Signal and Power Connectors
# Contents Signal and Power Connectors

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</table>
A SERIES – Signal Connectors

**M23 STANDARD SIGNAL CONNECTORS [6 TO 19 PINS]**

### Signal plug 10 pins
- **nickel plated**
- **Order.-no. ASTA001FR01610035300**
- **E type, 10 pins**
- **Female HC crimping contact 1.0 mm**
- **Crimping range:** 0.14 to 1.0 mm²
- **Lamella type clamping**
- **Clamping suitable for cable diameter:** 7.5 - 12.0 mm
- **Metal construction, EMC shielding**

### Signal plug 12 pins
- **nickel plated**
- **Order.-no. ASTA021FR01610047300**
- **E type, 12 pins, 3 coding grooves**
- **Female HC crimping contact 1.0 mm**
- **Crimping range:** 0.14 to 1.0 mm²
- **Lamella type clamping**
- **Clamping suitable for cable diameter:** 9.0 - 13.2 mm
- **Metal construction, EMC shielding**

### Signal plug 17 pins
- **nickel plated**
- **Order.-no. ASTA035FR01610047300**
- **P type, 17 pins, 3 coding grooves**
- **Female HC crimping contact 1.0 mm**
- **Crimping range:** 0.14 to 1.0 mm²
- **Lamella type clamping**
- **Clamping suitable for cable diameter:** 9.0 - 13.2 mm
- **Metal construction, EMC shielding**

### Signal angled plug 12 pins
- **rotatable, nickel plated**
- **Order.-no. ASDA021FR01610047300**
- **E type, 12 pins, 3 coding grooves**
- **Female HC crimping contact 1.0 mm**
- **Crimping range:** 0.14 to 1.0 mm²
- **Lamella type clamping**
- **Clamping suitable for cable diameter:** 9.0 - 13.2 mm
- **Metal construction, EMC shielding**

### Signal angled plug 17 pins
- **rotatable, nickel plated**
- **Order.-no. ASDA035FR01610047300**
- **P type, 17 pins, 3 coding grooves**
- **Female HC crimping contact 1.0 mm**
- **Crimping range:** 0.14 to 1.0 mm²
- **Lamella type clamping**
- **Clamping suitable for cable diameter:** 9.0 - 13.2 mm
- **Metal construction, EMC shielding**

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**Design:**
- Plug, standard- and push-pull version, angled plug
- Extension, standard or with central fixing
- Bushing/bulkhead
- PC 13.5 receptacle
- Receptacle straight with flange
- Receptacle angled and angled rotatable with flange

**Insulation inserts:**
- 6, 7, 16-11, 9, 10, 12, 16, 17, 16+31 pins

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**Reel feed contact page 454**

You’ll find all connectors of this series in the online configurator: www.helutec.de

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**A SERIES – Signal Connectors**

**Cable accessories**

441
A SERIES – Signal Connectors

Signal extension 10 pins
nickel plated
Order.-no. AKU002MR14450300300 P type, 10 pins
Male crimping contact 1.0 mm
Crimping range: 0.14 to 1.0 mm²
Lamella type clamping
Clamping suitable for cable diameter: 7.5 - 12.0 mm
Metal construction, EMC shielding

Signal extension 12 pins
nickel plated
Order.-no. AKU002MR044610035500 P type, 10 pins, 5 coding grooves
Male crimping contact 1.0 mm
Crimping range: 0.14 to 1.0 mm²
Lamella type clamping
Clamping suitable for cable diameter: 7.5 - 12.0 mm
Metal construction, EMC shielding

Signal extension 17 pins
nickel plated
Order.-no. AKU034MR044610035500 E type, 17 pins, 3 coding grooves
Male crimping contact 1.0 mm
Crimping range: 0.14 to 1.0 mm²
Lamella type clamping
Clamping suitable for cable diameter: 9.0 - 13.2 mm
Metal construction, EMC shielding

Signal receptacle straight, 12 pins
Flange 25.7 x 25.7 mm, nickel plated
Order.-no. AEGA052MR04000012300 P type, 12 pins, with retainer clip, 3 coding grooves
Male crimping contact 1.0 mm
Crimping range: 0.14 to 1.0 mm²
Metal construction, Axial sealing

Signal receptacle straight, 17 pins
Flange 25.7 x 25.7 mm, nickel plated
Order.-no. AEGA113MR04000012300 E type, 17 pins, with retainer clip, 3 coding grooves
Male crimping contact 1.0 mm
Crimping range: 0.14 to 1.0 mm²
Metal construction, Axial sealing

Signal receptacle angled, rotatable 12 pins
Range 25.7 x 25.7 mm, chromated
Order.-no. AEDC052MR04000012300 P type, 12 pins, with retainer clip, 3 coding grooves
Male crimping contact 1.0 mm
Crimping range: 0.14 to 1.0 mm²
Metal construction, Axial sealing

Signal receptacle angled, rotatable 17 pins
Range 25.7 x 25.7 mm, chromated
Order.-no. AEDC113MR04000012300 E type, 17 pins, with retainer clip, 3 coding grooves
Male crimping contact 1.0 mm
Crimping range: 0.14 to 1.0 mm²
Metal construction, Axial sealing

General technical data A SERIES
Temperatur range -20°C to 130°C
Protection rate IP66/67 [plugged]
Electrical data 6 to 12 pin connectors
Max. rated current 10 A
Rated voltage 160 V (AC / DC)
Test voltage 2500 V
Ibetweem contacts nil
Contact resistance < 5 mΩ
Mating cycles > 50
Electrical data 16 to 116+31 pin connectors
Max. rated current 9 A
Rated voltage 125 V (AC / DC)
Test voltage 2500 V
Ibetweem contacts nil
Contact resistance < 5 mΩ
Mating cycles > 50
Data according to VDE 0110 / EN 61984, part 6.19.2.2
Pollution degree 3
Over voltage category III
Max. height for operation 2000 m
Material
Housing Zinc die cast/brass, nickel plated
Connection nut Brass, nickel plated
Insulation insert PA 6.6 / PBT, UL 94/ V0
Contacts Brass, gold plated
Seals FPM / HNBR
Clamping ring Brass, nickel plated

How to order: Please preface each HELUKABEL part number with ‘R955K-‘ Example (using the part number): R955K-14078
B SERIES – Power Connectors

**Design:**
- Plug, short or long push-pull version, angled plug
- Extension, standard or with central fixing

**Insulation inserts:**
- 6, 8, 9 pins

**SIZE 1 [6, 8 AND 9 PINS]**

### Power plug 6 pins nickel plated
Order-no. BSTA086FR03580035500 P type, 6 pins
- 6x Female HC crimping contact 2.0 mm
- Crimp. range: 0.35 to 2.5 mm²
- Lamella type clamping
- Clamping suitable for cable diameter: 9.5 - 14.5 mm
- Metal construction, EMC shielding

### Power plug 8 pins nickel plated
Order-no. BSTA078FR05580035500 P type, 8 pins
- 4x Female HC crimping contact 2.0 mm
- Crimp. range: 0.35 to 2.5 mm²
- Lamella type clamping
- Clamping suitable for cable diameter: 9.5 - 14.5 mm
- Metal construction, EMC shielding

### Power plug 9 pins nickel plated
Order-no. BSTA200FR06580035500 P type, 9 pins
- 4x Female HC crimping contact 2.0 mm
- Crimp. range: 0.35 to 2.5 mm²
- 5x Female HC crimping contact 1.0 mm
- Crimp. range: 0.14 to 1.0 mm²
- Lamella type clamping
- Clamping suitable for cable diameter: 9.5 - 14.5 mm
- Metal construction, EMC shielding

### Standard power extension, 6 pins nickel plated
Order-no. B0UA186AW21580035500 E type, 6 pins
- 6x Male crimping contact 2.0 mm
- Crimp. range: 0.35 to 2.5 mm²
- Lamella type clamping
- Clamping suitable for cable diameter: 9.5 - 14.5 mm
- Metal construction, EMC shielding

You’ll find all connectors of this series in the online configurator: [www.helutec.de](http://www.helutec.de)
# B SERIES – Power Connectors

## General technical data B SERIES

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-20°C to 130°C</td>
</tr>
<tr>
<td>Protection rate</td>
<td>IP66/67 (plugged)</td>
</tr>
</tbody>
</table>

## Electrical data power contacts

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. rated current (8 pins)</td>
<td>max. 28 A (6 pins) max. 30 A (8 pins)</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>630 V (AC / DC)</td>
</tr>
<tr>
<td>Test voltage</td>
<td>6000 V</td>
</tr>
<tr>
<td>(between contacts)</td>
<td></td>
</tr>
<tr>
<td>Contact resistance</td>
<td>&lt; 5 mΩ</td>
</tr>
<tr>
<td>Matting cycles</td>
<td>&gt; 50</td>
</tr>
</tbody>
</table>

## Electrical data signal contacts (8, 9 pins)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. rated current</td>
<td>10 A</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>250 V (AC / DC)</td>
</tr>
<tr>
<td>Test voltage</td>
<td>2500 V</td>
</tr>
<tr>
<td>(between contacts)</td>
<td></td>
</tr>
<tr>
<td>Contact resistance</td>
<td>&lt; 5 mΩ</td>
</tr>
<tr>
<td>Matting cycles</td>
<td>&gt; 50</td>
</tr>
</tbody>
</table>

## Data according to VDE 0110 / EN 61984, part 6.19.2.2

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollution degree</td>
<td>3</td>
</tr>
<tr>
<td>Over voltage category</td>
<td>II</td>
</tr>
<tr>
<td>Max. height for operation</td>
<td>2000 m</td>
</tr>
</tbody>
</table>

## Material

- Housing: Zinc die cast/brass, nickel plated
- Connection nut: Brass, nickel plated
- Insulation insert: PA 6.6 / PBT, UL 94 / V0
- Contacts: Brass, gold plated
- Seals: FPM / HNBR
- Clamping ring: Brass, nickel plated

*option: stainless steel

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**Ordering Information**

- **Power receptacle, straight, long, 6 pins**
  - Flange: 25.7 x 25.7 mm, nickel plated
  - Order no.: BEGA088MR10000011300 E type, 6 pins
  - 4x Male crimping contact 2.0 mm
    - Crimp range: 0.35 to 2.5 mm²
    - Not required

- **Power receptacle, straight, long, 8 pins**
  - Flange: 25.7 x 25.7 mm, nickel plated
  - Order no.: BEGA089MR13000011300 E type, 8 pins
  - 4x Male crimping contact 2.0 mm
    - Crimp range: 0.35 to 2.5 mm²
  - 4x Male crimping contact 1.0 mm
    - Crimp range: 0.14 to 1.0 mm²
    - Not required

- **Power receptacle, angled, rotatable, 6 pins**
  - Flange: 25.7 x 25.7 mm, chromated
  - Order no.: BEDC088MR10000005300 E type, 6 pins
  - 6x Male crimping contact 2.0 mm
    - Crimp range: 0.35 to 2.5 mm²
    - Not required

- **Power receptacle, angled, rotatable, 8 pins**
  - Flange: 25.7 x 25.7 mm, chromated
  - Order no.: BEDC089MR13000005300 E type, 8 pins
  - 4x Male crimping contact 2.0 mm
    - Crimp range: 0.35 to 2.5 mm²
  - 4x Male crimping contact 1.0 mm
    - Crimp range: 0.14 to 1.0 mm²
    - Not required

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**Cable accessories**

HELUKABEL Products are available from MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA web: http://mdmetric.com  ph: (410)358-3130 (800)638-1830 fx: (410)358-3142 (800)872-9329 email: sales@mdmetric.com RFQ form: http://mdmetric.com/rfq.htm  How to order: Please preface each HELUKABEL part number with ‘R955K’ Example (using the part number): R955K-14078
M17 – Signal and Power Connectors

**Design:**
- Plug, standard and push-pull version
- Extension, standard or with central fixing
- Receptacle straight with flange
- Receptacle straight, thread M17 x 0.75
- Receptacle angled and angled rotatable with flange

**Insulation inserts:**
- Signal: 17 pins
- Power: 4, 7, 9 pins

### M17 SIGNAL [17 PINS] AND POWER CONNECTORS [4 TO 9 PINS]

#### Signal plug 17 pins
- Nickel plated
- Order no: ASTA876FR1086001A300
- Female crimp contact, slitted 0.6 mm
- Crown type clamping
- Metal construction, EMC shielding

#### Power plug 4 pins
- Nickel plated
- Order no: BSTA896FR0986002A300
- Female crimp contact, slitted 1.5 mm
- Crown type clamping
- Metal construction, EMC shielding

#### Power plug 7 pins
- Nickel plated
- Order no: BSTA880FR0886001A300
- Female crimping contact 1.0 mm
- Crown type clamping
- Metal construction, EMC shielding

#### Power plug 9 pins
- Nickel plated
- Order no: BSTA908FR1186001A300
- 4x HC Female crimp contact 1.0 mm
- 5x Female crimp contact, slitted 0.6 mm
- Crown type clamping
- Metal construction, EMC shielding

#### Standard signal extension, 17 pins
- Nickel plated
- Order no: AKUA874MR1086001A300
- Male crimp contact 0.6 mm
- Crown type clamping
- Metal construction, EMC shielding

#### Standard power extension, 4 pins
- Nickel plated
- Order no: BKUA894MR0986001A300
- Male crimp contact 1.5 mm
- Crown type clamping
- Metal construction, EMC shielding

You’ll find all connectors of this series in the online configurator: www.helutec.de
M17 – Signal and Power Connectors

### General technical data M17 Series
- **Temperatur range:** -20°C to 130°C
- **Protection rate:** IP67 (plugged)

### Electrical data power contacts 9 pins
- **Max. rated current:** Signal: 5 A, Power: 14 A
- **Rated voltage:** Signal: 63 V, Power: 630 V
- **Test voltage:** Signal: 1000 V, Power: 2000 V
- **[between contacts]:**
  - Signal: < 15 mΩ
  - Power: < 5 mΩ
- **Mating cycles:** > 50

### Electrical data power contacts 7 pins
- **Max. rated current:** Signal: 5 A, Power: 14 A
- **Rated voltage:** Signal: 63 V, Power: 630 V
- **Test voltage:** Signal: 1000 V, Power: 2000 V
- **[between contacts]:**
  - Signal: < 5 mΩ
  - Power: < 5 mΩ
- **Mating cycles:** > 50

### Data according to VDE 0110 / EN61984, part 6.19.2.2
- **Pollution degree:** 3
- **Over voltage category:** I
- **Max. height for operation:** 2000 m

### Material
- **Housing:** Zinc die cast/brass, nickel plated
- **Connection nut:** Brass, nickel plated
- **Insulation insert:** PBT, UL 94/ V0
- **Contacts:** Brass, gold plated
- **Seals:** FPM
- **Clamping ring:** Brass, nickel plated

### Cable accessories

### Electrical data signal contacts 17 pins
- **Max. rated current:** 3.6 A
- **Rated voltage:** 63 V (AC/DC)
- **Test voltage:** 1500 V
- **[between contacts]:**
  - Signal: < 15 mΩ
  - Contact resistance: < 15 mΩ
- **Mating cycles:** > 50

### Signal receptacle angled rotatable, 17 pins
- **Flange:** 25.0 x 25.0 mm, chromated
- **Order no.:** B0UA878MR0800003A300 E type, 7 pins
- **Male crimp. contact:** 0.6 mm Crimping range: 0.14 bis 0.5 mm²
- **Crown type clamping**
- **Clamping suitable for cable diameter:** 9.5 - 12.0 mm
- **Metal construction,**
- **EMC shielding**

### Power receptacle angled rotatable, 4 pins
- **Flange:** 25.0 x 25.0 mm, chromated
- **Order no.:** B0UC874MR0600003A300 E type, 4 pins
- **Male crimp. contact:** 1.0 mm Crimping range: 0.14 bis 0.5 mm²
- **Crown type clamping**
- **Clamping suitable for cable diameter:** 9.5 - 12.0 mm
- **Metal construction,**
- **EMC shielding**

### Power receptacle angled rotatable, 7 pins
- **Flange:** 25.0 x 25.0 mm, chromated
- **Order no.:** B0UC874MR0600003A300 E type, 7 pins
- **Male crimp. contact:** 1.5 mm Crimping range: 0.35 bis 2.5 mm²
- **Crown type clamping**
- **Clamping suitable for cable diameter:** 9.5 - 12.0 mm
- **Metal construction,**
- **EMC shielding**

### Power receptacle angled rotatable, 9 pins
- **Flange:** 25.0 x 25.0 mm, chromated
- **Order no.:** B0UC878MR0600003A300 E type, 9 pins
- **Male crimp. contact:** 1.0 mm Crimping range: 0.14 bis 0.5 mm²
- **Crown type clamping**
- **Clamping suitable for cable diameter:** 9.5 - 12.0 mm
- **Metal construction,**
- **EMC shielding**

### Standard power extension, 7 pins
- **nickel plated**
- **Order no.:** B0UA906MR1186001A300 E type, 7 pins
- **Flange:** 25.0 x 25.0 mm, chromated
- **rotatable**
- **Power receptacle angled**

### Standard power extension, 9 pins
- **nickel plated**
- **Order no.:** B0UA906MR1186001A300 E type, 9 pins
- **Flange:** 25.0 x 25.0 mm, chromated
- **rotatable**
- **Power receptacle angled**
C Series – Power Connectors

**Design:**
- Plug, angled plug
- Extension
- Bushing/bulkhead
- Receptacle straight with flange
- Receptacle angled and angled rotatable with flange

**Insulation inserts:**
- 6, 8, 9 pins

---

### SIZE 1.5 [6, 8 AND 9 PINS]

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Insulation Contacts</th>
<th>Crimp Range</th>
<th>Contact Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power plug 6 pins</td>
<td>4x HC Female crimping contact 3.6 mm</td>
<td>Crimp range: 1.5 bis 10.0 mm²</td>
<td>9.0 - 16.5 mm</td>
</tr>
<tr>
<td></td>
<td>2x HC Female crimping contact 2.0 mm</td>
<td>Crimp range: 0.5 bis 2.5 mm²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lamella type clamping Clamping suitable for cable diameter: 9.0 - 16.5 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal construction, EMC shielding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Order-no. CSTA263FR52260001300</td>
<td>P type, 6 pins</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Power plug 8 pins | 4x HC Female crimping contact 3.6 mm | Crimp range: 1.5 bis 10.0 mm² | 9.0 - 16.5 mm |
|                  | 4x HC Female crimping contact 2.0 mm | Crimp range: 0.5 bis 2.5 mm² | |
|                  | Lamella type clamping Clamping suitable for cable diameter: 9.0 - 16.5 mm | |
|                  | Metal construction, EMC shielding | |
| Order-no. CSTA264FR48260001300 | P type, 8 pins | |

| Power plug 9 pins | 4x HC Female crimping contact 3.6 mm | Crimp range: 1.5 bis 10.0 mm² | 9.0 - 16.5 mm |
|                  | 5x HC Female crimping contact 2.0 mm | Crimp range: 0.5 bis 2.5 mm² | |
|                  | Lamella type clamping Clamping suitable for cable diameter: 9.0 - 16.5 mm | |
|                  | Metal construction, EMC shielding | |
| Order-no. CSTA265FR01260015300 | P type, 9 pins | |

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<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Insulation Contacts</th>
<th>Crimp Range</th>
<th>Contact Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard power extension, 6 pins</td>
<td>4x Male crimping contact 3.6 mm</td>
<td>Crimp range: 1.5 bis 10.0 mm²</td>
<td>9.0 - 16.5 mm</td>
</tr>
<tr>
<td></td>
<td>2x Male crimping contact 2.0 mm</td>
<td>Crimp range: 0.5 bis 2.5 mm²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lamella type clamping Clamping suitable for cable diameter: 9.0 - 16.5 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Metal construction, EMC shielding</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Order-no. CKUA267MR48260002300</td>
<td>E type, 6 pins</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Standard power extension, 8 pins | 4x Male crimping contact 3.6 mm | Crimp range: 1.5 bis 10.0 mm² | 9.0 - 16.5 mm |
|                  | 4x Male crimping contact 2.0 mm | Crimp range: 0.5 bis 2.5 mm² | |
|                  | Lamella type clamping Clamping suitable for cable diameter: 9.0 - 16.5 mm | |
|                  | Metal construction, EMC shielding | |
| Order-no. CKUA268MR44260002300 | E type, 8 pins | |

| Standard power extension, 9 pins | 4x Male crimping contact 3.6 mm | Crimp range: 1.5 bis 10.0 mm² | 9.0 - 16.5 mm |
|                  | 5x Male crimping contact 2.0 mm | Crimp range: 0.5 bis 2.5 mm² | |
|                  | Lamella type clamping Clamping suitable for cable diameter: 9.0 - 16.5 mm | |
|                  | Metal construction, EMC shielding | |
| Order-no. CKUA269MR01260014300 | E type, 9 pins | |
C Series – Power Connectors

Power receptacle straight, long, 6 pins
Flange 40.0 x 40.0 mm, nickel plated
Order-no. CEGA257MT48000003300 E type, 6 pins

Leistungs-Einbaudose, abgewinkelt, drehbar, 8 pol
Flansch 40.0 x 40.0 mm, vernickelt
Order-no. CEDA258MR44000004300 E type, 8 pins

Power receptacle straight, long, 8 pins
Flange 40.0 x 40.0 mm, nickel plated
Order-no. CEGA258MT44000003300 E type, 8 pins

Electrical data signal contacts
Max. rated current 30 A
Rated voltage 630 V (AC / DC)
Test voltage 4000 V
Character resistance < 3 mΩ
Over voltage category 14
Max. height for operation 2000 m

Data according to VDE 0110 / EN61984, part 6.19.2.2
Pollution degree 3
Material
- Housing Magnesium die cast/ aluminium
- Connection nut Brass, nickel plated
- Insulation insert PA 6.6 / PBT, UL 94 / V0
- Contacts Brass, gold plated
- Seals FPM / HNBR
- Clamping ring Brass, nickel plated

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Cable accessories

HELUKABEL Products are available from MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA web: http://mdmetric.com ph: (410)586-3130 (800)638-1303 fx: (410)586-3142 (800)872-9329 email: sales@mdmetric.com RFQ form: http://mdmetric.com/rfq.htm How to order: Please preface each HELUKABEL part number with ‘R955K’ Example (using the part number): R955K-14078

Reel feed contact page 454
You’ll find all connectors of this series in the online configurator: www.helutec.de
D Series – Power Connectors

**Design:**
- Plug
- Extension
- Receptacle straight with flange
- Receptacle angled with flange

**Insulation inserts:**
- 6, 8 pins

**SIZE 3 [6 AND 8 PINS]**

**Power plug 6 pins**
nickel plated
Order-no. DSTA001FR01740001300 P type, 6 pins

**Power plug 8 pins**
nickel plated
Order-no. DSTA001FR06740001300 P type, 8 pins

**Power extension, 6 pins**
nickel plated
Order-no. DUKA002MR01740001300 E type, 6 pins

**Power extension, 8 pins**
nickel plated
Order-no. DUKA002MR06740001300 E type, 8 pins

**Power:**
- 4x Male crimp. contact 10 mm
  Crimping range: 10.0 mm² / AWG8
- 2x Female crimp. contact 1.6 mm
  Crimping range: 1.5 mm²

**Signal:**
- 4x Male crimp. contact 1.6 mm
  Crimping range: 1.5 mm²
- 2x Female crimp. contact 1.6 mm
  Crimping range: 1.5 mm²

Crimping range: 16.0 mm², 25.0 mm², 35.0 mm² and 50.0 mm² also available
You’ll find all connectors of this series in the online configurator: www.helutec.de

HELUKABEL Products are available from MARYLAND METRICS P.O. Box 261 Owings Mills, MD 21117 USA web: http://mdmetric.com
ph: (410)358-3130 (800)638-1030 fx: (410)358-3142 (800)872-9329 email: sales@mdmetric.com RFQ form: http://mdmetric.com/rfq.htm
How to order: Please preface each HELUKABEL part number with ‘R955K’- Example (using the part number): R955K-14078
D Series – Power Connectors

**Power receptacle angled, 6 pins**
- Range: 88.0 x 88.0 mm, chromated
- Order-no: DEWC611MT09000001500

**Power:**
- 4x Male crimp. contact 10.0 mm
  - Crimping range: 10.0 mm / AWG8
- Signal:
  - 2x Male crimp. contact 1.6 mm
  - Crimping range: 1.5 mm

**Electrical data signal contacts**
- Rated current: 12 A
- Rated voltage: 250 V (AC / DC)
- Test voltage: 4000 V
- Contact resistance: < 5 mΩ
- Mating cycles: > 50

**Material**
- Housing: Zinc die cast, nickel plated
- Connection nut: Brass, nickel plated
- Insulation insert: PA 6.6 / PBT, UL 94 / V0
- Contacts: Brass, silver or gold plated
- Seals: FPM
- Clamping ring: Aluminium, vernickelt

**General technical data D Series**
- Temperatur range: -20°C to 130°C
- Protection rate: IP66/67 [plugged]

**Electrical data power contacts**
- Max. rated current: 150 A
- Rated voltage: 630 V (AC / DC)
- Test voltage: 6000 V
- Contact resistance: < 90 μΩ
- Mating cycles: > 50

**Data according to VDE0110 / EN61984, part 6.19.2.2**
- Pollution degree: 3
- Over voltage category: III
- Max. height for operation: 2000 m

**How to order:** Please preface each HELUKABEL part number with 'R955K-' Example (using the part number): R955K-14078
F Series – Combined Power/Signal Connectors

Design:
• Plug, standard
• Bushing/bulkhead
• Extension, standard

• Receptacle straight thread M34 x 0.75
• Receptacle straight with flange
• Receptacle angled

Insulation inserts:
• 12 to 25 pins (depends on the signal insulation inserts)

---

F SERIES – TWINTEC CONNECTORS (12 TO 25 PINS)

<table>
<thead>
<tr>
<th>Connector, 18 pins</th>
<th>Order-no. FSTA134FR860670003500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel plated</td>
<td>E type, 12 pins</td>
</tr>
</tbody>
</table>

4x HC Female crimp. contact 2.0 mm
Crimping range: 0.35 bis 2.5 mm²

2x HC Female crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

12x HC Female crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

Lamella type clamping
Clamping suitable for cable diameter: 12.0 - 20.0 mm

Metal construction, EMC shielding

---

<table>
<thead>
<tr>
<th>Connector, 23 pins</th>
<th>Order-no. FSTA185FR862670003500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel plated</td>
<td>P type, 17 pins</td>
</tr>
</tbody>
</table>

4x HC Female crimp. contact 2.0 mm
Crimping range: 0.35 bis 2.5 mm²

2x HC Female crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

17x HC Female crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

Lamella type clamping
Clamping suitable for cable diameter: 12.0 - 20.0 mm

Metal construction, EMC shielding

---

Standard extension, 18 pins
Order-no. FKUA348MR53670002300
Nickel plated

4x Male crimp. contact 2.0 mm
Crimping range: 0.35 bis 2.5 mm²

2x Male crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

12x Male crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

Lamella type clamping
Clamping suitable for cable diameter: 12.0 - 20.0 mm

Metal construction, EMC shielding

---

Standard extension, 23 pins
Order-no. FKUA320MR58670002300
Nickel plated

4x Male crimp. contact 2.0 mm
Crimping range: 0.35 bis 2.5 mm²

2x Male crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

17x Male crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

Lamella type clamping
Clamping suitable for cable diameter: 12.0 - 20.0 mm

Metal construction, EMC shielding

---

Receptacle, straight, 18 pins
Order-no. FEGA226MR53670002300
Nickel plated

4x Male crimp. contact 2.0 mm
Crimping range: 0.35 bis 2.5 mm²

2x Male crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

12x Male crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

Metal construction, Axial sealing

---

Receptacle, straight, 23 pins
Order-no. FEGA189MR58670002300
Nickel plated

4x Male crimp. contact 2.0 mm
Crimping range: 0.35 bis 2.5 mm²

2x Male crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

17x Male crimp. contact 1.0 mm
Crimping range: 0.14 bis 1.0 mm²

Metal construction, Axial sealing

---

Cable accessories

 How to order: Please preface each HELUKABEL part number with ‘R955K’ Example (using the part number): R955K-14078
## F Series – Combined Power/Signal Connectors

<table>
<thead>
<tr>
<th>Description</th>
<th>Image 1</th>
<th>Image 2</th>
<th>Image 3</th>
<th>Image 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receptacle, angled, 18 pins</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>Range: 50.0 x 60.0 mm, nickel plated</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Order no.: FWFA266MR10000001300</td>
<td>P type, 12 pins</td>
<td>Metal construction, Axial sealing</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### General technical data F Series
- **Temperature range**: -20°C to 130°C
- **Protection rate**: IP66/67 [plugged]

### Electr. data F Series
- **Max. rated current**: 30 A
- **Rated voltage**: 630 V AC/DC
- **Test voltage**: 6000 V
- **Clamping range**: 0.35 to 2.5 mm²
- **Contact resistance**: < 5 mΩ
- **Mating cycles**: > 50

### Material F Series
- **Housing**: Zinc die cast/nickel plated, nickel plated/alu
- **Insulation insert**: PA 6.6/PBT, UL 94/ V0
- **Contacts**: Brass, silver or gold plated
- **Seals**: FPM
- **Clamping ring**: Aluminum, nickel plated

### S Series – One Pin Power Connectors

<table>
<thead>
<tr>
<th>Description</th>
<th>Image 1</th>
<th>Image 2</th>
<th>Image 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power connectors 1 pin</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td>Nickel plated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Order no.: SSTA001FR10000001300</td>
<td>P type, 1 pin</td>
<td>Metal construction, EMC shielding</td>
<td></td>
</tr>
</tbody>
</table>

### General technical data S Series
- **Temperature range**: -20°C to 130°C
- **Protection rate**: IP 66/67 [plugged]

### Electrical data S Series
- **Max. rated current**: 80 A
- **Rated voltage**: 630 V AC/DC
- **Test voltage**: 8000 V
- **Contact resistance**: < 110 μΩ
- **Mating cycles**: > 50

---

**How to order**: Please preface each HELUKABEL part number with ‘R955K’- Example (using the part number): R955K-14078

---

**Cable accessories**

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## TOOLS, ACCESSORIES

### CRIMPING PLIERS A, B AND F SERIES

<table>
<thead>
<tr>
<th>Manual crimping pliers</th>
<th>Positioning insert</th>
<th>Positioning insert</th>
<th>Positioning insert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order-no. C0.101.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CRIMPING PLIERS A, B, C, D AND F SERIES

<table>
<thead>
<tr>
<th>Manual crimping pliers</th>
<th>Positioning insert</th>
<th>Positioning insert</th>
<th>Positioning insert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order-no. C0.201.00</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### CRIMPING PLIERS C SERIES

<table>
<thead>
<tr>
<th>Manual crimping pliers</th>
<th>Positioning insert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order-no. C0.009.00</td>
<td></td>
</tr>
</tbody>
</table>

### Pneumatic crimper

<table>
<thead>
<tr>
<th>Order-no.</th>
<th>Contact</th>
<th>Crimping range</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0.044.00</td>
<td>Male Ø 2 mm</td>
<td>1.5 - 2.5 mm²</td>
</tr>
</tbody>
</table>

### CRIMPING INSERT

<table>
<thead>
<tr>
<th>Order-no.</th>
<th>Contact</th>
<th>Crimping range</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0.042.00</td>
<td>Male Ø 2 mm</td>
<td>1.5 / 2.5 mm²</td>
</tr>
<tr>
<td>C0.041.00</td>
<td>Female Ø 2 mm</td>
<td>1.5 - 2.5 mm²</td>
</tr>
<tr>
<td>C0.040.00</td>
<td>Male/female Ø 2 mm</td>
<td>4.0 / 6.0 mm²</td>
</tr>
<tr>
<td>C0.045.00</td>
<td>Male/female Ø 2 mm</td>
<td>10.0 mm²</td>
</tr>
</tbody>
</table>

### LOCATOR

<table>
<thead>
<tr>
<th>Order-no.</th>
<th>Contact</th>
<th>Crimping range</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0.056.00</td>
<td>Male/female Ø 2 mm</td>
<td>1.5 / 2.5 mm²</td>
</tr>
<tr>
<td>C0.057.00</td>
<td>Male/female Ø 3 mm</td>
<td>1.5 - 10.0 mm²</td>
</tr>
<tr>
<td>C0.058.00</td>
<td>Male/female Ø 3 mm</td>
<td>1.5 - 16.0 mm²</td>
</tr>
</tbody>
</table>

### CRIMPING PLIERS S AND D SERIES

<table>
<thead>
<tr>
<th>Battery powered crimper</th>
<th>Order-no.</th>
<th>Crimping insert max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>B131-C</td>
<td>C0.207.00</td>
<td>10 mm² / 16 mm²</td>
</tr>
</tbody>
</table>

### Battery powered crimper, B131-C

<table>
<thead>
<tr>
<th>Order-no.</th>
<th>Crimping inserts max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C0.201.00</td>
<td>25 mm²</td>
</tr>
<tr>
<td>C0.209.00</td>
<td>50 mm²</td>
</tr>
</tbody>
</table>
New! Closed reel feed contact system, Ø 1 mm

<table>
<thead>
<tr>
<th>Order-no.</th>
<th>Reel feed</th>
<th>Crimp. range</th>
<th>Crimp. size</th>
<th>Tool-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.198.80</td>
<td>female contact</td>
<td>0.03 - 0.08 mm²</td>
<td>1</td>
<td>WM10241</td>
</tr>
<tr>
<td>60.199.80</td>
<td>female contact</td>
<td>0.08 - 0.20 mm²</td>
<td>2</td>
<td>WM10242</td>
</tr>
<tr>
<td>60.200.80</td>
<td>female contact</td>
<td>0.20 - 0.52 mm²</td>
<td>3</td>
<td>WM10243</td>
</tr>
<tr>
<td>60.201.80</td>
<td>female contact</td>
<td>0.75 - 1.00 mm²</td>
<td>4</td>
<td>WM10244</td>
</tr>
<tr>
<td>61.170.80</td>
<td>male contact</td>
<td>0.03 - 0.08 mm²</td>
<td>1</td>
<td>WM10241</td>
</tr>
<tr>
<td>61.171.80</td>
<td>male contact</td>
<td>0.08 - 0.20 mm²</td>
<td>2</td>
<td>WM10242</td>
</tr>
<tr>
<td>61.172.80</td>
<td>male contact</td>
<td>0.20 - 0.52 mm²</td>
<td>3</td>
<td>WM10243</td>
</tr>
<tr>
<td>61.173.80</td>
<td>male contact</td>
<td>0.75 - 1.00 mm²</td>
<td>4</td>
<td>WM10244</td>
</tr>
</tbody>
</table>

Packaging unit: 7000 pcs. reel feed contacts per unit

<table>
<thead>
<tr>
<th>Order-no.</th>
<th>Crimp. range</th>
<th>Tool-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>60.046.21</td>
<td>female contact</td>
<td>0.50 - 2.50 mm²</td>
</tr>
</tbody>
</table>

Packaging unit: 5000 pcs. reel feed contacts per unit

CRIMPING PLIERS FOR REEL FEED CONTACTS FOR A AND F SERIES

Manual crimping pliers for reel feed Ø 1 mm

<table>
<thead>
<tr>
<th>Crimping range</th>
<th>Order-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.03 - 1.0 mm²</td>
<td>C0.237.00</td>
</tr>
</tbody>
</table>

CRIMPING PLIERS FOR REEL FEED FEMALE CONTACTS B UND C SERIES

Manual crimping pliers for reel feed contacts Ø 2 mm

<table>
<thead>
<tr>
<th>Crimping range</th>
<th>Order-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 - 2.5 mm²</td>
<td>C0.073.00</td>
</tr>
</tbody>
</table>

Manual crimping pliers for reel feed contacts Ø 2 mm

<table>
<thead>
<tr>
<th>Crimping range</th>
<th>Order-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 - 1.0 mm²</td>
<td>C0.072.00</td>
</tr>
</tbody>
</table>

Manual crimping pliers for reel feed Ø 2 mm

<table>
<thead>
<tr>
<th>Crimping range</th>
<th>Order-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 - 2.5 mm²</td>
<td>C0.046.21.015</td>
</tr>
</tbody>
</table>

Unit not included

Packaging unit: 200 pcs. reel feed female contacts per unit
## TOOLS, ACCESSORIES

### ACCESSORIES A SERIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal flange</td>
<td>2 components, thread M3, metal housing, incl. sealing</td>
<td>E0.022.00</td>
</tr>
<tr>
<td>Metal protection cap</td>
<td>Axial sealing, wire included, suitable for extension and receptacle</td>
<td>E8.011.01, E8.013.01</td>
</tr>
<tr>
<td>Plastic protection cap</td>
<td>Suitable for extension and receptacle</td>
<td>A8.002.00</td>
</tr>
<tr>
<td>Removal tool</td>
<td>For signal insulation inserts</td>
<td>C4.016.00</td>
</tr>
<tr>
<td>Assembly aid</td>
<td>Insertion of contacts in the insulation inserts</td>
<td>C6.040.00</td>
</tr>
<tr>
<td>Assembly tool</td>
<td>For cover of receptacles (EW, ED only)</td>
<td>C6.018.00</td>
</tr>
</tbody>
</table>

### ACCESSORIES B SERIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal flange</td>
<td>2 components, thread M3, metal housing, incl. sealing</td>
<td>E0.015.00</td>
</tr>
<tr>
<td>Metal protection cap</td>
<td>Axial sealing, wire included, suitable for extension and receptacle</td>
<td>E8.011.01</td>
</tr>
<tr>
<td>Plastic protection cap</td>
<td>Suitable for extension and receptacle</td>
<td>A8.002.00</td>
</tr>
<tr>
<td>Removal tool</td>
<td>For contacts</td>
<td>C4.005.00</td>
</tr>
<tr>
<td>Removal hull</td>
<td>For Ø 1 mm male contacts</td>
<td>C4.006.00</td>
</tr>
<tr>
<td>Removal hull</td>
<td>For Ø 2.0 mm male contacts</td>
<td>C4.007.00</td>
</tr>
<tr>
<td>Complete set in a case</td>
<td></td>
<td>C6.001.00</td>
</tr>
<tr>
<td>Assembly tool</td>
<td>For cover of receptacles (EW, ED only)</td>
<td>C6.018.00</td>
</tr>
</tbody>
</table>

### ACCESSORIES M17 SERIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Order-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metal flange</td>
<td>2 components, thread M5, metal housing, incl. sealing</td>
<td>E0.141.00</td>
</tr>
<tr>
<td>Plastic protection cap</td>
<td>Suitable for extension and receptacle</td>
<td>A8.010.00</td>
</tr>
<tr>
<td>Removal tool</td>
<td>Insulation inserts suitable for EG and ED connectors</td>
<td>C4.022.00</td>
</tr>
<tr>
<td>Assembly aid</td>
<td>Insertion of contacts in the insulation inserts</td>
<td>C6.107.00</td>
</tr>
</tbody>
</table>
TOOLS, ACCESSORIES

ACCESSORIES C SERIES

- Metal flange
  2 components, thread M4
  optional clamping onto metal housings, incl. sealing
  Order-no. E0.028.00

- Plastic protection cap
  Axial sealing, wire included, suitable for plugs
  Order-no. 8A.004.00

ACCESSORIES D SERIES

- Metal flange
  2 components, thread M4
  optional clamping onto metal housings, incl. sealing
  Order-no. E0.098.00

- Plastic protection cap
  suitable for extension and receptacle
  Order-no. 8A.005.00

ACCESSORIES F SERIES

- Metal flange
  2 components, thread M4
  optional clamping onto metal housings, incl. sealing
  Order-no. E0.059.00

- Plastic protection cap
  for signal insulation inserts
  Order-no. E0.016.00

ACCESSORIES S SERIES

- Metal flange
  2 components, thread M5
  optional clamping onto metal housings, incl. sealing
  Order-no. E0.015.00

- Plastic protection cap
  suitable for extension and receptacle
  Order-no. E0.002.00

TOOLS D SERIES

- Removal tool
  for contacts
  Order-no. C4.005.00

- Removal tool
  for Ø 1.6 mm male contacts
  Order-no. C4.006.00

- Removal tool
  for Ø 2.0 mm male contacts
  Order-no. C4.007.00

- Assembly tool
  for fixing insert units to angled receptacles (EW)
  Order-no. C6.018.00

- Complete set in a case
  Order-no. C8.001.00

TOOLS F SERIES

- Removal tool
  for signal insulation inserts
  Order-no. C4.024.00

- Assembly tool
  for fixing insert units to angled receptacles (EW)
  Order-no. C6.017.00

TOOLS S SERIES

- Removal tool for insulation inserts
  suitable for EG connectors
  Order-no. C4.024.00

- Complete set in a case
  Order-no. C8.001.00
HELUTEC®
Hightech connector solutions

HELUTEC® – the new cable accessory program from HELUKABEL®, Signal and power circular connector series for industrial applications.

HELUTEC®
Industrial connectors

Any questions? Please contact us directly:

For further information, please order our detailed HELUTEC® technical documentation.
HELUTEC® industrial plug connectors – also available from us pre-assembled.

Simply ask – we are happy to help.
Tel. 07150/9209-756, -140