripping device

### Design

- Stainless steel shears

| Article number | Article designation | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|-------------|-------------|-------------|
| 61735980       | Combinox            | 0.121       | 193         | 1           |

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Photographs are not to scale and do not represent detailed images of the respective products.

## Multipurpose shears A and B



### Application range

- Suitable for separating steel-wire screen braiding
- Suitable for cutting cables, lines, single cores, flat cables, bands, thin sheet metal, paper, cardboard and wires
- Very suitable for processing steel wire braiding

### Design

- Multipurpose shears B
- With forged blades
- Multipurpose shears A
- With forged blades, spring and locking clip

| Article number | Article designation   | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|-----------------------|-------------|-------------|-------------|
| 62120010       | Multipurpose shears A | 0.12        | 180         | 1           |
| 62120030       | Spare spring A        | -           | -           | 1           |
| 62120020       | Multipurpose shears B | 0.095       | 175         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

#### ■ Benefits

- Ergonomic handles
- Drawing cut is possible due to the special shape of the blades

#### ■ Application range

- For fine-wire conductors
- Lightweight shears with finger-protection for fine-wire conductors up to max. outer diameter 16 mm

#### ■ Included

- Equipment: locking bolt and spring return

## BULLI cable shears



| Article number | Article designation | For outer diameter (mm) | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|-------------------------|-------------|-------------|-------------|
| 61744160       | BULLI               | 16.0                    | 0.135       | 185         | 1           |
| 61744161       | Spare spring BULLI  |                         | -           | -           | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

#### ■ Benefits

- The semi-circular cutting edges surround the cables uniformly and prevent the cable from being pinched or deformed

#### ■ Application range

- For outer diameter up to 11 mm
- For cutting single cores and fine-wire stranded cables up to max. outer diameter 11 mm

#### ■ Design

- Semi-circular cutting edges made of stainless steel

#### ■ Included

- Equipment: safety-locking bar, compression spring to keep them open, and plastic handles

## KT 11 cable shears



| Article number | Article designation | For outer diameter (mm) | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|-------------------------|-------------|-------------|-------------|
| 61789580       | Cable shears KT 11  | 11.0                    | 0.115       | 170         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

#### ■ Benefits

- No crushing or deformation
- Can be used universally for cutting, removing sheath and stripping wires

#### ■ Application range

- Cuts copper and aluminium cables with up to 15 mm outer diameter
- Easy to cut by using only one hand
- Sharp, hardened cutting with precision grinding

#### ■ Product features

- With clamping protection and adjustable screw joint
- Material: forged Vanadium steel

#### ■ Note

- Not suitable for steel wire and hard-drawn copper conductors

## KS 15 cable shears

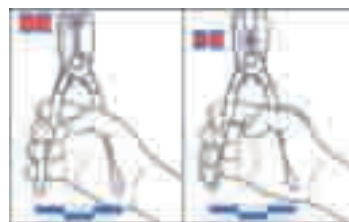


| Article number | Article designation | For outer diameter (mm) | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|-------------------------|-------------|-------------|-------------|
| 61735975       | KS 15               | 15.0                    | 0.21        | 165         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

**Cutting, Stripping, Skinning**

Cutting tools for large diameters

**KS 20 cable shears****KS 20 cable shears****Benefits**

- Adjustable screw-joint
- Easy and clean cut by using only one hand
- Less force required due to favourable transmission ratio and new blade geometry

**Application range**

- Cuts copper and aluminium cables with up to 20 mm outer diameter
- Cutting with precision grinding

**Product features**

- Material: special tool steel, forged, burnished head
- Pre- and after-cut (1st and 2nd blade) allows cables with an outer diameter up to 20 mm to be cut
- Not suitable for steel wire and hard-drawn copper conductors

| Article number | Article designation | For outer diameter (mm) | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|-------------------------|-------------|-------------|-------------|
| 62120045       | KS 20               | 20.0                    | 0.3         | 200         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

**Cable shears KT 4 and KT 5****Cable shears KT 4 and KT 5****Benefits**

- Trouble-free cutting with lightweight and optimum transmission ratio
- One-hand operation through ratchet principle
- Less power required due to wave-like polished blades

**Product features**

- Optimum leverage due to 2-way gear rim drive
- Swivel knife can be unlocked in any cutting position with a press of the thumb
- Cuts smoothly and cleanly without crushing

**Application range**

- Not suitable for steel wire / hard aluminium alloys / hard-drawn copper conductors

**Note**

- Also suitable for stripping wires

| Article number | Article designation | For outer diameter (mm) | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|-------------------------|-------------|-------------|-------------|
| 61813750       | KT 4                | 32.0                    | 0.545       | 250         | 1           |
| 61813760       | Spare blade KT 4    | -                       | -           | -           | 1           |
| 61813770       | KT 5                | 52.0                    | 0.74        | 280         | 1           |
| 61813775       | Spare blade KT 5    | -                       | -           | -           | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## PTS 4 stripping and cutting tool

### Benefits

- Self-regulating knife prevents damage to the conductor
- Stripping and cutting possible with a pair of integrated side-cutting pliers
- Simultaneous stripping of multiple cores in the same cable possible

### Application range

- Stripping and cutting tool
- Stripping wires and strands from 0.25 - 4 mm<sup>2</sup>

### Product features

- Changeable pressure of bolt dies



| Article number | Article designation | For mm <sup>2</sup> | Length (mm) | Weight (kg) | Pieces / PU |
|----------------|---------------------|---------------------|-------------|-------------|-------------|
| 61725950       | PTS 4               | 0.25 - 4            | 170         | 0.2         | 1           |
| 61753620       | Spare spring PTS 4  |                     |             |             | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## EASY STRIP 2 stripping and cutting tool

### Benefits

- Reliable: tested for more than 150,000 stripping operations
- Flexible: easily interchangeable stripping cartridges. Largest possible stripping capacity of all tools of this type
- Precise adjustable positions ensure that insulations (including those with small dimensions) can be removed without damaging the conductors
- Ergonomic design: attractive, soft handle, optimised grip-width, angled-head, lightweight; ensuring convenience and ease of use
- Economical: spare stripping cartridges and blades available

### Technical data

|  |                                                                                                                          |
|--|--------------------------------------------------------------------------------------------------------------------------|
|  | <b>General</b><br>Stripping range: 0.02 - 16.0 mm <sup>2</sup>                                                           |
|  | <b>Weight</b><br>136 g                                                                                                   |
|  | <b>Length</b><br>Overall dimensions: L x H x W = 191 x 123 x 20 mm                                                       |
|  | <b>Info</b><br>Cutting capacity:<br>rigid cables - 1.5 mm <sup>2</sup><br>Flexible conductors - up to 10 mm <sup>2</sup> |



### Application range

- Expanded strip range (0.02 to 16 mm<sup>2</sup>) and suitable for a multitude of insulation types
- Self-adjusting cutting and stripping tool for commercially available cables and conductors (90 % of all applications can be stripped without setting the tool manually)
- Easy to change stripping cassettes enable precise stripping of different insulation materials (e.g. PVC/Teflon) and diameters with a single tool
- Easy Strip 2 is an ergonomical, portable and lightweight tool that is also suitable for production and local use

### Product features

- No MTW single wires 16.00 mm<sup>2</sup> can be machined

| Article number    | Article designation            | For mm <sup>2</sup> | For insulation | Cartridge shape | Pieces / PU |
|-------------------|--------------------------------|---------------------|----------------|-----------------|-------------|
| 61735800          | EASY STRIP 2 incl. X-cartridge | 0.02 - 10           | PVC etc.       | straight        | 1           |
| 61735805          | EASY STRIP 2 incl. V-cartridge | 0.1 - 4             | Teflon etc.    | V-form          | 1           |
| 61735807          | EASY STRIP 2 incl. X-cartridge | 4 - 16              | PVC etc.       | round           | 1           |
| 61735806          | EASY STRIP 2 support jaws      |                     |                |                 | -           |
| <b>Cartridges</b> |                                |                     |                |                 |             |
| 61735801          | X - cartridge                  | 0.02 - 10           | PVC etc.       | straight        | 1           |
| 61735802          | XL - cartridge                 | 4 - 16              | PVC etc.       | round           | 1           |
| 61735803          | V - cartridge                  | 0.1 - 4             | Teflon etc.    | V-form          | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Universal strip stripping and cutting tool



### Benefits

- Special pliers for high-quality, damage-free stripping of sheath and insulation from all single wires and possibly multi-wire cables from 0.03 to 16 mm<sup>2</sup>
- For use with a great variety of insulation with differing hardness and dimension
- Interchangeable blades for different cable cross sections

### Application range

- Universal stripping pliers with interchangeable stripping blades for cross-sections of 0.03 to 16 mm<sup>2</sup>
- Suitable for fluoropolymer & PVC cores, AS-I, Solar, POF cables

### Product features

- Design: chrome-plated with plastic handle cover
- Interchangeable blades for different cable cross sections

### Design

- Additional blades are available upon request
- No crushing/deformation of cable ends

### Included

- Tool and length stop

| Article number                               | Article designation                                  | For mm <sup>2</sup> | Stripping of   | Length (mm) | Weight (kg) | Pieces / PU |
|----------------------------------------------|------------------------------------------------------|---------------------|----------------|-------------|-------------|-------------|
| <b>Interchangeable blade</b>                 |                                                      |                     |                |             |             |             |
| 21920005                                     | Universal Strip without stripping knife              |                     |                | 194         | 0.41        | 1           |
| 21920009                                     | DIN single cores                                     | 0.14 - 6            | PVC            |             |             | 1           |
| 21920122                                     | Solar stripping knife                                | 1.5 - 6             |                |             |             | 1           |
| 21920126                                     | POF 1, 2, 4-wire stripping knife                     |                     | PVC/PUR        |             |             | 1           |
| 21920006                                     | Fluoropolymer stripping knife                        | 0.03 - 2            | Fluoropolymer  |             |             | 1           |
| 21920004                                     | Fluoropolymer stripping knife                        | 2.5 - 10            | Fluoropolymer  |             |             | 1           |
| 21920008                                     | Fluoropolymer stripping knife                        | 16                  | Fluoropolymer  |             |             | 1           |
| 21920135                                     | AS I stripping knife                                 |                     | rubber/TPE/PVC |             |             | 1           |
| <b>Complete tool (incl. assembled blade)</b> |                                                      |                     |                |             |             |             |
| 21920141                                     | Universal Strip DIN single wires                     | 0.14 - 6            | PVC            |             |             | 1           |
| 21920125                                     | Universal Strip POF 1, 2, 4-wire                     |                     | PVC/PUR        |             |             | 1           |
| 21920129                                     | Universal Strip Fluoropolymer 0,03-2,08              | 0.03 - 2.08         | Fluoropolymer  |             |             | 1           |
| 21920130                                     | Universal Strip Fluoropolymer 2,5-10 mm <sup>2</sup> | 2.5 - 10            | Fluoropolymer  |             |             | 1           |
| 21920131                                     | Universal Strip Fluoropolymer 16                     | 16                  | Fluoropolymer  |             |             | 1           |
| 21920140                                     | Universal Strip AS I                                 |                     | rubber/TPE/PVC |             |             | 1           |
| 21920120                                     | Universal Strip Solar                                | 1.5 - 6             |                |             |             | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Additional blades are available upon request

## STAR STRIP stripping tool



### STAR STRIP stripping tool

#### Benefits

- Economical: spare blades are available and can be kept in a box on the tool.
- User-friendly: Specific locking positions for circular, longitudinal or spiral cuts. The blade automatically returns to its start position at the end of a stripping process, thus reducing the possibility of breaking the blade. No special tool is required to replace the hook, and the height of the blade is adjustable.
- Large capacity: with the interchangeable hook, STAR STRIP can replace two or more comparable products.
- Robust: tested for more than 100,000 stripping operations
- STAR STRIP fits in your hand comfortably and is user-friendly.

#### Application range

- Adjustable stripping tool for round cables made with various insulation materials
- Professional stripping tool for cables of all insulation types.
- The unique cable retention hook for this type of tool gives STAR STRIP an unmatched cable stripping capacity of up to 40 mm using a single tool.

#### Product features

- Through the various interchangeable hooks, the STAR STRIP can be used for cables with a diameter of 4.5 - 25 mm and 20 - 40 mm
- Suitable for circular, longitudinal and spiral cuts



#### Info

- Special polished stripping knives suitable for problematical insulation materials such as PUR, fluoropolymers, glass fibre, TPE

#### Technical data



**Weight**  
(with large hook): 116 g



**Length**  
Large hook dimensions: L x H x W 167 x 52 x 30.5 mm  
Small hook dimensions: L x H x W 150 x 42 x 30.5 mm

#### Included

- Tool with die, small and large hook without spare die

| Article number | Article designation          | For outer diameter (mm) | Length (mm) | Weight (kg) | Pieces / PU |
|----------------|------------------------------|-------------------------|-------------|-------------|-------------|
| 61735820       | STAR STRIP                   | 4.5 - 40.0              | 150         | 0.116       | 1           |
| 61735821       | STAR STRIP spare blade       |                         |             |             | 1           |
| 61735822       | STAR STRIP spare hook, small | 4.5 - 25.0              |             |             | 1           |
| 61735823       | STAR STRIP spare hook, large | 20.0 - 40.0             |             |             | 1           |

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For current information see: [www.lappgroup.com](http://www.lappgroup.com)

## SMARTSTRIP stripping tool

### Benefits

- Adjustable cutting depth via screw-setting, which enables the stripping of multi-stage insulated cables with different sheath thicknesses
- Self-tightening handle guides the knife cleanly on the cable

### Design

- Pull back the knife before removing the cable from the cutting tool

### Suitable cables

- UNITRONIC® LiYD 11Y Page 284



### Application range

- Special stripping tool for data cables
- Adjustable stripping tool for round cables made with various insulation materials
- For fast, simple stripping of different insulation materials (especially PUR) with outer diameters up to 10 mm

| Article number | Article designation | For outer diameter (mm) | Length (mm) | Weight (kg) | Pieces / PU |
|----------------|---------------------|-------------------------|-------------|-------------|-------------|
| 61744180       | Smartstrip          | max. 10.0               | 100         | 0.036       | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## DATA STRIP stripping tool



DATA STRIP stripping tool

### Benefits

- Robust: made from a new, pressure-proof nylon, DATA STRIP was tested with 50,000 stripping operations
- 9 precise and adjustable positions on the setting wheel ensure easily reproducible results
- User-friendly: open the stripping shaft by simply pressing the tool together, and insert the cable. Turn the tool, remove the insulation and pull the cut-off cable sheathing from the tool.
- Flexible: strips most multi-core cables and glass-fibre cables with a diameter of up to 11 mm

### Design

- Due to its unique design, the cable can be easily inserted by simply pressing the tool together
- The tool is equipped with an adjustment wheel with 9 positions for adjusting the blade height and guarantees precise and reproducible stripping results.
- The "x" position on the wheel enables the tool to close so that the attached blade cartridge can be ejected and replaced with a new one quickly and safely.

### Suitable cables

- UNITRONIC® LiYY Page 258

### Technical data

|  |                                                        |
|--|--------------------------------------------------------|
|  | <b>General</b><br>Insulation thickness: up to 1 mm     |
|  | <b>Diameter in</b><br>For outer diameter: 2.5 - 11 mm  |
|  | <b>Weight</b><br>28 g                                  |
|  | <b>Length</b><br>Dimensions: L 90.5 x W 39.5 x H 19 mm |

### Application range

- Special stripping tool for data cables
- Precision stripping tool for stripping signal, telephone, AV, control and data transmission cables made up of copper and glass fibres.

| Article number | Article designation    | For outer diameter (mm) | Weight (kg) | Pieces / PU |
|----------------|------------------------|-------------------------|-------------|-------------|
| 61735810       | DATA STRIP             | 2.5 - 11.0              | 0.028       | 1           |
| 61735811       | DATA STRIP spare blade |                         |             | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## FC Strip stripping tool



### Benefits

- Fast: ready-to-connect stripping – outer sheath and copper screening braid are stripped in one simple step, saving a considerable amount of time
- Safe: no cable damage
- The adjusting screws enable the tool to be adjusted for all Fast Connect cables.

### Application range

- Strip Fast Connect conductors in one step by using the dual-level stripping tool
- Suitable for outer diameters from 2.5 to 8.0 mm

### Design

- Knives have defined distances so that the outer sheath and the screen braid are stripped cleanly in one step.
- This helps to prevent damage to the cable resulting from poor stripping.

### Suitable cables

- UNITRONIC® BUS PB FRNC FC Page 304

| Article number | Article designation              | Suitable for:       | Pieces / PU |
|----------------|----------------------------------|---------------------|-------------|
| 21124030       | FC strip incl. knife             | Fast Connect cables | 1           |
| 21124040       | FC Strip without knife cartridge |                     | 1           |
| 21124041       | FC Strip knife cartridge         |                     | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## AS-I STRIP special stripping tool



### Benefits

- Automatic setting of blades
- No damage to single cores

### Application range

- For TPE, rubber and PUR cables

### Product features

- The plier body is made of glass fibre-reinforced polyamide and meets the highest requirements.
- The special shape of the cable is reflected in the blades

### Suitable cables

- UNITRONIC® BUS ASI Page 300

| Article number | Article designation | Suitable for: | Stripping of     | Length (mm) | Weight (kg) | Pieces / PU |
|----------------|---------------------|---------------|------------------|-------------|-------------|-------------|
| 61735831       | AS-I STRIP special  | AS-Interface  | TPE, rubber, PUR | 160         | 0.12        | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## AVG 0160 cable stripping and twisting machine



### Benefits

- High start and stop speed enables high production output
- Remainder insulation falls into the waste tray
- Left and right rotation for optimum twisting of any type of strand

### Application range

- Special polished stripping knives suitable for problematical insulation materials such as PUR, fluoropolymers, glass fibre, TPE
- Revolving head allows exact setting of cutting depth

### Technical data

|                                                                                       |                                                                                                                                               |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>Caution</b><br>Twist spring set must be ordered separately                                                                                 |
|  | <b>Diameter in</b><br>Cross-section range from 0.03 - 6.0 mm <sup>2</sup><br>(external diameter 1.9 - 5.7 mm)<br>Max. stripping length: 29 mm |
|  | <b>Note</b><br>Dimensions: L 230 x W 140 x H 150 mm                                                                                           |
|  | <b>Info</b><br>Electrical connection: 110/220/240 V/Hz<br>Rotation speed: 1850 rpm                                                            |

### Approvals



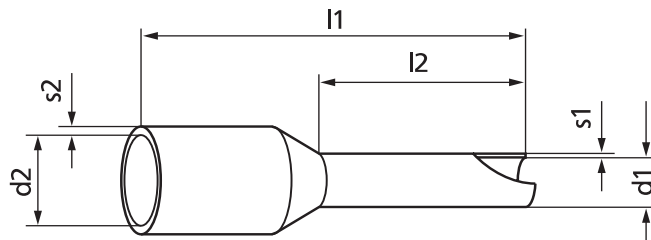
### Included

- Included: control pedal

| Article number | Article designation                         | For mm <sup>2</sup> | For AWG | Length (mm) | Weight (kg) | Pieces / PU |
|----------------|---------------------------------------------|---------------------|---------|-------------|-------------|-------------|
| 61790760       | AVG 0160                                    | 0.03 - 6            | 32 - 10 | 230         | 5.65        | 1           |
| 61790761       | AVG 0160 spare blade                        |                     |         |             |             | 1           |
| 61790762       | Twist spring set must be ordered separately |                     |         |             |             | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Conductor end sleeves insulated



Conductor end sleeves insulated

### Benefits

- The funnel-shaped opening makes it easy to slip them onto the strands.

### Application range

- Control cabinets and equipment wiring

### Product features

- The conductor is permanently connected to the collar by crimping.

### Approvals



- All DIN conductor end-sleeves are in accordance with DIN 46228 Part 4

### Note

- For processing tools see the keyword index "crimping pliers for conductor end sleeves"

### Suitable tools

- PEW 8.87 crimping pliers refer to page 916
- K29 crimping pliers refer to page 917

### Technical data



**Note**  
Halogen-free



**Material**  
Copper/PP  
Surface: tin-plated



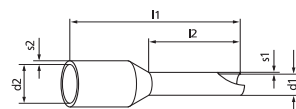
**Temperature range**  
Permanent load from -55°C to +105°C

| Article number | Article designation | For mm <sup>2</sup> | AWG | Core colour | l1 mm | l2 mm | d 1 mm | s 1 mm | d 2 mm | s 2 mm | Pieces / PU |
|----------------|---------------------|---------------------|-----|-------------|-------|-------|--------|--------|--------|--------|-------------|
| 61721866       | AHI N 0,25/6        | 0.25                | 24  | light blue  | 10.50 | 6.0   | 0.80   | 0.25   | 2.00   | 0.25   | 500         |
| 61721867       | AHI L 0,25/8        | 0.25                | 24  | light blue  | 12.50 | 8.0   | 0.80   | 0.25   | 2.00   | 0.25   | 500         |
| 61721868       | AHI N 0,34/6        | 0.34                | 24  | turquoise   | 10.50 | 6.0   | 0.80   | 0.25   | 2.00   | 0.25   | 500         |
| 61721869       | AHI L 0,34/8        | 0.34                | 24  | turquoise   | 12.50 | 8.0   | 0.80   | 0.25   | 2.00   | 0.25   | 500         |
| 61801580       | AHI DIN K 0,5/6     | 0.50                | 20  | white       | 11.50 | 6.0   | 1.10   | 0.15   | 2.50   | 0.25   | 500         |
| 61801590       | AHI DIN N 0,5/8     | 0.50                | 20  | white       | 13.50 | 8.0   | 1.10   | 0.15   | 2.50   | 0.25   | 500         |
| 61801600       | AHI DIN HL 0,5/10   | 0.50                | 20  | white       | 15.50 | 10.0  | 1.10   | 0.15   | 2.50   | 0.25   | 500         |
| 61721871       | AHI N 0,5/8         | 0.50                | 20  | orange      | 13.50 | 8.0   | 1.10   | 0.15   | 2.50   | 0.25   | 500         |
| 61801620       | AHI DIN K 0,75/6    | 0.75                | 20  | grey        | 12.00 | 6.0   | 1.30   | 0.15   | 2.80   | 0.25   | 500         |
| 61801630       | AHI DIN N 0,75/8    | 0.75                | 20  | grey        | 14.00 | 8.0   | 1.30   | 0.15   | 2.80   | 0.25   | 500         |
| 61801640       | AHI DIN HL 0,75/10  | 0.75                | 20  | grey        | 16.00 | 10.0  | 1.30   | 0.15   | 2.80   | 0.25   | 500         |
| 61801650       | AHI DIN L 0,75/12   | 0.75                | 20  | grey        | 18.00 | 12.0  | 1.30   | 0.15   | 2.80   | 0.25   | 500         |
| 61721880       | AHI N 0,75/8        | 0.75                | 20  | white       | 14.00 | 8.0   | 1.30   | 0.15   | 2.80   | 0.25   | 500         |
| 61801660       | AHI DIN K 1/6       | 1.00                | 18  | red         | 12.50 | 6.0   | 1.50   | 0.15   | 3.00   | 0.30   | 500         |
| 61801670       | AHI DIN N 1/8       | 1.00                | 18  | red         | 14.50 | 8.0   | 1.50   | 0.15   | 3.00   | 0.30   | 500         |
| 61801680       | AHI DIN HL 1/10     | 1.00                | 18  | red         | 16.50 | 10.0  | 1.50   | 0.15   | 3.00   | 0.30   | 500         |
| 61801690       | AHI DIN L 1/12      | 1.00                | 18  | red         | 18.50 | 12.0  | 1.50   | 0.15   | 3.00   | 0.30   | 500         |
| 61721890       | AHI N 1/8           | 1.00                | 18  | yellow      | 14.50 | 8.0   | 1.50   | 0.15   | 3.00   | 0.30   | 500         |
| 61801700       | AHI K 1,5/6         | 1.50                | 16  | black       | 12.50 | 6.0   | 1.80   | 0.15   | 3.40   | 0.30   | 500         |
| 61801710       | AHI DIN N 1,5/8     | 1.50                | 16  | black       | 14.50 | 8.0   | 1.80   | 0.15   | 3.40   | 0.30   | 500         |
| 61801720       | AHI DIN HL 1,5/10   | 1.50                | 16  | black       | 16.50 | 10.0  | 1.80   | 0.15   | 3.40   | 0.30   | 500         |
| 61801730       | AHI DIN L 1,5/18    | 1.50                | 16  | black       | 24.50 | 18.0  | 1.80   | 0.15   | 3.40   | 0.30   | 500         |
| 61721900       | AHI N 1,5/8         | 1.50                | 16  | red         | 14.50 | 8.0   | 1.80   | 0.15   | 3.40   | 0.30   | 500         |
| 61721910       | AHI HL 1,5/10       | 1.50                | 16  | red         | 16.50 | 10.0  | 1.80   | 0.15   | 3.40   | 0.30   | 500         |
| 61746720       | AHI L 1,5/18        | 1.50                | 16  | red         | 24.50 | 18.0  | 1.80   | 0.15   | 3.40   | 0.30   | 500         |
| 61801750       | AHI DIN N 2,5/8     | 2.50                | 14  | blue        | 15.00 | 8.0   | 2.30   | 0.15   | 4.20   | 0.30   | 500         |
| 61801760       | AHI DIN HL 2,5/12   | 2.50                | 14  | blue        | 19.00 | 12.0  | 2.30   | 0.15   | 4.20   | 0.30   | 500         |
| 61801770       | AHI DIN L 2,5/18    | 2.50                | 14  | blue        | 25.00 | 18.0  | 2.30   | 0.15   | 4.20   | 0.30   | 500         |
| 61801780       | AHI DIN N 4/10      | 4.00                | 12  | grey        | 17.50 | 10.0  | 2.90   | 0.20   | 4.80   | 0.30   | 500         |
| 61801790       | AHI DIN HL 4/12     | 4.00                | 12  | grey        | 20.00 | 12.0  | 2.90   | 0.20   | 4.80   | 0.30   | 500         |
| 61801800       | AHI DIN L 4/18      | 4.00                | 12  | grey        | 26.00 | 18.0  | 2.90   | 0.20   | 4.80   | 0.30   | 100         |
| 61801810       | AHI DIN N 6/12      | 6.00                | 10  | yellow      | 20.00 | 12.0  | 3.60   | 0.20   | 6.20   | 0.30   | 100         |
| 61801820       | AHI DIN L 6/18      | 6.00                | 10  | yellow      | 25.00 | 18.0  | 3.60   | 0.20   | 6.20   | 0.30   | 100         |
| 61721940       | AHI N 6/12          | 6.00                | 10  | black       | 20.00 | 12.0  | 3.60   | 0.20   | 6.20   | 0.30   | 100         |
| 61721950       | AHI L 6/18          | 6.00                | 10  | black       | 26.00 | 18.0  | 3.60   | 0.20   | 6.20   | 0.30   | 100         |
| 61801830       | AHI DIN N 10/12     | 10.00               | 8   | red         | 21.00 | 12.0  | 4.60   | 0.20   | 7.50   | 0.30   | 100         |
| 61801840       | AHI DIN L 10/18     | 10.00               | 8   | red         | 27.00 | 18.0  | 4.60   | 0.20   | 7.50   | 0.30   | 100         |
| 61721960       | AHI N 10/12         | 10.00               | 8   | ivory       | 21.00 | 12.0  | 4.60   | 0.20   | 7.50   | 0.30   | 100         |
| 61721970       | AHI L 10/18         | 10.00               | 8   | ivory       | 27.00 | 18.0  | 4.60   | 0.20   | 7.50   | 0.30   | 100         |
| 61801850       | AHI DIN N 16/12     | 16.00               | 6   | blue        | 23.00 | 12.0  | 6.00   | 0.20   | 8.80   | 0.40   | 100         |
| 61801860       | AHI DIN L 16/18     | 16.00               | 6   | blue        | 29.00 | 18.0  | 6.00   | 0.20   | 8.80   | 0.40   | 100         |
| 61721980       | AHI N 16/12         | 16.00               | 6   | green       | 23.00 | 12.0  | 6.00   | 0.20   | 8.80   | 0.40   | 100         |
| 61721990       | AHI L 16/18         | 16.00               | 6   | green       | 29.00 | 18.0  | 6.00   | 0.20   | 8.80   | 0.40   | 100         |
| 61801870       | AHI DIN N 25/16     | 25.00               | 4   | yellow      | 29.00 | 16.0  | 7.50   | 0.20   | 11.00  | 0.50   | 50          |
| 61801890       | AHI DIN L 25/22     | 25.00               | 4   | yellow      | 35.00 | 22.0  | 7.50   | 0.20   | 11.00  | 0.50   | 50          |
| 61746770       | AHI N 25/16         | 25.00               | 4   | brown       | 29.00 | 16.0  | 7.50   | 0.20   | 11.00  | 0.50   | 50          |
| 61746780       | AHI L 25/22         | 25.00               | 4   | brown       | 35.00 | 22.0  | 7.50   | 0.20   | 11.00  | 0.50   | 50          |
| 61801900       | AHI DIN N 35/16     | 35.00               | 2   | red         | 30.00 | 16.0  | 8.50   | 0.20   | 12.50  | 0.50   | 50          |
| 61801920       | AHI DIN L 35/25     | 35.00               | 2   | red         | 39.00 | 25.0  | 8.50   | 0.20   | 12.50  | 0.50   | 50          |
| 61746790       | AHI N 35/16         | 35.00               | 2   | beige       | 30.00 | 16.0  | 8.50   | 0.20   | 12.50  | 0.50   | 50          |
| 61746800       | AHI L 35/25         | 35.00               | 2   | beige       | 39.00 | 25.0  | 8.50   | 0.20   | 12.50  | 0.50   | 50          |
| 61801930       | AHI DIN N 50/20     | 50.00               | 1   | blue        | 36.00 | 20.0  | 10.50  | 0.30   | 15.00  | 0.60   | 50          |
| 61801940       | AHI DIN L 50/25     | 50.00               | 1   | blue        | 41.00 | 25.0  | 10.50  | 0.30   | 15.00  | 0.60   | 50          |
| 61801950       | AHI N 70/20         | 70.00               | 2/0 | yellow      | 37.00 | 20.0  | 12.70  | 0.40   | 16.00  | 0.60   | 25          |
| 61801960       | AHI L 70/27         | 70.00               | 2/0 | yellow      | 44.00 | 27.0  | 12.70  | 0.40   | 16.00  | 0.60   | 25          |
| 61801970       | AHI N 95/25         | 95.00               | 3/0 | red         | 44.00 | 25.0  | 14.70  | 0.40   | 18.00  | 0.60   | 25          |
| 61801980       | AHI N 120/27        | 120.00              | 4/0 | blue        | 48.00 | 27.0  | 16.70  | 0.50   | 21.00  | 0.70   | 25          |
| 61801990       | AHI N 150/32        | 150.00              | 300 | yellow      | 58.00 | 32.0  | 19.50  | 0.50   | 23.00  | 1.00   | 25          |

K = short; N = medium; HL = large; L = extra large; Other sizes and colours are available upon request  
Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: [www.lappgroup.com](http://www.lappgroup.com)

## Deciband AHIB insulated conductor end sleeves



## Application range

- Packs of insulated conductor end sleeves with mini-crimp seal

## Approvals



## Design

- For processing tools see the keyword index "crimping pliers for conductor end sleeves"

## Included

- Insulated conductor end sleeves in standard length in strips with 10 linked mini-crimp bags of 100 conductor end sleeves
- Mini crimp lock for individual separation of bags

## Technical data



**General**  
Halogen-free



**Material**  
Copper/PP  
Surface: tin-plated



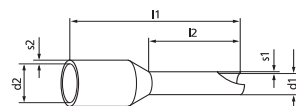
**Temperature range**  
-55°C to +105°C

| Article number | Article designation | For mm² | Core colour | l1 mm | l2 mm | d1 mm | s1 mm | d2 mm | s2 mm | Content  | Pieces / PU |
|----------------|---------------------|---------|-------------|-------|-------|-------|-------|-------|-------|----------|-------------|
| 61794750       | Deciband AHIB       | 0.25    | light blue  | 10.5  | 6     | 0.8   | 0.25  | 2.0   | 0.25  | 10 x 100 | 1           |
| 61794760       | Deciband AHIB       | 0.34    | turquoise   | 10.5  | 6     | 0.8   | 0.25  | 2.0   | 0.25  | 10 x 100 | 1           |
| 61794770       | Deciband AHIB       | 0.50    | orange      | 13.5  | 8     | 1.1   | 0.15  | 2.5   | 0.25  | 10 x 100 | 1           |
| 61794780       | Deciband AHIB       | 0.75    | white       | 14.0  | 8     | 1.3   | 0.15  | 2.8   | 0.25  | 10 x 100 | 1           |
| 61794790       | Deciband AHIB       | 1.00    | yellow      | 14.5  | 8     | 1.5   | 0.15  | 3.0   | 0.30  | 10 x 100 | 1           |
| 61794800       | Deciband AHIB       | 1.50    | red         | 14.5  | 8     | 1.8   | 0.15  | 3.4   | 0.30  | 10 x 100 | 1           |
| 61794810       | Deciband AHIB       | 2.50    | blue        | 15.0  | 8     | 2.3   | 0.15  | 4.2   | 0.30  | 10 x 100 | 1           |

Other sizes and colours are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

## Conductor end sleeves AHK, insulated



## Benefits

- Thicker insulation and greater wall thickness for higher loads
- Suitable for all short circuit and earth fault-resistant cables up to 3 kV due to enlarged insulation sleeves

## Application range

- For cables with thick insulation
- Special conductor end sleeve model with large plastic collar for thick insulation cables (e.g. NSGAFÖU).
- Suitable for unprotected connections on control and distribution panels, rail vehicles, solar systems, ignition cables etc.

## Approvals



## Note

- For processing tools see the keyword index "crimping pliers for conductor end sleeves"

## Suitable cables

- NSGAFöu 1.8/3 kV Page 84

## Technical data



**Material**  
Copper/PP  
Surface: tin-plated

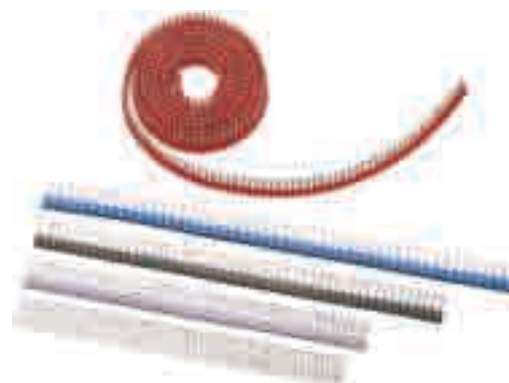
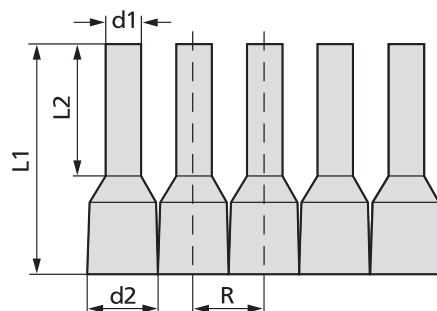


**Temperature range**  
-50 °C to +100 °C

| Article number | Article designation | For mm² | AWG | Core colour | l1 mm | l2 mm | d 1 mm | s1 mm | d 2 mm | s2 mm | Pieces / PU |
|----------------|---------------------|---------|-----|-------------|-------|-------|--------|-------|--------|-------|-------------|
| 61746500       | AHK 1,5/8           | 1.50    | 16  | black       | 17.50 | 8.0   | 1.80   | 0.15  | 7.50   | 0.30  | 100         |
| 61746501       | AHK 1,5/10          | 1.50    | 16  | black       | 19.50 | 10.0  | 1.80   | 0.15  | 7.50   | 0.30  | 100         |
| 61746502       | AHK 2,5/8           | 2.50    | 14  | blue        | 17.50 | 8.0   | 2.30   | 0.15  | 8.00   | 0.30  | 100         |
| 61746503       | AHK 2,5/12          | 2.50    | 14  | blue        | 21.50 | 12.0  | 2.30   | 0.15  | 8.00   | 0.30  | 100         |
| 61746504       | AHK 4/10            | 4.00    | 12  | grey        | 19.50 | 10.0  | 2.90   | 0.20  | 9.50   | 0.30  | 100         |
| 61746505       | AHK 6/12            | 6.00    | 10  | yellow      | 23.00 | 12.0  | 3.60   | 0.20  | 10.00  | 0.30  | 100         |
| 61746506       | AHK 10/12           | 10.00   | 8   | red         | 24.00 | 12.0  | 4.60   | 0.20  | 11.50  | 0.30  | 100         |
| 61746507       | AHK 16/12           | 16.00   | 6   | blue        | 25.50 | 12.0  | 6.00   | 0.20  | 13.50  | 0.30  | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

## DIN-Coil conductor end sleeves



DIN-Coil conductor end sleeves

### Application range

- Insulated conductor end sleeves in strips, DIN 46228, Part 4
- DIN strips, available in coils of up to 3000 items for working with automatic crimping machines

### Approvals



### Included

- Coil diameter: approx. 25 cm

### Technical data



**Material**  
Copper/PP  
Surface: tin-plated



**Temperature range**  
Permanent load -55°C up to +105°C, temporary load +120°C

| Article number | Article designation | For mm <sup>2</sup> | Core colour | I1 mm | I2 mm | d 1 mm | d 2 mm | R mm | Contents (unit) |
|----------------|---------------------|---------------------|-------------|-------|-------|--------|--------|------|-----------------|
| 61802052       | DIN coil 0.5        | 0.50                | white       | 14.5  | 8     | 1.1    | 2.6    | 3.5  | 3,000 x 1       |
| 61802054       | DIN coil 0.75       | 0.75                | grey        | 14.5  | 8     | 1.3    | 2.8    | 3.6  | 3,000 x 1       |
| 61802056       | DIN coil 1.0        | 1.00                | red         | 14.5  | 8     | 1.5    | 3.0    | 3.9  | 3,000 x 1       |
| 61802058       | DIN coil 1.5        | 1.50                | black       | 14.5  | 8     | 1.8    | 3.4    | 4.2  | 2,500 x 1       |
| 61802060       | DIN coil 2.5        | 2.50                | blue        | 14.5  | 8     | 2.3    | 4.2    | 5.0  | 1,500 x 1       |

Photographs are not to scale and do not represent detailed images of the respective products.

## DIN-strips for QUADRO



DIN-strips for QUADRO

### Application range

- Processing tool/installation tool
- Versatile stripping and crimping pliers

### Approvals



### Design

- Insulated conductor end sleeves in strips, DIN 46228, Part 4 for QUADRO

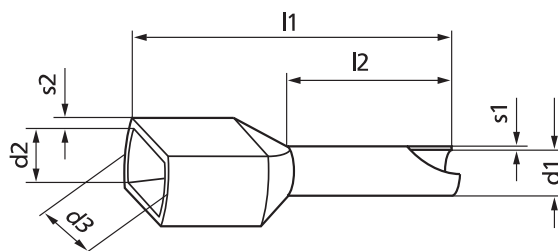
### Suitable tools

- QUADRO multifunction tool refer to page 915

| Article number | Article designation | For mm <sup>2</sup> | AWG | Core colour | I1 mm | I2 mm | d 1 mm | d 2 mm | R mm | Pieces / PU |
|----------------|---------------------|---------------------|-----|-------------|-------|-------|--------|--------|------|-------------|
| 61805170       | DIN Strips 0,50     | 0.50                | 20  | white       | 14.00 | 8.0   | 1.10   | 2.60   | 3.50 | 500         |
| 61805180       | DIN Strips 0,75     | 0.75                | 20  | grey        | 14.00 | 8.0   | 1.30   | 2.80   | 3.60 | 500         |
| 61805190       | DIN Strips 1,00     | 1.00                | 18  | red         | 14.00 | 8.0   | 1.50   | 3.00   | 3.90 | 500         |
| 61805200       | DIN Strips 1,50     | 1.50                | 16  | black       | 14.00 | 8.0   | 1.80   | 3.40   | 4.20 | 500         |
| 61805210       | DIN Strips 2,50     | 2.50                | 14  | blue        | 14.00 | 8.0   | 2.30   | 4.20   | 5.00 | 500         |

Photographs are not to scale and do not represent detailed images of the respective products.

## TWIN conductor end sleeves



TWIN conductor end sleeves

### Benefits

- Special shape of plastic collar enables simultaneous holding of two strand conductors
- Correct crimping of two conductors in a TWIN conductor end sleeve achieves a proper electrical and mechanical connection

### Application range

- Twin conductor end sleeves in the assortment box

### Approvals



### Design

- For processing tools see the keyword index "crimping pliers for conductor end sleeves"

### Suitable tools

- KEBS 0560 TWIN crimping pliers refer to page 917

### Technical data



**Info**  
Halogen-free



**Material**  
Copper/PP  
Surface: tin-plated



**Temperature range**  
Permanent load -55°C up to +105°C, temporary load +120°C

| Article number | Article designation | For mm²      | AWG    | Core colour | l1 mm | l2 mm | d 1 mm | s 1 mm | d 2 mm | d 3 mm | s 2 mm | Pieces / PU |
|----------------|---------------------|--------------|--------|-------------|-------|-------|--------|--------|--------|--------|--------|-------------|
| 61801999       | AHI-TWIN            | 2.00 x 0.50  | 2 x 20 | white       | 15.00 | 8.0   | 1.50   | 0.15   | 2.30   | 4.50   | 0.25   | 500         |
| 61802000       | AHI-TWIN            | 2.00 x 0.75  | 2 x 20 | grey        | 15.00 | 8.0   | 1.80   | 0.15   | 2.60   | 5.10   | 0.25   | 500         |
| 61802010       | AHI-TWIN            | 2.00 x 1.00  | 2 x 18 | red         | 15.00 | 8.0   | 2.05   | 0.15   | 3.00   | 5.10   | 0.30   | 500         |
| 61802020       | AHI-TWIN            | 2.00 x 1.50  | 2 x 16 | black       | 16.00 | 8.0   | 2.30   | 0.15   | 3.50   | 6.40   | 0.30   | 500         |
| 61802030       | AHI-TWIN            | 2.00 x 2.50  | 2 x 14 | blue        | 18.50 | 10.0  | 2.90   | 0.20   | 4.00   | 7.50   | 0.30   | 500         |
| 61802032       | AHI-TWIN            | 2.00 x 4.00  | 2 x 12 | grey        | 23.00 | 12.0  | 3.80   | 0.20   | 4.90   | 8.60   | 0.30   | 100         |
| 61802033       | AHI-TWIN            | 2.00 x 6.00  | 2 x 10 | yellow      | 25.00 | 14.0  | 4.60   | 0.20   | 5.80   | 9.60   | 0.40   | 100         |
| 61802034       | AHI-TWIN            | 2.00 x 10.00 | 2 x 8  | red         | 26.00 | 14.0  | 6.50   | 0.20   | 7.00   | 12.60  | 0.40   | 100         |
| 61802035       | AHI-TWIN            | 2.00 x 16.00 | 2 x 6  | BU          | 30.00 | 14.0  | 8.20   | 0.20   | 9.60   | 18.40  | 0.40   | 50          |

Other sizes and colours are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.



## DIN-assorted boxes conductor end sleeves / AHI assorted boxes / TWIN assorted boxes



TWIN assorted boxes



AHI assorted boxes



DIN-assorted boxes conductor end sleeves

### Benefits

- Convenient assortment boxes – several diameters always at your fingertips

### Application range

#### DIN-assorted boxes conductor end sleeves

- DIN conductor end sleeves
- Manufacturing of control cabinets and equipment

#### AHI assorted boxes

- AHI assortment box
- Manufacturing of control cabinets and equipment

#### TWIN assorted boxes

- TWIN assortment box
- Manufacturing of control cabinets and equipment

### Approvals



- The insulated conductor end sleeves are in accordance with DIN 46228, part 4 (0.25 mm<sup>2</sup> and 0.34 mm<sup>2</sup> not standardised) in assortment boxes

### Note

- For processing tools see the keyword index “crimping pliers for conductor end sleeves”

### Design

#### DIN-assorted boxes conductor end sleeves

- DIN assortment box I:  
30 x 0.25 – 6 mm BU, 30 x 0.34 – 6 mm YE, 30 x 0.5 – 8 mm WH, 30 x 0.75 – 8 mm GY, 30 x 1.00 – 8 mm RD
- DIN assortment box II:  
50 x 0.5 – 8 mm WH, 100 x 0.75 – 8 mm GY, 100 x 1.00 – 8 mm RD, 100 x 1.5 – 8 mm BK, 50 x 2.5 – 8 mm BU
- DIN assortment box III:  
40 x 4.00 – 10 mm GY, 20 x 6.0 – 12 mm YE, 20 x 10.00 – 12 mm RD, 10 x 16.00 – 12 mm BU

#### AHI assorted boxes

- AHI assortment box I (yellow):  
30 x 0.25 – 6 mm LBU, 30 x 0.34 – 6 mm TQ, 30 x 0.5 – 8 mm ON, 30 x 0.75 – 8 mm WH, 30 x 1.00 – 8 mm YE
- AHI assortment box II (orange):  
50 x 0.5 – 8 mm OG, 100 x 0.75 – 8 mm WH, 100 x 1.00 – 8 mm YE, 100 x 1.5 – 8 mm RD, 50 x 2.5 – 8 mm BU

- AHI assortment box III (blue):  
50 x 4.00 – 10 mm GY, 20 x 6.0 – 12 mm BK, 20 x 10.00 – 12 mm WH, 10 x 16.00 – 12 mm GN

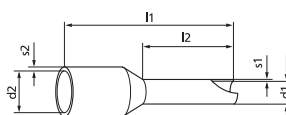
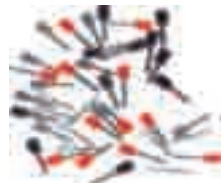
#### TWIN assorted boxes

- TWIN assortment box
- 2x0,75 – 8mm, 2x1,00 – 8mm, 2x1,5 – 8mm, 2x2,5 – 10mm

| Article number             | Article designation    | For mm <sup>2</sup> | Contents (unit) | PU |
|----------------------------|------------------------|---------------------|-----------------|----|
| <b>DIN assortment box</b>  |                        |                     |                 |    |
| 61802040                   | DIN assortment box I   | 0.25 – 1.00         | 150 x 1         | 1  |
| 61802041                   | DIN assortment box II  | 0.50 – 2.50         | 400 x 1         | 1  |
| 61802042                   | DIN assortment box III | 4.00 – 16.00        | 100 x 1         | 1  |
| <b>AHI assortment box</b>  |                        |                     |                 |    |
| 61794720                   | AHI assortment box I   | 0.25 – 1.00         | 150 x 1         | 1  |
| 61794730                   | AHI assortment box II  | 0.50 – 2.50         | 400 x 1         | 1  |
| 61794740                   | AHI assortment box III | 4.00 – 16.00        | 100 x 1         | 1  |
| <b>TWIN assortment box</b> |                        |                     |                 |    |
| 61802046                   | TWIN assortment box    | 2 x 0,75 – 2 x 2,5  | 200 x 1         | 1  |

Photographs are not to scale and do not represent detailed images of the respective products.

## Conductor end sleeves XL, insulated



## Info

- Suitable conductor end sleeves for UL(MTW)-CSA-HAR multi-standard single cores

## Benefits

- The specially produced conductor end sleeves with funnel-shaped insulation sleeve opening make it significantly easier to slip on the strands.

## Application range

- Suitable conductor end sleeves for UL(MTW)-CSA-HAR multi-standard single cores

## Approvals



- All DIN conductor end-sleeves are in accordance with DIN 46228 Part 4

## Design

- Because of their approval for numerous markets, special conductor end sleeves with the cross sections listed below are needed for our multi-standard single cores.
- The conductor is permanently connected to the collar by crimping.

## Suitable cables

- Multi-Standard SC 1 Page 203
- Multi-Standard SC 2.2
- Multi-Standard SC 2.1

## Suitable tools

- PEW 8.87 crimping pliers refer to page 916

## Technical data



## Approvals

In accordance with DIN 46228



## Note

For processing tools see the keyword index "crimping pliers for conductor end sleeves"



## Info

Halogen-free and flame-retardant



## Material

Sleeve made of tin-plated electrolytic copper  
Polypropylene plastic collar



## Temperature range

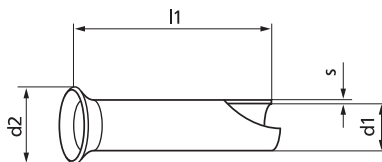
Permanent load from -55 °C to +105 °C  
Short-term: +120 °C

| Article number | Article designation                 | For mm <sup>2</sup> | AWG | Core colour | l1 mm | l2 mm | d 1 mm | s 1 mm | d 2 mm | s 2 mm | Pieces / PU |
|----------------|-------------------------------------|---------------------|-----|-------------|-------|-------|--------|--------|--------|--------|-------------|
| 61802061       | Conductor end sleeves XL 0.5 WH 8   | 0.50                | 20  | white       | 13.50 | 8.0   | 1.10   | 0.15   | 3.00   | 0.25   | 500         |
| 61802062       | Conductor end sleeves XL 0.5 WH 10  | 0.50                | 20  | white       | 15.50 | 10.0  | 1.10   | 0.15   | 3.00   | 0.25   | 500         |
| 61802063       | Conductor end sleeves XL 0.75 GY 8  | 0.75                | 18  | grey        | 14.00 | 8.0   | 1.30   | 0.15   | 3.40   | 0.30   | 500         |
| 61802064       | Conductor end sleeves XL 0.75 GY 10 | 0.75                | 18  | grey        | 16.00 | 10.0  | 1.30   | 0.15   | 3.40   | 0.30   | 500         |
| 61802065       | Conductor end sleeves XL 1.0 RD 8   | 1.00                | 18  | red         | 14.00 | 8.0   | 1.50   | 0.15   | 3.40   | 0.30   | 500         |
| 61802066       | Conductor end sleeves XL 1.0 RD 10  | 1.00                | 18  | red         | 16.00 | 10.0  | 1.50   | 0.15   | 3.40   | 0.30   | 500         |
| 61802067       | Conductor end sleeves XL 1.5 BK 8   | 1.50                | 16  | black       | 14.00 | 8.0   | 1.80   | 0.15   | 3.80   | 0.30   | 500         |
| 61802068       | Conductor end sleeves XL 1.5 BK 10  | 1.50                | 16  | black       | 16.00 | 10.0  | 1.80   | 0.15   | 3.80   | 0.30   | 500         |
| 61802069       | Conductor end sleeves XL 16.0 BU 12 | 16.00               | 6   | blue        | 23.00 | 12.0  | 6.00   | 0.20   | 9.50   | 0.40   | 100         |

Sleeves are available in 8 and 10 mm lengths, depending on the type of application.

Photographs are not to scale and do not represent detailed images of the respective products.

## Conductor end sleeves AH, not insulated



## Benefits

- Slightly funnel-shaped opening makes it easy to slip it onto the core

## Application range

- Control cabinet wiring

## Approvals



- In accordance with DIN 46228

## Note

- For processing tools see the keyword index "crimping pliers for conductor end sleeves"
- Other sizes are available upon request

## Suitable tools

- KEB 1025 crimping pliers refer to page 916
- KEB 3550 crimping pliers refer to page 916

## Technical data



## Material

Tinned electrolyte copper



## Temperature range

max. +200 °C

| Article number                          | Article designation | For mm <sup>2</sup> | AWG | l1 mm | d 1 mm | d 2 mm | s mm | Pieces / PU |
|-----------------------------------------|---------------------|---------------------|-----|-------|--------|--------|------|-------------|
| Conductor end sleeves AH, not insulated |                     |                     |     |       |        |        |      |             |
| 62120200                                | AH DIN 0,5/6        | 0.50                | 20  | 6.00  | 1.00   | 2.10   | 0.15 | 500         |
| 62120210                                | AH DIN 0,75/6       | 0.75                | 20  | 6.00  | 1.20   | 2.30   | 0.15 | 500         |
| 61721530                                | AH DIN 0,75/10      | 0.75                | 20  | 10.00 | 1.20   | 2.30   | 0.15 | 500         |
| 62120220                                | AH DIN 1/6          | 1.00                | 18  | 6.00  | 1.40   | 2.50   | 0.15 | 500         |
| 61721540                                | AH DIN 1/10         | 1.00                | 18  | 10.00 | 1.40   | 2.50   | 0.15 | 500         |
| 62120230                                | AH DIN 1,5/7        | 1.50                | 16  | 7.00  | 1.70   | 2.80   | 0.15 | 500         |
| 61721550                                | AH DIN 1,5/10       | 1.50                | 16  | 10.00 | 1.70   | 2.80   | 0.15 | 500         |
| 62120240                                | AH DIN 2,5/7        | 2.50                | 14  | 7.00  | 2.20   | 3.40   | 0.15 | 500         |
| 61721560                                | AH DIN 2,5/12       | 2.50                | 14  | 12.00 | 2.20   | 3.40   | 0.15 | 500         |
| 62120250                                | AH DIN 4/9          | 4.00                | 12  | 9.00  | 2.80   | 4.00   | 0.20 | 500         |
| 62120260                                | AH DIN 6/10         | 6.00                | 10  | 10.00 | 3.50   | 4.70   | 0.20 | 500         |
| 62120270                                | AH DIN 10/12        | 10.00               | 8   | 12.00 | 4.50   | 5.80   | 0.20 | 500         |
| 62120280                                | AH DIN 16/12        | 16.00               | 6   | 12.00 | 5.80   | 7.50   | 0.20 | 500         |

Other sizes are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

## Accessories

- PLG - HSB box shrink tube refer to page 946

## QUADRO multifunction tool

### ■ Benefits

- Allows for effortless insertion in the conductor end sleeve.
- Changing the magazine for another cross-section takes only seconds
- High mechanical advantage assures easy crimping.

### ■ Application range

- Multi-function tool
- Twisting
- Crimping
- Cutting

### ■ Product features

- Fanning out of strands is prevented by the integrated twist device.

### ■ Approvals

- Trapezoidal pressing in accordance with VDE 0609 Part I.

### ■ Design

- Cutting of wires up to 2.5 mm diameter

### ■ Included

- Case, tool, 3 magazines,
- Storage box for conductor end sleeves



| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Contents (unit) |
|----------------|---------------------|---------------------|------------------|-------------|-----------------|
| 61805300       | QUADRO Set          | 0.50 - 2.50         | trapezoid        | -           | 1               |
| 61805301       | QUADRO pliers       | 0.50 - 2.50         | trapezoid        | 0.22        | 1               |
| 61805302       | QUADRO magazine     | 0.50 - 2.50         | trapezoid        | -           | 1               |

Photographs are not to scale and do not represent detailed images of the respective products.

### ■ Accessories

- DIN-strips for QUADRO refer to page 911

## PEW 8.84 crimping pliers / MULTICRIMP 6 crimping pliers



PEW 8.84 crimping pliers



MULTICRIMP 6 crimping pliers

### ■ Benefits

- Uniform feed on the crimp die guarantees exact crimping profiles
- Easy to handle due to the automatic adjustment for the different crimping cross-sections

### ■ Application range

#### MULTICRIMP 6 crimping pliers

- Cross-section range from 0.08 - 6.0 mm<sup>2</sup> with hexagonal pressing

#### PEW 8.84 crimping pliers

- Cross-section range from 0.08 - 10 mm<sup>2</sup> with square pressing

### ■ Product features

#### MULTICRIMP 6 crimping pliers

- Forced locking for reliable, DIN-compliant crimping connections, unlockable
- Adjustable crimping pressure

#### PEW 8.84 crimping pliers

- Forced locking for reliable, DIN-compliant crimping connections, unlockable

| Article number | Article designation   | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|-----------------------|---------------------|------------------|-------------|-------------|-------------|
| 61813732       | Multicrimp 6          | 0.08 - 6.00         | hexagon          | 0.38        | 180         | 1           |
| 61813735       | PEW 8.84              | 0.08 - 10.00        | square           | 0.38        | 180         | 1           |
| 61813731       | PEW 8.84 spare spring | -                   | -                | -           | -           | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

**Connection and crimping**

Crimping tools for conductor end sleeves

**PEW 8.87 crimping pliers****PEW 8.87 crimping pliers****Benefits**

- For the simplest handling where space is limited (control cabinets, machinery/internal wiring)

**Application range**

- Front crimping with large cross-sectional range from 0.08 to 16 mm<sup>2</sup>

**Design**

- Side insertion of conductor end sleeves up to 2.5 mm<sup>2</sup> possible
- End insertion of the conductor end sleeves
- Square crimping profile with four profiled crimping surfaces

**Technical data****General**

Pressing length: up to 16 mm  
Crimping profile: Square

| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|-------------|-------------|
| 61813742       | PEW 8.87            | 0.08 - 10.00        | square           | 0.475       | 190         | 1           |
| 61813744       | PEW 8.87 Plus       | 0.08 - 16.00        | square           | 0.475       | 190         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

**Accessories**

- Conductor end sleeves insulated refer to page 909

**KEB 3550 crimping pliers / KEB 1025 crimping pliers****KEB 3550 crimping pliers****KEB 1025 crimping pliers****Benefits**

- Unique mechanism reduces the manual force from 450 N to 250 N
- Handles suit both large and small hands
- Locking function that is released only after completion of the pressing operation

**Application range****KEB 1025 crimping pliers**

- Mini-force tools for pressing insulated and non-insulated conductor end sleeves from 10 - 25 mm<sup>2</sup>

**KEB 3550 crimping pliers**

- Mini-force tools for pressing insulated and non-insulated conductor end sleeves from 35 - 50 mm<sup>2</sup>

**Product features**

- Emergency release, if the pressing operation needs to be interrupted

**Approvals****KEB 1025 crimping pliers**

- Tested in accordance with DIN standard EN 60352-2

**Design****KEB 1025 crimping pliers**

- Tested for a minimum of 80,000 pressings
- Crimping profile: Trapezoid

**KEB 3550 crimping pliers**

- Tested for a minimum of 80,000 pressings

| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|-------------|-------------|
| 61791065       | KEB 1025            | 10.00 - 25.00       | trapezoid        | 0.5         | 220         | 1           |
| 61791095       | KEB 3550            | 35.00 - 50.00       | trapezoid        | 0.5         | 220         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## K29 crimping pliers



### ■ Application range

- Crimping tool for very large conductor end sleeves from 50 - 95 mm<sup>2</sup>
- For pressing insulated and non-insulated conductor end sleeves

### ■ Design

- Crimping profile: Trapezoid
- 3 pressing matrices with side insertion: 50/ 70/ 95 mm<sup>2</sup>

| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|-------------|-------------|
| 62120192       | K29                 | 50.00 - 95.00       | trapezoid        | 0.8         | 335         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

### ■ Accessories

- Conductor end sleeves insulated refer to page 909

## KEBS 0560 TWIN crimping pliers



KEBS 0560 TWIN crimping pliers

### ■ Benefits

- Locking function that is released only after completion of the pressing operation
- Unique mechanism reduces the manual force from 450 N to 250 N
- Handles suit both large and small hands

### ■ Application range

- Pliers with front pressing for insulated/non-insulated conductor end sleeves and TWIN conductor end sleeves

### ■ Product features

- Pressing length: up to 16 mm

### ■ Design

- Tested for a minimum of 80,000 pressings
- Front feed
- Crimping profile: Trapezoid

| Article number | Article designation | For mm <sup>2</sup>   | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|-----------------------|------------------|-------------|-------------|-------------|
| 61791055       | KEBS 0560 TWIN      | 2x0,5 - 2x4 (0,1 - 6) | trapezoid        | 0.5         | 220         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

### ■ Accessories

- TWIN conductor end sleeves refer to page 912

**Connection and crimping**

Crimping machines for conductor end sleeves

**CrimmBoss electromagnetic crimping device****CrimmBoss electromagnetic crimping device****Benefits**

- High flexibility and mobility.
- CrimmBoss can be used while standing, hanging or lying on machines, workbenches or control cabinets, with consistent high-quality results.
- Patented technology prevents incorrect or premature crimping.

**Application range**

- Electromagnetic crimping of insulated conductor end sleeves

**Product features**

- Pneumatic and electromagnetic crimping

**Approvals**

- Crimping quality corresponds to the standard DIN requirements

**Design**

- The mechanical contact will not release the electromagnetic hammer automatically unless the conductor end sleeves have been inserted completely and correctly.

**Included**

- Included: spare trigger tongues of 0.5-2.5 mm<sup>2</sup> and 0.14-1 mm<sup>2</sup>

**Technical data****General**

Crimping profile: Trapezoid cam

**Note**Pressing length: 1 x 13 mm  
Max. pressing: 75/min.**Info**Cross-section range 0.14 - 1 mm<sup>2</sup> and 0.5 - 2.5 mm<sup>2</sup>  
Voltage range: 220/230 V/50 Hz

| Article number                         | Article designation | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------------------------------|---------------------|---------------------|------------------|-------------|-------------|-------------|
| <b>Electromagnetic crimping pliers</b> |                     |                     |                  |             |             |             |
| 61806430                               | CrimmBoss           | 0,14-1 / 0,5 - 2,50 | trapezoid cam    | 0.85        | 250         | 1           |

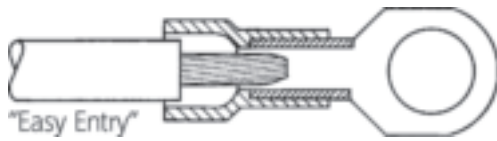
Photographs are not to scale and do not represent detailed images of the respective products.

**Accessories**

- Conductor end sleeves insulated refer to page 909



## Insulated cable lugs



Insulated cable lugs

### Benefits

- EASY-ENTRY funnel shape of the plastic sleeve enables simple, fast and safe insertion of the conductor
- No risk of bent and crushed cables
- For good strength and improved current conduction

### Application range

- Manufacturing of control cabinets and equipment

### Product features

- Hard-soldered cable lug that can be pressed in any position
- For first-class connection with simple operating principle
- Electrolytic tinning for max. corrosion protection
- Flat receptacle material in contact pressing is double-folded and hard-soldered
- Metal sleeves with internal corrugation

### Approvals



- Tested in accordance with DIN IEC 60352
- File Number E334109, see table

### Note

- For processing tools see the keyword index "crimping pliers for conductor end sleeves"

### Design

- 1 = ring cable lugs
- 2 = forked cable lugs
- 3 = pin cable lugs
- 4 = circular connector
- 5 = connector sleeve
- 6 = butt connector
- 7 = end connector

### Technical data



#### General

Other sizes and colours (also DIN) are available upon request  
Halogen-free



#### Note

For processing tools see the keyword index "crimping pliers for other connections"



#### Material

High-quality electrolytic copper for good conductivity  
Polyamide insulation



#### Temperature range

-40 °C to +105 °C  
Short-term: up to +120 °C

### Suitable tools

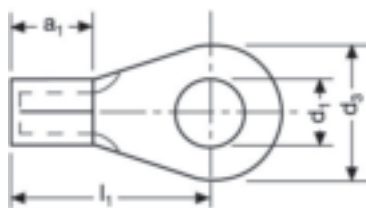
- DSA 0110 + DSA 0725 crimping pliers refer to page 924
- CSA 0760 + KSA 0760 crimping pliers refer to page 924

| Article number                | Article designation | For mm²     | UL approval | Connection bolt | Core colour | Pieces / PU |
|-------------------------------|---------------------|-------------|-------------|-----------------|-------------|-------------|
| <b>Ring cable lugs</b>        |                     |             |             |                 |             |             |
| 63104010                      | L-RZ 3              | 0.25 - 0.75 | no          | M 3             | green       | 100         |
| 63104020                      | L-RZ 4              | 0.25 - 0.75 | no          | M 4             | green       | 100         |
| 63104030                      | L-RZ 5              | 0.25 - 0.75 | no          | M 5             | green       | 100         |
| 63104040                      | L-RA 3              | 0.5 - 1.5   | yes         | M 3             | red         | 100         |
| 63104050                      | L-RA 35             | 0.5 - 1.5   | yes         | M 3.5           | red         | 100         |
| 63104060                      | L-RA 4              | 0.5 - 1.5   | yes         | M 4             | red         | 100         |
| 63104070                      | L-RA 5              | 0.5 - 1.5   | yes         | M 5             | red         | 100         |
| 63104080                      | L-RA 6              | 0.5 - 1.5   | yes         | M 6             | red         | 100         |
| 63104160                      | L-RB 3              | 1.5 - 2.5   | yes         | M 3             | blue        | 100         |
| 63104170                      | L-RB 4              | 1.5 - 2.5   | yes         | M 4             | blue        | 100         |
| 63104180                      | L-RB 5              | 1.5 - 2.5   | yes         | M 5             | blue        | 100         |
| 63104190                      | L-RB 6              | 1.5 - 2.5   | yes         | M 6             | blue        | 100         |
| 63104200                      | L-RB 8              | 1.5 - 2.5   | yes         | M 8             | blue        | 100         |
| 63104340                      | L-RC 4              | 4 - 6       | yes         | M 4             | yellow      | 100         |
| 63104350                      | L-RC 5              | 4 - 6       | yes         | M 5             | yellow      | 100         |
| 63104360                      | L-RC 6              | 4 - 6       | yes         | M 6             | yellow      | 100         |
| 63104370                      | L-RC 8              | 4 - 6       | yes         | M 8             | yellow      | 100         |
| 63104380                      | L-RC 10             | 4 - 6       | yes         | M 10            | yellow      | 50          |
| <b>Fork cable lugs</b>        |                     |             |             |                 |             |             |
| 63105010                      | L-RZ 3 F            | 0.25 - 0.75 | no          | M 3             | green       | 100         |
| 63105020                      | L-RZ 4 F            | 0.25 - 0.75 | no          | M 4             | green       | 100         |
| 63105050                      | L-RA 4 F            | 0.5 - 1.5   | yes         | M 4             | red         | 100         |
| 63105060                      | L-RA 5 F            | 0.5 - 1.5   | yes         | M 5             | red         | 100         |
| 63105070                      | L-RA 6 F            | 0.5 - 1.5   | yes         | M 6             | red         | 100         |
| 63105130                      | L-RB 4 F            | 1.5 - 2.5   | yes         | M 4             | blue        | 100         |
| 63105140                      | L-RB 5 F            | 1.5 - 2.5   | yes         | M 5             | blue        | 100         |
| 63105150                      | L-RB 6 F            | 1.5 - 2.5   | yes         | M 6             | blue        | 100         |
| 63105210                      | L-RC 4 F            | 4 - 6       | yes         | M 4             | yellow      | 100         |
| 63105220                      | L-RC 5 F            | 4 - 6       | yes         | M 5             | yellow      | 100         |
| 63105230                      | L-RC 6 F            | 4 - 6       | yes         | M 6             | yellow      | 50          |
| <b>Narrow fork cable lugs</b> |                     |             |             |                 |             |             |
| 63105040                      | L-RA 35 F           | 0.5 - 1.5   | yes         | M 3.5           | red         | 100         |
| 63105110                      | L-RB 3 F            | 1.5 - 2.5   | yes         | M 3             | blue        | 100         |
| 63105120                      | L-RB 35 F           | 1.5 - 2.5   | yes         | M 3.5           | blue        | 100         |
| <b>Flange fork cable lugs</b> |                     |             |             |                 |             |             |
| 63108010                      | L-RA 35 FF          | 0.5 - 1.5   | no          | M 3.5           | red         | 100         |
| 63108040                      | L-RB 4 FF           | 1.5 - 2.5   | no          | M 4             | blue        | 100         |
| 63108050                      | L-RB 5 FF           | 1.5 - 2.5   | no          | M 5             | blue        | 100         |
| <b>Pin cable lugs</b>         |                     |             |             |                 |             |             |
| 63107010                      | L-RZP               | 0.25 - 0.75 | no          |                 | green       | 100         |
| 63107020                      | L-RAP               | 0.5 - 1.5   | yes         |                 | red         | 100         |
| 63107040                      | L-RBP               | 1.5 - 2.5   | yes         |                 | blue        | 100         |
| 63107070                      | L-RCP               | 4 - 6       | yes         |                 | yellow      | 100         |
| <b>Circular connector</b>     |                     |             |             |                 |             |             |
| 63110010                      | L-RABM              | 0.5 - 1.5   | no          |                 | red         | 100         |
| 63110020                      | L-RB 5 BM           | 1.5 - 2.5   | no          |                 | blue        | 100         |
| <b>Connector sleeve</b>       |                     |             |             |                 |             |             |
| 63111010                      | L-RAB               | 0.5 - 1.5   | no          |                 | red         | 100         |
| 63111020                      | L-RB 5 B            | 1.5 - 2.5   | no          |                 | blue        | 100         |
| <b>Butt connector</b>         |                     |             |             |                 |             |             |
| 63106020                      | L-RAA 15            | 0.5 - 1.5   | yes         |                 | red         | 100         |
| 63106040                      | L-RBB 25            | 1.5 - 2.5   | yes         |                 | blue        | 100         |
| 63106080                      | L-RCC 6             | 4 - 6       | yes         |                 | yellow      | 50          |
| <b>End joint</b>              |                     |             |             |                 |             |             |
| 63112010                      | L-RBJ               | 1.5 - 2.5   | no          |                 | blue        | 100         |
| 63112020                      | L-RCJ               | 4 - 6       | no          |                 | yellow      | 100         |

Other sizes and colours are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

## Cable lugs KB



## Benefits

- For first-class connection with simple operating principle
- Thus providing the best electrical conductivity (least resistance)

## Application range

- Manufacturing of control cabinets and equipment
- Trains and buses

## Approvals



- In accordance with VG 88710
- Coil form DIN 46234, non-insulated

## Note

- For processing tools see the keyword index "crimping pliers for other connections"

## Technical data



## Note

s = thickness of material



## Material

High-quality electrolytic copper for good conductivity



## Temperature range

Max. temperature: +120°C (short-term)

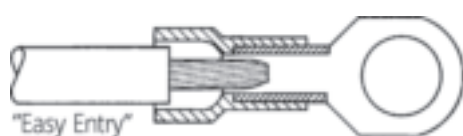
## Suitable tools

- PEW 12 universal tool refer to page 932
- WT 4454 PNEU universal pressing pliers refer to page [P1315]

| Article number | Article designation  | For mm²   | UL approval | AWG   | Nominal size | d1   | d3   | l1   | a1   | s   | Pieces / PU |
|----------------|----------------------|-----------|-------------|-------|--------------|------|------|------|------|-----|-------------|
| 63204015       | KB1-2,5R DIN 46234   | 0.5 - 1.5 | no          | 22-16 | 2.5-1.0      | 2.8  | 6.0  | 11.0 | 5.0  | 0.8 | 100         |
| 63204025       | KB1-3R DIN 46234     | 0.5 - 1.5 | no          | 22-16 | 3.2-1.0      | 3.2  | 6.0  | 11.0 | 5.0  | 0.8 | 100         |
| 63204035       | KB1-3,5R DIN 46234   | 0.5 - 1.5 | no          | 22-16 | 3.5-1.0      | 3.7  | 6.0  | 11.0 | 5.0  | 0.8 | 100         |
| 63204045       | KB1-4R DIN 46234     | 0.5 - 1.5 | no          | 22-16 | 4.0-1.0      | 4.3  | 8.0  | 12.0 | 5.0  | 0.8 | 100         |
| 63204055       | KB1-5R DIN 46234     | 0.5 - 1.5 | no          | 22-16 | 5.0-1.0      | 5.3  | 10.0 | 13.0 | 5.0  | 0.8 | 100         |
| 63204065       | KB1-6R DIN 46234     | 0.5 - 1.5 | no          | 22-16 | 6.0-1.0      | 6.5  | 10.0 | 13.0 | 5.0  | 0.8 | 100         |
| 63204075       | KB1-8R DIN 46234     | 0.5 - 1.5 | no          | 22-16 | 8.0-1.0      | 8.4  | 14.0 | 17.0 | 5.0  | 0.8 | 100         |
| 63204085       | KB1-10R DIN 46234    | 0.5 - 1.5 | no          | 22-16 | 10.0-1.0     | 10.5 | 14.0 | 17.0 | 5.0  | 0.8 | 100         |
| 63204095       | KB2-5-3R DIN 46234   | 1.5 - 2.5 | no          | 16-14 | 3.0-2.5      | 3.2  | 6.0  | 11.0 | 5.0  | 0.8 | 100         |
| 63204105       | KB2-5-3,5R DIN 46234 | 1.5 - 2.5 | no          | 16-14 | 3.5-2.5      | 3.7  | 6.0  | 11.0 | 5.0  | 0.8 | 100         |
| 63204115       | KB2-5-4R DIN 46234   | 1.5 - 2.5 | no          | 16-14 | 4.0-2.5      | 4.3  | 8.0  | 12.0 | 5.0  | 0.8 | 100         |
| 63204125       | KB2-5-5R DIN 46234   | 1.5 - 2.5 | no          | 16-14 | 5.0-2.5      | 5.3  | 10.0 | 14.0 | 5.0  | 0.8 | 100         |
| 63204135       | KB2-5-6R DIN 46234   | 1.5 - 2.5 | no          | 16-14 | 6.0-2.5      | 6.5  | 11.0 | 16.0 | 5.0  | 0.8 | 100         |
| 63204145       | KB2-5-8R DIN 46234   | 1.5 - 2.5 | no          | 16-14 | 8.0-2.5      | 8.4  | 14.0 | 17.0 | 5.0  | 0.8 | 100         |
| 63204155       | KB2-5-10R DIN 46234  | 1.5 - 2.5 | no          | 16-14 | 10.0-2.5     | 10.5 | 14.0 | 17.0 | 5.0  | 0.8 | 100         |
| 63204165       | KB2-5-12R DIN 46234  | 1.5 - 2.5 | no          | 16-14 | 12.0-2.5     | 13.0 | 18.0 | 20.0 | 5.0  | 0.8 | 100         |
| 63204175       | KB6-4R DIN 46234     | 2.5 - 6   | no          | 12-10 | 4.0-6.0      | 4.3  | 8.0  | 14.0 | 6.0  | 1.0 | 100         |
| 63204185       | KB6-5R DIN 46234     | 2.5 - 6   | no          | 12-10 | 5.0-6.0      | 5.3  | 10.0 | 15.0 | 6.0  | 1.0 | 100         |
| 63204195       | KB6-6R DIN 46234     | 2.5 - 6   | no          | 12-10 | 6.0-6.0      | 6.5  | 11.0 | 16.0 | 6.0  | 1.0 | 100         |
| 63204205       | KB6-8R DIN 46234     | 2.5 - 6   | no          | 12-10 | 8.0-6.0      | 8.4  | 14.0 | 19.0 | 6.0  | 1.0 | 100         |
| 63204215       | KB6-10R DIN 46234    | 2.5 - 6   | no          | 12-10 | 10.0-6.0     | 10.5 | 18.0 | 21.0 | 6.0  | 1.0 | 100         |
| 63204225       | KB6-12R DIN 46234    | 2.5 - 6   | no          | 12-10 | 12.0-6.0     | 13.0 | 18.0 | 21.0 | 6.0  | 1.0 | 100         |
| 63204235       | KB10-5R DIN 46234    | 10        | no          | 8     | 5.0-10.0     | 5.3  | 10.0 | 16.0 | 8.0  | 1.1 | 100         |
| 63204245       | KB10-6R DIN 46234    | 10        | no          | 8     | 6.0-10.0     | 6.5  | 11.0 | 17.0 | 8.0  | 1.1 | 100         |
| 63204255       | KB10-8R DIN 46234    | 10        | no          | 8     | 8.0-10.0     | 8.4  | 14.0 | 20.0 | 8.0  | 1.1 | 100         |
| 63204265       | KB10-10R DIN 46234   | 10        | no          | 8     | 10.0-10.0    | 10.5 | 18.0 | 21.0 | 8.0  | 1.1 | 100         |
| 63204275       | KB10-12R DIN 46234   | 10        | no          | 8     | 12.0-10.0    | 13.0 | 22.0 | 23.0 | 8.0  | 1.1 | 100         |
| 63204285       | KB16-5R DIN 46234    | 16        | no          | 6     | 5.0-16.0     | 5.3  | 11.0 | 20.0 | 10.0 | 1.2 | 100         |
| 63204295       | KB16-6R DIN 46234    | 16        | no          | 6     | 6.0-16.0     | 6.5  | 11.0 | 20.0 | 10.0 | 1.2 | 100         |
| 63204305       | KB16-8R DIN 46234    | 16        | no          | 6     | 8.0-16.0     | 8.4  | 14.0 | 22.0 | 10.0 | 1.2 | 100         |
| 63204315       | KB16-10R DIN 46234   | 16        | no          | 6     | 10.0-16.0    | 10.5 | 18.0 | 24.0 | 10.0 | 1.2 | 100         |
| 63204325       | KB16-12R DIN 46234   | 16        | no          | 6     | 12.0-16.0    | 13.0 | 22.0 | 26.0 | 10.0 | 1.2 | 100         |
| 63204335       | KB25-5R DIN 46234    | 25        | no          | 4     | 5.0-25.0     | 5.3  | 12.0 | 25.0 | 11.0 | 1.5 | 100         |
| 63204345       | KB25-6R DIN 46234    | 25        | no          | 4     | 6.0-25.0     | 6.5  | 12.0 | 25.0 | 11.0 | 1.5 | 100         |
| 63204355       | KB25-8R DIN 46234    | 25        | no          | 4     | 8.0-25.0     | 8.4  | 16.0 | 25.0 | 11.0 | 1.5 | 100         |
| 63204365       | KB25-10R DIN 46234   | 25        | no          | 4     | 10.0-25.0    | 10.5 | 18.0 | 26.0 | 11.0 | 1.5 | 100         |
| 63204375       | KB25-12R DIN 46234   | 25        | no          | 4     | 12.0-25.0    | 13.0 | 31.0 | 31.0 | 11.0 | 1.5 | 100         |
| 63204385       | KB25-16R DIN 46234   | 25        | no          | 4     | 16.0-25.0    | 17.0 | 35.0 | 36.0 | 11.0 | 1.5 | 100         |
| 63204395       | KB35-6R DIN 46234    | 35        | no          | 2     | 6.0-35.0     | 6.5  | 15.0 | 26.0 | 12.0 | 1.6 | 100         |
| 63204405       | KB35-8R DIN 46234    | 35        | no          | 2     | 8.0-35.0     | 8.4  | 16.0 | 26.0 | 12.0 | 1.6 | 100         |
| 63204415       | KB35-10R DIN 46234   | 35        | no          | 2     | 10.0-35.0    | 10.5 | 18.0 | 27.0 | 12.0 | 1.6 | 100         |
| 63204425       | KB35-12R DIN 46234   | 35        | no          | 2     | 12.0-35.0    | 13.0 | 22.0 | 31.0 | 12.0 | 1.6 | 100         |
| 63204435       | KB35-16R DIN 46234   | 35        | no          | 2     | 16.0-35.0    | 17.0 | 28.0 | 36.0 | 12.0 | 1.6 | 100         |
| 63204445       | KB50-6R DIN 46234    | 50        | no          | 1/0   | 6.0-50.0     | 6.5  | 18.0 | 34.0 | 16.0 | 1.8 | 100         |
| 63204455       | KB50-8R DIN 46234    | 50        | no          | 1/0   | 8.0-50.0     | 8.4  | 18.0 | 34.0 | 16.0 | 1.8 | 100         |
| 63204465       | KB50-10R DIN 46234   | 50        | no          | 1/0   | 10.0-50.0    | 10.5 | 18.0 | 34.0 | 16.0 | 1.8 | 100         |
| 63204475       | KB50-12R DIN 46234   | 50        | no          | 1/0   | 12.0-50.0    | 13.0 | 22.0 | 36.0 | 16.0 | 1.8 | 100         |
| 63204485       | KB50-16R DIN 46234   | 50        | no          | 1/0   | 16.0-50.0    | 17.0 | 28.0 | 40.0 | 16.0 | 1.8 | 100         |
| 63204495       | KB70-6R DIN 46234    | 70        | no          | 2/0   | 6.0-70.0     | 6.5  | 22.0 | 38.0 | 18.0 | 2.0 | 100         |
| 63204505       | KB70-8R DIN 46234    | 70        | no          | 2/0   | 8.0-70.0     | 8.4  | 22.0 | 38.0 | 18.0 | 2.0 | 100         |
| 63204515       | KB70-10R DIN 46234   | 70        | no          | 2/0   | 10.0-70.0    | 10.5 | 22.0 | 38.0 | 18.0 | 2.0 | 100         |
| 63204525       | KB70-12R DIN 46234   | 70        | no          | 2/0   | 12.0-70.0    | 13.0 | 22.0 | 38.0 | 18.0 | 2.0 | 100         |
| 63204535       | KB70-16R DIN 46234   | 70        | no          | 2/0   | 16.0-70.0    | 17.0 | 28.0 | 42.0 | 18.0 | 2.0 | 100         |
| 63204545       | KB95-8R DIN 46234    | 95        | no          | 3/0   | 8.0-95.0     | 8.4  | 24.0 | 42.0 | 20.0 | 2.5 | 50          |
| 63204555       | KB95-10R DIN 46234   | 95        | no          | 3/0   | 10.0-95.0    | 10.5 | 24.0 | 42.0 | 20.0 | 2.5 | 50          |
| 63204565       | KB95-12R DIN 46234   | 95        | no          | 3/0   | 12.0-95.0    | 13.0 | 24.0 | 42.0 | 20.0 | 2.5 | 50          |
| 63204575       | KB95-16R DIN 46234   | 95        | no          | 3/0   | 16.0-95.0    | 17.0 | 28.0 | 44.0 | 20.0 | 2.5 | 50          |
| 63204585       | KB120-8R DIN 46234   | 120       | no          | 4/0   | 8.0-120.0    | 8.4  | 24.0 | 44.0 | 22.0 | 3.0 | 25          |
| 63204595       | KB120-10R DIN 46234  | 120       | no          | 4/0   | 10.0-120.0   | 10.5 | 24.0 | 44.0 | 22.0 | 3.0 | 25          |
| 63204605       | KB120-12R DIN 46234  | 120       | no          | 4/0   | 12.0-120.0   | 13.0 | 24.0 | 44.0 | 22.0 | 3.0 | 25          |
| 63204615       | KB120-16R DIN 46234  | 120       | no          | 4/0   | 16.0-120.0   | 17.0 | 28.0 | 48.0 | 22.0 | 3.0 | 25          |
| 63204625       | KB150-10R DIN 46234  | 150       | no          | 5/0   | 10.0-150.0   | 10.5 | 30.0 | 50.0 | 24.0 | 3.2 | 25          |
| 63204635       | KB150-12R DIN 46234  | 150       | no          | 5/0   | 12.0-150.0   | 13.0 | 30.0 | 50.0 | 24.0 | 3.2 | 25          |
| 63204645       | KB150-16R DIN 46234  | 150       | no          | 5/0   | 16.0-150.0   | 17.0 | 30.0 | 50.0 | 24.0 | 3.2 | 25          |
| 63204655       | KB185-10R DIN 46234  | 185       | no          | 6/0   | 10.0-185.0   | 10.5 | 36.0 | 50.0 | 28.0 | 3.5 | 20          |
| 63204665       | KB185-12R DIN 46234  | 185       | no          | 6/0   | 12.0-185.0   | 13.0 | 36.0 | 50.0 | 28.0 | 3.5 | 20          |
| 63204675       | KB185-16R DIN 46234  | 185       | no          | 6/0   | 16.0-185.0   | 17.0 | 36.0 | 50.0 | 28.0 | 3.5 | 20          |
| 63204685       | KB240-10R DIN 46234  | 240       | no          | 7/0   | 10.0-240.0   | 10.5 | 38.0 | 56.0 | 32.0 | 4.0 | 10          |
| 63204695       | KB240-12R DIN 46234  | 240       | no          | 7/0   | 12.0-240.0   | 13.0 | 38.0 | 56.0 | 32.0 | 4.0 | 10          |
| 63204705       | KB240-16R DIN 46234  | 240       | no          | 7/0   | 16.0-240.0   | 17.0 | 38.0 | 56.0 | 32.0 | 4.0 | 10          |

Photographs are not to scale and do not represent detailed images of the respective products.

## Panel connectors insulated



Panel connectors insulated

### Benefits

- For first-class connection with simple operating principle
- Hard-soldered cable lug that can be pressed in any position
- Thus providing the best electrical conductivity (least resistance)
- No risk of bent and crushed cables

### Application range

- For breaking through the oxidation layer on the conductor when crimping

### Approvals



- File Number E334111, see table

### Design

- For higher tensile strength
- For good strength and improved current conduction
- Flat receptacle material in contact pressing is double-folded and hard-soldered
- EASY-ENTRY funnel shape of the plastic sleeve enables simple, fast and safe insertion of the conductor
- 1 = push-on female terminal, type H
- 2 = push-on piggyback terminal, type T
- 3 = push-on male terminal, type M
- 4 = push-on female terminal (fully insulated), type V

### Suitable tools

- DSA 0110 + DSA 0725 crimping pliers refer to page 924
- CSA 0760 + KSA 0760 crimping pliers refer to page 924

### Technical data



**Material**  
Nickel-plated brass  
Polycarbonate insulation

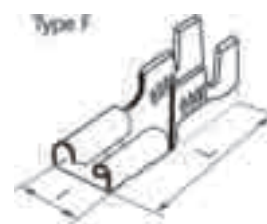
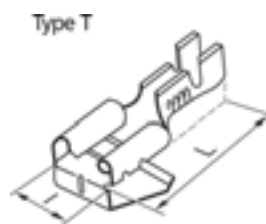
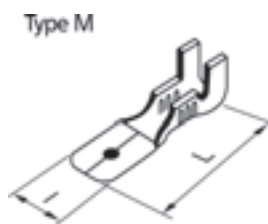


**Temperature range**  
-40°C to +100°C

| Article number                                                      | Article designation | For mm <sup>2</sup> | UL approval | Footnote | Core colour | Blade connection | d mm | L    | W mm | Pieces / PU |
|---------------------------------------------------------------------|---------------------|---------------------|-------------|----------|-------------|------------------|------|------|------|-------------|
| <b>Blade receptacle according to DIN 46245 and similar (type H)</b> |                     |                     |             |          |             |                  |      |      |      |             |
| 63101020                                                            | L-RA 29 H           | 0.50 - 1.50         | yes         |          | red         | 2.8 x 0.5        | 3.3  | 18.5 | 3.5  | 100         |
| 63101010                                                            | L-RA 28 H           | 0.50 - 1.50         | yes         |          | red         | 2.8 x 0.8        | 3.3  | 18.5 | 3.5  | 100         |
| 63101030                                                            | L-RA 49 H           | 0.50 - 1.50         | yes         | 1.3      | red         | 4.8 x 0.5        | 3.7  | 19.0 | 5.7  | 100         |
| 63101040                                                            | L-RA 48 H           | 0.50 - 1.50         | yes         | 1.3      | red         | 4.8 x 0.8        | 3.7  | 19.0 | 5.7  | 100         |
| 63101050                                                            | L-RA 63 H           | 0.50 - 1.50         | yes         |          | red         | 6.3 x 0.8        | 4.0  | 20.0 | 7.6  | 100         |
| 63101060                                                            | L-RB 48 H           | 1.50 - 2.50         | yes         | 1.3      | blue        | 4.8 x 0.5        | 4.4  | 19.0 | 5.7  | 100         |
| 63101070                                                            | L-RB 49 H           | 1.50 - 2.50         | yes         | 1.3      | blue        | 4.8 x 0.8        | 4.4  | 19.0 | 5.7  | 100         |
| 63101080                                                            | L-RB 63 H           | 1.50 - 2.50         | yes         |          | blue        | 6.3 x 0.8        | 4.5  | 20.0 | 7.6  | 100         |
| 63101110                                                            | L-RC 63 H           | 4.00 - 6.00         | yes         |          | yellow      | 6.3 x 0.8        | 6.4  | 24.0 | 7.6  | 100         |
| 63101120                                                            | L-RC 95 H           | 4.00 - 6.00         | no          |          | yellow      | 9.5 x 1.2        | 6.2  | 31.0 | 11.0 | 100         |
| <b>Blade connector (type M)</b>                                     |                     |                     |             |          |             |                  |      |      |      |             |
| 63103010                                                            | L-RA 63 M           | 0.50 - 1.50         | yes         |          | red         | 6.3 x 0.8        | 4.0  | 22.0 |      | 100         |
| 63103020                                                            | L-RB 63 M           | 1.50 - 2.50         | yes         |          | blue        | 6.3 x 0.8        | 4.5  | 22.0 |      | 100         |
| 63103040                                                            | L-RC 63 M           | 4.00 - 6.00         | yes         | 1.3      | yellow      | 6.3 x 0.8        | 6.3  | 25.0 |      | 100         |
| <b>Blade receptacle branch (type T)</b>                             |                     |                     |             |          |             |                  |      |      |      |             |
| 63102010                                                            | L-RA 63 T           | 0.50 - 1.50         | no          | 1.3      | red         | 6.3 x 0.8        | 3.7  | 22.0 | 7.4  | 100         |
| 63102020                                                            | L-RB 63 T           | 1.50 - 2.50         | no          | 1.3      | blue        | 6.3 x 0.8        | 4.3  | 22.0 | 7.5  | 50          |
| <b>Fully insulated blade receptacle (type V)</b>                    |                     |                     |             |          |             |                  |      |      |      |             |
| 61794951                                                            | L-RA 29 V           | 0.50 - 1.50         | yes         | 2.3      | red         | 2.8 x 0.5        | 3.8  | 19.3 | 5.0  | 100         |
| 61794952                                                            | L-RA 28 V           | 0.50 - 1.50         | yes         | 2.3      | red         | 2.8 x 0.8        | 3.8  | 19.3 | 5.0  | 100         |
| 61794953                                                            | L-RA 49 V           | 0.50 - 1.50         | yes         | 2.3      | red         | 4.8 x 0.5        | 3.6  | 20.2 | 7.4  | 100         |
| 61794955                                                            | L-RA 48 V           | 0.50 - 1.50         | yes         | 2.3      | red         | 4.8 x 0.8        | 3.6  | 20.2 | 7.4  | 100         |
| 61794960                                                            | L-RA 63 V           | 0.50 - 1.50         | yes         |          | red         | 6.3 x 0.8        | 4.4  | 21.0 | 8.8  | 100         |
| 61794968                                                            | L-RB 49 V           | 1.50 - 2.50         | yes         | 2.3      | blue        | 4.8 x 0.5        | 3.9  | 19.5 | 7.1  | 100         |
| 61794969                                                            | L-RB 48 V           | 1.50 - 2.50         | yes         | 2.3      | blue        | 4.8 x 0.8        | 3.9  | 19.5 | 7.1  | 100         |
| 61794970                                                            | L-RB 63 V           | 1.50 - 2.50         | yes         |          | blue        | 6.3 x 0.8        | 4.5  | 21.0 | 8.8  | 100         |
| 61794971                                                            | L-RC 63 V           | 4.00 - 6.00         | yes         | 2.3      | yellow      | 6.3 x 0.8        | 5.3  | 26.0 | 9.0  | 100         |

1 = PVC insulation, not easy-entry; 2 = polyamide (nylon) insulation, not easy-entry; 3 = unsoldered, with additional brass sleeve  
Photographs are not to scale and do not represent detailed images of the respective products.

## Panel connectors non-insulated



### Panel connectors non-insulated

#### Benefits

- Soft and transparent PVC insulating sleeves provide electrical safety

#### Approvals



#### Suitable tools

- DRB 0505 + DRB 0115 crimping pliers refer to page 925
- KRB 0560 crimping pliers refer to page 925

#### Technical data



**Material**  
Brass  
Electrolytically tinned



**Temperature range**  
max. +200 °C

| Article number                                 | Article designation | For mm²     | UL approval | Tool     | Blade connection | I   | L    | Pieces / PU |
|------------------------------------------------|---------------------|-------------|-------------|----------|------------------|-----|------|-------------|
| <b>Blade receptacle according to DIN 46247</b> |                     |             |             |          |                  |     |      |             |
| 63501060                                       | L-BA 285 F          | 0.50 - 1.00 | no          | DRB 0155 | 2.8 x 0.5        | 5.0 | 12.7 | 100         |
| 63501070                                       | L-BA 288 F          | 0.50 - 1.00 | no          | DRB 0155 | 2.8 x 0.8        | 5.0 | 12.7 | 100         |
| 63501080                                       | L-BA 485 F          | 0.75 - 1.50 | no          | KRB 0560 | 4.8 x 0.5        | 6.4 | 16.0 | 100         |
| 63501090                                       | L-BA 488 F          | 0.75 - 1.50 | no          | KRB 0560 | 4.8 x 0.8        | 6.4 | 16.0 | 100         |
| 63501120                                       | L-BA 638 F          | 0.75 - 1.50 | no          | KRB 0560 | 6.3 x 0.8        | 7.6 | 19.0 | 100         |
| 63501130                                       | L-BB 638 F          | 1.50 - 2.50 | no          | KRB 0560 | 6.3 x 0.8        | 7.6 | 19.0 | 100         |
| 63501140                                       | L-BC 638 F          | 4.00 - 6.00 | no          | KRB 0560 | 6.3 x 0.8        | 7.6 | 19.0 | 100         |
| <b>Blade receptacle with branching</b>         |                     |             |             |          |                  |     |      |             |
| 63501150                                       | L-BA 638 T          | 0.50 - 1.00 | no          | KRB 0560 | 6.3 x 0.8        | 7.5 | 19.0 | 100         |
| <b>Panel connectors (Plugs)</b>                |                     |             |             |          |                  |     |      |             |
| 63501071                                       | L-BA 288 M          | 0.50 - 1.00 | no          | DRB 0155 | 2.8 x 0.8        | 5.5 | 13.0 | 100         |
| 63501520                                       | L-BA 638 M          | 0.50 - 1.00 | no          | KRB 0560 | 6.3 x 0.8        | 8.0 | 19.0 | 100         |
| 63501530                                       | L-BB 638 M          | 1.50 - 2.50 | no          | KRB 0560 | 6.3 x 0.8        | 8.0 | 19.0 | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

## ISO-sleeve



#### Benefits

- Soft and transparent PVC insulating sleeves provide electrical safety

#### Application range

- For non-insulated blade connectors

#### Approvals



| Article number | Article designation | UL approval | Blade connection | For cable Ø (mm) | Pieces / PU |
|----------------|---------------------|-------------|------------------|------------------|-------------|
| 61794980       | ISO sleeve          | no          | 6.3              | 3.2              | 500         |

Photographs are not to scale and do not represent detailed images of the respective products.

## Panel connectors with latch

### Benefits

- For first-class connection with simple operating principle

### Approvals



### Suitable tools

- DRB 0505 + DRB 0115 crimping pliers refer to page 925

### Technical data



**Material**  
Brass



**Temperature range**  
Typ M: max. +90 °C  
Typ F: max. +110 °C



| Article number                                     | Article designation | For mm²     | UL approval | Blade connection | I    | L    | Pieces / PU |
|----------------------------------------------------|---------------------|-------------|-------------|------------------|------|------|-------------|
| <b>Blade connector with locking notch (type M)</b> |                     |             |             |                  |      |      |             |
| 63501020                                           | BM 638 M            | 1.50 - 2.50 | no          | 6.3 x 0.8        | 16.0 | 28.0 | 100         |
| 63501022                                           | BM-C 638 M          | 4.00 - 6.00 | no          | 6.3 x 0.8        | 16.0 | 28.0 | 100         |
| <b>Blade receptacle (type F)</b>                   |                     |             |             |                  |      |      |             |
| 63501010                                           | B 638 F             | 1.50 - 2.50 | no          | 6.3 x 0.8        | 7.5  | 19.0 | 100         |
| 63501012                                           | B-C 638 F           | 4.00 - 6.00 | no          | 6.3 x 0.8        | 7.5  | 19.0 | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

### Similar products

- Panel connectors, non-insulated

## Panel connector sockets Type M / Type F

### Benefits

- Quick and easy separation of connection
- Together with blade connectors, these blade connector strips enable secure and easy assembly
- New connections can be made easily without any confusion

### Technical data



**Material**  
Polyamide



**Temperature range**  
max. +105 °C



### Approvals



| Article number                          | Article designation | UL approval | Number of pins | Width W (mm) | Height (mm) | Depth (mm) | Pieces / PU |
|-----------------------------------------|---------------------|-------------|----------------|--------------|-------------|------------|-------------|
| <b>Blade connector strips (type M)</b>  |                     |             |                |              |             |            |             |
| 63300100                                | 408-2 M             | no          | 2.0            | 15.3         | 13.2        | 32.2       | 100         |
| 63300110                                | 408-4 M             | no          | 4.0            | 27.5         | 16.8        | 32.6       | 100         |
| 63300120                                | 408-6 M             | no          | 6.0            | 31.2         | 18.8        | 32.9       | 100         |
| 63300130                                | 408-8 M             | no          | 8.0            | 40.4         | 18.8        | 33.1       | 100         |
| <b>Panel connector-sockets (type F)</b> |                     |             |                |              |             |            |             |
| 63300140                                | 408-2 F             | no          | 2.0            | 12.6         | 10.0        | 23.2       | 100         |
| 63300150                                | 408-4 F             | no          | 4.0            | 24.5         | 14.1        | 24.0       | 100         |
| 63300160                                | 408-6 F             | no          | 6.0            | 28.2         | 14.9        | 24.3       | 100         |
| 63300170                                | 408-8 F             | no          | 8.0            | 37.4         | 15.4        | 24.4       | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

## Connection and crimping

Crimping tools for insulated connections

New

## DSA 0110 + DSA 0725 crimping pliers



## DSA 0110 + DSA 0725 crimping pliers

## ■ Benefits

- Suitable for left and right-handed users
- Less force required for perfect pressing
- Clearly marked press moulds

## ■ Application range

- Safety pressing pliers for insulated connections
- For insulated cable lugs, blade connectors and other connectors

## ■ Product features

- Emergency release, if the pressing operation needs to be interrupted

## ■ Approvals

- Tested in accordance with DIN standards

## ■ Design

- Cross-section of press matrix is embossed in the cable lugs for checking
- Pressing according to the forced finish system

## ■ Technical data



## General

Adjustable crimping pressure



## Note

Crimping profile: Oval

| Article number | Article designation | For mm <sup>2</sup> | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|-------------|-------------|-------------|
| 61722050       | DSA 0110            | 0,1 - 1,5           | 0.35        | 225         | 1           |
| 61722060       | DSA 0725            | 0,5 - 2,5           | 0.35        | 192         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- Panel connectors insulated refer to page 921
- Insulated cable lugs refer to page 919

New

## CSA 0760 + KSA 0760 crimping pliers



## CSA 0760 + KSA 0760 crimping pliers

## ■ Benefits

- Clearly marked press moulds
- Less power required due to special mechanism

## ■ Application range

- The Miniforce tool for insulated connections of 0.5 - 6 mm<sup>2</sup>

## ■ Product features

- Emergency release, if the pressing operation needs to be interrupted

## ■ Approvals

- Tested in accordance with DIN standard EN 60352-2

## ■ Design

- Cross-section of press matrix is embossed in the cable lugs for checking
- Tested for a minimum of 80,000 pressings
- Pressing according to the forced finish system
- KSA 0760:
- Comfort version with extremely long handles for two-handed operation

## ■ Technical data



## Note

Crimping profile: Oval

| Article number | Article designation                | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|------------------------------------|---------------------|------------------|-------------|-------------|-------------|
| 61722070       | CSA 0760                           | 0,5 - 6.00          | oval             | 0.5         | 220         | 1           |
| 61790910       | KSA 0760                           | 0,5 - 6.00          | oval             | 0.54        | 255         | 1           |
| 61751950       | Spare spring CSA/KSA/DSA 0760      | -                   |                  |             |             | 1           |
| 61722071       | Crimping insert for CSA + KSA 0760 | -                   |                  |             |             | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- Conductor end sleeves insulated refer to page 909
- Panel connectors insulated refer to page 921

**New**

## DRB 0505 + DRB 0115 crimping pliers



DRB 0505 + DRB 0115 crimping pliers

### Benefits

- Less force required for perfect pressing
- Locking function for faultless pressing
- Clearly marked press moulds

### Application range

- Also suitable for blade receptacles with latch
- Roll pressing pliers for non-insulated flat connectors with 2.8 connection

### Product features

- Emergency release, if the pressing operation needs to be interrupted

### Approvals

- Tested in accordance with DIN standard EN 60352-2

### Design

- Tested for a minimum of 50,000 pressings
- DRB 0115:
- Cross-section range: 0.1 - 1.5 mm<sup>2</sup>
- DRB 0505
- Cross-section range: 0.05 - 0.5 mm<sup>2</sup>

### Technical data



**General**  
Adjustable crimping pressure



**Note**  
Crimping profile: Roller pressing

| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | For blade connectors | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|------------------|----------------------|-------------|-------------|-------------|
| 61790930       | DRB 0505            | 0,05 - 0,5          | roller pressing  | 2.8                  | 0.35        | 192         | 1           |
| 61790940       | DRB 0115            | 0,1 - 1,5           | roller pressing  | 2.8                  | 0.35        | 192         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Panel connectors non-insulated refer to page 922
- Panel connectors with latch refer to page 923

**New**

## KRB 0560 crimping pliers



### Benefits

- Clearly marked press moulds
- Locking function for faultless pressing
- Handles suit both large and small hands
- Unique mechanism reduces the manual force from 450 N to 250 N

### Application range

- The convenient roll pressing pliers for non-insulated blade connectors of 0.5 - 6 mm<sup>2</sup> with connection 4.8 and 6.3

### Product features

- Emergency release, if the pressing operation needs to be interrupted

### Approvals

- Tested in accordance with DIN standard EN 60352-2

### Design

- Tested for a minimum of 80,000 pressings

### Technical data



**General**  
Adjustable crimping pressure



**Note**  
Crimping profile: Roller pressing

| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | For blade connectors | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|------------------|----------------------|-------------|-------------|-------------|
| 61791100       | KRBC 0560L complete | 0,5 - 6,0           | roller pressing  | 4,8 + 6,3            | 0,54        | 255         | 1           |
| 61790950       | KRB 0560            | 0,5 - 6,0           | roller pressing  | 4,8 + 6,3            | 0,54        | 255         | 1           |

Type KRB 0560L, with interchangeable positioning tool for various cable lugs, are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Panel connectors non-insulated refer to page 922

## Connection and crimping

Crimping tools for uninsulated connections

New

## DKB 0325 + DKB 0360 crimping pliers



## DKB 0325 + DKB 0360 crimping pliers

## ■ Benefits

- Locking function for faultless pressing
- Clearly marked press moulds
- Less force required for perfect pressing

## ■ Application range

- Safety pressing pliers for non-insulated connections
- For non-insulated cable lugs, other connectors and tubular cable lugs KR

## ■ Product features

- Emergency release, if the pressing operation needs to be interrupted

## ■ Approvals

- Tested in accordance with DIN standard EN 60352-2

## ■ Design

- Tested for a minimum of 50,000 pressings
- DKB 0360:
- Cross-section range: 0.25 - 6.0 mm<sup>2</sup>
- DKB 0325
- Cross-section range: 0.25 - 2.5 mm<sup>2</sup>

## ■ Technical data



## General

Adjustable crimping pressure



## Note

Crimping profile: Mandrel pressing

| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|-------------|-------------|
| 61722110       | DKB 0325            | 0,25 - 2,5          | mandrel pressing | 0.35        | 192         | 1           |
| 61790920       | DKB 0360            | 0,25 - 6.00         | mandrel pressing | 0.35        | 192         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- Panel connectors non-insulated refer to page 922

New

## KWB 4099 crimping pliers



## ■ Benefits

- Clearly marked press moulds
- Locking function for faultless pressing
- Handles suit both large and small hands
- Unique mechanism reduces the manual force from 450 N to 250 N

## ■ Application range

- The Miniforce tool for non-insulated connections of 4 - 10 mm<sup>2</sup>
- For non-insulated cable lugs, other connectors and tubular cable lugs KR

## ■ Product features

- Emergency release, if the pressing operation needs to be interrupted

## ■ Approvals

- Tested in accordance with DIN standard EN 60352-2

## ■ Design

- Tested for a minimum of 80,000 pressings

## ■ Technical data



## General

Adjustable crimping pressure



## Note

Crimping profile: W-pressing

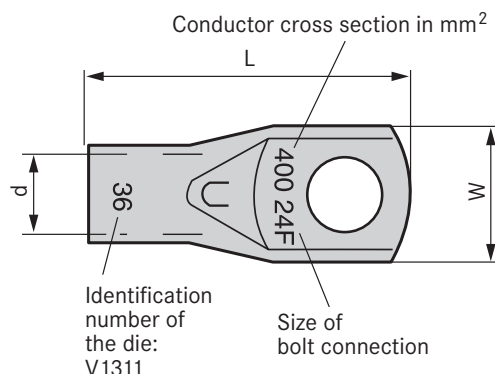
| Article number | Article designation | For mm <sup>2</sup> | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|-------------|-------------|-------------|
| 61722130       | KWB 4099            | 4.00 - 10.00        | 0.5         | 220         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- Panel connectors non-insulated refer to page 922

## Tube cable lugs KR/ KRT/ KRF



Tube cable lugs KR/ KRT/ KRF

### Benefits

- Premium cables and wires for railway vehicles

### Application range

- KR**  
For fine and multi-wire copper conductors with a cross-sectional range of 0.75 - 10.00 mm²
- KRT**  
For multi-wire copper conductors with a cross-sectional range of 10 - 400 mm²
- KRF**  
For fine-wire copper conductors with a cross-sectional range of 16 - 400 mm²

### Approvals



- File Number E205350, see table

### Design

- For fine and multi-wire copper conductors with a cross section range of 0.75 - 10 mm²

### Suitable tools

- T 2288 pressing pliers refer to page 929
- V 1311 pressing pliers, hydraulic refer to page 930

### Technical data



**General**  
Inspection hole



**Approvals**  
UL-recognised



**Material**  
Tinned electrolyte copper



**Temperature range**  
Temperature range up to +90°C  
Working temperature: 110°C, max. +200°C

| Article number | Article designation | Screw hole Ø (mm) | UL approval | Length (mm) | Pressing dies | d mm | W mm | Pieces / PU |
|----------------|---------------------|-------------------|-------------|-------------|---------------|------|------|-------------|
| <b>KR</b>      |                     |                   |             |             |               |      |      |             |
| 61796480       | KR/0,75             | 3                 | no          | 16          |               | 1.3  | 6.0  | 100         |
| 61796490       | KR/0,75             | 4                 | no          | 16          |               | 1.3  | 6.0  | 100         |
| 61796500       | KR/1,5              | 3                 | yes         | 16          |               | 1.8  | 6.5  | 100         |
| 61796510       | KR/1,5              | 4                 | yes         | 17          |               | 1.8  | 6.5  | 100         |
| 61796520       | KR/1,5              | 5                 | yes         | 18          |               | 1.8  | 7.5  | 100         |
| 61796530       | KR/2,5              | 3                 | yes         | 17          |               | 2.3  | 7.5  | 100         |
| 61796540       | KR/2,5              | 4                 | yes         | 18          |               | 2.3  | 7.5  | 100         |
| 61796550       | KR/2,5              | 5                 | yes         | 19          |               | 2.3  | 8.5  | 100         |
| 61796560       | KR/2,5              | 6                 | yes         | 19          |               | 2.3  | 8.5  | 100         |
| 61796570       | KR/4                | 4                 | yes         | 21          |               | 3.0  | 8.5  | 100         |
| 61796580       | KR/4                | 5                 | yes         | 22          |               | 3.0  | 9.0  | 100         |
| 61796590       | KR/4                | 6                 | yes         | 23          |               | 3.0  | 10.0 | 100         |
| 61796600       | KR/6                | 4                 | yes         | 22          |               | 4.0  | 9.5  | 100         |
| 61796610       | KR/6                | 5                 | yes         | 22          |               | 4.0  | 9.5  | 100         |
| 61796620       | KR/6                | 6                 | yes         | 23          |               | 4.0  | 10.0 | 100         |
| 61796630       | KR/6                | 8                 | yes         | 30          |               | 4.0  | 13.5 | 100         |
| 61796631       | KR/10               | 5                 | yes         | 29          | B 7 / B 8     | 5.0  | 11.5 | 100         |
| 61796632       | KR/10               | 6                 | yes         | 29          | B 7 / B 8     | 5.0  | 11.5 | 100         |
| 61796633       | KR/10               | 8                 | yes         | 33          | B 7 / B 8     | 5.0  | 13.5 | 100         |
| <b>KRT</b>     |                     |                   |             |             |               |      |      |             |
| 61796640       | KRT/10              | 5                 | yes         | 29          | B 7           | 4.5  | 10.0 | 100         |
| 61796650       | KRT/10              | 6                 | yes         | 29          | B 7           | 4.5  | 10.0 | 100         |
| 61796660       | KRT/10              | 8                 | yes         | 34          | B 7           | 4.5  | 13.0 | 100         |
| 61796670       | KRT/10              | 10                | yes         | 34          | B 7           | 4.5  | 16.0 | 100         |
| 61796680       | KRT/10              | 12                | yes         | 41          | B 7           | 4.5  | 19.0 | 100         |
| 61796690       | KRT/16              | 5                 | yes         | 34          | B 8.5         | 5.5  | 12.0 | 100         |
| 61796700       | KRT/16              | 6                 | yes         | 34          | B 8.5         | 5.5  | 12.0 | 100         |
| 61796710       | KRT/16              | 8                 | yes         | 39          | B 8.5         | 5.5  | 15.0 | 100         |
| 61796720       | KRT/16              | 10                | yes         | 39          | B 8.5         | 5.5  | 16.0 | 100         |
| 61796730       | KRT/16              | 12                | yes         | 44          | B 8.5         | 5.5  | 19.0 | 100         |
| 61796740       | KRT/25              | 6                 | yes         | 43          | B 10          | 7.0  | 14.0 | 100         |
| 61796750       | KRT/25              | 8                 | yes         | 43          | B 10          | 7.0  | 15.0 | 100         |
| 61796760       | KRT/25              | 10                | yes         | 43          | B 10          | 7.0  | 16.0 | 100         |
| 61796770       | KRT/25              | 12                | yes         | 48          | B 10          | 7.0  | 19.0 | 100         |
| 61796780       | KRT/35              | 6                 | yes         | 48          | B 12          | 8.5  | 17.0 | 100         |
| 61796790       | KRT/35              | 8                 | yes         | 48          | B 12          | 8.5  | 17.0 | 100         |
| 61796800       | KRT/35              | 10                | yes         | 48          | B 12          | 8.5  | 19.0 | 100         |
| 61796810       | KRT/35              | 12                | yes         | 53          | B 12          | 8.5  | 19.0 | 50          |
| 61796820       | KRT/50              | 6                 | yes         | 53          | B 14          | 10.0 | 20.0 | 50          |
| 61796830       | KRT/50              | 8                 | yes         | 53          | B 14          | 10.0 | 20.0 | 50          |
| 61796840       | KRT/50              | 10                | yes         | 53          | B 14          | 10.0 | 20.0 | 50          |
| 61796850       | KRT/50              | 12                | yes         | 56          | B 14          | 10.0 | 22.0 | 50          |
| 61796860       | KRT/70              | 8                 | yes         | 55          | B 16          | 12.0 | 23.0 | 50          |
| 61796870       | KRT/70              | 10                | yes         | 55          | B 16          | 12.0 | 23.0 | 50          |
| 61796880       | KRT/70              | 12                | yes         | 58          | B 16          | 12.0 | 23.0 | 50          |
| 61796890       | KRT/95              | 8                 | yes         | 60          | B 18          | 13.5 | 26.0 | 50          |
| 61796900       | KRT/95              | 10                | yes         | 60          | B 18          | 13.5 | 26.0 | 50          |
| 61796910       | KRT/95              | 12                | yes         | 63          | B 18          | 13.5 | 26.0 | 50          |

## Connection and crimping

## Tube cable lugs

| Article number | Article designation | Screw hole Ø (mm) | UL approval | Length (mm) | Pressing dies | d mm | W mm | Pieces / PU |
|----------------|---------------------|-------------------|-------------|-------------|---------------|------|------|-------------|
| 61796920       | KRT/95              | 16                | yes         | 69          | B 18          | 13.5 | 28.0 | 50          |
| 61796930       | KRT/120             | 10                | yes         | 64          | B 19          | 15.0 | 28.0 | 50          |
| 61796940       | KRT/120             | 12                | yes         | 64          | B 19          | 15.0 | 28.0 | 50          |
| 61796950       | KRT/120             | 16                | yes         | 70          | B 19          | 15.0 | 28.0 | 50          |
| 61796960       | KRT/150             | 12                | no          | 76          | B 22          | 17.0 | 32.0 | 25          |
| 61796970       | KRT/150             | 16                | no          | 76          | B 22          | 17.0 | 32.0 | 25          |
| 61796980       | KRT/150             | 20                | no          | 83          | B 22          | 17.0 | 32.0 | 25          |
| 61796990       | KRT/185             | 12                | no          | 79          | 13 B 24       | 19.0 | 35.0 | 25          |
| 61797000       | KRT/185             | 16                | no          | 79          | 13 B 24       | 19.0 | 35.0 | 25          |
| 61797010       | KRT/185             | 20                | no          | 86          | 13 B 24       | 19.0 | 35.0 | 25          |
| 61797020       | KRT/240             | 12                | no          | 86          | 13 B 26       | 21.0 | 38.0 | 25          |
| 61797030       | KRT/240             | 16                | no          | 86          | 13 B 26       | 21.0 | 38.0 | 25          |
| 61797040       | KRT/240             | 20                | no          | 93          | 13 B 26       | 21.0 | 38.0 | 25          |
| 61797050       | KRT/300             | 16                | no          | 100         | 13 B 30       | 24.0 | 44.0 | 10          |
| 61797080       | KRT/400             | 20                | no          | 114         | 13 B 32       | 26.0 | 48.0 | 10          |
| <b>KRF</b>     |                     |                   |             |             |               |      |      |             |
| 61803020       | KRF/16              | 6                 | yes         | 33          | B 9           | 6.0  | 13.0 | 100         |
| 61803030       | KRF/16              | 8                 | yes         | 33          | B 9           | 6.0  | 13.0 | 100         |
| 61803040       | KRF/16              | 10                | yes         | 38          | B 9           | 6.0  | 16.0 | 100         |
| 61803050       | KRF/16              | 12                | yes         | 47          | B 9           | 6.0  | 22.0 | 100         |
| 61803060       | KRF/25              | 6                 | yes         | 37          | B 11          | 8.0  | 16.0 | 100         |
| 61803070       | KRF/25              | 8                 | yes         | 38          | B 11          | 8.0  | 16.0 | 100         |
| 61803080       | KRF/25              | 10                | yes         | 42          | B 11          | 8.0  | 17.0 | 100         |
| 61803090       | KRF/25              | 12                | yes         | 47          | B 11          | 8.0  | 22.0 | 100         |
| 61803110       | KRF/35              | 6                 | yes         | 45          | B 13          | 9.0  | 18.0 | 100         |
| 61803120       | KRF/35              | 8                 | yes         | 47          | B 13          | 9.0  | 18.0 | 100         |
| 61803130       | KRF/35              | 10                | yes         | 45          | B 13          | 9.0  | 18.0 | 100         |
| 61803140       | KRF/35              | 12                | yes         | 52          | B 13          | 9.0  | 22.0 | 100         |
| 61803160       | KRF/50              | 8                 | yes         | 50          | B 14.4        | 11.0 | 21.0 | 100         |
| 61803170       | KRF/50              | 10                | yes         | 50          | B 14.5        | 11.0 | 21.0 | 100         |
| 61803180       | KRF/50              | 12                | yes         | 53          | B 14.5        | 11.0 | 21.0 | 100         |
| 61803190       | KRF/50              | 16                | yes         | 59          | B 14.5        | 11.0 | 27.0 | 100         |
| 61803200       | KRF/70              | 8                 | yes         | 55          | B 17          | 13.0 | 25.0 | 50          |
| 61803210       | KRF/70              | 10                | yes         | 55          | B 17          | 13.0 | 25.0 | 50          |
| 61803220       | KRF/70              | 12                | yes         | 58          | B 17          | 13.0 | 25.0 | 50          |
| 61803230       | KRF/70              | 16                | yes         | 64          | B 17          | 13.0 | 28.0 | 50          |
| 61803240       | KRF/95              | 10                | yes         | 69          | B 20          | 15.0 | 29.0 | 50          |
| 61803250       | KRF/95              | 12                | yes         | 69          | B 20          | 15.0 | 29.0 | 50          |
| 61803260       | KRF/95              | 16                | yes         | 69          | B 20          | 15.0 | 29.0 | 50          |
| 61803270       | KRF/120             | 10                | yes         | 73          | B 22          | 17.0 | 32.0 | 25          |
| 61803280       | KRF/120             | 12                | yes         | 73          | B 22          | 17.0 | 32.0 | 25          |
| 61803290       | KRF/120             | 16                | yes         | 73          | B 22          | 17.0 | 32.0 | 25          |
| 61803300       | KRF/150             | 12                | yes         | 80          | B 25/13 B 25  | 19.0 | 36.0 | 25          |
| 61803310       | KRF/150             | 16                | yes         | 80          | B 25/13 B 25  | 19.0 | 36.0 | 25          |
| 61803330       | KRF/185             | 12                | yes         | 86          | 13 B 27       | 21.0 | 39.0 | 20          |
| 61803340       | KRF/185             | 16                | yes         | 86          | 13 B 27       | 21.0 | 39.0 | 20          |
| 61803350       | KRF/185             | 20                | yes         | 93          | 13 B 27       | 21.0 | 39.0 | 20          |
| 61803360       | KRF/240             | 12                | yes         | 95          | 13 B 30       | 22.5 | 42.0 | 10          |
| 61803370       | KRF/240             | 16                | yes         | 95          | 13 B 30       | 22.5 | 42.0 | 10          |
| 61803380       | KRF/240             | 20                | yes         | 95          | 13 B 30       | 22.5 | 42.0 | 10          |
| 61803390       | KRF/300             | 16                | yes         | 114         | 13 B 32       | 24.5 | 45.0 | 10          |
| 61803400       | KRF/300             | 20                | yes         | 114         | 13 B 32       | 24.5 | 45.0 | 10          |
| 61803420       | KRF/400             | 16                | yes         | 126         | 13 B 38       | 30.0 | 56.0 | 10          |
| 61803430       | KRF/400             | 20                | yes         | 126         | 13 B 38       | 30.0 | 56.0 | 10          |
| 61803440       | KRF/400             | 24                | yes         | 126         | 13 B 38       | 30.0 | 56.0 | 10          |

Photographs are not to scale and do not represent detailed images of the respective products.

#### ■ Similar products

- Cable lugs KB refer to page 920

## T 2288 pressing pliers

### Benefits

- Forced locking guarantees complete pressing
- Handy for on-site electric fitters
- Small size

### Application range

- For pressing copper connections of 10 - 25 mm<sup>2</sup>
- For pressing tube cable lugs (KRT) and butt connectors

### Approvals

- Tested in accordance with SEN standard 245010

### Technical data



**Note**  
Crimping profile: Hexagonal



| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|-------------|-------------|
| 61790961       | T 2288              | 10.0 - 25.0         | hexagon          | 0.6         | 300         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Tube cable lugs KR/ KRT/ KRF refer to page 927

## WT 3195 G pressing pliers, hydraulic

### Benefits

- One-hand operation possible by attaching the pliers to the workbench
- Reliable pressings due to the long lever and good transmission
- Settings for tube cable lugs (RK) and compression cable lugs (QK) are displayed on the pliers
- Safety system with built-in emergency release

### Application range

- The high-performance pressing pliers for tube and compression cable lugs of 6 - 95 mm<sup>2</sup>

### Product features

- Adjustable screw with fine threads for precise positioning of the press area

### Approvals

- Tested in accordance with DIN/SEN/BS/MIL-SPEC/UL standards

### Design

- Mechanical pressing tool with ratchet system
- Cross-section range: 6 - 95 mm<sup>2</sup>

### Technical data



**Note**  
Maximum pressing pressure: approx. 130 kN



**Info**  
Cross-section range: 6 - 95 mm<sup>2</sup>  
Crimping profile: Mandrel pressing



| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|-------------|-------------|
| 61743900       | WT 3195 G           | 6.0 - 95.0          | mandrel          | 2.35        | 500         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Tube cable lugs KR/ KRT/ KRF refer to page 927

## V 1311 pressing pliers, hydraulic



### Benefits

- Ergonomic handles
- Pressing head rotates by 180 degrees
- Automatic quick feed of pressing dies and mandrels
- Few tool parts, easy to change

### Application range

- System 1311 for pressing copper connections of 10 - 400 mm<sup>2</sup>

### Technical data



#### Note

Crimping profile: Hexagonal  
Pressing force: 130 kN (13 t)

### Design

- Without pressing dies and die holders

### Included

- Complete unit, no external pump required
- Included: FV 1311 bag

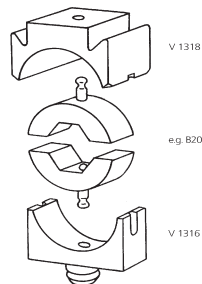
| Article number | Article designation | For mm <sup>2</sup> | Inner die holders | Outer die holders | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|---------------------|---------------------|-------------------|-------------------|-------------|-------------|-------------|
| 61795925       | V 1311              | 10.0 - 400.0        | V 1316            | V 1318            | 4.9         | 590         | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- Tube cable lugs KR/ KRT/ KRF refer to page 927
- Die holders for system 1311 refer to page 930
- Die holders for system 1311 refer to page 930

## Die holders for system 1311



### Application range

- Systems 1311 for pressing copper connections of 10 - 400 mm<sup>2</sup>

### Design

- For the V1311 pliers, both the inner die holder V1316 and the outer die holder V1318 are needed.
- These must be ordered separately.

### Suitable tools

- V 1311 pressing pliers, hydraulic refer to page 930

| Article number | Article designation     | For crimping tools | Dies per PU | PU |
|----------------|-------------------------|--------------------|-------------|----|
| 61795941       | V 1316 inner die-holder | V 1311             | 1           | 1  |
| 61795942       | V 1318 outer die-holder | V 1311             | 1           | 1  |

Component composition: First specify the pressing dies. Note that die holders are not needed for all pressing dies (depending on the cross section of the tube cable lugs to be pressed)  
Photographs are not to scale and do not represent detailed images of the respective products.

## Die holders for system 1311



### Application range

- Pressing dies for copper branch terminals are available upon request
- The 1311 system allows tube cable lugs (KR/ KRT/KRF), butt connectors (KS/KST/KSF) and copper branch terminals to be pressed. Inserts are supplied in pairs.

### Included

- KS/KST/KSF butt connectors are available upon request. Press inserts are delivered in pairs.

### Suitable tools

- V 1311 pressing pliers, hydraulic refer to page 930

| Article number           | Article designation | For KR/KS mm <sup>2</sup> | For KRT/KST mm <sup>2</sup> | For KRF/KSF mm <sup>2</sup> | PU |
|--------------------------|---------------------|---------------------------|-----------------------------|-----------------------------|----|
| Pressing dies - in pairs |                     |                           |                             |                             |    |
| 61795950                 | B7                  | 10.0                      | 10.0                        |                             | 1  |
| 61795951                 | B8                  | 10.0                      |                             | 10.0                        | 1  |
| 61795960                 | B8,5                |                           | 16.0                        |                             | 1  |
| 61795970                 | B9                  |                           |                             | 16.0                        | 1  |
| 61795971                 | B10                 |                           | 25.0                        |                             | 1  |
| 61795972                 | B11                 |                           |                             | 25.0                        | 1  |
| 61795980                 | B12                 |                           | 35.0                        |                             | 1  |
| 61795981                 | B13                 |                           |                             | 35.0                        | 1  |
| 61795990                 | B14                 |                           | 50.0                        |                             | 1  |
| 61795991                 | B14,5               |                           |                             | 50.0                        | 1  |
| 61796000                 | B16                 |                           | 70.0                        |                             | 1  |
| 61796001                 | B17                 |                           |                             | 70.0                        | 1  |
| 61796010                 | B18                 |                           | 95.0                        |                             | 1  |
| 61796021                 | B20                 |                           |                             | 95.0                        | 1  |
| 61796020                 | B19                 |                           | 120.0                       |                             | 1  |
| 61796030                 | B22                 |                           | 150.0                       | 120.0                       | 1  |
| 61796032                 | B25                 |                           |                             | 150.0                       | 1  |
| 61796031                 | B24                 |                           | 185.0                       |                             | 1  |
| 61796042                 | 13B25               |                           |                             | 185.0                       | 1  |
| 61796043                 | 13B26               |                           | 240.0                       |                             | 1  |
| 61796044                 | 13B30               |                           | 300.0                       | 240.0                       | 1  |
| 61796045                 | 13B32               |                           | 400.0                       | 300.0                       | 1  |
| 61796046                 | 13B38               |                           |                             | 400.0                       | 1  |

Component composition: First specify the pressing dies. Note that die holders are not needed for all pressing dies (depending on the cross section of the tube cable lugs to be pressed)  
Photographs are not to scale and do not represent detailed images of the respective products.

## Mobile crimp tool crimping pliers

### Benefits

- Crimping inserts can be changed without a tool in one simple operation
- Only one tool, but many types of crimping

### Product features

- Parallel crimping

### Design

- Tested with 20,000 crimping operations

### Included

- 19 various crimping inserts
- Crimping inserts in a practical box



| Article number | Article designation | Crimping insert                     | PU |
|----------------|---------------------|-------------------------------------|----|
| 62000100       | MCT incl. insert    | Conductor end sleeves 0.25 - 10 mm² | 1  |
| 62000105       | MCT without insert  |                                     | 1  |
| 62000102       | MCT case, empty     |                                     | 1  |

Photographs are not to scale and do not represent detailed images of the respective products.

## Mobile crimp tool - crimping inserts

### Benefits

- The crimping inserts are clearly labelled which minimises the risk of confusion
- Stored in the practical module boxes which can be joined together



### Info

- Professional tool with interchangeable inserts

### Design

- MCT crimping insert RJ45 can only be used for unscreened connectors

### Suitable tools

- Mobile crimp tool crimping pliers refer to page 931



| Article number | Article designation                        | Specification                       | Specification GB                   | PU |
|----------------|--------------------------------------------|-------------------------------------|------------------------------------|----|
| 62000110       | MCT insert cable lugs insul. 4300-3129     | 0.5 - 1.5/1.5 - 2.5 mm²             | AWG 22-16 / 16-14                  | 1  |
| 62000111       | MCT insert cable lugs insul. 4300-3128     | 0.1 - 0.4/4 - 6 mm²                 | AWG 26-22 / 12-10                  | 1  |
| 62000112       | MCT insert cable lugs non-insul. 4300-3142 | 0.5 - 2.5/4 - 6 mm²                 | AWG 12-10 / 22-14                  | 1  |
| 62000113       | MCT insert cable lugs non-insul. 4300-3137 | 0.75/1.5/2.5 mm²                    |                                    | 1  |
| 62000114       | MCT insert cable lugs non-insul. 4300-3139 | 4 / 6 / 10 mm²                      |                                    | 1  |
| 62000115       | MCT insert AEH 4300-3127                   | 0.25 - 10 mm²                       | AWG 24-8                           | 1  |
| 62000116       | MCT insert AEH 4300-3153                   | 16 - 25 mm²                         | AWG 6-4                            | 1  |
| 62000117       | MCT insert AEH 4300-3154                   | 35-50 mm²                           | AWG 2-0                            | 1  |
| 62000118       | MCT insert blade connectors 4300-3150      | 0.1 - 0.25/0.25 - 0.5/0.5 - 1.0 mm² | AWG 26-24 / 24-22 / 22-18          | 1  |
| 62000120       | MCT insert blade connectors 4300-3146      | 0.5 - 1.0/1.5 - 2.5/4 - 6 mm²       | AWG 22-18 / 16-14 / 12-10          | 1  |
| 62000121       | MCT insert LWL 4300-3141                   | 4.52/5.41/3.84/3.25 mm              | .178/.213/.151/.128 inch           | 1  |
| 62000122       | MCT insert BNC 4300-3140 RG 174/179        | 4.52/3.25/1.69/0.7 mm               | .178/.128/.067/.028 inch           | 1  |
| 62000123       | MCT insert BNC 4300-3136 RG 58/59/62/71    | 1.69/5.41/6.48 mm                   | .067/.213/.255 inch                | 1  |
| 62000124       | MCT insert BNC 4300-3138 RG 6/59           | 9.14/8.23 mm                        | .360/.324 inch                     | 1  |
| 62000125       | MCT insert RJ45 4300-3144                  | RJ-45 8/8                           | suitable for unscreened connectors | 1  |
| 62000126       | MCT insert RJ11 4300-3132                  | RJ-11 6/6, 6/4, 6/2                 |                                    | 1  |
| 62000127       | MCT insert contacts 4300-3147              | 0.14 - 4 mm²                        | AWG 26-12                          | 1  |
| 62000128       | MCT insert contacts 4300-3148              | 6 - 10 mm²                          | AWG 10-8                           | 1  |

Photographs are not to scale and do not represent detailed images of the respective products.

## PEW 12 universal tool



## ■ Benefits

- Manual power reduced by up to 30 %
- Ergonomic design
- Almost parallel locking movement of dies
- One and two-hand operation

## ■ Application range

- PEW 12 crimping system
- Practical pressing pliers for a wide range of cross-sections from 0.08 to 50 mm<sup>2</sup>
- These pliers allow you to press conventional standard cable lugs as well as AMP, COAX or Western connectors

## ■ Product features

- Chrome-plated pressing pliers
- Burnished press inserts

## ■ Approvals

- Reliable, DIN-compliant crimping connection

## ■ Included

- Case for 15 crimping dies, 4 locators

| Article number       | Article designation              | Suitable for:                              | Pressing range (mm <sup>2</sup> ) | AWG pressing range | Crimp dimensions (mm)        | Crimp sleeve Ø (mm)      | Pieces / PU |
|----------------------|----------------------------------|--------------------------------------------|-----------------------------------|--------------------|------------------------------|--------------------------|-------------|
| <b>Pliers</b>        |                                  |                                            |                                   |                    |                              |                          |             |
| 61813807             | PEW 12 burnished without inserts |                                            |                                   |                    |                              |                          | 1           |
| 61813819             | Case for PEW 12                  |                                            |                                   |                    |                              |                          | 1           |
| <b>Press inserts</b> |                                  |                                            |                                   |                    |                              |                          |             |
| 61813823             | PEW 12.2                         | uninsulated cable lugs                     | 0.25 - 2.5                        | 23 - 13            |                              |                          | 1           |
| 61813824             | PEW 12.3                         | uninsulated cable lugs                     | 4.0 - 10.0                        | 11 - 7             |                              |                          | 1           |
| 61813825             | PEW 12.31                        | uninsulated cable lugs                     | 1.5 - 10.0                        | 15 - 7             |                              |                          | 1           |
| 61813811             | PEW 12.32                        | uninsulated cable lugs                     | 0.5 - 10                          | 20 - 7             |                              |                          | 1           |
| 61813862             | PEW 12.33                        | uninsulated cable lugs                     | 16 - 25                           | 5 - 3              |                              |                          | 1           |
| 61813812             | PEW 12.6                         | insulated cable lugs                       | 0.5 - 6.0                         | 20 - 10            |                              |                          | 1           |
| 61813826             | PEW 12.63                        | insulated cable lugs                       | 10.0 - 16.0                       | 7 + 5              |                              |                          | 1           |
| 61814600             | PEW 12.45                        | uninsulated panel connectors 2.8 + 4.8     | 0.1 - 2.5                         | 27-13              |                              |                          | 1           |
| 61814601             | PEW 12.45 lokátor                | uninsulated panel connectors 2.8 + 4.8     |                                   |                    |                              |                          | 1           |
| 61813808             | PEW 12.5                         | uninsulated panel connectors 4.8 + 6.3     | 0.5 - 6.0                         | 20 - 10            |                              |                          | 1           |
| 61813809             | PEW 12.5 lokátor                 | uninsulated panel connectors 4.8 + 6.3     |                                   |                    |                              |                          | 1           |
| 61814604             | PEW 12.742                       | uninsulated panel connectors 6.3           | 0.5 - 1, 0.5 - 2.5                | 20 - 13            |                              |                          | 1           |
| 61813859             | PEW 12.745                       | uninsulated panel connectors 6.3           | 1.25 - 2.5, 3 - 6                 | 12 - 9             |                              |                          | 1           |
| 61813802             | PEW 12.9                         | insul. + non-insul. conductor end sleeves  | 0.5 - 6.0                         | 20 - 10            |                              |                          | 1           |
| 61813803             | PEW 12.91                        | insul. + non-insul. conductor end sleeves  | 10.0 - 25.0                       | 7 - 4              |                              |                          | 1           |
| 61813804             | PEW 12.92                        | insul. + non-insul. conductor end sleeves  | 35.0 - 50.0                       | 2 - 1/0            |                              |                          | 1           |
| 61813813             | PEW 12.10                        | COAX connector                             | RG 58, 59, 62, 71                 |                    | 5.4/6.48/1.72                | 6.4/7.6/2.1              | 1           |
| 61813814             | PEW 12.11                        | COAX connector                             | RG 174, 58                        |                    | 5.4/4.52/1.72                | 6.4/5.4/2.1              | 1           |
| 61813827             | PEW 12.111                       | COAX connector                             | RG 59, 6                          |                    | 8.23/6.48/1.72/1.07          | 9.4/7.6/2.1/1.3          | 1           |
| 61813816             | PEW 12.114                       | COAX connector                             | RG 213, 11                        |                    | 10.9/2.54                    | 12.0/3.0                 | 1           |
| 61813818             | PEW 12.119                       | COAX connector                             | 1.0/6.6                           |                    | 1.75/9.73                    | 2.1/10.7                 | 1           |
| 61813852             | PEW 12.158                       | COAX connector                             | Belden                            |                    | 7.0/8.4/8.1                  | 7.7/9.5/9.5              | 1           |
| 61813853             | PEW 12.159                       | COAX connector                             | RG 58, 174, 316, 188              |                    | 3.25/4.52/5.4/1.72/1.07/0.72 | 3.9/5.4/6.4/2.1/1.3/0.95 | 1           |
| 61813861             | PEW 12.772                       | COAX connector                             | RG 178, 196, 174, 316, 188, 179   |                    | 2.67/3.25/3.83               | 3.1/3.8/4.2              | 1           |
| 61813849             | PEW 12.155                       | Optical fibre (POF) F-SMA/B-FOC (ST)       |                                   |                    | 4.20/3.65/5.0                | 5.4/4.3/6.0              | 1           |
| 11147500             | EPIC® crimping dies              | Conductor end sleeves 25.0 mm <sup>2</sup> | 25.0                              | 4                  |                              |                          | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT 4454 G universal pressing pliers



## ■ Benefits

- A variety of press inserts are available, which can be used in all crimping pliers and appliances of the WT system.
- Integrated forced lock only allows the tool to be opened after it has completely closed (emergency opening possible).
- This ensures that a complete crimping operation is performed.
- For multiple uses
- This tool is low-cost and variable due to a number of patented, exchangeable press dies

## ■ Application range

- The manual pressing pliers with removable press matrices
- Press inserts for conductor end-sleeves, cable lugs, panel connectors, tube and compression cable lugs, and BNC connectors; and press inserts for the "Shield-Kon®" dual screen system

## ■ Note

- The WT crimping system comes with the WT 4454 G universal pressing pliers and WT-FMP 20 parallel crimper. A variety of press inserts is available, which can be used in all crimping pliers and appliances of the WT system.

## ■ Included

- Pliers without case
- Empty case with space for 12 inserts

| Article number | Article designation   | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|-----------------------|-------------|-------------|-------------|
| 61743920       | WT 4454 G             | 0.5         | 250         | 1           |
| 61792250       | WT case for WT 4454 G |             |             | 1           |

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## WT - FMP 20 crimping tool hydraulic



### ■ Benefits

- Forced operation control guarantees highest pressing quality
- Resulting connections exceed the standard DIN requirements
- A variety of press inserts are available, which can be used in all crimping pliers and appliances of the WT system.

### ■ Application range

- Parallel crimping tool
- For insulated cable lugs up to 6 mm<sup>2</sup>, non-insulated tubular and compression cable lugs up to 16 mm<sup>2</sup>, conductor end sleeves up to 50 mm<sup>2</sup>

### ■ Approvals



### ■ Design

- Not included:
- Die-block carrier (adapter)
- Die-block carrier FMP 20 (adapter)
- Pneumatic foot pedal, electronic batch counter, connecting tube, safety control and transparent protective mechanism in compliance with CE standards

### ■ Included

- Slide-in device and guide parts for repeatedly accurate and correct positioning of the various cable lugs

### ■ Technical data



#### General

Operating pressure: max. 6 bar / 90 PSI  
Dimensions: 270 x 120 x 240 mm



#### Note

Variable operating speed

| Article number | Article designation         | Weight (kg) | Length (mm) | Pieces / PU |
|----------------|-----------------------------|-------------|-------------|-------------|
| 61790740       | FMP 20                      | 14          | 280         | 1           |
| 61790741       | Die-block carrier FMP 20    |             |             | 1           |
| 61790744       | Protection mechanism FMP 20 |             |             | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-IS 0560 G crimping inserts



### Application range

- Crimping inserts for WT crimping system
- For insulated cable lugs and connector sleeves 0.5 - 6.0 mm<sup>2</sup>

### Design

- 4.0 - 6.0 mm<sup>2</sup> - yellow
- 1.5 - 2.5 mm<sup>2</sup> - blue
- 0.5 - 1.5 mm<sup>2</sup> - red
- Crimping profile: Double-C

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933

| Article number | Article designation | Suitable for:        | For mm <sup>2</sup> | Crimping profile  | Pieces / PU |
|----------------|---------------------|----------------------|---------------------|-------------------|-------------|
| 61743930       | WT-IS 0560 G        | insulated cable lugs | 0.5 - 6             | Double C pressing | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-IS 2525 G crimping inserts



### Application range

- For insulated cable lugs and connector sleeves 0.25 - 2.5 mm<sup>2</sup>
- Crimping inserts for WT crimping system

### Design

- Crimping profile: Double-C
- 0.50 - 1.50 mm<sup>2</sup> - red
- 1.50 - 2.50 mm<sup>2</sup> - blue
- 0.25 - 0.75 mm<sup>2</sup> - green/yellow

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933

| Article number | Article designation | Suitable for:        | For mm <sup>2</sup> | Crimping profile  | Pieces / PU |
|----------------|---------------------|----------------------|---------------------|-------------------|-------------|
| 61743940       | WT-IS 2525 G        | insulated cable lugs | 0.25 - 2.5          | Double C pressing | 1           |

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## WT-IS 0510 G crimping inserts



### Application range

- For insulated cable lugs and connector sleeves 0.5 - 1.5 mm<sup>2</sup>
- Crimping inserts for WT crimping system

### Design

- Cross-section range: 0.5 - 1.5 mm<sup>2</sup> - red
- Crimping profile: Dovetail

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933

| Article number | Article designation | Suitable for:        | For mm <sup>2</sup> | Crimping profile  | Pieces / PU |
|----------------|---------------------|----------------------|---------------------|-------------------|-------------|
| 61743950       | WT-IS 0510 G        | insulated cable lugs | 0.5 - 1.5           | dovetail pressing | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-IS 1525 G crimping inserts



### Application range

- For insulated cable lugs and connector sleeves 1.5 - 2.5 mm<sup>2</sup>
- Crimping inserts for WT crimping system

### Design

- Crimping profile: Dovetail
- Cross-section range: 1.5 - 2.5 mm<sup>2</sup>, blue

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933

| Article number | Article designation | Suitable for:        | For mm <sup>2</sup> | Crimping profile  | Pieces / PU |
|----------------|---------------------|----------------------|---------------------|-------------------|-------------|
| 61743960       | WT-IS 1525 G        | insulated cable lugs | 1.5 - 2.5           | dovetail pressing | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-KR 0560 G crimping inserts

### Application range

- Crimping inserts for WT crimping system
- For non-insulated blade connectors 0.5 - 6 mm<sup>2</sup> (6.3/9.5 mm)

### Included

- Crimping profile: Roller pressing
- Cross-section range
- 1.5 - 2.5 mm<sup>2</sup>
- 4.0 - 6.0 mm<sup>2</sup>
- 0.5 - 1.5 mm<sup>2</sup>

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933



| Article number | Article designation | Suitable for:                | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|------------------------------|---------------------|------------------|-------------|
| 61743980       | WT-KR 0560 G        | uninsulated panel connectors | 0.5 - 6             | roller pressing  | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-BL 0560 G crimping inserts

### Application range

- Crimping inserts for WT crimping system
- For non-insulated tubular and compression cable lugs 0.5 - 6 mm<sup>2</sup>

### Product features

- Crimping profile: W-pressing

### Design

- Cross-section range
- 4.0 - 6.0 mm<sup>2</sup>
- 1.5 - 2.5 mm<sup>2</sup>
- 0.5 - 1.5 mm<sup>2</sup>

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933



| Article number | Article designation | Suitable for:          | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|------------------------|---------------------|------------------|-------------|
| 61743990       | WT-BL 0560 G        | uninsulated cable lugs | 0.5 - 6             | w-pressing       | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-BL 10 G crimping inserts

### Application range

- Crimping inserts for WT crimping system
- For non-insulated tubular and compression cable lugs 10 mm<sup>2</sup>

### Product features

- Crimping profile: W-pressing

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933



| Article number | Article designation | Suitable for:          | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|------------------------|---------------------|------------------|-------------|
| 61743995       | WT-BL 10 G          | uninsulated cable lugs | 10                  | w-pressing       | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-BL 16 G crimping inserts

### Application range

- For non-insulated tubular and compression cable lugs 16 mm<sup>2</sup>

### Product features

- Crimping profile: Mandrel

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933



| Article number | Article designation | Suitable for:          | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|------------------------|---------------------|------------------|-------------|
| 61743996       | WT-BL 16 G          | uninsulated cable lugs | 16                  | mandrel          | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-BLH 1060 G crimping inserts



## ■ Application range

- For non-insulated tubular and compression cable lugs 1.0 - 6.0 mm<sup>2</sup>

- 4.0 mm<sup>2</sup>
- 2.5 mm<sup>2</sup>
- 1.0 - 1.5 mm<sup>2</sup>

## ■ Product features

- Crimping profile: Mandrel

## ■ Design

- Cross-section range
- 6.0 mm<sup>2</sup>

## ■ Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933

| Article number | Article designation | Suitable for:          | For mm <sup>2</sup> | Crimping profile   | Pieces / PU |
|----------------|---------------------|------------------------|---------------------|--------------------|-------------|
| 61743997       | WT-BLH 1060 G       | uninsulated cable lugs | 1 - 6               | Hexagonal pressing | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-KR 1475 G crimping inserts



## ■ Application range

- Crimping inserts for WT crimping system
- For insulated and non-insulated conductor end sleeves 0.14 - 1.5 mm<sup>2</sup>

## ■ Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933

## ■ Product features

- Crimping profile: Roller pressing

## ■ Design

- Cross-section range
- 0.5 - 1.0 mm<sup>2</sup>
- 0.75 - 1.5 mm<sup>2</sup>
- 0.14 - 0.25 mm<sup>2</sup>

| Article number | Article designation | Suitable for:                | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|------------------------------|---------------------|------------------|-------------|
| 61743991       | WT-KR 1475 G        | uninsulated panel connectors | 0.14 - 1.5          | roller pressing  | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-AH 2560 G crimping inserts



## ■ Application range

- Crimping inserts for WT crimping system
- For insulated and non-insulated conductor end sleeves 0.25 - 6 mm<sup>2</sup>

- 0.75 - 4.0 mm<sup>2</sup>
- 0.25 - 1.5 mm<sup>2</sup>
- 0.5 - 2.5 mm<sup>2</sup>

## ■ Product features

- Crimping profile: Trapezoid

## ■ Design

- Cross-section range
- 1.0 - 6.0 mm<sup>2</sup>

## ■ Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933

| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|
| 61743993       | WT-AH 2560 G        | 0.25 - 6            | trapezoid        | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-AH 1425 G crimping inserts



## ■ Application range

- Crimping inserts for WT crimping system
- For insulated and non-insulated conductor end sleeves 0.14 - 2.5 mm<sup>2</sup>

## ■ Design

- Cross-section range: 0.14 mm<sup>2</sup>, 0.25 mm<sup>2</sup>, 0.34 mm<sup>2</sup>, 0.5 mm<sup>2</sup>, 0.75 + 1 mm<sup>2</sup>, 1.5 mm<sup>2</sup>, 2.5 mm<sup>2</sup>

## ■ Product features

- Crimping profile: Trapezoid

## ■ Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933

| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|
| 61743989       | WT-AH 1425          | 0.14 - 2.5          | trapezoid        | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## WT-AG 6016 G crimping inserts

### Application range

- Crimping inserts for WT crimping system
- For insulated and non-insulated conductor end sleeves 6 - 16 mm<sup>2</sup>

### Product features

- Crimping profile: Trapezoid

### Design

- Cross-section range
- 6.0 mm<sup>2</sup>

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933



| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|
| 61743994       | WT-AH 6016 G        | 6 - 16              | trapezoid        | 1           |

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## WT-RG 58/59 IL crimping inserts

### Application range

- Crimping inserts for WT crimping system
- For BNC connectors, RG 58/RG 59 cables and inner conductors

### Product features

- Crimping profile: Hexagonal

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933



| Article number | Article designation | Suitable for: | Crimping profile   | Pieces / PU |
|----------------|---------------------|---------------|--------------------|-------------|
| 61752950       | WT-RG 58/59 IL      | BNC plug      | Hexagonal pressing | 1           |

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## WT-KRW 1525 G crimping inserts

### Application range

- Crimping inserts for WT crimping system
- For non-insulated right-angle blade connectors with side connection 1.5 - 2.5 mm<sup>2</sup> (6.3 mm)

### Product features

- Crimping profile: Roller pressing

### Design

- Cross-section range: 1.5 - 2.5 mm<sup>2</sup>, other sizes are available upon request

### Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- WT - FMP 20 crimping tool hydraulic refer to page 933



| Article number | Article designation | For mm <sup>2</sup> | Crimping profile | Pieces / PU |
|----------------|---------------------|---------------------|------------------|-------------|
| 61743992       | WT-KRW 1525 G       | 1.5 - 2.5           | roller pressing  | 1           |

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## RSK one-piece screen connector



### Benefits

- Matching tool inserts have the same colour.
- The four sizes can be identified by the different colours of insulation.

### Application range

- One-piece screen connector
- One-part screen connector allows screened cables to be connected quickly and permanently.

### Approvals



### Design

- To process, insert the connector into the tool, then insert and crimp the screen cable and leads or the earthing clamp.
- When crimped, the connector assumes a round shape and both ends are pushed above each other.
- When inserting the screened cable to a connector, ensure that the cable insulation overlaps with the connector's MYLAR® insulation.
- Inside the connector, there is a suspended cover plate for the leads and an insertion for the screened cable.

### Suitable tools

- ERG 740 manual pressing tool refer to page 939

### Technical data



#### Material

Tinned electrolyte copper  
Insulation: laminated polyester



#### Temperature range

-55°C to +125°C

| Article number | Article designation | Colour | Shield Ø (mm) | Suitable inserts | Pieces / PU |
|----------------|---------------------|--------|---------------|------------------|-------------|
| 61721340       | RSK 5101            | red    | 1.27-2.28     | 101 A/B          | 100         |
| 61721350       | RSK 5201            | blue   | 2.29-3.65     | 201 C/D/E/F      | 100         |
| 61721360       | RSK 5301            | yellow | 3.66-5.12     | 301 F/H/I/G      | 100         |
| 61743200       | RSK 5401            | green  | 5.13-7.62     | 401 K/L/M/N      | 100         |

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## RSK gauge



### Application range

- One-piece screen connector
- For the one-piece SHIELD-KON® connectors RSK
- The RSK gauge can be used to determine the appropriate connector and tool easily and reliably.

### Design

- The appropriate connectors and tool inserts are indicated by the notches.

| Article number | Article designation | Pieces / PU |
|----------------|---------------------|-------------|
| 61753760       | RSK gauge           | 1           |

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## RSK earth clamp

### Benefits

- RSK earth clamps are the quick and inexpensive alternative to conventional installation of conductors.

### Application range

- One-piece screen connector
- For use with one-part RSK connectors.

### Technical data



**Material**  
Tinned electrolyte copper



| Article number | Article designation | Used for        | Hole diameter (mm) | Pieces / PU |
|----------------|---------------------|-----------------|--------------------|-------------|
| 61753762       | RSK-Flag-B3         | RSK 5301 / 5401 | M3                 | 100         |
| 61753763       | RSK-Flag-B4         | RSK 5301 / 5401 | M4                 | 100         |
| 61753764       | RSK-Flag-B5         | RSK 5301 / 5401 | M5                 | 100         |

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## ERG 740 manual pressing tool

### Benefits

- Ergonomic plastic handles
- The tools work according to the "SHURE STAKE" principle: when the pressing procedure is started, the tool can only be opened when the crimping operation is completed.
- This means consistently high quality and safety. The inserts are made of plastic or metal and can be changed easily and quickly, by simply pushing in by hand.
- The tools do not need to be adjusted.

### Application range

- For metal inserts

### Design

- The one-part Shield-Kon® connectors are crimped with the manual pressing tool ERG 740.
- For all tools in the one-piece SHIELD-Kon® system, the pressing dies move in parallel to each other, which enables the contorting effect of the RSK connector

### Included

- Pressing pliers ERG 740
- RSK gauge for easy identification of the connector
- Case



| Article number | Article designation                | Suitable inserts | Pieces / PU |
|----------------|------------------------------------|------------------|-------------|
| 61753160       | ERG 740 case + hand pliers + gauge | Metal            | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Crimping inserts for ERG 740

### Benefits

- The inserts are changeable.

### Application range

- One-piece screen connector tool inserts

### Design

- The one-part RSK connectors are crimped using the manual crimping tool ERG 740 for metal dies.

### Suitable tools

- ERG 740 manual pressing tool refer to page 939



| Article number                   | Article designation | Colour | Shield Ø (mm) | Suitable inserts | Pieces / PU |
|----------------------------------|---------------------|--------|---------------|------------------|-------------|
| <b>Metal inserts for ERG 740</b> |                     |        |               |                  |             |
| 61722835                         | D-101 A             | red    | 1.27-1.79     | RSK 5101         | 1           |
| 61722825                         | D-101 B             | red    | 1.80-2.28     | RSK 5101         | 1           |
| 61722905                         | D-201 C             | blue   | 2.29-2.55     | RSK 5201         | 1           |
| 61722915                         | D-201 D             | blue   | 2.56-3.00     | RSK 5201         | 1           |
| 61722925                         | D-201 E             | blue   | 3.01-3.34     | RSK 5201         | 1           |
| 61743045                         | D-201 F             | blue   | 3.35-3.65     | RSK 5201         | 1           |
| 61722935                         | D-301 G             | yellow | 3.66-4.13     | RSK 5301         | 1           |
| 61722945                         | D-301 H             | yellow | 4.14-4.71     | RSK 5301         | 1           |
| 61722875                         | D-301 J             | yellow | 4.72-5.12     | RSK 5301         | 1           |
| 61743215                         | D-401 K             | green  | 5.13-5.86     | RSK 5401         | 1           |
| 61743225                         | D-401 L             | green  | 5.87-6.36     | RSK 5401         | 1           |
| 61743235                         | D-401 M             | green  | 6.37-7.00     | RSK 5401         | 1           |
| 61743245                         | D-401 N             | green  | 7.01-7.62     | RSK 5401         | 1           |

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## SHIELD-KON® two-part screen connector



## Info

- Reliable connection

## Benefits

- A hard, stable inner sleeve absorbs the pressure and protects the conductor on the inside from mechanical stress.
- Soft outer sleeve is deformed during pressing and thus guarantees a perfect electrical and mechanical connection.
- The appropriate press insert can be determined by using the selected outer sleeve.

## Application range

- Two-part screen connector
- With the two-part SHIELD-KON® connector, it is possible to handle screen cables with a dielectric diameter from 1.1 to 14 mm (diameter after removing the screen)

## Approvals



- Corrosion test in compliance with IEC 68-2-42
- The test samples were stored for 10 days in a damp SO2 industrial atmosphere at 25 °C.
- This test showed only negligible increases in the contact resistance, which means that the crimped connections can be considered gas-proof.

## Suitable tools

- WT 4454 G universal pressing pliers refer to page 932
- SHIELD-KON® crimping inserts refer to page 941

## Technical data



## Temperature range

Temperature shock test  
100 cycles of temperature changes between -40°C and +155°C produced a negligible change in the contact resistance.

| Article number       | Article designation | Colour | Inner x outer sleeve Ø (mm) | Pieces / PU |
|----------------------|---------------------|--------|-----------------------------|-------------|
| <b>Inner sleeves</b> |                     |        |                             |             |
| 61749430             | GSB5046             | silver | 1.17 x 1.90                 | 100         |
| 61749440             | GSB5058             | yellow | 1.47 x 2.10                 | 100         |
| 61749450             | GSB5063             | red    | 1.60 x 2.23                 | 100         |
| 61749460             | GSB5071             | green  | 1.87 x 2.44                 | 100         |
| 61749470             | GSB5080             | blue   | 2.00 x 2.63                 | 100         |
| 61749480             | GSB5090             | orange | 2.20 x 2.90                 | 100         |
| 61749490             | GSB5096             | purple | 2.44 x 3.02                 | 100         |
| 61749500             | GSB5101             | yellow | 2.56 x 3.16                 | 100         |
| 61749510             | GSB5109             | red    | 2.76 x 3.36                 | 100         |
| 61749520             | GSB5115             | silver | 2.92 x 3.70                 | 100         |
| 61749530             | GSB5124             | green  | 3.14 x 3.68                 | 100         |
| 61749540             | GSB5128             | silver | 3.25 x 3.86                 | 100         |
| 61749550             | GSB5134             | orange | 3.40 x 4.00                 | 100         |
| 61749560             | GSB5149             | blue   | 3.78 x 4.54                 | 100         |
| 61749570             | GSB5156             | red    | 3.96 x 4.90                 | 100         |
| 61749580             | GSB5165             | silver | 4.20 x 4.92                 | 100         |
| 61749590             | GSB5175             | green  | 4.44 x 5.46                 | 100         |
| 61749600             | GSB5187             | yellow | 4.75 x 5.76                 | 100         |
| 61749610             | GSB5194             | blue   | 4.93 x 5.76                 | 100         |
| 61749620             | GSB5205             | orange | 5.20 x 6.22                 | 100         |
| 61749630             | GSB5219             | silver | 5.56 x 6.35                 | 100         |
| 61749640             | GSB5225             | yellow | 5.71 x 6.50                 | 100         |
| 61749650             | GSB5232             | red    | 5.90 x 6.70                 | 100         |
| 61749660             | GSB5250             | green  | 6.35 x 7.14                 | 100         |
| 61749670             | GSB5261             | blue   | 6.63 x 7.54                 | 100         |
| 61749680             | GSB5266             | silver | 6.75 x 7.54                 | 100         |
| 61749690             | GSB5275             | orange | 6.98 x 7.77                 | 100         |
| 61749700             | GSB5281             | yellow | 7.14 x 8.40                 | 100         |
| 61749710             | GSB5287             | silver | 7.29 x 8.30                 | 100         |
| 61749720             | GSB5297             | red    | 7.54 x 8.50                 | 100         |
| 61749730             | GSB5312             | purple | 7.92 x 9.20                 | 100         |
| 61749740             | GSB5348             | orange | 8.84 x 10.20                | 100         |
| 61749750             | GSB5375             | blue   | 9.52 x 10.30                | 100         |
| <b>Outer sleeves</b> |                     |        |                             |             |
| 61749810             | GSC5101             | silver | 2.56 x 3.16                 | 100         |
| 61749820             | GSC5128             | blue   | 3.25 x 3.86                 | 100         |
| 61749830             | GSC5149             | purple | 3.78 x 4.54                 | 100         |
| 61749840             | GSC5156             | yellow | 3.96 x 4.90                 | 100         |
| 61749850             | GSC5175             | blue   | 4.40 x 5.46                 | 100         |
| 61749860             | GSC5187             | orange | 4.75 x 5.76                 | 100         |
| 61749870             | GSC5194             | red    | 4.93 x 5.79                 | 100         |
| 61749880             | GSC5199             | silver | 5.05 x 5.97                 | 100         |
| 61749890             | GSC5205             | yellow | 5.20 x 6.22                 | 100         |
| 61749900             | GSC5219             | green  | 5.56 x 6.35                 | 100         |
| 61749910             | GSC5225             | purple | 5.71 x 6.50                 | 100         |
| 61749920             | GSC5232             | orange | 5.90 x 6.70                 | 100         |
| 61749930             | GSC5261             | yellow | 6.63 x 7.54                 | 100         |
| 61749940             | GSC5275             | silver | 6.98 x 7.77                 | 100         |
| 61749950             | GSC5281             | purple | 7.14 x 8.40                 | 100         |
| 61749960             | GSC5287             | blue   | 7.29 x 8.30                 | 100         |
| 61749970             | GSC5297             | green  | 7.54 x 8.50                 | 100         |
| 61749980             | GSC5312             | yellow | 7.95 x 9.20                 | 100         |
| 61749990             | GSC5327             | silver | 8.30 x 9.45                 | 100         |
| 61750000             | GSC5348             | orange | 8.84 x 9.98                 | 100         |
| 61750010             | GSC5359             | purple | 9.12 x 10.13                | 100         |
| 61750020             | GSC5375             | yellow | 9.52 x 10.30                | 100         |
| 61750030             | GSC5405             | red    | 10.28 x 11.50               | 100         |
| 61750040             | GSC5415             | blue   | 10.54 x 11.76               | 100         |
| 61750050             | GSC5425             | silver | 10.80 x 12.06               | 100         |
| 61750060             | GSC5460             | silver | 11.68 x 12.95               | 100         |
| 61750070             | GSC5500             | green  | 12.70 x 14.60               | 100         |

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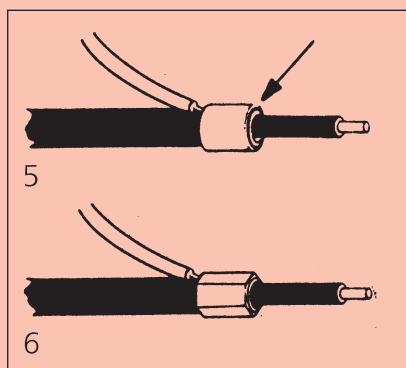
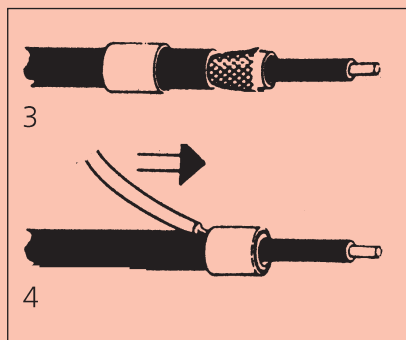
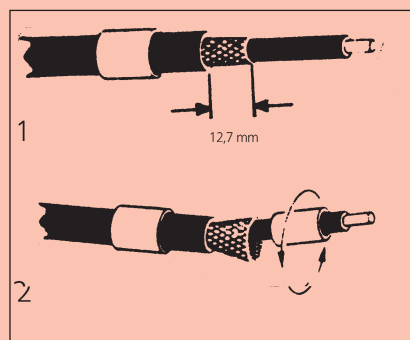
For current information see: [www.lappgroup.com](http://www.lappgroup.com)



**SHIELD-KON® two-part screen connector**

**Installation:**

1. After stripping the screen (approx. 12.7 mm length), push the outer sleeve onto the outer insulation. If this is too thick, push on the outer sleeve from front after step 3.
2. Extend the screen braiding by rotating the inside conductor slightly and pushing the inner sleeve under the screen braiding.
3. Position the inner sleeve in such a way that about 1.6 mm is still protruding from the end of the screen, and press on the braiding.
4. Push the conductor under the outer sleeve and push the outer sleeve over the braiding.
5. Position outer sleeve and make sure that ends of all wires in the screen braiding and the outer conductor are hidden.
6. Crimp both sleeves.



**Which inner sleeve to which outer sleeve?**

**Inner sleeve GSB:**

Define the maximum outer diameter of the inner sheath under the braid/screen. Select from the chart the matching inner sleeve (outer diameter inner sheath = inner diameter inner sleeve). In case of in-between values, please select the next size.

**Outer sleeve GSC:**

Add 1.5-2 mm to the outer diameter of the selected inner sleeve and then select the outer sleeve (resulting diameter after addition = inner diameter of outer sleeve).

**Press insert:**

By means of the selected outer sleeve, you can now determine the appropriate press insert.

**SHIELD-KON® crimping inserts**

**Application range**

- Two-part screen connector
- Crimping inserts for SHIELD-KON® processing tool WT 4454 G

**Design**

- Crimping profile: Hexagonal



| Article number | Article designation | Suitable for outer sheaths                         | Pieces / PU |
|----------------|---------------------|----------------------------------------------------|-------------|
| 61789480       | 4419-4403 G         | GSC 5101 / 5128 / 5149 / 5156 / 5175               | 1           |
| 61789490       | 4406-4410 G         | GSC 5187 / 5194 / 5199 / 5205 / 5219 / 5225 / 5232 | 1           |
| 61789500       | 4411-4414 G         | GSC 5261 / 5275 / 5281 / 5287 / 5297               | 1           |
| 61789510       | 4415-4417 G         | GSC 5312 / 5327 / 5348                             | 1           |
| 61789520       | 5450-5451 G         | GSC 5359 / 5375                                    | 1           |
| 61789530       | 5452 G              | GSC 5405 / 5415                                    | 1           |
| 61789540       | 5454 G              | GSC 5425                                           | 1           |
| 61789550       | 5456 G              | GSC 5460                                           | 1           |
| 61789560       | 5457 G              | GSC 5500                                           | 1           |

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## Temflex™ 1500 insulating tape



### Benefits

- Waterproof
- Adhesive on one side

### Application range

- Multipurpose insulating tape made from PVC
- Universal electrical insulating tape for insulating, bundling, marking.

### Approvals



- Type acc. to VDE: type 5

### Technical data



#### Material

PVC

Resistant to most solvents



#### Temperature range

-10 °C to +90 °C

### Design

- Colours: black, red, yellow, green, blue, brown, grey, white, orange, violet, green-yellow.

| Article number | Article designation | Colour       | Length (m) x tape width (mm) x thickness (mm) | Material | Pieces / PU |
|----------------|---------------------|--------------|-----------------------------------------------|----------|-------------|
| 61721040       | Temflex 1015        | white        | 10 x 15 x 0.15                                | PVC      | 10          |
| 61721030       | Temflex 1015        | black        | 10 x 15 x 0.15                                | PVC      | 10          |
| 61721050       | Temflex 1015        | green        | 10 x 15 x 0.15                                | PVC      | 10          |
| 61721060       | Temflex 1015        | blue         | 10 x 15 x 0.15                                | PVC      | 10          |
| 61721070       | Temflex 1015        | red          | 10 x 15 x 0.15                                | PVC      | 10          |
| 61721080       | Temflex 1015        | green-yellow | 10 x 15 x 0.15                                | PVC      | 10          |
| 61721045       | Temflex 1015        | yellow       | 10 x 15 x 0.15                                | PVC      | 10          |
| 61721090       | Temflex 2515        | black        | 25 x 15 x 0.15                                | PVC      | 10          |
| 61721100       | Temflex 2515        | white        | 25 x 15 x 0.15                                | PVC      | 10          |
| 61721110       | Temflex 2515        | blue         | 25 x 15 x 0.15                                | PVC      | 10          |
| 61721120       | Temflex 2515        | red          | 25 x 15 x 0.15                                | PVC      | 10          |
| 61721130       | Temflex 2515        | green        | 25 x 15 x 0.15                                | PVC      | 10          |
| 61721140       | Temflex 2525        | black        | 25 x 25 x 0.15                                | PVC      | 10          |

Temflex™ 1183 is a registered trademark of 3M

Photographs are not to scale and do not represent detailed images of the respective products.

## TI insulating tape



### Benefits

- Protects against corrosion
- Non-aging
- Chemical resistance

### Application range

- Insulating tapes and self-amalgamating tape

### Approvals



### Technical data



#### Colour delivered

White



#### Material

Non-adhesive fluoropolymer tape

Water-repellent



#### Temperature range

-160 °C to +250 °C

| Article number | Article designation     | Colour | Length (m) x tape width (mm) x thickness (mm) | Material | Pieces / PU |
|----------------|-------------------------|--------|-----------------------------------------------|----------|-------------|
| 61713080       | TI 1212 insulating tape | white  | 12 x 12 x 0.1                                 | PTFE     | 10          |

Photographs are not to scale and do not represent detailed images of the respective products.

## TBTA self-amalgamating tape



### Benefits

- Contains a dense insulation layer with fault-free electrical stability and permanent resistance to the ingress of humidity, for example to protect and insulate contact rails and associated assembly elements.

### Application range

- Insulating tapes and self-amalgamating tape

### Approvals



### Technical data



#### Caution

Insulation and sheathing of cables and connections up to 65 kV



#### General

Stretch ratio: 3:1



#### Info

Offers UV and ozone protection



#### Colour delivered

Black



#### Material

Based on ethylene propylene rubber

Halogen and cadmium-free



#### Temperature range

-55 °C to +105 °C

| Article number | Article designation | Length (m) x tape width (mm) x thickness (mm) | Pieces / PU |
|----------------|---------------------|-----------------------------------------------|-------------|
| 61810210       | TBTA-ZH-19          | 9 x 19 x 0.76                                 | 1           |
| 61810220       | TBTA-ZH-25          | 9 x 25 x 0.76                                 | 1           |
| 61810230       | TBTA-ZH-38          | 9 x 38 x 0.76                                 | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Insulating tube ISS

### Benefits

- The ISS insulating tube provides good insulation against heat, cold or temperature fluctuations.
- It is also resistant to most chemicals.

### Application range

- Insulating tapes and insulating sheaths

### Approvals



### Note

- Not suitable for shrinking.

### Technical data



**Material**  
Silicone  
UV-resistant



**Temperature range**  
-60°C to +180°C



| Article number | Article designation | Colour  | Internal Ø x wall thickness (mm) | Material | Contents (m) |
|----------------|---------------------|---------|----------------------------------|----------|--------------|
| 61760060       | ISS 2               | natural | 2.00 x 0.40                      | Silicone | 100          |
| 61760070       | ISS 3               | natural | 3.00 x 0.40                      | Silicone | 100          |
| 61760080       | ISS 4               | natural | 4.00 x 0.75                      | Silicone | 100          |
| 61760090       | ISS 5               | natural | 5.00 x 0.90                      | Silicone | 100          |
| 61760100       | ISS 6               | natural | 6.00 x 0.90                      | Silicone | 100          |
| 61760110       | ISS 7               | natural | 7.00 x 0.90                      | Silicone | 100          |
| 61760120       | ISS 8               | natural | 8.00 x 1.00                      | Silicone | 50           |
| 61760130       | ISS 9               | natural | 9.00 x 1.05                      | Silicone | 50           |
| 61760140       | ISS 10              | natural | 10.00 x 1.05                     | Silicone | 50           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Insulating tube ISY

### Application range

- Insulating tubes
- For insulation of connections. Not suitable for shrinking.

### Product features

- Smooth surface

### Approvals



- DIN 40621

### Note

- 0.1 mm wall thickness = 1 kv dielectric strength

### Design

- Colours: black RAL 9005, white similar to RAL 9003

### Technical data



**Info**  
Without fabric  
Flame-retardant



**Colour delivered**  
Black and white



**Material**  
Soft PVC  
Smooth surface



**Temperature range**  
-10°C to +60°C



| Article number | Article designation | Colour | Internal Ø x wall thickness (mm) | Material | Contents (m) |
|----------------|---------------------|--------|----------------------------------|----------|--------------|
| 61793030       | ISY 2               | black  | 2.00 x 0.40                      | PVC      | 1,000        |
| 61793040       | ISY 3               | black  | 3.00 x 0.40                      | PVC      | 750          |
| 61793050       | ISY 4               | black  | 4.00 x 0.50                      | PVC      | 500          |
| 61793060       | ISY 5               | black  | 5.00 x 0.60                      | PVC      | 500          |
| 61793070       | ISY 6               | black  | 6.00 x 0.60                      | PVC      | 400          |
| 61793080       | ISY 7               | black  | 7.00 x 0.70                      | PVC      | 500          |
| 61793090       | ISY 8               | black  | 8.00 x 0.70                      | PVC      | 500          |
| 61793100       | ISY 9               | black  | 9.00 x 0.70                      | PVC      | 400          |
| 61793110       | ISY 10              | black  | 10.00 x 0.70                     | PVC      | 300          |
| 61793116       | ISY 10              | white  | 10.00 x 0.70                     | PVC      | 300          |
| 61793119       | ISY 16              | black  | 16.00 x 1.00                     | PVC      | 150          |

Photographs are not to scale and do not represent detailed images of the respective products.

## Copper braid



## ■ Benefits

- EMC-compliant screening improves compatibility and protects the cable from interferences transmitted by other electric fields

## ■ Application range

- EMC-compliant screening
- Can be used as earthing tape

## ■ Approvals



## ■ Design

- With these three available sizes, a diameter range from 1 to 20 mm can be covered.
- Variable diameter by tightening the braid.

## ■ Technical data



## General

Minor differences are possible depending on the production batch



## Note

Degree of coverage: 85 % at maximum opening



## Material

Tinned-copper



## Temperature range

Max. temperature: +120 °C (short-term)  
-30 °C to +105 °C

## ■ Suitable conduits

- SILVYN® EMC AS-CU Page 814

| Article number | Article designation | For mm² | Approx. Ø range in mm | Number of wires x Ø (mm) | Weight (g) | Contents (m) |
|----------------|---------------------|---------|-----------------------|--------------------------|------------|--------------|
| 61721370       | CU 14               | 1.32    | 1 - 4                 | 24 x 7 x 0,10            | 17.0       | 100.0        |
| 61721380       | CU 410              | 4.14    | 4 - 10                | 24 x 22 x 0,10           | 38.0       | 100.0        |
| 61721390       | CU 1020             | 8.29    | 10 - 20               | 48 x 22 x 0,10           | 75.0       | 100.0        |

Photographs are not to scale and do not represent detailed images of the respective products.

## 3M Scotch™ 1183 screening tape



## ■ Benefits

- This electrically-conductive strip provides exceptional screening of electromagnetic fields.
- Uniform foil composition and its good conductivity to the substrate ensure low contact resistance, which is crucial for the degree of screening.
- Solderable and corrosion-resistant
- Acrylic adhesive that is resistant to solvents

## ■ Application range

- EMC-compliant screening

## ■ Product features

- This copper foil is plated with a thin layer of tin.
- This provides very good soldering characteristics and resistance to corrosion and oxidation.
- The tin-plating used is compatible with a wide range of base materials such as aluminium, lead and tin alloys, and galvanised steels.

## ■ Approvals



## ■ Technical data



## Caution

Adhesion (stripping force) : 3.8 N / 10 mm  
Tear strength: 44 N / 10 mm



## Approvals

UL-recognised



## Note

Contact resistance (in acc. with MIL-STD-202):  
0.005 ohms  
Data sheet is available upon request



## Info

Storage: good stability when stored in a cool and dry location (room temperature and approx. 50% relative humidity)



## Colour delivered

Silver grey (RAL 7001)



## Material

The 3M screening tape consists of a smooth tin-plated copper film as a lining with a conductive acrylic adhesive.



## Temperature range

-10 °C to +80 °C

## ■ Design

- Electromagnetic field screening
- Electrostatic discharge

| Article number | Article designation      | Width (mm) | Contents (m) |
|----------------|--------------------------|------------|--------------|
| 61721420       | 3M Scotch 1183 / 9x16,5  | 9          | 16.5         |
| 61721421       | 3M Scotch 1183 / 12x16,5 | 12         | 16.5         |
| 61721422       | 3M Scotch 1183 / 19x16,5 | 19         | 16.5         |
| 61721423       | 3M Scotch 1183 / 25x16,5 | 25         | 16.5         |

Scotch™ 1183 is a registered trademark of 3M

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- SKINTOP® MS-SC-M refer to page 668
- SKINTOP® MS-SC refer to page 719

## HOTY heat-shrink tube



HOTY heat-shrink tube

### Application range

- PVC insulation and protection
- HOTY heat-shrink tubing is used for protecting and insulating contacts, cable lugs, connectors etc.

### Approvals



### Design

- The conduits are delivered in an expanded state.
- They can be easily pushed over the parts to be insulated. They are then heated briefly with a hot-air pistol so that they will shrink back to their original diameter and cling firmly to the parts.

### Suitable tools

- HG 2310 LCD hot-air pistol refer to page 948

### Technical data

|  |                                                                               |
|--|-------------------------------------------------------------------------------|
|  | <b>General</b><br>Shrinking temperature: +120°C<br>Shrinking ratio: 2:1       |
|  | <b>Material</b><br>PVC<br>UV-resistant - black                                |
|  | <b>Test voltage</b><br>Dielectric strength: 20 kV/mm                          |
|  | <b>Temperature range</b><br>-20°C to +90°C<br>Storage temperature: max. +18°C |

| Article number | Article description | Internal Ø before contraction (mm) | Shrinkage range (mm) | Panel thickness, shrunk ± 0.1 mm | Contents (m) |
|----------------|---------------------|------------------------------------|----------------------|----------------------------------|--------------|
| 61716700       | HOTY 1              | 2.5                                | 1.2 - 2.5            | 0.4                              | 100.0        |
| 61716720       | HOTY 2              | 4.0                                | 2.0 - 4.0            | 0.5                              | 100.0        |
| 61716740       | HOTY 3              | 6.0                                | 3.0 - 6.0            | 0.5                              | 100.0        |
| 61716760       | HOTY 4              | 7.0                                | 4.0 - 7.0            | 0.5                              | 100.0        |
| 61716780       | HOTY 6              | 11.0                               | 6.0 - 11.0           | 0.6                              | 100.0        |
| 61716800       | HOTY 8              | 14.0                               | 8.0 - 14.0           | 0.6                              | 100.0        |
| 61716820       | HOTY 10             | 17.0                               | 10.0 - 17.0          | 0.8                              | 100.0        |
| 61716840       | HOTY 13             | 20.0                               | 13.0 - 20.0          | 1.0                              | 100.0        |
| 61716860       | HOTY 16             | 25.0                               | 16.0 - 25.0          | 1.0                              | 50.0         |
| 61716880       | HOTY 20             | 31.0                               | 20.0 - 31.0          | 1.0                              | 50.0         |

Other colours are available on request (BK/YE/WH/Transparent).

Photographs are not to scale and do not represent detailed images of the respective products.



## PLG - HSB box shrink tube



## Benefits

- Designed for effective electrical insulation
- A viewing window allows for content inspection.

## Application range

- This flexible and quick-shrinking tube can be used everywhere for bundling, insulation and marking.

## Approvals



## Suitable tools

- HG 2310 LCD hot-air pistol refer to page 948

## Technical data



## General

Cadmium-free



## Note

Good chemical-resistance  
UV-resistant - black

## Info

Shrinking ratio: 2:1  
Length change during shrinking: maximum  
± 10 %

## Material

Cross-linked polyolefin, thin wall  
Transparent = halogen-free

## Temperature range

-55°C to +125°C  
Shrinking temperature: +120°C

| Article number     | Article description | Internal Ø before contraction (mm) | Shrinkage range (mm) | Panel thickness, shrunk +/- 0.1 mm | Contents (m) | PU |
|--------------------|---------------------|------------------------------------|----------------------|------------------------------------|--------------|----|
| <b>Black</b>       |                     |                                    |                      |                                    |              |    |
| 61752220           | HSB 46-0            | 1.2                                | 1.2 - 0.6            | 0.4                                | 12.0         | 1  |
| 61752230           | HSB 63-0            | 1.6                                | 1.6 - 0.8            | 0.4                                | 12.0         | 1  |
| 61752240           | HSB 93-0            | 2.4                                | 2.4 - 1.2            | 0.5                                | 11.5         | 1  |
| 61752250           | HSB 125-0           | 3.2                                | 3.2 - 1.6            | 0.5                                | 11.5         | 1  |
| 61752260           | HSB 187-0           | 4.7                                | 4.7 - 2.4            | 0.5                                | 9.5          | 1  |
| 61752270           | HSB 250-0           | 6.4                                | 6.4 - 3.2            | 0.6                                | 7.5          | 1  |
| 61752280           | HSB 375-0           | 9.5                                | 9.5 - 4.8            | 0.6                                | 6.5          | 1  |
| 61752290           | HSB 500-0           | 12.7                               | 12.7 - 6.4           | 0.7                                | 6.0          | 1  |
| 61752300           | HSB 750-0           | 19.1                               | 19.1 - 9.5           | 0.7                                | 5.0          | 1  |
| 61752310           | HSB 1000-0          | 25.4                               | 25.4 - 12.7          | 0.8                                | 3.3          | 1  |
| <b>Transparent</b> |                     |                                    |                      |                                    |              |    |
| 61752830           | HSB 46-C            | 1.2                                | 1.2 - 0.6            | 0.4                                | 12.0         | 1  |
| 61752840           | HSB 63-C            | 1.6                                | 1.6 - 0.8            | 0.4                                | 12.0         | 1  |
| 61752850           | HSB 93-C            | 2.4                                | 2.4 - 1.2            | 0.5                                | 11.5         | 1  |
| 61752860           | HSB 125-C           | 3.2                                | 3.2 - 1.6            | 0.5                                | 11.5         | 1  |
| 61752870           | HSB 187-C           | 4.7                                | 4.7 - 2.4            | 0.5                                | 9.5          | 1  |
| 61752880           | HSB 250-C           | 6.4                                | 6.4 - 3.2            | 0.6                                | 7.5          | 1  |
| 61752890           | HSB 375-C           | 9.5                                | 9.5 - 4.8            | 0.6                                | 6.5          | 1  |
| 61752900           | HSB 500-C           | 12.7                               | 12.7 - 6.4           | 0.7                                | 6.0          | 1  |
| 61752910           | HSB 750-C           | 19.1                               | 19.1 - 9.5           | 0.7                                | 5.0          | 1  |
| 61752920           | HSB 1000-C          | 25.4                               | 25.4 - 12.7          | 0.8                                | 3.3          | 1  |

Other colours are available upon request (see description).

Photographs are not to scale and do not represent detailed images of the respective products.

## TBW / TBM shrink tube



## Benefits

- Fulfills high mechanical requirements for underwater and underground insulations and repairs.
- More resistant and flexible protection

## Application range

- Thick and medium-wall shrink tubes for 600 V, 90°C low voltage applications in continuous use
- For sealing and insulating cable splices, connections, end caps and sheaths.

## Approvals



- Approval for ESI 09-11

## Technical data



## General

Shrinking ratio 3:1  
UV-resistant

## Material

Cross-linked modified polyolefin, with thermoplastic adhesive coating inside  
Halogen-free

## Temperature range

-55°C to +110°C  
Shrinking temperature: +120°C

## Design

- TBW = thick wall
- TBM = medium wall
- Piece = 1.22 m

## Suitable tools

- HG 2310 LCD hot-air pistol refer to page 948

| Article number | Article description | Internal Ø before contraction (mm) | Shrinkage range (mm) | Panel thickness, shrunk +/- 0.1 mm | Pieces / PU |
|----------------|---------------------|------------------------------------|----------------------|------------------------------------|-------------|
| 61810080       | TBW 0350            | 8.9                                | 3.0                  | 1.8                                | 5.0         |
| 61810090       | TBW 0750            | 19.1                               | 6.1                  | 2.4                                | 5.0         |
| 61810100       | TBW 1500            | 38.1                               | 11.9                 | 4.1                                | 2.0         |
| 61810110       | TBW 2000            | 50.8                               | 16.0                 | 4.1                                | 1.0         |
| 61810130       | TBW 4700            | 119.9                              | 39.9                 | 4.3                                | 1.0         |
| 61810140       | TBM 0750            | 19.1                               | 5.6                  | 2.0                                | 5.0         |
| 61810150       | TBM 1100            | 27.9                               | 10.2                 | 2.0                                | 3.0         |
| 61810160       | TBM 1500            | 38.1                               | 12.7                 | 2.0                                | 2.0         |
| 61810170       | TBM 2050            | 52.1                               | 19.1                 | 2.0                                | 1.0         |
| 61810180       | TBM 3500            | 88.9                               | 30.0                 | 2.4                                | 1.0         |
| 61810190       | TBM 6700            | 170.2                              | 58.4                 | 2.8                                | 1.0         |
| 61810200       | TBM 9000            | 228.6                              | 77.0                 | 3.0                                | 1.0         |

Photographs are not to scale and do not represent detailed images of the respective products.

## CMP shrink tube

### Application range

- CMP is primarily used as mechanical and electrical insulation and as corrosion protection.

### Approvals



### Design

- Other colours are available upon request
- Article designation e.g. red-2: CMP 46-2-A
- Red-2, yellow-4, white-9, blue-6, transparent-C.

### Included

- Cartons with 1.22 m units

### Technical data



**General**  
Self-extinguishing



**Approvals**  
UL-listed



**Note**  
Dielectric strength: 20 kV/mm  
Length change during shrinking: maximum ±10 %



**Info**  
Shrinking temperature: +110°C  
Shrinking ratio: 2:1



**Colour delivered**  
Black  
Transparent = halogen-free



**Material**  
Cross-linked modified polyolefin



**Temperature range**  
-55°C to +125°C



| Article number | Article description | Internal Ø before contraction (mm) | Shrinkage range (mm) | Panel thickness, shrunk ± 0.1 mm | Contents (m) | PU |
|----------------|---------------------|------------------------------------|----------------------|----------------------------------|--------------|----|
| 61744530       | CMP 46-0-A          | 1.2                                | 1.2 - 0.6            | 0.4                              | 30.5         | 1  |
| 61744540       | CMP 63-0-A          | 1.6                                | 1.6 - 0.8            | 0.4                              | 30.5         | 1  |
| 61744550       | CMP 93-0-A          | 2.4                                | 2.4 - 1.2            | 0.5                              | 30.5         | 1  |
| 61744560       | CMP 125-0-A         | 3.2                                | 3.2 - 1.6            | 0.5                              | 30.5         | 1  |
| 61744570       | CMP 187-0-A         | 4.7                                | 4.7 - 2.4            | 0.5                              | 30.5         | 1  |
| 61744580       | CMP 250-0-A         | 6.4                                | 6.4 - 3.2            | 0.6                              | 30.5         | 1  |
| 61744590       | CMP 375-0-A         | 9.5                                | 9.5 - 4.8            | 0.6                              | 30.5         | 1  |
| 61744600       | CMP 500-0-A         | 12.7                               | 12.7 - 6.4           | 0.7                              | 30.5         | 1  |
| 61744610       | CMP 750-0-A         | 19.1                               | 19.1 - 9.5           | 0.7                              | 12.2         | 1  |
| 61744620       | CMP 1000-0-A        | 25.4                               | 25.4 - 12.7          | 0.8                              | 12.2         | 1  |

Other colours are available upon request (see description).

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- HG 2310 LCD hot-air pistol refer to page 948

## GYS shrink tube

### Application range

- This green-yellow polyolefin shrinking tube is used for electrical and mechanical insulation, corrosion protection, as well as for identifying and marking earthing connections and cables.

### Approvals



### Design

- Green-yellow polyolefin shrink-tubing

### Included

- Cartons with 1.22 m units

### Technical data



**General**  
Dielectric strength: 20 kV/mm



**Info**  
Length change during shrinking: maximum ±10 %  
Shrinking ratio: 2:1



**Material**  
Cross-linked modified polyolefin  
UV-resistant



**Temperature range**  
-55°C to +135°C  
Shrinking temperature: +120°C



| Article number | Article description | Internal Ø before contraction (mm) | Shrinkage range (mm) | Panel thickness, shrunk ± 0.1 mm | Contents (m) | PU |
|----------------|---------------------|------------------------------------|----------------------|----------------------------------|--------------|----|
| 61744535       | GYS 125-E-A         | 3.2                                | 3.2 - 1.6            | 0.5                              | 30.5         | 1  |
| 61744545       | GYS 187-E-A         | 4.8                                | 4.8 - 2.4            | 0.5                              | 30.5         | 1  |
| 61744555       | GYS 250-E-A         | 6.4                                | 6.4 - 3.2            | 0.6                              | 30.5         | 1  |
| 61744565       | GYS 375-E-A         | 9.5                                | 9.5 - 4.8            | 0.6                              | 30.5         | 1  |
| 61744575       | GYS 500-E-A         | 12.7                               | 12.7 - 6.4           | 0.6                              | 30.5         | 1  |
| 61744585       | GYS 750-E-A         | 19.0                               | 19.0 - 9.5           | 0.7                              | 12.2         | 1  |
| 61744595       | GYS 1000-E-A        | 25.4                               | 25.4 - 12.7          | 0.8                              | 12.2         | 1  |

Photographs are not to scale and do not represent detailed images of the respective products.

## PKG shrink tube



## ■ Benefits

- Flame-retardant
- Good chemical-resistance
- High mechanical stability
- Good weather-resistance

## ■ Application range

- High shrink ratio and adhesive coating
- The semi-stiff tube is mainly used as a protection from moisture and corrosion.

## ■ Approvals



## ■ Included

- Cartons with 0.6 m units

## ■ Suitable tools

- HG 2310 LCD hot-air pistol refer to page 948

## ■ Technical data



## General

Shrinking ratio 3:1  
Length change during shrinking: maximum ± 15 %



## Note

Dielectric strength: 10 kV/mm



## Colour delivered

Black



## Material

Cross-linked modified polyolefin, with thermoplastic adhesive coating inside



## Temperature range

-55°C to +110°C

| Article number | Article description | Internal Ø before contraction (mm) | Shrinkage range (mm) | Panel thickness, shrunk + 0.1 mm | Contents (m) | PU |
|----------------|---------------------|------------------------------------|----------------------|----------------------------------|--------------|----|
| 61810850       | PKG 0301-0-C        | 3.0                                | 3.0 - 1.0            | 1.0                              | 12.0         | 1  |
| 61810860       | PKG 0602-0-C        | 6.0                                | 6.0 - 2.0            | 1.0                              | 9.0          | 1  |
| 61810870       | PKG 0903-0-C        | 9.0                                | 9.0 - 3.0            | 1.4                              | 6.0          | 1  |
| 61810890       | PKG 1204-0-C        | 12.0                               | 12.0 - 4.0           | 1.8                              | 5.4          | 1  |
| 61810900       | PKG 1806-0-C        | 18.0                               | 18.0 - 6.0           | 2.2                              | 3.6          | 1  |
| 61810910       | PKG 2408-0-C        | 24.0                               | 24.0 - 8.0           | 2.5                              | 3.0          | 1  |
| 61810920       | PKG 4013-0-C        | 40.0                               | 40.0 - 13.0          | 2.5                              | 2.4          | 1  |

Photographs are not to scale and do not represent detailed images of the respective products.

## HG 2310 LCD hot-air pistol



## ■ Benefits

- Individual adaptation of the four preset programs
- Four programmes are preset in the factory
- Optical LCD temperature and speed display
- High-performance, electronically regulated professional hot-air blower with continuous air flow and temperature regulation and LCD display

## ■ Application range

- Robust housing for manual and stationary operation.
- Control cabinets and equipment wiring

## ■ Product features

- Adjustable temperature setting
- Double protection against overheating - thermostat and thermal fuse
- Air inlet with mesh to protect against coarse impurities
- Adjustable speed setting

## ■ Approvals



## ■ Design

- Soft grip and soft stand for secure hold
- Set-button: for changing pre-adjusted programmes
- Programs: set ex-works

## ■ Included

- Hot-air pistol, reflector set, case

| Article number | Article description                | Max. heating capacity | Attainable air temperature | Pieces / PU |
|----------------|------------------------------------|-----------------------|----------------------------|-------------|
| 61801245       | HG 2310 LCD incl. reflector + case | 2,300.0               | 650.0                      | 1.0         |

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- PLG - HSB box shrink tube refer to page 946
- TBW / TBM shrink tube refer to page 946

## TEB branch muff

### Benefits

- Secure sealing through thermoplastic adhesive coating on the inside
- Good resistance to chemicals and solvents
- Ensures high tensile strength and mechanical protection

### Application range

- Insulation and sealing of cable splices

### Approvals



- Protection rating: IP67

### Design

- Double-walled

### Technical data



**General**  
UV-resistant



**Note**  
Shrinking ratio: > 2:1  
Shrinking temperature: +120 °C



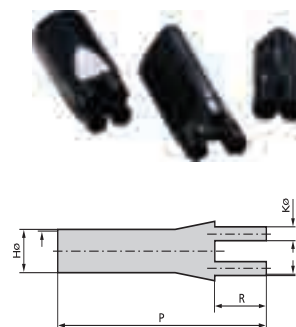
**Colour delivered**  
Black



**Material**  
Cross-linked modified polyolefin, with thermoplastic adhesive coating inside  
Halogen and cadmium-free



**Temperature range**  
-50 °C to +100 °C



| Article number | Article description | Number of cores | H min. (mm) | H max. (mm) | K min. (mm) | K max. (mm) | P* (mm) | R* (mm) | Pieces / PU |
|----------------|---------------------|-----------------|-------------|-------------|-------------|-------------|---------|---------|-------------|
| 61830110       | TEB 2-30 / 12       | 2.0             | 30.0        | 9.4         | 12.0        | 4.1         | 84.6    | 27.0    | 10.0        |
| 61830120       | TEB2-50 / 21        | 2.0             | 50.0        | 24.0        | 21.0        | 7.0         | 107.1   | 30.6    | 1.0         |
| 61830130       | TEB3-60 / 24        | 3.0             | 60.0        | 22.0        | 24.0        | 8.0         | 185.0   | 45.0    | 1.0         |
| 61830140       | TEB4-38 / 11        | 4.0             | 38.0        | 14.0        | 11.0        | 4.0         | 110.0   | 20.0    | 1.0         |
| 61830150       | TEB4-55 / 20        | 4.0             | 55.0        | 22.0        | 20.0        | 8.5         | 190.0   | 45.0    | 1.0         |
| 61830160       | TEB4-72 / 25        | 4.0             | 72.0        | 22.0        | 25.0        | 8.5         | 190.0   | 45.0    | 1.0         |
| 61830170       | TEB4-100 / 35       | 4.0             | 100.0       | 33.0        | 35.0        | 14.0        | 215.0   | 50.0    | 1.0         |

1. after shrinking +/- 10%; 2. after shrinking +/- 20%

Photographs are not to scale and do not represent detailed images of the respective products.

### Benefits

- Secure sealing through thermoplastic adhesive coating on the inside
- Good resistance to chemicals and solvents
- Ensures high tensile strength and mechanical protection

### Application range

- Cable end sealing

### Approvals



- Protection rating: IP67

### Design

- Double-walled
- For sealing cable ends against the seepage of moisture and contaminants

### Technical data



**General**  
UV-resistant



**Colour delivered**  
Black

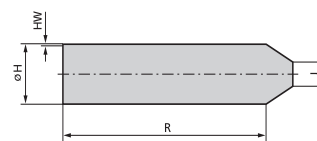


**Material**  
Cross-linked modified polyolefin, with thermoplastic adhesive coating inside  
Halogen and cadmium-free



**Temperature range**  
-50 °C to +100 °C

## TEC sealing cap



| Article number | Article description | H min. (mm) | H max. (mm) | J max. (mm) | Cable Ø (mm) | R* after shrinking (mm) | Panel thickness HW* (mm) | Pieces / PU |
|----------------|---------------------|-------------|-------------|-------------|--------------|-------------------------|--------------------------|-------------|
| 61830000       | TEC 15/4,5          | 15.0        | 4.5         | 4.0         | 5.0 - 12.0   | 30.0                    | 2.0                      | 10.0        |
| 61830010       | TEC 25/9            | 25.0        | 9.0         | 6.5         | 10.0 - 22.0  | 50.0                    | 2.3                      | 10.0        |
| 61830020       | TEC 36/15           | 36.0        | 15.0        | 10.5        | 17.0 - 30.0  | 80.0                    | 3.0                      | 10.0        |
| 61830040       | TEC 55/25           | 55.0        | 25.0        | 16.0        | 28.0 - 47.0  | 130.0                   | 3.3                      | 10.0        |
| 61830050       | TEC 80/40           | 80.0        | 40.0        | 17.0        | 45.0 - 70.0  | 150.0                   | 4.0                      | 10.0        |
| 61830060       | TEC 102/60          | 102.0       | 60.0        | 26.0        | 68.0 - 90.0  | 140.0                   | 4.0                      | 10.0        |
| 61830070       | TEC 148/57          | 148.0       | 57.0        | 27.0        | 80.0 - 133.0 | 105.0                   | 3.3                      | 10.0        |

Photographs are not to scale and do not represent detailed images of the respective products.

## SHRINK-KON® shrink tube set



## ■ Benefits

- Every model of the shrinking tubes is available as refill packs.
- Shockproof plastic case with content

## ■ Application range

- Shrink tube set
- The set is mainly used for repair and maintenance, for small series production and in research and development.

## ■ Approvals



## ■ Included

- The shrink set in a practical case
- It comes with an assortment of common shrinking tube sizes of type PLG.
- Shrink tube pieces: per 1 pack size, see refill packs
- Optional: with hot air pistol

## ■ Suitable tools

- HG 2310 LCD hot-air pistol refer to page 948

| Article number | Article description                           | Max. heating capacity | Attainable air temperature | Pieces / PU |
|----------------|-----------------------------------------------|-----------------------|----------------------------|-------------|
| 61753180       | SK 1400 G Shrink-Kon case with hot-air pistol | 2,000.0               | 650.0                      | 1.0         |

SHRINK-KON® is a registered trademark of Thomas & Betts

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- SHRINK-KON® set refill packs refer to page 950

## SHRINK-KON® set refill packs



## ■ Approvals



## ■ Included

- Shrink tube set

| Article number | Article designation | Colour      | Internal Ø before contraction (mm) | Shrinkage range (mm) | Panel thickness, shrunk in mm | Piece x cm / PU | PU |
|----------------|---------------------|-------------|------------------------------------|----------------------|-------------------------------|-----------------|----|
| 61753190       | PLG 63-0-5R         | black       | 1.6                                | 0.8 - 1.6            | 0.4                           | 50 x 5          | 1  |
| 61753200       | PLG 63-C-5R         | transparent | 1.6                                | 0.8 - 1.6            | 0.4                           | 50 x 5          | 1  |
| 61753210       | PLG 93-0-5R         | black       | 2.4                                | 1.2 - 2.4            | 0.5                           | 50 x 5          | 1  |
| 61753220       | PLG 93-C-5R         | transparent | 2.4                                | 1.2 - 2.4            | 0.5                           | 50 x 5          | 1  |
| 61753260       | PLG 125-0-10R       | black       | 3.2                                | 1.6 - 3.2            | 0.5                           | 25 x 10         | 1  |
| 61753250       | PLG 125-C-10R       | transparent | 3.2                                | 1.6 - 3.2            | 0.5                           | 25 x 10         | 1  |
| 61753230       | PLG 125-9-10R       | white       | 3.2                                | 1.6 - 3.2            | 0.5                           | 25 x 10         | 1  |
| 61753240       | PLG 125-4-10R       | yellow      | 3.2                                | 1.6 - 3.2            | 0.5                           | 25 x 10         | 1  |
| 61753270       | PLG 187-0-10R       | black       | 4.7                                | 2.4 - 4.7            | 0.5                           | 25 x 10         | 1  |
| 61753300       | PLG 187-C-5R        | transparent | 4.7                                | 2.4 - 4.7            | 0.5                           | 40 x 5          | 1  |
| 61753290       | PLG 187-4-5R        | yellow      | 4.7                                | 2.4 - 4.7            | 0.5                           | 40 x 5          | 1  |
| 61753280       | PLG 187-6-5R        | blue        | 4.7                                | 2.4 - 4.7            | 0.5                           | 40 x 5          | 1  |
| 61753320       | PLG 250-0-10R       | black       | 6.4                                | 3.2 - 6.4            | 0.6                           | 20 x 10         | 1  |
| 61753330       | PLG 250-9-5R        | white       | 6.4                                | 3.2 - 6.4            | 0.6                           | 40 x 5          | 1  |
| 61753340       | PLG 250-4-5R        | yellow      | 6.4                                | 3.2 - 6.4            | 0.6                           | 40 x 5          | 1  |
| 61753310       | PLG 250-6-10R       | blue        | 6.4                                | 3.2 - 6.4            | 0.6                           | 20 x 10         | 1  |
| 61753350       | PLG 375-0-10R       | black       | 9.5                                | 4.7 - 9.5            | 0.6                           | 15 x 10         | 1  |
| 61753360       | PLG 375-6-10R       | blue        | 9.5                                | 4.7 - 9.5            | 0.6                           | 15 x 10         | 1  |
| 61753380       | PLG 500-0-18R       | black       | 12.7                               | 6.4 - 12.7           | 0.6                           | 8 x 18          | 1  |
| 61753370       | PLG 500-2-10R       | red         | 12.7                               | 6.4 - 12.7           | 0.6                           | 15 x 10         | 1  |
| 61753400       | PLG 750-0-18R       | black       | 19.1                               | 9.5 - 19.1           | 0.8                           | 6 x 18          | 1  |
| 61753390       | PLG 750-6-10R       | blue        | 19.1                               | 9.5 - 19.1           | 0.8                           | 10 x 10         | 1  |
| 61753410       | PLG 1000-0-18R      | black       | 25.4                               | 12.7 - 25.4          | 0.9                           | 3 x 18          | 1  |

Photographs are not to scale and do not represent detailed images of the respective products.

## NW nylon coil / KW plastic coil



NW nylon coil



### Benefits

#### KW plastic coil

- The flexibility of the cables is largely preserved
- Spiral-shaped cut tube
- For time-saving cable and wire bundling

### Application range

#### KW plastic coil

- For the manufacturing of cable harnesses with branch-offs
- For protection against mechanical stress

#### NW nylon coil

- For applications, refer to KW plastic coil

### Approvals



### Design

#### NW nylon coil

- Nylon tape/plastic coil and coiling tool

### Technical data



**General**  
**KW plastic coil**  
UV-resistant



**Approvals**  
**KW plastic coil**  
Flammability class: UL 94 V-0



**Note**  
**NW nylon coil**  
UV-resistant



**Material**  
**KW plastic coil**  
Polyamide - black  
Polyethylen - nature  
**NW nylon coil**  
Fine-profile corrugated polyamide 12 conduit  
Flammability class: UL 94 V-0



**Temperature range**  
**KW plastic coil**  
-40 °C to +90 °C  
**NW nylon coil**  
Dynamic application: -15 °C to +80 °C  
Fixed application: -15 °C to +100 °C

| Article number         | Article description  | Colour / bundle Ø (mm) | Contents (m) |
|------------------------|----------------------|------------------------|--------------|
| <b>KW plastic coil</b> |                      |                        |              |
| 61600010               | Plastic spiral KW 3  | nature / 2 - 7         | 50           |
| 61600015               | Plastic spiral KW 3  | black / 2 - 7          | 50           |
| 61600040               | Plastic spiral KW 5  | nature / 5 - 20        | 30           |
| 61600045               | Plastic spiral KW 5  | black / 5 - 20         | 25           |
| 61600050               | Plastic spiral KW 5  | yellow / 5 - 20        | 25           |
| 61600070               | Plastic spiral KW 12 | nature / 10 - 40       | 30           |
| 61722840               | Plastic spiral KW 12 | black / 10 - 40        | 25           |
| 61600080               | Plastic spiral KW 12 | yellow / 10 - 40       | 25           |
| <b>NW nylon coil</b>   |                      |                        |              |
| 61600100               | Nylon spiral NW 5    | white / 5 - 20         | 50           |
| 61600130               | Nylon spiral NW 10   | colourless / 10 - 40   | 100          |

Other sizes and colours are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

#### KW plastic coil

- Coiling tool spirals refer to page 951

## Coiling tool spirals



### Application range

- This small coiling tool for winding coils can make work significantly easier.

### Design

- Nylon tape/plastic coil and coiling tool

| Article number | Article description | Pieces / PU |
|----------------|---------------------|-------------|
| 61759940       | Winding tool        | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Cable-Eater bunched cable conduit



Cable-Eater bunched cable conduit

## ■ Benefits

- The cable eater offers the ideal solution for bundling cable/wires.

## ■ Application range

- The main fields of application include the bundling and protection of cables in cable pre-assembly, the electrical industry and switch cabinet and plant construction.

## ■ Approvals



## ■ Included

- Suitable insertion tool
- SHR protective cable conduit

## ■ Technical data



## Note

Halogen-free  
Flame-retardant according to UL 94 HB



## Colour delivered

White  
Black



## Material

Polypropylene (PP)  
UV-resistant

| Article number | Article description | Colour / bundle Ø (mm) | Inner Ø (mm) | Panel thickness (mm) | Processing tool/installation tool | Contents (m) |
|----------------|---------------------|------------------------|--------------|----------------------|-----------------------------------|--------------|
| 61830300       | SHR-08-PPB          | black / 6 - 9          | 8.0          | 0.8                  | STKP 8                            | 100          |
| 61830310       | SHR-15-PPB          | black / 10 - 16        | 15.0         | 0.8                  | STKP 15                           | 50           |
| 61830320       | SHR-20-PPB          | black / 17 - 21        | 20.0         | 0.9                  | STKP 20                           | 30           |
| 61830330       | SHR-25-PPB          | black / 21 - 28        | 25.0         | 1.0                  | STKP 25                           | 20           |
| 61830302       | SHR-08-PPW          | white / 6 - 9          | 8.0          | 0.8                  | STKP 8                            | 100          |
| 61830312       | SHR-15-PPW          | white / 10 - 16        | 15.0         | 0.8                  | STKP 15                           | 50           |
| 61830322       | SHR-20-PPW          | white / 17 - 21        | 20.0         | 0.9                  | STKP 20                           | 30           |
| 61830332       | SHR-25-PPW          | white / 21 - 28        | 25.0         | 1.0                  | STKP 25                           | 20           |

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- Spare tool Cable - Eater refer to page 952

## Spare tool Cable - Eater



## ■ Application range

- Cable pull-in tool for SILVYN® RILL PA6 SINUS

## ■ Suitable conduits

- SILVYN® RILL PA6 SINUS Page 811

| Article number          | Article description | Pieces / PU |
|-------------------------|---------------------|-------------|
| <b>Cable Eater tool</b> |                     |             |
| 61830340                | CAT - 08 - PP       | 1           |
| 61830350                | CAT - 15 - PP       | 1           |
| 61830360                | CAT - 20 - PP       | 1           |
| 61830370                | CAT - 25 - PP       | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Basic Tie cable tie

### Benefits

- High resistance to bases, oils, greases, oil derivatives, solvents containing chlorine

### Application range

- Basic Tie is a multipurpose cable tie for many applications.

### Product features

- Flame retardancy: UL 94 class V2.
- Water absorption: 2.5 % (50 % relative humidity)

### Approvals



### Info

- The standard cable ties for many applications

### Technical data



#### General

Dielectric strength:  
50,000 volts/mm  
For higher tensile strength



#### Note

Melting point: +256°C



#### Material

Polyamide 6.6 - halogen-free



#### Temperature range

-40°C to +85°C  
Max. temperature: +110°C (short-term)



### Note

- Not resistant to phenols
- Limited resistance to acids

| Article number              | Article description    | UL approval | Length x width (mm) | Bundling Ø (mm) | Tensile strength (N) | PU    |
|-----------------------------|------------------------|-------------|---------------------|-----------------|----------------------|-------|
| <b>Natural colour</b>       |                        |             |                     |                 |                      |       |
| 61831001                    | Basic Tie 98x2.5 nat.  | yes         | 98.0 x 2.5          | 1.0 - 21.0      | 80                   | 1,000 |
| 61831003                    | Basic Tie 160x2.6 nat. | yes         | 160.0 x 2.6         | 1.0 - 40.0      | 80                   | 1,000 |
| 61831004                    | Basic Tie 200x2.6 nat. | yes         | 200.0 x 2.6         | 1.0 - 52.0      | 80                   | 1,000 |
| 61831005                    | Basic Tie 140x3.6 nat. | yes         | 140.0 x 3.6         | 2.0 - 35.0      | 130                  | 1,000 |
| 61831006                    | Basic Tie 200x3.6 nat. | yes         | 200.0 x 3.6         | 2.0 - 50.0      | 130                  | 1,000 |
| 61831007                    | Basic Tie 290x3.6 nat. | yes         | 290.0 x 3.6         | 2.0 - 80.0      | 130                  | 500   |
| 61831013                    | Basic Tie 370x3.6 nat. | yes         | 370.0 x 3.6         | 2.0 - 103.0     | 130                  | 100   |
| 61831009                    | Basic Tie 160x4.5 nat. | yes         | 160.0 x 4.5         | 2.5 - 40.0      | 220                  | 1,000 |
| 61831011                    | Basic Tie 200x4.8 nat. | yes         | 200.0 x 4.8         | 3.0 - 50.0      | 220                  | 1,000 |
| 61831014                    | Basic Tie 290x4.8 nat. | yes         | 290.0 x 4.8         | 3.5 - 79.0      | 220                  | 100   |
| 61831016                    | Basic Tie 360x4.8 nat. | yes         | 360.0 x 4.8         | 3.5 - 103.0     | 220                  | 100   |
| 61831020                    | Basic Tie 240x7.8 nat. | yes         | 240.0 x 7.8         | 3.5 - 63.0      | 540                  | 100   |
| 61831021                    | Basic Tie 300x7.8 nat. | yes         | 300.0 x 7.8         | 4.0 - 80.0      | 540                  | 100   |
| 61831022                    | Basic Tie 365x7.8 nat. | yes         | 365.0 x 7.8         | 8.0 - 100.0     | 540                  | 100   |
| 61831023                    | Basic Tie 450x7.8 nat. | yes         | 450.0 x 7.8         | 35.0 - 130.0    | 540                  | 100   |
| 61831024                    | Basic Tie 540x7.8 nat. | yes         | 540.0 x 7.8         | 35.0 - 158.0    | 540                  | 100   |
| 61831025                    | Basic Tie 750x7.8 nat. | yes         | 750.0 x 7.8         | 35.0 - 200.0    | 540                  | 100   |
| 61831026                    | Basic Tie 780x9.0 nat. | yes         | 780.0 x 9.0         | 32.0 - 233.0    | 700                  | 100   |
| <b>UV-resistant - black</b> |                        |             |                     |                 |                      |       |
| 61831041                    | Basic Tie 98x2.5 bk    | yes         | 98.0 x 2.5          | 1.0 - 21.0      | 80                   | 1,000 |
| 61831043                    | Basic Tie 160x2.6 bk   | yes         | 160.0 x 2.6         | 1.0 - 40.0      | 80                   | 1,000 |
| 61831044                    | Basic Tie 200x2.6 bk   | yes         | 200.0 x 2.6         | 1.0 - 52.0      | 80                   | 1,000 |
| 61831045                    | Basic Tie 140x3.6 bk   | yes         | 140.0 x 3.6         | 2.0 - 35.0      | 130                  | 1,000 |
| 61831046                    | Basic Tie 200x3.6 bk   | yes         | 200.0 x 3.6         | 2.0 - 50.0      | 130                  | 1,000 |
| 61831047                    | Basic Tie 290x3.6 bk   | yes         | 290.0 x 3.6         | 2.0 - 80.0      | 130                  | 500   |
| 61831053                    | Basic Tie 370x3.6 bk   | yes         | 370.0 x 3.6         | 2.0 - 103.0     | 130                  | 100   |
| 61831049                    | Basic Tie 160x4.5 bk   | yes         | 160.0 x 4.5         | 2.5 - 40.0      | 220                  | 1,000 |
| 61831051                    | Basic Tie 200x4.8 bk   | yes         | 200.0 x 4.8         | 3.0 - 50.0      | 220                  | 1,000 |
| 61831054                    | Basic Tie 290x4.8 bk   | yes         | 290.0 x 4.8         | 3.5 - 79.0      | 220                  | 100   |
| 61831056                    | Basic Tie 360x4.8 bk   | yes         | 360.0 x 4.8         | 3.5 - 103.0     | 220                  | 100   |
| 61831060                    | Basic Tie 240x7.8 bk   | yes         | 240.0 x 7.8         | 3.5 - 63.0      | 540                  | 100   |
| 61831061                    | Basic Tie 300x7.8 bk   | yes         | 300.0 x 7.8         | 4.0 - 80.0      | 540                  | 100   |
| 61831062                    | Basic Tie 365x7.8 bk   | yes         | 365.0 x 7.8         | 8.0 - 100.0     | 540                  | 100   |
| 61831063                    | Basic Tie 450x7.8 bk   | yes         | 450.0 x 7.8         | 35.0 - 130.0    | 540                  | 100   |
| 61831064                    | Basic Tie 540x7.8 bk   | yes         | 540.0 x 7.8         | 35.0 - 158.0    | 540                  | 100   |
| 61831065                    | Basic Tie 750x7.8 bk   | yes         | 750.0 x 7.8         | 35.0 - 200.0    | 540                  | 100   |
| 61831066                    | Basic Tie 780x9.0 bk   | yes         | 780.0 x 9.0         | 32.0 - 233.0    | 700                  | 100   |

Photographs are not to scale and do not represent detailed images of the respective products.

## Twist Tail™ cable tie



Twist Tail™ Kabelbinder



## ■ Benefits

- The round, flat, edge-free tie-heads allow assembly without getting caught and protect against injury and damage at adjacent cables and components.
- The cable tie can be gripped securely for easy tightening.
- In addition, the safety-grip tab prevents the tie from slipping out during assembly, and secures it before tightening by hand.

## ■ Application range

- Industrial cable ties for quick and secure assembly
- General purpose applications, indoors and outdoors

## ■ Approvals



## ■ Design

- Wrap the cable tie around a bundle of cables, bend the excess tail in two directions and twist. The tail breaks right off, leaving no sharp edges to scratch your hands or your cables.
- Available in 3 different lengths and 2 colours (white and UV-resistant black)



## Info

- No special tool needed
- Worked instantly

## ■ Technical data



## General

Tensile strength: 133 N



## Approvals

Flammability class: UL 94 V-2/polyamide 6.6



## Note

Halogen-free  
silicone-free

## Colour delivered

Black (RAL 9005), UV-resistant  
white

## Material

Polyamide 6.6



## Temperature range

-40°C to +85°C

| Article number                        | Article description     | UL approval | Length (mm) | Max. bundle Ø (mm) | Pieces / PU |
|---------------------------------------|-------------------------|-------------|-------------|--------------------|-------------|
| <b>white</b>                          |                         |             |             |                    |             |
| 61832007                              | TWIST TAIL TT-7-30-9-L  | yes         | 181         | 45.0               | 50          |
| 61832009                              | TWIST TAIL TT-11-30-9-L | yes         | 282         | 76.0               | 50          |
| 61832011                              | TWIST TAIL TT-14-30-9-L | yes         | 358         | 102.0              | 50          |
| <b>Black (RAL 9005), UV-resistant</b> |                         |             |             |                    |             |
| 61832008                              | TWIST TAIL TT-7-30-0-L  | yes         | 181         | 45.0               | 50          |
| 61832010                              | TWIST TAIL TT-11-30-0-L | yes         | 282         | 76.0               | 50          |
| 61832012                              | TWIST TAIL TT-14-30-0-L | yes         | 358         | 102.0              | 50          |

TWIST TAIL™ is a registered trademark of Thomas &amp; Betts

Photographs are not to scale and do not represent detailed images of the respective products.



## TY - FAST® - UV-resistant cable ties / TY - FAST® standard cable ties



TY - FAST® standard cable ties

### ■ Benefits

#### TY - FAST® standard cable ties

- TY-FAST® cable ties have low threading and high tying forces due to their integrated lock.
- The round, flat, edge-free tie-heads allow assembly without getting caught and protect against injury and damage at adjacent cables and components.
- The raised tie end and the "SURE-GRIP" gripping profile on both sides of the tie end offer improved grip.
- The cable tie can be gripped securely for easy tightening.
- In addition, the safety-grip tab prevents the tie from slipping out during assembly, and secures it before tightening by hand or with a tool.

### ■ Application range

#### TY - FAST® standard cable ties

- Cable ties for industrial applications
- Industrial cable ties for quick and secure assembly

#### TY - FAST®- UV-resistant cable ties

- Cable ties for industrial applications

### ■ Approvals



#### TY - FAST® standard cable ties

- File Number E49405, see table

### ■ Design

#### TY - FAST®- UV-resistant cable ties

- TY-FAST® cable ties are also available in UV-resistant and weather-resistant design, in black.
- The description for these cable ties are marked with "x".

### ■ Suitable tools

- TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers refer to page 962

### ■ Technical data



#### Approvals

##### TY - FAST® standard cable ties

Flammability class: UL 94 V-2/polyamide 6.6



#### Info

##### TY - FAST®- UV-resistant cable ties

In black colour UV-resistant and weather-proofed  
Halogen-free



#### Colour delivered

##### TY - FAST®- UV-resistant cable ties

Black



#### Material

##### TY - FAST® standard cable ties

Polyamide 6.6 - halogen-free

##### TY - FAST®- UV-resistant cable ties

Polyamide 6.6



#### Temperature range

-40 °C to +80 °C

| Article number              | Article description | UL approval | Length x width (mm) | Bundling Ø (mm) | Tensile strength (N) | Pieces / PU |
|-----------------------------|---------------------|-------------|---------------------|-----------------|----------------------|-------------|
| <b>Natural colour</b>       |                     |             |                     |                 |                      |             |
| 61810350                    | TY100-18            | yes         | 111.0 x 2.4         | 25.0            | 80.0                 | 1,000       |
| 61810360                    | TY125-18            | yes         | 136.0 x 2.4         | 32.0            | 80.0                 | 1,000       |
| 61810370                    | TY200-18            | yes         | 197.0 x 2.4         | 50.0            | 80.0                 | 1,000       |
| 61810380                    | TY125-40            | yes         | 142.0 x 3.6         | 32.0            | 180.0                | 1,000       |
| 61810390                    | TY200-40            | yes         | 205.0 x 3.6         | 50.0            | 180.0                | 1,000       |
| 61810400                    | TY300-40            | yes         | 290.0 x 3.6         | 76.0            | 180.0                | 1,000       |
| 61810410                    | TY175-50            | yes         | 186.0 x 4.7         | 44.0            | 220.0                | 1,000       |
| 61810420                    | TY300-50            | yes         | 291.0 x 4.7         | 76.0            | 220.0                | 1,000       |
| 61810430                    | TY400-50            | yes         | 368.0 x 4.7         | 102.0           | 220.0                | 1,000       |
| 61810440                    | TY200-120           | no          | 219.0 x 7.6         | 50.0            | 540.0                | 500         |
| 61810450                    | TY400-120           | yes         | 365.0 x 7.6         | 102.0           | 540.0                | 500         |
| <b>UV-resistant - black</b> |                     |             |                     |                 |                      |             |
| 61810460                    | TY100-18x           | yes         | 111.0 x 2.4         | 25.0            | 80.0                 | 1,000       |
| 61810470                    | TY125-18x           | yes         | 136.0 x 2.4         | 32.0            | 80.0                 | 1,000       |
| 61810480                    | TY200-18x           | yes         | 197.0 x 2.4         | 50.0            | 80.0                 | 1,000       |
| 61810490                    | TY125-40x           | yes         | 142.0 x 3.6         | 32.0            | 180.0                | 1,000       |
| 61810500                    | TY200-40x           | yes         | 205.0 x 3.6         | 50.0            | 180.0                | 1,000       |
| 61810510                    | TY300-40x           | yes         | 290.0 x 3.6         | 76.0            | 180.0                | 1,000       |
| 61810520                    | TY175-50x           | yes         | 186.0 x 4.7         | 44.0            | 220.0                | 1,000       |
| 61810530                    | TY300-50x           | yes         | 291.0 x 4.7         | 76.0            | 220.0                | 1,000       |
| 61810540                    | TY400-50x           | yes         | 368.0 x 4.7         | 102.0           | 220.0                | 1,000       |
| 61810550                    | TY200-120x          | no          | 219.0 x 7.6         | 50.0            | 540.0                | 500         |
| 61810560                    | TY400-120x          | no          | 365.0 x 7.6         | 102.0           | 540.0                | 500         |

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New

## TY-RAP® detectable cable ties



TY-RAP® Detektierbarer Kabelbinder

### Benefits

- Detectable cable ties with international FDA and HACCP hygiene monitoring regulations
- The round, flat, edge-free tie-heads allow assembly without getting caught and protect against injury and damage at adjacent cables and components.
- The cable tie can be gripped securely for easy tightening.
- In addition, the safety-grip tab prevents the tie from slipping out during assembly, and secures it before tightening by hand or with a tool.

### Application range

- Food and beverage industry, especially for production and processing equipment of milk and meat products
- Applications with strong chemical influences
- Pharmaceutical production

### Product features

- The new Ty-Rap® cable ties are designed with a unique compound that activate metal detectors, X-ray and visual recognition systems.

### Approvals



### Note

- Storage requirements: nylon (polyamide) is, by its nature, susceptible to external influences. Cable ties are mechanically moistened in order to ensure optimal use. As such, they must be stored in a cool, dry location and must not be exposed to direct sunlight. Cable ties are packed in plastic bags to retain moisture; these should remain closed until the cable ties are used.

### Suitable tools

- TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers refer to page 962

### Technical data



#### Approvals

Flammability class: UL 94 HB/polypropylene  
Flammability class: UL 94 V-2/polyamide 6.6



#### Colour delivered

Blue



#### Material

Polyamide 6.6 or polypropylene  
Halogen-free and silicone-free



#### Temperature range

-40°C up to +85°C

| Article number                  | Article description         | UL approval | Length x width (mm) | Bundling Ø (mm) | Tensile strength (N) | Pieces / PU |
|---------------------------------|-----------------------------|-------------|---------------------|-----------------|----------------------|-------------|
| <b>Detectable polyamide 6.6</b> |                             |             |                     |                 |                      |             |
| 61723351                        | Cable tie TY-RAP TY523M-NDT | no          | 92 x 2              | 2.0 - 6.0       | 80                   | 100         |
| 61723352                        | Cable tie TY-RAP TY525M-NDT | no          | 186 x 4             | 3.5 - 45.0      | 220                  | 100         |
| 61723353                        | Cable tie TY-RAP TY528M-NDT | no          | 360 x 4             | 3.5 - 102.0     | 220                  | 100         |
| 61723354                        | Cable tie TY-RAP TY527M-NDT | no          | 340 x 7             | 6.0 - 90.0      | 540                  | 50          |
| <b>Detectable polypropylene</b> |                             |             |                     |                 |                      |             |
| 61723355                        | Cable tie TY-RAP TY523M-PDT | no          | 92 x 2              | 2.0 - 16.0      | 50                   | 100         |
| 61723356                        | Cable tie TY-RAP TY525M-PDT | no          | 186 x 4             | 3.5 - 45.0      | 130                  | 100         |
| 61723357                        | Cable tie TY-RAP TY528M-PDT | no          | 360 x 4             | 3.5 - 102.0     | 130                  | 100         |
| 61723358                        | Cable tie TY-RAP TY527M-PDT | no          | 340 x 7             | 6.0 - 90.0      | 270                  | 50          |

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## TY- RAP® standard cable ties



TY- RAP® standard cable ties

### Benefits

- The blade ensures secure and durable binding
- The high strength is constant even under harsh conditions: extreme temperature ranges, humidity and extreme cold.
- The lock is also resistant to shocks and vibrations.

### Application range

- Good quality cable ties with steel blade

### Product features

- The steel blade is fixed to the tie head and is made from corrosion-resistant, anti-magnetic steel (type 316).

### Approvals



- File Number E49405, see table

### Design

- Cable ties with steel blade
- Standard colour: natural

### Included

- Items provided with the add-in "B" are supplied in a handy workbox, where the cable ties are arranged properly.
- The TY-RAP® is packed in a recyclable plastic bag.

### Suitable tools

- TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers refer to page 962

### Technical data

- Note**  
Steel blade: anti-magnetic steel 316
- Material**  
Polyamide 6.6  
Halogen-free
- Temperature range**  
-40 °C to +80 °C

| Article number          | Article description | UL approval | Length x width (mm) | Bundling Ø (mm) | Tensile strength (N) | Pieces / PU |
|-------------------------|---------------------|-------------|---------------------|-----------------|----------------------|-------------|
| <b>TY-RAP® Standard</b> |                     |             |                     |                 |                      |             |
| 61715000                | TYB* 23 M           | no          | 92.0 x 2.4          | 2.0 - 16.0      | 80.0                 | 1,000       |
| 61716250                | TY 232 M            | yes         | 200.0 x 2.4         | 2.0 - 50.0      | 80.0                 | 1,000       |
| 61716310                | TY 234 M            | yes         | 356.0 x 2.4         | 2.0 - 102.0     | 80.0                 | 1,000       |
| 61715060                | TYB* 24 M           | no          | 140.0 x 3.6         | 2.0 - 29.0      | 180.0                | 1,000       |
| 61716370                | TY 242 M            | yes         | 208.0 x 3.6         | 2.0 - 50.0      | 180.0                | 1,000       |
| 61715180                | TY 26 M             | yes         | 281.0 x 3.6         | 2.0 - 76.0      | 180.0                | 1,000       |
| 61716430                | TY 244 M            | yes         | 368.0 x 3.6         | 2.0 - 103.0     | 180.0                | 1,000       |
| 61715120                | TYB* 25 M           | no          | 186.0 x 4.8         | 3.5 - 45.0      | 220.0                | 1,000       |
| 61716490                | TY 253 M            | yes         | 293.0 x 4.8         | 3.5 - 78.0      | 220.0                | 1,000       |
| 61715300                | TY 28 M             | yes         | 360.0 x 4.8         | 3.5 - 102.0     | 220.0                | 1,000       |
| 61716550                | TY 272 M            | yes         | 223.0 x 7.6         | 6.0 - 50.0      | 540.0                | 500         |
| 61715240                | TY 27 M             | yes         | 340.0 x 7.0         | 6.0 - 90.0      | 540.0                | 500         |
| 61715360                | TY 29 M             | yes         | 762.0 x 7.6         | 6.0 - 229.0     | 540.0                | 500         |

B = box, otherwise plastic bag

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TY-RAP® Standard in other colours are available upon request (see description).

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## TY- RAP® heat-resistant cable ties



## ■ Benefits

- Contains all the advantages of TY-RAP®, with higher heat-resistance

## ■ Application range

- This temperature-resistant cable tie can be used in areas exposed to high temperatures such as electrical heating devices or heating installations.

## ■ Approvals



- File Number E49405, see table

## ■ Design

- Colour: yellow transparent
- Heat-resistant cable ties have the extension "M".

## ■ Technical data



## ■ Approvals

Flammability class: UL 94 V-2/polyamide 6.6



## ■ Info

Halogen-free and silicone-free



## ■ Material

Heat-resistant polyamide 6.6



## ■ Temperature range

-40°C to +100°C

## ■ Suitable tools

- TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers refer to page 962

| Article number                | Article description | UL approval | Length x width (mm) | Bundling Ø (mm) | Tensile strength (N) | Pieces / PU |
|-------------------------------|---------------------|-------------|---------------------|-----------------|----------------------|-------------|
| <b>TY-RAP® heat-resistant</b> |                     |             |                     |                 |                      |             |
| 61723470                      | TYH 23 M            | yes         | 92.0 x 2.4          | 2.0 - 16.0      | 80.0                 | 1,000       |
| 61723460                      | TYH 232 M           | yes         | 200.0 x 2.4         | 2.0 - 50.0      | 80.0                 | 1,000       |
| 61723440                      | TYH 24 M            | yes         | 140.0 x 3.6         | 2.0 - 29.0      | 180.0                | 1,000       |
| 61723430                      | TYH 242 M           | no          | 208.0 x 3.6         | 2.0 - 50.0      | 180.0                | 1,000       |
| 61723410                      | TYH 26 M            | yes         | 281.0 x 3.6         | 2.0 - 76.0      | 180.0                | 1,000       |
| 61723420                      | TYH 25 M            | yes         | 186.0 x 4.8         | 3.5 - 45.0      | 220.0                | 1,000       |
| 61723380                      | TYH 28 M            | yes         | 360.0 x 4.8         | 3.5 - 102.0     | 220.0                | 1,000       |
| 61723390                      | TYH 272 M           | no          | 223.0 x 7.6         | 6.0 - 50.0      | 540.0                | 500         |
| 61723400                      | TYH 27 M            | yes         | 340.0 x 7.0         | 6.0 - 90.0      | 540.0                | 500         |
| 61723350                      | TYH 29 M            | no          | 762.0 x 7.6         | 6.0 - 229.0     | 540.0                | 500         |

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## TY- RAP® weather-proof, UV-stabilised



## ■ Benefits

- Weather-resistant for harsh environmental conditions

## ■ Application range

- The TY-RAP® weather-resistant product is used outdoors for installation and maintenance of power plants.

## ■ Product features

- Heat and UV-resistant TY- RAP®

## ■ Approvals



- File Number E49405, see table



## ■ Info

- Good quality cable ties with steel blade

## ■ Technical data



## ■ Colour delivered

UV-resistant - black



## ■ Material

Polyamide 6.6 - halogen-free



## ■ Temperature range

-40°C to +85°C

| Article number                   | Article description | UL approval | Length x width (mm) | Bundling Ø (mm) | Tensile strength (N) | Pieces / PU |
|----------------------------------|---------------------|-------------|---------------------|-----------------|----------------------|-------------|
| <b>TY-RAP® weather-resistant</b> |                     |             |                     |                 |                      |             |
| 61723010                         | TYB* 23 MX          | no          | 92.0 x 2.4          | 2.0 - 16.0      | 80.0                 | 1,000       |
| 61723110                         | TY 232 MX           | no          | 200.0 x 2.4         | 2.0 - 50.0      | 80.0                 | 1,000       |
| 61723120                         | TY 234 MX           | no          | 356.0 x 2.4         | 2.0 - 102.0     | 80.0                 | 1,000       |
| 61723020                         | TYB* 24 MX          | no          | 140.0 x 3.6         | 2.0 - 29.0      | 180.0                | 1,000       |
| 61723130                         | TY 242 MX           | yes         | 208.0 x 3.6         | 2.0 - 50.0      | 180.0                | 1,000       |
| 61723040                         | TY 26 MX            | yes         | 281.0 x 3.6         | 2.0 - 76.0      | 180.0                | 1,000       |
| 61723140                         | TY 244 MX           | no          | 368.0 x 3.6         | 2.0 - 103.0     | 180.0                | 1,000       |
| 61723030                         | TYB* 25 MX          | no          | 186.0 x 4.8         | 3.5 - 45.0      | 220.0                | 1,000       |
| 61723150                         | TY 253 MX           | no          | 293.0 x 4.8         | 3.5 - 78.0      | 220.0                | 1,000       |
| 61723060                         | TY 28 MX            | yes         | 360.0 x 4.8         | 3.5 - 102.0     | 220.0                | 1,000       |
| 61723160                         | TY 272 MX           | no          | 223.0 x 7.6         | 6.0 - 50.0      | 540.0                | 500         |
| 61723050                         | TY 27 MX            | yes         | 340.0 x 7.0         | 6.0 - 90.0      | 540.0                | 500         |
| 61723070                         | TY 29 MX            | no          | 762.0 x 7.6         | 6.0 - 229.0     | 540.0                | 500         |

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## TY- RAP® for screwing on, cable ties

### Benefits

- These TY-RAP® cable ties allow installation and bundling in one step.

### Application range

- For assembly with screws, bolts and rivets.
- Simultaneous installation and bundling.
- They are used for cable assemblies, pre- and final installation of parts and bundles, and for maintenance-free installation of cables, ducts and similar applications.

### Approvals



- File Number E49405, see table

### Technical data



**Caution**  
Flammability class: UL 94 V-2/polyamide 6.6



**Material**  
Polyamide 6.6 - halogen-free



**Temperature range**  
-40 °C to +80 °C

### Design

- Cable ties with fasteners

### Suitable tools

- TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers refer to page 962



| Article number                 | Article description | UL approval | Hole Ø (mm) | Length x width (mm) | Bundling Ø (mm) | Tensile strength (N) | Pieces / PU |
|--------------------------------|---------------------|-------------|-------------|---------------------|-----------------|----------------------|-------------|
| <b>TY-RAP® for screwing on</b> |                     |             |             |                     |                 |                      |             |
| 61715420                       | TY 33 M             | yes         | 2.8         | 101.0 x 2.4         | 2.0 - 16.0      | 80                   | 1,000       |
| 61715480                       | TY 34 M             | yes         | 4.2         | 152.0 x 3.6         | 2.0 - 29.0      | 180                  | 1,000       |
| 61720000                       | TY 635 M            | yes         | 3.5         | 198.0 x 4.8         | 3.5 - 45.0      | 220                  | 1,000       |
| 61715540                       | TY 35 M             | yes         | 4.8         | 198.0 x 4.8         | 3.5 - 45.0      | 220                  | 1,000       |
| 61720070                       | TY 1435 M           | yes         | 6.3         | 198.0 x 4.8         | 3.5 - 45.0      | 220                  | 1,000       |
| 61715600                       | TY 37 M             | yes         | 6.3         | 354.0 x 7.6         | 6.0 - 90.0      | 540                  | 500         |

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## TY- RAP® with labelling area, cable ties

TY 51 M



TY 53 M / TY 532 M



TY- RAP® with labelling area, cable ties

### Benefits

- These cable ties allow binding and marking in one step.
- The cable ties are easy to use as all edges are rounded.
- The patented stainless steel locking hook guarantees a secure hold under harsh conditions.

### Application range

- Cables, cable bundles, hydraulic and pneumatic supply lines etc. can be marked and bundled or affixed simultaneously.

### Approvals



- File Number E49405, see table

### Design

- Cable ties with marking area
- TY 51 M  
Area positioned at right angle to the cable tie.
- TY 53 M / TY 532 M  
Area positioned above the lock at right angle to the cable tie.

### Suitable tools

- TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers refer to page 962

### Technical data



**Material**  
Polyamide 6.6 - halogen-free  
Flammability class: UL 94 V-2/polyamide 6.6



**Temperature range**  
-40 °C to +80 °C

| Article number                 | Article description | UL approval | Length x width (mm) | Bundling Ø (mm) | Labelling surface (mm) | Tensile strength (N) | Pieces / PU |
|--------------------------------|---------------------|-------------|---------------------|-----------------|------------------------|----------------------|-------------|
| <b>Right-angled surface</b>    |                     |             |                     |                 |                        |                      |             |
| 61716020                       | TY 51 M             | yes         | 92.0 x 2.4          | 10.0 - 16.0     | 25 x 8                 | 80                   | 500         |
| <b>Parallel surface</b>        |                     |             |                     |                 |                        |                      |             |
| 61715840                       | TY 46 MD            | yes         | 184.0 x 4.8         | 9.5 - 45.0      | 30 x 24                | 220 Double           | 500         |
| 61715880                       | TY 46 MT            | yes         | 184.0 x 4.8         | 9.5 - 45.0      | 46 x 24                | 220 Triple           | 500         |
| 61715920                       | TY 46 MF            | yes         | 184.0 x 4.8         | 9.5 - 45.0      | 63 x 24                | 220 Quadruple        | 250         |
| 61715780                       | TY 546 M            | yes         | 184.0 x 4.8         | 9.5 - 45.0      | 13 x 24                | 220                  | 100         |
| 61715950                       | TY 548 M            | yes         | 360.0 x 4.8         | 19.0 - 102.0    | 13 x 54                | 220                  | 100         |
| <b>Right-angled area above</b> |                     |             |                     |                 |                        |                      |             |
| 61716080                       | TY 53 M             | yes         | 102.0 x 2.4         | 2.0 - 16.0      | 21 x 9                 | 80                   | 500         |
| 61716560                       | TY 532 M            | yes         | 212.0 x 2.4         | 2.0 - 51.0      | 21 x 9                 | 80                   | 1,000       |

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Smaller packing units are available upon request.

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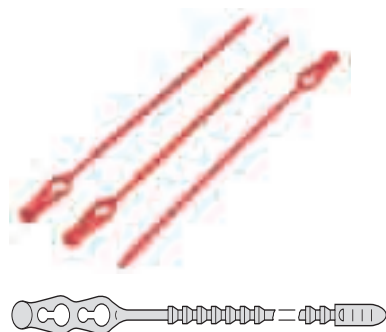
### Similar products

- KMK Marking labels refer to page 884

### Accessories

- MS Marker pens refer to page 891

## Quick ties KBS/ KB



## ■ Benefits

- Releasable cable tie

## ■ Application range

- With one or two-hole strip
- When something has to be bundled or fixed quickly at short notice.
- The KB two-hole latch quick ties are equipped with a two-hole strip for additional safety (threaded twice), for attaching another bundle, as a screw fastening, or for attaching markings or hanging signs.

## ■ Approvals



## ■ Design

- KBS one-hole latch
- Quick binder for simple application
- KBS two-hole latch
- Colours: black, red

## ■ Technical data



**Colour delivered**  
Black  
red



**Material**  
Polyethylene

| Article number           | Article description | UL approval | Length (mm) | Max. bundle Ø (mm) | Pieces / PU |
|--------------------------|---------------------|-------------|-------------|--------------------|-------------|
| <b>KBS - single-hole</b> |                     |             |             |                    |             |
| 61710110                 | KBS 12-red          | no          | 140         | 20.0               | 1,000       |
| 61721180                 | KBS 12-black        | no          | 120         | 20.0               | 1,000       |
| <b>KB - two-hole</b>     |                     |             |             |                    |             |
| 61710090                 | KB 12-red           | no          | 120         | 20.0               | 1,000       |
| 61721160                 | KB 12-black         | no          | 120         | 20.0               | 1,000       |
| 61710111                 | KB 18-red           | no          | 180         | 35.0               | 1,000       |
| 61710112                 | KB 18-black         | no          | 180         | 35.0               | 1,000       |
| 61710130                 | KB 24-red           | no          | 240         | 50.0               | 1,000       |
| 61721170                 | KB 24-black         | no          | 240         | 50.0               | 1,000       |
| 61710150                 | KB 27-red           | no          | 320         | 80.0               | 1,000       |
| 61721190                 | KB 27-black         | no          | 320         | 80.0               | 1,000       |
| 61710170                 | KB 70-red           | no          | 700         | 190.0              | 500         |
| 61721200                 | KB 70-black         | no          | 700         | 190.0              | 500         |

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## TY-GRIP® FOL/ FO cable tie



TY-GRIP® FOL/ FO cable tie

## ■ Benefits

- These ties can be quickly and easily opened, making them suitable for repeated use.
- This feature makes them ideal for applications where they frequently need to be changed or constant access is required.

## ■ Application range

- Textile cable tie

## ■ Approvals



## ■ Design

- FOL with strap  
Strap made of high-quality polymer provides additional stability and safety.
- FO with loop  
The slitted head makes quick and easy fastening possible.
- TY-GRIP + Mille-Tie™ releasable cable tie

| Article number                                                                      | Article description | UL approval | Length x width (mm) | Pieces / PU |
|-------------------------------------------------------------------------------------|---------------------|-------------|---------------------|-------------|
| <b>FO with loop</b>                                                                 |                     |             |                     |             |
| <b>The slitted head makes quick and easy fastening possible.</b>                    |                     |             |                     |             |
| 61823720                                                                            | FO 200-40-0         | no          | 228.0 x 12.7        | 10          |
| 61823730                                                                            | FO 350-40-0         | no          | 330.0 x 12.7        | 10          |
| <b>FOL with strap</b>                                                               |                     |             |                     |             |
| <b>Strap made of high-quality polymer provides additional stability and safety.</b> |                     |             |                     |             |
| 61823740                                                                            | FOL 300-50-0        | no          | 300.0 x 20.0        | 10          |
| 61823750                                                                            | FOL 500-50-0        | no          | 455.0 x 20.0        | 10          |

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## Mille-Tie™ cable ties



### Benefits

- Unique cable tie that adjusts and controls the tension automatically by means of a self-regulating mechanism.
- Damage of any kind to high-quality cables (e.g. CAT 5/6 or glass-fibre cable) is prevented and, in contrast to conventional cable ties, cable performance is not impaired.
- Fast assembly, because the binder can be mounted in any direction
- No sharp edges, avoids injuries
- No cable damage and crushing due to the elasticity of the tie

### Application range

- Cable ties for high-quality cables and complex cable management systems
- Due to its remarkable design, the Mille-Tie is suitable for use in complex cable-management systems.
- Intelligent bundle system - can be used as cable suspension or for multiple bundles

### Product features

- Reusable as it can be removed

### Technical data



**Material**  
TPE



**Temperature range**  
-20 °C to +80 °C

### Approvals



### Design

- One size for all applications

| Article number | Article description | Colour  | UL approval | Length (mm) | Pieces / PU |
|----------------|---------------------|---------|-------------|-------------|-------------|
| 61710200       | MT-00               | black   | no          | 305         | 100         |
| 61710201       | MT-01               | red     | no          | 305         | 100         |
| 61710202       | MT-02               | blue    | no          | 305         | 100         |
| 61710203       | MT-03               | yellow  | no          | 305         | 100         |
| 61710204       | MT-04               | green   | no          | 305         | 100         |
| 61710205       | MT-05               | natural | no          | 305         | 100         |
| 61710206       | MT-06               | grey    | no          | 305         | 100         |

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## LS steel cable ties



LS steel cable ties

### Benefits

- Flat binder heads mean minimum space is required.
- These stainless steel cable ties are self-locking. Time-consuming folding and crimping are no longer required.
- The steel ball at the end of the tie makes it easy to thread it in.
- If pulled in the opposite direction to re-open or loosen the tie, the ball is locked at the end of the tie and re-opening is impossible.

### Application range

- LS one-piece steel cable ties can be used outdoors and under extreme conditions, e.g. high corrosion risk.

- LS steel cable ties with width 7.9 mm are suitable for fixing NM FLEXIMARK® stainless steel labelling character carriers.

### Approvals



### Design

- Steel cable ties

### Suitable tools

- STEEL GUN HT-338 cable tie pliers refer to page 963

### Technical data



**General**  
Widths: 4.6 and 7.9 mm  
Lengths: 200 to 1016 mm



**Approvals**  
DNV 2397  
UL-listed



**Note**  
Bundling diameter: Up to 305 mm



**Material**  
Stainless steel AISI 316



**Temperature range**  
-80 °C up to +539 °C

| Article number | Article description | Length x width (mm) | Bundling Ø (mm) | Minimum tensile strength (N/mm²) | Pieces / PU |
|----------------|---------------------|---------------------|-----------------|----------------------------------|-------------|
| 61812950       | LS 4.6 - 200 B      | 200.0 x 4.6         | 51.0            | 45.3                             | 100         |
| 61812960       | LS 4.6 - 360 B      | 360.0 x 4.6         | 102.0           | 45.3                             | 100         |
| 61812970       | LS 4.6 - 520 B      | 520.0 x 4.6         | 152.0           | 45.3                             | 100         |
| 61812980       | LS 4.6 - 680 B      | 679.0 x 4.6         | 203.0           | 45.3                             | 100         |
| 61812990       | LS 4.6 - 840 B      | 838.0 x 4.6         | 254.0           | 45.3                             | 100         |
| 61813000       | LS 7.9 - 200 B      | 200.0 x 7.9         | 51.0            | 113.3                            | 100         |
| 61813010       | LS 7.9 - 360 B      | 360.0 x 7.9         | 102.0           | 113.3                            | 100         |
| 61813020       | LS 7.9 - 500 B      | 500.0 x 7.9         | 152.0           | 113.3                            | 100         |
| 61813030       | LS 7.9 - 680 A      | 679.0 x 7.9         | 203.0           | 113.3                            | 100         |
| 61813040       | LS 7.9 - 840 B      | 838.0 x 7.9         | 254.0           | 113.3                            | 100         |
| 61813050       | LS 7.9 - 1010 A     | 1,016.0 x 7.9       | 305.0           | 113.3                            | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

### Accessories

- FLEXIMARK® Stainless steel kit refer to page 872
- FLEXIMARK® Stainless steel FCC refer to page 875

For current information see: [www.lappgroup.com](http://www.lappgroup.com)

## TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers



## Info

- On request also available with pneumatical motor

## TY-GUN ERG 50 / TY-GUN ERG 120 cable tie pliers

## ■ Benefits

- The TY-GUN cable tie tool allows quick and economical binding, fixing and mounting of cable ties.
- Ergonomic design: user-friendly properties, suitable for use in inaccessible areas
- Less force required to secure the cable tie correctly
- Adjustable tension-setting and automatic cutting mechanism
- Large feed-opening makes inserting the cable ties easy

## ■ Application range

- For plastic cable ties
- Installation pistol

## ■ Product features

- Tip can be rotated 360° for easy assembly
- Anti-recoil mechanism prevents shaking

## ■ Design

- Interchangeable head for the other cable tie width is available as a component
- Also available with pneumatical drive

## ■ Technical data



## Caution

Tension: manually adjustable



## General

Cable tie width:  
TY-GUN ERG 50 2.4 - 4.8 mm  
TY-GUN ERG 120 4.8 - 7.6 mm  
Tip can be rotated 360° for easy assembly



## Note

Length (mm) x width (mm) x height (mm) 200 x 125 x 25



## Colour delivered

Orange  
Black



## Material

Shock-resistant polymer  
Soft rubber grip

| Article number                       | Article description                 | For cable ties | Cable tie width (mm) | Colour of handle | Weight (kg) | Pieces / PU |
|--------------------------------------|-------------------------------------|----------------|----------------------|------------------|-------------|-------------|
| <b>Mounting pistol TY-GUN ERG 50</b> |                                     |                |                      |                  |             |             |
| 62120120                             | Mounting pistol TY-GUN ERG 50       | Plastic        | 2.4 - 4.8            | black            | 0.24        | 1           |
| 62120121                             | TY-GUN ERG 50B spare blades         | Plastic        | 2.4 - 4.8            |                  |             | 1           |
| 62120122                             | TY-GUN ERG 50 interchangeable head  | Plastic        | 2.4 - 4.8            |                  |             | 1           |
| <b>TY-GUN ERG 120</b>                |                                     |                |                      |                  |             |             |
| 62120125                             | Mounting pistol TY-GUN ERG 120      | Plastic        | 4.8 - 7.6            | black            | 0.24        | 1           |
| 62120126                             | TY-GUN ERG 120B spare blades        | Plastic        | 4.8 - 7.6            |                  |             | 1           |
| 62120127                             | TY-GUN ERG 120 interchangeable head | Plastic        | 4.8 - 7.6            |                  |             | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## ■ Accessories

- TY - FAST® standard cable ties refer to page 955



## BASIC cable tie pliers

### ■ Benefits

- The tightening force can be adapted gradually.
- The pliers are a low-cost starter product.

### ■ Application range

- For plastic cable ties
- For tightening and cutting cable ties.



| Article number | Article description      | For cable ties | Cable tie width (mm) | LxH, mm   | Weight (kg) | PU |
|----------------|--------------------------|----------------|----------------------|-----------|-------------|----|
| 62120321       | BASIC - cable tie pliers | Plastic        | 2.2 - 4.8            | 160 x 130 | 0.31        | 1  |

Photographs are not to scale and do not represent detailed images of the respective products.

### ■ Accessories

- Basic Tie cable tie refer to page 953
- TY - FAST® standard cable ties refer to page 955

## STEEL GUN HT-338 cable tie pliers

### ■ Benefits

- The cable tie is automatically cut at its end once the required tension is achieved.
- Sharp edges are avoided.
- Handy processing tool for stainless steel ties.
- The stripping force can be adjusted in increments.

### ■ Application range

- For stainless steel cable ties



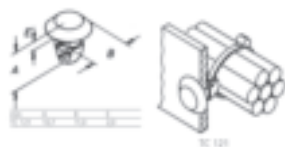
| Article number | Article description                       | For cable ties  | Max. cable tie width (mm) | LxH, mm   | Weight (kg) | Pieces / PU |
|----------------|-------------------------------------------|-----------------|---------------------------|-----------|-------------|-------------|
| 83250022       | FLEXIMARK Stainless steel tie gun HAT-338 | Stainless steel | 7.9                       | 178 x 140 | 0.56        | 1           |
| 83250023       | FLEXIMARK Spare part HT - 338             | -               | -                         | -         | 0,018       | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

### ■ Accessories

- LS steel cable ties refer to page 961

## TC 121 plug socket



### Benefits

- The plug-in socket has two openings for two different cable-tie sizes, while the plug nose and low height allows for flexible use.

### Application range

- Fastening elements for cable ties
- The quick and safe mounting method makes these plug-in sockets ideal for applications in control cabinet manufacture, household appliances, motor vehicles and office equipment.

### Approvals



### Design

- For cable ties: 2.8 / 4.8 mm

### Technical data



**Material**  
Polyamide 6.6

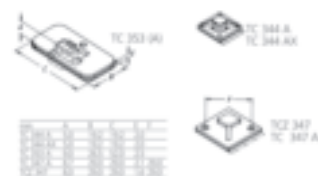


**Temperature range**  
-40 °C to +80 °C

| Article number | Article description | For wall thickness up to (mm) | Fastening opening (mm) | Tie width (mm) | Pieces / PU |
|----------------|---------------------|-------------------------------|------------------------|----------------|-------------|
| 61724000       | TC 121              | 3.3                           | 6.1                    | 2.4 - 4.8      | 1,000       |

Photographs are not to scale and do not represent detailed images of the respective products.

## TC tie socket



### Benefits

- These tie sockets have a low height and are easy to install.
- They can support extreme loads and can be glued permanently.

### Application range

- Fastening elements for cable ties
- For fastening cables harnesses or similar parts
- Typical areas of application are wiring in control cabinets, motor vehicles, office machines and similar.

### Product features

- The glue and screw tie sockets TC 344 A/ TC 344 AX/TC 347 A/TC 353 A have a foam coating to level out any unevenness on the mounting surface.
- Foam-coated adhesive area

### Approvals



### Design

- For the 344 and 347 types, the cross-mounting facilitates handling even in inaccessible areas.

### Included

- Without screws, rivets, etc.

### Technical data



**Material**  
Polyamide 6.6



**Temperature range**  
-40 °C to +80 °C

| Article number | Article description | Fastening type  | Material         | Adhesive strength on steel (N/cm) | Tie width (mm) | Weight (g/100 pieces) | Pieces / PU |
|----------------|---------------------|-----------------|------------------|-----------------------------------|----------------|-----------------------|-------------|
| 61742890       | TC 344 A            | Gluing/screwing | PA 6.6           | 76                                | 3.6            | 76                    | 1,000       |
| 61723895       | TC 344 AX           | Gluing/screwing | PA 6.6 UV stable | 72                                | 3.6            | 76                    | 1,000       |
| 61710070       | TC 347 A            | Gluing/screwing | PA 6.6           | 76                                | 7.6            | 240                   | 1,000       |
| 61744630       | TCZ 347             | Screws (4.2 mm) | Tefzel®          |                                   | 7.6            | 240                   | 500         |

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: [www.lappgroup.com](http://www.lappgroup.com)

## TC mounting socket with saddle

### Benefits

- Compact construction ensures high stability
- The prism-shaped saddle of this mounting socket enables torsion-safe fastening and bundling of cables.

### Application range

- Fastening elements for cable ties
- For fastening with screws or rivets
- Typical areas of application are process control systems, control cabinet manufacturing and mechanical engineering.

### Approvals



### Included

- Without screws, rivets, etc.

### Technical data



**Approvals**  
UL 94 V2



**Material**  
Halogen-free  
Polyamide 6.6



**Temperature range**  
-40 °C to +80 °C



| Article number | Article description | Fastening type | Material | Drill opening (mm) | Tie width (mm) | Weight (g/100 pieces) | Pieces / PU |
|----------------|---------------------|----------------|----------|--------------------|----------------|-----------------------|-------------|
| 61724920       | TC 140              | screwing       | PA 6.6   | 2.8                | 2.4            | 47                    | 500         |
| 61724510       | TC 141              | screwing       | PA 6.6   | 3.5                | 4.8            | 77                    | 500         |
| 61724910       | TC 142              | screwing       | PA 6.6   | 5.2                | 7.6            | 120                   | 500         |

Photographs are not to scale and do not represent detailed images of the respective products.

### Benefits

- This socket is distinguished by the lowest height and easy handling.

### Application range

- Fastening elements for cable ties
- Typical areas of application are control cabinet manufacture, motor vehicles, office machines.

### Approvals



### Included

- Without screws, rivets, etc.

### Technical data



**General**  
Fastening with counter-sunk screws or rivets



**Material**  
Polyamide 6.6  
Halogen-free



**Temperature range**  
-40 °C to +80 °C

## TC tie small socket



| Article number | Article description | Fastening type | Material | Drill opening (mm) | Tie width (mm) | Weight (g/100 pieces) | Pieces / PU |
|----------------|---------------------|----------------|----------|--------------------|----------------|-----------------------|-------------|
| 61724400       | TC 102              | screwing       | PA 6.6   | 4.2                | 4.8            | 48                    | 1,000       |
| 61724420       | TC 104              | screwing       | PA 6.6   | 3.2                | 2.4            | 11                    | 1,000       |
| 61724720       | TC 804              | screwing       | PA 6.6   | 2.4                | 2.4            | 13.5                  | 250         |

Photographs are not to scale and do not represent detailed images of the respective products.

## TC tie screw socket



### Benefits

- The light feed of the ties and the cross-holder for double mounting at cable harness cross points allow for easy handling.

### Application range

- Fastening elements for cable ties
- For fastening bundles and parts
- Typical areas of application are control cabinet manufacture, motor vehicles, office machines.

### Approvals



### Included

- Without screws etc.

### Technical data



**Material**  
Polyamide 6.6



**Temperature range**  
-40°C to +80°C

| Article number | Article description | Fastening type | Material | Drill opening (mm) | Tie width (mm) | Weight (g/100 pieces) | Pieces / PU |
|----------------|---------------------|----------------|----------|--------------------|----------------|-----------------------|-------------|
| 61724810       | TC 826              | screwing       | PA 6.6   | 4.2                | 4.8            | 197                   | 1,000       |
| 61724820       | TC 828              | screwing       | PA 6.6   | 4.2                | 4.8            | 40                    | 1,000       |

Photographs are not to scale and do not represent detailed images of the respective products.

## TC aluminium screw socket



### Benefits

- The screw sockets are heat-resistant and excellent at matching contours.
- The low height, low weight and high stability are particularly advantageous.

### Application range

- Fastening elements for cable ties

### Included

- Without screws etc.

### Technical data



**Material**  
Aluminium

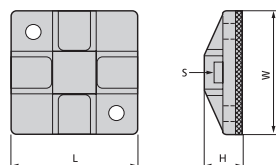


**Temperature range**  
-100°C to +450°C

| Article number | Article description | Fastening type | Material  | Tie width (mm) | Weight (g/100 pieces) | Pieces / PU |
|----------------|---------------------|----------------|-----------|----------------|-----------------------|-------------|
| 61724430       | TC 105              | screwing       | aluminium | 4.8            | 67                    | 1,000       |

Photographs are not to scale and do not represent detailed images of the respective products.

## MPNY screw / adhesive socket



### Benefits

- MPNY socket offers the option for cross-mounting / double-mounting on the crossover points of the cable harness, and also enable easy handling at inaccessible locations.
- Good overall view, as the remaining markers stay on the marking roll

### Application range

- Fastening elements for cable ties
- The areas of application include the wiring of switch cabinets, motor vehicles and office machines, etc.

### Approvals



### Included

- Without screws etc.

### Technical data



**General**  
MPNY-750: for cable ties with a load capacity of 80 - 180 N  
MPNY-1000: for cable ties with a load capacity of 80 - 225 N



**Note**  
On rolls



**Info**  
Suitable for cable ties with a bundling load of 80 N / 220 N



**Colour delivered**  
Black  
natural



**Material**  
Polyamide 6.6  
Thickness: 0.25 mm



**Temperature range**  
-40 °C to +80 °C

| Article number | Article description | Colour  | Length x width (mm) | Height (mm) | Slot height (mm) | Slot width (mm) | Pieces / PU |
|----------------|---------------------|---------|---------------------|-------------|------------------|-----------------|-------------|
| 61718610       | MPNY-750-0-C        | black   | 19.0 x 19.0         | 5.21        | 1.27             | 3.18            | 100         |
| 61718620       | MPNY-750-9-C        | natural | 19.0 x 19.0         | 5.21        | 1.27             | 3.18            | 100         |
| 61718630       | MPNY-1000-0-C       | black   | 25.0 x 25.0         | 5.46        | 1.78             | 5.16            | 100         |
| 61718640       | MPNY-1000-9-C       | natural | 25.0 x 25.0         | 5.46        | 1.78             | 5.16            | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

For current information see: [www.lappgroup.com](http://www.lappgroup.com)

**New**

## AS-i clip clamp / AS-i End sealing

### Benefits

- AS-i cable clamp:  
The conical shape of the receptacle in the socket and the releasable lock ensure that the cable is firmly secured.
- The high-grade acrylate adhesive allows quick mounting and the socket can be immediately stressed. Furthermore, it can also be secured using a screw.
- AS-i end seal:
  - Easy to assemble
  - Can be used on both sides
  - Compact dimensions save space
  - Cost-effective method of sealing AS-Interface cables

### Application range

- Fastening elements for cables and conductors
- Clip clamp for AS interface bus cables
- For use with UNITRONIC® AS-Interface bus cables.

### Product features

- AS-i clip clamp: releasable lock
- AS-i end seal:
  - Material: TPE
  - Colour: black

### Design

- These mounting sockets can be reopened and were specially developed for AS-I cables.

### Suitable cables

- UNITRONIC® BUS ASI Page 300

### Technical data



#### General

Halogen-free



#### Note

Adhesive: acrylic with lining made of PUR foam



#### Material

Polyamide 6.6, impact-resistant



#### Temperature range

AS-i clip clamp: -40 °C to +80 °C  
AS-i end seal: -40 °C to +110 °C



| Article number         | Article description | Colour | Drill opening (mm) | Length x width (mm) | Adhesive tape thickness (mm) | Height (mm) | Pieces / PU |
|------------------------|---------------------|--------|--------------------|---------------------|------------------------------|-------------|-------------|
| <b>AS-I clip clamp</b> |                     |        |                    |                     |                              |             |             |
| 61825000               | AS-I clip clamp     | white  | 3.3                | 25.0 x 20.0         | 0.8                          | 11.70       | 500         |
| <b>End seal</b>        |                     |        |                    |                     |                              |             |             |
| 22260047               | AB-ASI-PC-BK        | black  | -                  | 20.0 x 4.7          | -                            | 11.00       | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

## CC cord clips



## ■ Benefits

- Special mounting preparations are no longer necessary.

## ■ Application range

- Simple fastening
- Fastening elements for cables and conductors
- CC cord clips are self-adhesive cable clamps. They are excellent for laying several cables in parallel.

## ■ Note

- Black colour is available upon request

## ■ Technical data



## General

Self-adhesive on many surfaces



## Approvals

Self-extinguishing in accordance with UL 94 V-2 (without adhesive tape)



## Note

Bundling diameter: 5 to 17 mm



## Material

Polyamide 6.6  
Halogen-free



## Temperature range

-40 °C to +80 °C

| Article number | Article description | Max. bundle Ø (mm) | Socket area x height (mm) | Pieces / PU |
|----------------|---------------------|--------------------|---------------------------|-------------|
| 61723810       | CC 5                | 5.0                | 19 / 19 x 8               | 100         |
| 61723820       | CC 11               | 9.0                | 26 / 26 x 12              | 100         |
| 61723840       | CC 21               | 17.0               | 26 / 26 x 17              | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

## KS cable clamps



## ■ Benefits

- After removing the protective film, the clamps can be mounted on any clean and dry surface, but due to the high adhesive force, they will stick permanently.
- Cable clamps with high adhesive strength
- Good foam-padding properties

## ■ Application range

- Fastening elements for cables and conductors
- They are suitable for fastening cables quickly.
- Self-adhesive cable clamps are recommended for mounting on plastic, metal, and glass, whenever it is not possible to use nails or screws.

## ■ Design

- The KS cable clamps are available in four different sizes.

## ■ Technical data



## General

Adhesive coating: 3M



## Material

PVC

| Article number | Article description | Length (mm) | For cable Ø (mm) | Pieces / PU |
|----------------|---------------------|-------------|------------------|-------------|
| 61717440       | KS 20 / 6           | 33          | 4 - 6            | 100         |
| 61710730       | KS 25 / 8           | 38          | 6 - 8            | 100         |
| 61717460       | KS 25 / 10          | 44          | 7 - 10           | 100         |
| 61717480       | KS 30 / 13          | 50          | 10 - 13          | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

## TC open assembly clip

### Benefits

- This open mounting clamp is distinguished by its simple and problem-free handling.

### Application range

- Fastening elements for cables and conductors
- Typical areas of application are pre-assembled cables, control panels, control cabinets etc.

### Approvals



### Design

- Available in five sizes

### Included

- Without screws etc.

### Technical data



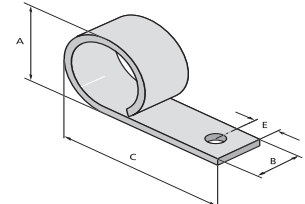
**Note**  
Hole diameter: 5.0 mm



**Material**  
Hard PVC



**Temperature range**  
-40 °C to +80 °C



| Article number | Article description | Hole spacing, E (mm) | Length x width (mm) | Height (mm) | Pieces / PU |
|----------------|---------------------|----------------------|---------------------|-------------|-------------|
| 61724150       | TC 70               | 6.5                  | 23.5 x 10.0         | 6.50        | 100         |
| 61724160       | TC 71               | 6.5                  | 29.5 x 10.0         | 13.00       | 100         |
| 61724170       | TC 72               | 6.5                  | 36.5 x 10.0         | 19.50       | 100         |
| 61724180       | TC 73               | 6.5                  | 45.5 x 13.0         | 25.00       | 100         |
| 61724190       | TC 74               | 6.5                  | 58.5 x 13.0         | 38.00       | 100         |

Photographs are not to scale and do not represent detailed images of the respective products.

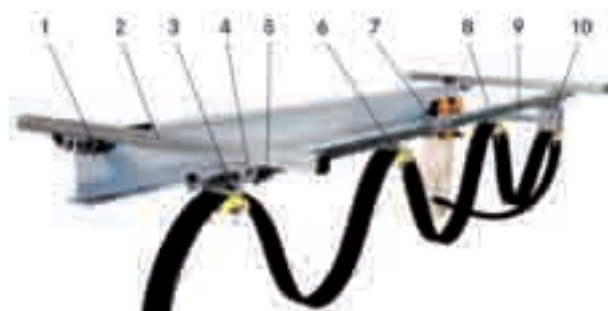
New

## Cable trolley system for round and flat cables



## Info

- The configuration sheet for cable trailers is available to download from our website (under "Download Center") or can be obtained on request
- 3D drawings available



## Benefits

- The guiding rollers have ball bearings and guarantee easy, smooth running in the C-profile rails.
- The cables in the clamping devices are clamped gently, and an appropriately shaped pressing piece prevents sharp bends at the clamping point.

## Application range

- Crane and conveying machinery
- For hoisting equipment and conveyor systems
- Mechanical engineering
- Not suitable for applications for Ex-Areas

## Product features

- Certain components (such as the cable trailer) made of galvanised steel
- Dustproof ball bearing (wheels)
- Cable clamp and protection plate made of polyamide

## Design

- Complete system consisting of the following components:
  1. Clamps (steel girder)
  2. Extension arm
  3. End clamp
  4. Rail bracket
  5. Stopper
  6. Cable trailer
  7. Track coupler
  8. C-profile rail
  9. Towing arm
  10. Towing trolley

## Note

- Round- and flat cables are not allowed to combine a sight below and above

## Design

- The delivery length of the C-profile rail is 6 m.
- The rail opening is 11 mm
- The installation of a system depends on various criteria, e.g. maximum cable slack (cable weight) and working length.

## Suitable conduits

- Even air-pressure lines can be installed

## Suitable cables

- ÖLFLEX® CRANE F Page 169
- ÖLFLEX® LIFT F Page 171
- Flat cables (ÖLFLEX® CRANE and ÖLFLEX® LIFT up to 54 mm)
- All round cables up to 36mm outer diameter

| Article number                               | Article designation                  | Pieces / PU |
|----------------------------------------------|--------------------------------------|-------------|
| <b>Cable trailer system for flat cables</b>  |                                      |             |
| 62200420                                     | Towing trolley, flat                 | 1           |
| 62200421                                     | Cable trailer, flat                  | 1           |
| 62200422                                     | End clamp, flat                      | 1           |
| <b>Cable trailer system for round cables</b> |                                      |             |
| 62200434                                     | Cable trailer, round                 | 1           |
| 62200435                                     | Towing trolley, round                | 1           |
| 62200436                                     | End clamp, round                     | 1           |
| 62200437                                     | Cable clamp, round, 1-16 mm          | 1           |
| 62200438                                     | Cable clamp for cable 17-25 mm       | 1           |
| 62200439                                     | Cable clamp, round, 26-36 mm         | 1           |
| <b>Components for both systems</b>           |                                      |             |
| 62200423                                     | Rail bracket, vertical               | 1           |
| 62200425                                     | Stopper                              | 1           |
| 62200424                                     | Track coupler                        | 1           |
| 62200427                                     | Rail bracket with flexible fastening | 1           |
| 62200428                                     | Rail bracket for ceiling mounting    | 1           |
| 62200429                                     | Rail bracket for wall mounting       | 1           |
| 62200430                                     | Towing arm, 400 mm                   | 1           |
| 62200431                                     | Towing arm, 630 mm                   | 1           |
| 62200432                                     | Extension arm, 800 mm                | 1           |
| 62200433                                     | Steel girder clamp                   | 1           |
| <b>Fastening options:</b>                    |                                      |             |
| 62200426                                     | Rail curve: 90°                      | 1           |
| 62200440                                     | C-profile rail, 6 m                  | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Similar products

- SILVYN® CHAIN cable protection and guiding systems

## Accessories

- SKINDICHT® SVFK



**Cable trolley system for round and flat cables**

**Planning a cable trolley system:**

**First find out:**

- Travel distance
- Cable package - design (flat, round) and dimension
- Support bracket - wall or roof mounting, I-Beam, with distance
- Environment - indoor, outdoor, dust, moist, acid

**1.) Type of system**

Provide a brief drawing of the placement of cable clamps. Choose type of system you would like to use (wire, c-profile, I-beam, etc.) with regards to cable weight, size, bending radius and environment.

**2.) Cable length**

Find out the cables length you have to use in your system. Here fore consider the travel length multiplied by the following factors:

Flat cable:

Travel distance less than 20 m x 1,25 = cable length

Travel distance 20-50 m x 1,20 = cable length

Travel distance greater than 50 m x 1,50 = cable length

Round cable:

Travel distance x 1,50 m = cable length

**3.) How many trolleys do I need?**

Divide the cable length by the double cable sagging which will give you the number of trolleys including the towing trolley. Note: standard cable sagging is 0,75 m.

**4.) Parking space**

Cable trolley length x number of trolleys + towing trolleys length = parking space

**5.) Number of rails and track couplers**

Travel distance + parking space = total track length

**6.) Number of support brackets**

Consider a max. of two meters space between the support brackets. Choose correct mounting bracket (roof, wall, I-beam, etc.).

**7.) Finally add**

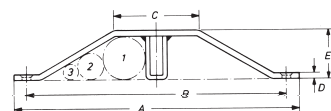
2 pieces of end stopper - additional cable for connection (normally 2-6 meters)

1 piece of end clamp

1 piece of towing arm

**8.) Select a suitable cable gland of our SKINTOP® SKINDICHT® product range.**

## ST steel cable tunnel



## Benefits

- A central strength element strengthens and stiffens the design.
- Point loads are thus distributed onto the floor.
- The ST cable tunnel offers additional advantages in the area of building safety as it is flame-retardant and halogen-free.

## Application range

- The ST cable tunnel made of galvanised steel protects cables laid on the ground against mechanical influences.
- The cable tunnels can be fixed onto the floor by using countersunk screws.

## Technical data



**Material**  
Galvanized steel ring  
Fireproof

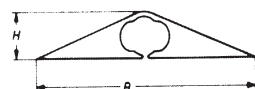
## Design

- ST 1: A = 250, B = 230, C = 70, D = 5, E = 45
- Hole diameter: 9.0 mm
- ST 2: A = 200, B = 182, C = 60, D = 4, E = 34,
- Hole diameter: 6.6 mm
- ST 3: A = 150, B = 134, C = 60, D = 4, E = 24, hole diameter = 6.6 mm

| Article number | Article description | Length (mm) | Ø combinations (mm) | Weight (kg/piece) | Pieces / PU |
|----------------|---------------------|-------------|---------------------|-------------------|-------------|
| 61717000       | ST 1                | 1,000       | 36/25/15 or 40/24   | 14                | 1           |
| 61717040       | ST 2                | 1,000       | 25/20 or 30/18      | 9                 | 1           |
| 61717070       | ST 3                | 1,000       | 17/14 or 20/13      | 7                 | 1           |

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## STY plastic cable tunnel



## Benefits

- High flexibility enables easy installation of cables
- Cutting to size is possible up to 10 m.

## Application range

- The STY cable tunnel is a reliable anti-tripping guard used to cover cables that are laid on the ground.

## Technical data



**Colour delivered**  
Colour: grey (RAL 7001)



**Material**  
PVC

## Design

- STY5: (W)idth = 48 mm, (H)eight = 8 mm
- STY9: (W)idth = 70 mm, (H)eight = 12 mm
- STY12: (W)idth = 85 mm, (H)eight = 15 mm

| Article number | Article description | Width x height (mm) | Number of cables x outer Ø | Contents (m) |
|----------------|---------------------|---------------------|----------------------------|--------------|
| 61746870       | STY 5               | 48 x 8              | 1 x 5 - 2 x 4              | 10           |
| 61746880       | STY 9               | 70 x 12             | 1 x 9 - 2 x 7              | 10           |
| 61746890       | STY 12              | 85 x 15             | 1 x 12 - 2 x 9             | 10           |

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## RKK 01-06 round cable wedge clamps

### Benefits

- The wedged clamps hold the cable without damaging it and without restricting the necessary movement of the cable.
- Other cable combinations are possible

### Application range

- The wedged clamps can be used to secure round control cables.

### Design

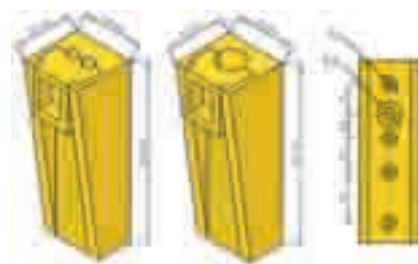
- Round cable wedged-clamps

### Technical data

**Note**  
Clamping force: 380N

**Material**  
Polyamide 6.6

**Temperature range**  
-20°C to +50°C



| Article number | Article designation | Number of cables | For cable outer Ø (mm) | Weight (g) | Pieces / PU |
|----------------|---------------------|------------------|------------------------|------------|-------------|
| 52026020       | RKK 01              | 2                | 8.0-11.0 and 7.0-10.0  | 200        | 1           |
| 52026024       | RKK 02              | 1                | 18.0-21.5              | 180        | 1           |
| 52026026       | RKK 03              | 1                | 21.0-24.0              | 160        | 1           |
| 52026028       | RKK 04              | 1                | 24.5-26.0              | 150        | 1           |
| 52026030       | RKK 05              | 1                | 19.0-24.0              | 150        | 1           |
| 52026022       | RKK 06              | 1                | 11.5-14.0              | 190        | 1           |

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## FKK 08 Flat cable wedge clamp, small

### Benefits

- On the shaft side, the mounting plate can be screwed onto the wall or bolted or welded to the rail bracket.
- The mounting plate can be bolted or welded to the lift cage.

### Application range

- Flat cable wedge clamps are suitable for securing flat control cables.

### Design

- Maximum cable thickness: 10 mm
- The small wedge-shaped cable clamp can hold up to two flat cables.

### Suitable cables

- ÖLFLEX® LIFT F Page 171

### Technical data

**Info**  
Clamping force: at overall cable thickness 2-10 mm = 600-800 N  
Minimum insert depth for wedge: 60 % = 60 mm

**Material**  
Polyamide 6.6 - halogen-free

**Temperature range**  
Operating temperature: -20°C to +50°C



| Article number | Article designation | Number of cables | Max. total cable length (mm) | Weight (g) | Pieces / PU |
|----------------|---------------------|------------------|------------------------------|------------|-------------|
| 52026051       | FKK 08              | 1-2              | 50 x 10                      | 105        | 1           |

Other designs are available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

## FKK 07 cable wedge clamp, large

### Application range

- Flat cable wedge clamps are suitable for securing flat control cables.

### Design

- Maximum cable thickness: 17 mm
- The large wedge-shaped cable clamp can hold up to three flat cables.

### Suitable cables

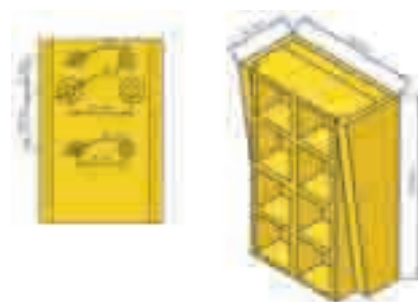
- ÖLFLEX® LIFT F Page 171

### Technical data

**Info**  
Clamping force: at overall cable thickness 2-9 mm and 16-17 mm = 800 N  
Minimum insert depth for wedge: 60 % = 90 mm

**Material**  
Polyamide 6.6 - halogen-free

**Temperature range**  
Operating temperature: -20°C to +60°C

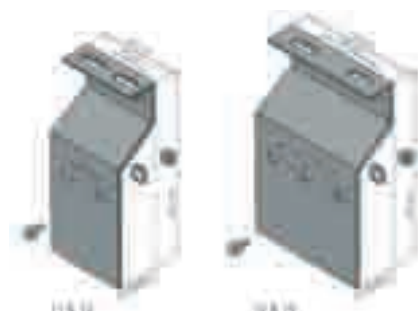


| Article number | Article designation | Number of cables | Max. total cable length (mm) | Weight (g) | Pieces / PU |
|----------------|---------------------|------------------|------------------------------|------------|-------------|
| 52026050       | FKK 07              | 1-3              | 90x17                        | 345        | 1           |

Data on the clamping force is available upon request.

Photographs are not to scale and do not represent detailed images of the respective products.

## MP 11/13/12/14 installation sheets



### ■ Application range

- Installation sheets
- Installation sheet for all-round and large flat cable wedges (primed)

### ■ Included

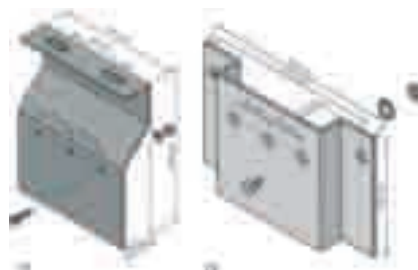
- 2 or 3 hexagonal nuts
- 2 or 3 countersunk screws
- 2 or 3 serrated lock washers
- 1 mounting plate

| Article number | Article designation | Number of terminals and types                   | Pieces / PU |
|----------------|---------------------|-------------------------------------------------|-------------|
| 52026031       | MP 11               | 1-2 RKK (01-06)                                 | 1           |
| 52026032       | MP 13               | 1-2 RKK (01-06) or 1 FKK (07)                   | 1           |
| 52026033       | MP 12               | 1-3 RKK (01-06)                                 | 1           |
| 52026034       | MP 14               | 1-3 RKK (01-06) or 1 FKK (07) and 1 RKK (01-06) | 1           |

RKK = round cable wedge clamp; FKK = flat cable wedge clamp

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## MP 18/28 installation sheets



### ■ Application range

- Installation sheets
- Installation sheet for small flat cable wedges (zinc-plated)

### ■ Included

- 2 or 3 hexagonal nuts
- 2 or 3 countersunk screws
- 2 or 3 serrated lock washers
- 1 mounting plate

| Article number | Article designation | Number of terminals and types | Pieces / PU |
|----------------|---------------------|-------------------------------|-------------|
| 52026060       | MP 18               | 1-2 FKK (08)                  | 1           |
| 52026061       | MP 28               | 1-2 FKK (08)                  | 1           |

FKK = flat cable wedge clamp

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## MP 21/22 installation sheets



### ■ Application range

- Installation sheets
- Installation sheet for all-round and large flat cable wedges (zinc-plated)

### ■ Included

- 2 or 3 hexagonal nuts
- 2 or 3 serrated lock washers
- 2 or 3 countersunk screws
- 1 mounting plate

| Article number | Article designation | Number of terminals and types               | Pieces / PU |
|----------------|---------------------|---------------------------------------------|-------------|
| 52026062       | MKK 21              | 1 FKK (07) or 2 RKK (01-06)                 | 1           |
| 52026063       | MKK 22              | 1 FKK (07) + 1 RKK (01-06) or 3 RKK (01-06) | 1           |

RKK = round cable wedge clamp; FKK = flat cable wedge clamp

Photographs are not to scale and do not represent detailed images of the respective products.

## EKK single clamp / DKK double clamp



EKK single clamp



DKK double clamp

### Benefits

#### EKK single clamp

- The clamping wedges protect and hold the cable without restricting the mobility of the cable cores. The clamping wedges allow a wide clamping range.

#### DKK double clamp

- The 100 mm long clamping wedges protect and hold the cable without restricting the mobility necessary for the cable cores.
- The clamping wedges allow a wide clamping range.

### Application range

#### EKK single clamp

- Single clamp
- The wedge-shaped cable clamps EKK and DKK have been developed as simple and reliable mounting clamps for lift control cables.

#### DKK double clamp

- The wedge-shaped cable clamps EKK and DKK have been developed as simple and reliable mounting clamps for lift control cables.

### Design

#### DKK double clamp

- Installation guidelines for ÖLFLEX®-LIFT RH and RS lift control cables can be found in the appendix T5.
- Maximum load for each clamp: 800 N (80 kg)

### Included

- Impact anchor, screws and safety discs are supplied as installation accessories.

### Technical data



#### Temperature range

high mechanical load: +65°C  
low mechanical load: +100°C

| Article number      | Article designation | For cable Ø (mm) | Length x width x height (mm) | Weight (kg/piece) | Pieces / PU |
|---------------------|---------------------|------------------|------------------------------|-------------------|-------------|
| <b>Single clamp</b> |                     |                  |                              |                   |             |
| 52026000            | EKK 18              | 15-18            | 125 x 45 x 120               | 1,4               | 1           |
| 52026011            | EKK 26              | 19-26            | 125 x 45 x 120               | 1,4               | 1           |
| <b>Double clamp</b> |                     |                  |                              |                   |             |
| 52026010            | DKK 18              | 15-18            | 125 x 85 x 120               | 1,9               | 1           |
| 52026012            | DKK 26              | 19-26            | 125 x 85 x 120               | 1,9               | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.

## Kraftform® adjustable torque screwdriver/Kraftform Kompakt® Set



Kraftform® adjustable torque screwdriver/Kraftform Kompakt® Set

### Benefits

- Fatigue-free due to ergonomic grip design
- Suitable for many EPIC® connector systems and in the network/automation industry (sensor/actuator wiring)
- Simple, free assembly in any position
- Safety close at hand

### Application range

- When screwing smaller screws, the user often relies on his specialist sense.
- In practice, this can often lead to significantly higher extracting values.
- The consequences are ripped-off screw heads and over-twisted screw threads.
- The solution is offered by this practical torque screwdriver for 0.3 - 1.2 Nm.

### Product features

- Quick and easy change of tools due to quick-change chuck

### Design

- Kraftform® torque screwdriver for 0.3 - 1.2 Nm
- Kraftform Kompakt® 10-piece screwdriver set (bits included: 1xR, 1xTZ, 1xTZ PH, 1xTZ PZ, 1xTZ TORX® in several versions incl.1 hand screwdriver without torque system)

### Included

- Traceable calibration certificate contained in the scope of delivery

### Technical data



#### Caution

Can be used in areas requiring ESD protection ESD version in acc. with EN 100-015 Part 1



#### General

Philips screwdriver PH (Phillips recess)



#### Approvals

Robust industrial design with excellent accuracy in accordance with ISO 6789/EN 26789



#### Info

Controlled torque of 0.3-1.2 Nm is possible



#### Colour delivered

Black

| Article number | Article designation           | Measuring range | Length (mm) | Pieces / PU |
|----------------|-------------------------------|-----------------|-------------|-------------|
| 61813958       | Kraftform® torque screwdriver | 0.3 - 1.2       | 180         | 1           |
| 61813990       | Kraftform Kompakt® 10         |                 |             | 1           |

Kraftform® is a registered trademark of Wera (Hermann Werner GmbH & Co.KG)

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## Silicon sealing compound



### Benefits

- Fast-hardening sealing material

### Application range

- Protection against humidity, electrostatic discharges, vibrations

### Approvals

- Hardness according to DIN 53505: 25 °C Shore A
- Specific contact resistance in accordance with DIN 53482

### Technical data



#### General

Dielectric strength in accordance with DIN 53481: 17 kV/mm  
Dry measurement at 23°C: 14 ohm-cm



#### Temperature range

-50 °C to +180 °C  
(adequate ventilation required)

| Article number | Article designation      | Content (ml) | Pieces / PU |
|----------------|--------------------------|--------------|-------------|
| 61713130       | SILICON sealing compound | 90           | 1           |

Photographs are not to scale and do not represent detailed images of the respective products.