THE WORLD OF LAPP

EPIC® Industrial connectors – simply complete
Please note: the purpose of the icons is to provide you with a quick overview and a rough indication of the product features to which the corresponding information relates. You can find details of product characteristics in the "technical data" sections on the product pages.
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Family business and global player
LAPP is both. The history of our company has been one of success and expansion ever since it was founded in 1959 by Ursula Ida and Oskar Lapp. It remains resolutely family owned to this day. We safeguard our success by staying close to our customers and markets, maintaining our innovative strength and brand quality, and being a reliable partner. We provide continuity, always guided in our thoughts and actions by our values.

Success built on family values
At LAPP, we maintain values that promote cooperation and enable relationships with employees, suppliers and customers based on partnership and trust. Good relations and mutual respect are key elements of our company culture and a central plank of company policy. We know that our successful business development of the last decades is down in particular to our 3,770 skilled and dedicated staff around the world, as well as the reliable partnership with our customers.

With 17 production facilities, over 40 sales companies and hundreds of dedicated consultants, we are always close to the individual needs and challenges of our customers all over the globe. We are constantly developing our products and system solutions, setting standards in safety, quality and functionality. This is why we are one of the world’s leading manufacturers of integrated solutions and branded products in cable and connection technology. As our success story enters its third generation, we are aware of our duty to the future.

www.lappkabel.com/company
In June 2016, after more than 20 years of construction, the Gotthard Base Tunnel in Switzerland, which will be the longest railway tunnel in the world at 57 kilometres, is set to have its grand opening. What hardly anyone knows is that EPIC® industrial connectors from LAPP have also contributed to the success of this construction of the century. In order to dig the two railway tunnels from north to south through the hard rock, four tunnel boring machines from the tunnel construction experts Herrenknecht based in Schwanau (Baden-Württemberg, Germany) were used. Just one machine (the so-called Gripper TBM) has over 26 tons of pressing force, is 400 metres long and 9 metres wide. This makes it possible to break down even the hardest stone. EPIC® connectors were used here as extension connectors, since the further the tunnel boring machine is driven into the mountain the longer the cable for the power supply and controls must be. The EPIC® H-BE connectors were interconnected with housings and inserts every 50 metres to ensure that everything works reliably. These connectors are particularly suitable for higher voltages and currents and boast a high level of reliability. This is particularly important deep in the tunnel. Incidentally: the new tunnel will shorten the travel time for trains running between Zurich and Milan by an hour to just 2 hours and 40 minutes.
Finding solutions

**EPIC® Connector Selector – Support for configuration of Industrial Connectors**

Design, insert, housing and counterpart. These four selections take you to the appropriate connector in just a few clicks.

![EPIC Connector Selector Image]


**Cable Connector Selector**

Configure your own individual industrial connector housing with locking concept and cable entries.

![Cable Connector Selector Image]

At a glance

### EPIC® Industrial connectors

#### Screw

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<th>Properties</th>
<th>Connection type</th>
<th>Connection cross section</th>
<th>Rated voltage according to standards</th>
<th>Rated current for largest connection cross section according to standards</th>
<th>Approvals</th>
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<td>Rectangular – inserts fixed</td>
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<td>400 V</td>
<td>600 V</td>
<td>23 A</td>
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<td>EPIC® H A 10, 16, 32, 48</td>
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<td>High voltage 4+PE</td>
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<td>PROFIBUS® DP</td>
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<td>Universal bus</td>
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<td>RJ45</td>
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<td>Pneumatic 1, 2-pin</td>
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<td>Round</td>
<td>EPIC® POWER M12 3+PE</td>
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<td>630 V</td>
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<td>EPIC® SIGNAL M23 8+1</td>
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<td>EPIC® SIGNAL M23 17</td>
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<td>50 V</td>
<td>50 V</td>
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<td>EPIC® SIGNAL R3.0</td>
<td>0.06 – 1.0</td>
<td>24 VAC/60 VDC</td>
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<td></td>
<td>EPIC® POWER LS1 5+PE</td>
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<td>630 V/250 V</td>
<td>600 V/ 250 V</td>
<td>17 A</td>
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<td></td>
<td>EPIC® POWER LS1 5+PE+4</td>
<td>0.5 – 4.0/ 0.4 – 1.0</td>
<td>630 V/250 V</td>
<td>600 V/ 250 V</td>
<td>17 A</td>
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<td>EPIC® POWER LS1.5 3+PE+2, 3+PE+4</td>
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<td>630 V/250 V</td>
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<td>EPIC® POWER LS3 3+PE+2, 3+PE+4</td>
<td>10.0 – 50.0/ 0.75 – 1.5</td>
<td>630 V/250 V</td>
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<td>EPIC® POWERLOCK 5</td>
<td>50.0 – 120.0</td>
<td>1000 V</td>
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<td>EPIC® POWERLOCK C</td>
<td>35.0 – 240.0</td>
<td>1000 V</td>
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</table>

| SOLAR | EPIC® SOLAR 4 | 2.5 – 6.0 | 1000 V | - | - | 30 A | - | - | TÜV |

P*: Power  S*: Signal  H*: In metal housing  24 VAC/60 VDC; in plastic housing: 250 V

**Note:** The table above summarizes the specifications and features of various EPIC® Industrial connectors, including their connection types, rated voltages, and approvals. The details provided include voltage ratings, current capacities, and approvals for both screw and modular connections, catering to a wide range of industrial applications.
EPIC® rectangular connectors
Flexible, robust connectors for mechanical engineering

The connector system for mechanical and plant engineering and wherever a robust connection system is required. EPIC® Rectangular connectors are available as components. The right connector for any application can be made individually from housings, inserts and contacts.

www.lappgroup.com/connectorfinder

For the housing, there are two performance classes to choose from
- EPIC® Standard is robust and there is a flexible choice of cable entries www.lappgroup.com/connector-housing
- EPIC® ULTRA has a high corrosion protection, EMC protection as well as a stainless steel interlocking device

EPIC® Circular Connectors
Compact connectors for motion control and energy transfer

Circular connections come in two designs, a signal design with gold-plated contacts for transmitting delicate signals and as high-reserve power connectors.

EPIC® SIGNAL connectors are available as M17, M23 and R3.0 (M27)
- The metal housing with an integrated EMC screen contact reliably prevents electromagnetic interferences
- Gold-plated signal contacts reliably transmit with the lowest of currents and voltages

EPIC® POWER connectors are available as M12, M17, LS1 (M23), LS1.5 (M40) and LS3 (M58)
- The integrated EMC cable glands offer strain relief and are perfectly sealed
- High-quality sealing materials for good chemical protection

EPIC® POWERLOCK
- Perfect for transmitting very high currents
- Colour coded and geometrically coded in order to prevent incorrect connections

EPIC® SOLAR connectors
Durable connectors for photovoltaics

High-quality connections for a long-term and reliable outdoor connection

EPIC® SOLAR Field Harnessable
- Crimp and insert the contact, twist the cable gland, it’s that simple

EPIC® SOLAR Map for organic PV modules
- Customised production instead of off-the-shelf products, that’s what the new PV connection technology made by LAPP is about

Photographs are not to scale and do not represent detailed images of the respective products.
### EPIC® ULTRA KIT H-B 6

**Benefits**
- EMC protection
- Corrosion-resistant
- Push-In inserts - fast and easy tool free connection technology

**Technical data**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tr>
<td>Rated current (A)</td>
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<tr>
<td>Number of contacts</td>
<td>6 + PE</td>
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</tbody>
</table>

**Info**
- Complete connectors - easy to order

#### EPIC ULTRA Kit H-B 6 SP TG LB 9-17
- Male insert EPIC® H-BE 6 Push-In termination
- EMC hood EPIC® ULTRA H-B 6
- Integrated SKINTOP® cable gland

#### EPIC ULTRA Kit H-B 6 SP TS LB 9-17
- Male insert EPIC® H-BE 6 Push-In termination
- EMC hood EPIC® ULTRA H-B 6
- Integrated SKINTOP® cable gland

#### EPIC ULTRA Kit H-B 6 BP AG LB
- Female insert EPIC® H-BE 6 Push-In termination
- EMC panel-mount base EPIC® ULTRA H-B 6

#### EPIC ULTRA Kit H-B 6 BP SGR LB 9-17
- Female insert EPIC® H-BE 6 Push-In termination
- EMC surface-mount base EPIC® ULTRA H-B 6
- Integrated SKINTOP® cable gland

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EPIC® ULTRA KIT H-B 10

Benefits
- EMC protection
- Corrosion-resistant
- Push-In inserts – fast and easy tool free connection technology

EPIC® ULTRA Kit H-B 10 SP TS QB 11-21

- Male insert EPIC® H-BE 10
- Push-In termination
- EMC hood EPIC® ULTRA H-B 10
- Integrated SKINTOP® cable gland

EPIC ULTRA Kit H-B 10 BP AG QB

- Female insert EPIC® H-BE 10
- Push-In termination
- EMC panel-mount base
- EPIC® ULTRA H-B 10

Technical data

<table>
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<td>Rated current (A)</td>
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Info
- Complete connectors – easy to order

Article numbers for single components
- 70250212
- 44423202

Article number | Pieces/PU
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75009738 | 1

Article numbers for single components
- 70250213
- 44423203

Article number | Pieces/PU
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75009739 | 1
EPIC® ULTRA KIT H-B 16

Benefits
• EMC protection
• Corrosion-resistant
• Push-In inserts - fast and easy tool free connection technology

Technical data

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Info
• Complete connectors - easy to order

EPIC ULTRA Kit H-B 16 SP TS QB 11-21

- Male insert EPIC® H-BE 16
- Push-In termination
- EMC hood EPIC® ULTRA H-B 16
- Integrated SKINTOP® cable gland

Article number      Pieces/PU
75009740            1

Article numbers for single components
- 70250216
- 44423204

EPIC ULTRA Kit H-B 16 BP AG QB

- Female insert EPIC® H-BE 16
- Push-In termination
- EMC panel-mount base
- EPIC® ULTRA H-B 16

Article number      Pieces/PU
75009741            1

Article numbers for single components
- 70250217
- 44423205
EPIC® Industrial connectors
Rectangular connectors • EPIC® Rectangular Kits

Benefits
• EMC protection
• Corrosion-resistant
• Push-In inserts - fast and easy tool free connection technology

Technical data

![Image of EPIC® ULTRA Kit H-B 24]

**EPIC ULTRA Kit H-B 24 SP TS QB 11-21**

- Male insert EPIC® H-BE 24
- Push-In termination
- EMC hood EPIC® ULTRA H-B 24
- Integrated SKINTOP® cable gland

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**Article numbers for single components**

- 70250221
- 44423206

**EPIC ULTRA Kit H-B 24 BP AG QB**

- Female insert EPIC® H-BE 24
- Push-In termination
- EMC panel mount base
- EPIC® ULTRA H-B 24

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**Article numbers for single components**

- 70250222
- 44423207

**Info**
- Complete connectors - easy to order

For current information see: www.lappgroup.com
EPIC® Industrial connectors

EPIC® Rectangular connectors • EPIC® Rectangular Kits

EPIC® H-A 3 Kits Thermoplastic

Benefits
- Pre-packed kits with compatible components
- Uncomplicated ordering
- No misplaced orders

Technical data
- Rated voltage (V)
  IEC: 400 V UL: 600 V CSA: 600 V
- Rated current (A)
  IEC: 23 A UL: 10 A CSA: 10 A
- Number of contacts
  3 + PE

Similar products
- EPIC® H-A 3 Kits Metal

Article number | Pieces/PU
---|---
EPIC® H-A 3 Kits Thermoplastic | 75009601 | 1

Article numbers for single components
- H-A 3 SS 10420000
- H-A 3 Tgv M20 19426000

Article number | Pieces/PU
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H-A 3 Tgv M20 | 75009603 | 1

Article numbers for single components
- H-A 3 SS 10420000
- H-A 3 Ts M20 19427000

Article number | Pieces/PU
---|---
H-A 3 Ts M20 | 75009607 | 1

Article numbers for single components
- H-A 3 BS 10421000
- H-A 3 Ag 10422000

Article number | Pieces/PU
---|---
H-A 3 Ag | 75009609 | 1

Article numbers for single components
- H-A 3 BS 10421000
- H-A 3 Ags 10423000

Article number | Pieces/PU
---|---
H-A 3 Ags | 75009611 | 1

Article numbers for single components
- H-A 3 BS 10421000
- H-A 3 Tgvb M20 19429000

Article number | Pieces/PU
---|---
H-A 3 Tgvb M20 | 75009611 | 1

Article numbers for single components
- H-A 3 BS 10421000
- H-A 3 Tgvb M20 19429000

EPIC® H-A 3 SS TG M20
- EPIC® H-A 3 screw-termination male insert
- EPIC® H-A 3 hood
- Housing: thermoplastic grey

EPIC® H-A 3 SS TS M20
- EPIC® H-A 3 screw-termination male insert
- EPIC® H-A 3 hood
- Side cable entry
- Housing: thermoplastic grey

EPIC® H-A 3 BS AG
- EPIC® H-A 3 screw-termination female insert
- EPIC® H-A 3 panel-mount base
- Straight version
- Housing: thermoplastic grey

EPIC® H-A 3 BS AGS
- EPIC® H-A 3 screw-termination female insert
- EPIC® H-A 3 panel-mount base
- Angled version
- Housing: thermoplastic grey

EPIC® H-A 3 BS AGS M20
- EPIC® H-A 3 screw-termination female insert
- EPIC® H-A 3 panel-mount base
- Angled version
- Housing: thermoplastic grey

EPIC® H-A 3 BS TGB M20
- EPIC® H-A 3 screw-termination female insert
- EPIC® H-A 3 cable coupler hood
- Housing: thermoplastic grey
EPIC® H-A 3 Kits Metal

Benefits
- Pre-packed kits with compatible components
- Uncomplicated ordering
- No misplaced orders

Similar products
- EPIC® H-A 3 Kits Thermoplastic

Technical data
- **Rated voltage (V)**
  - IEC: 400 V
  - UL: 600 V
  - CSA: 600 V
- **Rated current (A)**
  - IEC: 23 A
  - UL: 10 A
  - CSA: 10 A
- **Number of contacts**
  - 3 + PE

EPIC KIT H-A 3 SS MTG M20
- EPIC® H-A 3 screw-termination male insert
- EPIC® H-A 3 hood
- Housing: zinc die-casting, grey

EPIC KIT H-A 3 SS MTS M20
- EPIC® H-A 3 screw-termination male insert
- EPIC® H-A 3 hood
- Side cable entry
- Housing: zinc die-casting, grey

EPIC KIT H-A 3 BS MAG
- EPIC® H-A 3 screw-termination female insert
- EPIC® H-A 3 panel-mount base
- Straight version
- Housing: zinc die-casting, grey

EPIC KIT H-A 3 BS MAGS
- EPIC® H-A 3 screw-termination female insert
- EPIC® H-A 3 panel-mount base
- Angled version
- Housing: zinc die-casting, grey

EPIC KIT H-A 3 BS MAGS M20
- EPIC® H-A 3 screw-termination female insert
- EPIC® H-A 3 panel-mount base
- Angled version
- Housing: zinc die-casting, grey

EPIC KIT H-A 3 BS MTGB M20
- EPIC® H-A 3 screw-termination female insert
- EPIC® H-A 3 cable coupler hood
- Housing: zinc die-casting, grey

Article number | Pieces/PU
---|---
EPIC® H-A 3 Kits Metal 75009602 | 1

Article numbers for single components
- H-A 3 SS 10420000
- H-A 3 MTgv M20 19512100

Article number | Pieces/PU
---|---
H-A 3 MTgv M20 75009604 | 1

Article numbers for single components
- H-A 3 SS 10420000
- H-A 3 Ts M20 19512300

Article number | Pieces/PU
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H-A 3 Ts M20 75009606 | 1

Article numbers for single components
- H-A 3 BS 10421000
- H-A 3 Mag 10422500

Article number | Pieces/PU
---|---
H-A 3 Mag 75009608 | 1

Article numbers for single components
- H-A 3 BS 10421000
- H-A 3 Mags 10423500

Article number | Pieces/PU
---|---
H-A 3 Mags 75009610 | 1

Article numbers for single components
- H-A 3 BS 10421000
- H-A 3 MAgsv M20 19512700

Article number | Pieces/PU
---|---
H-A 3 MAgsv M20 75009612 | 1

Article numbers for single components
- H-A 3 BS 10421000
- H-A 3 MTgv M20 19512900

For current information see: www.lappgroup.com
EPIC® Industrial connectors

Rectangular connectors • EPIC® Rectangular Kits

EPIC® H-A 4 Kits Thermoplastic

Benefits
• Pre-packed kits with compatible components
• Uncomplicated ordering
• No misplaced orders

Similar products
• EPIC® H-A 4 Kits Metal

Technical data

| Rated voltage (V) | IEC: 400 V UL: 600 V CSA: 600 V
|-------------------|
| Rated current (A) | IEC: 23 A UL: 10 A CSA: 10 A
| Number of contacts | 4 + PE

Article number | Pieces/PU
---|---
EPIC® H-A 4 Kits Thermoplastic | 1

Article numbers for single components

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EPIC KIT H-A 4 SS TG M20

• EPIC® H-A 4 screw-termination male insert
• EPIC® H-A 3 hood
• Straight cable entry
• Housing: thermoplastic grey

Article number | Pieces/PU
---|---
H-A 3 Tgv M20 | 1

Article numbers for single components

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EPIC KIT H-A 4 SS TS M20

• EPIC® H-A 4 screw-termination male insert
• EPIC® H-A 3 hood
• Side cable entry
• Housing: thermoplastic grey

Article number | Pieces/PU
---|---
H-A 3 Ts M20 | 1

Article numbers for single components

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EPIC KIT H-A 4 BS AG

• EPIC® H-A 4 screw-termination female insert
• EPIC® H-A 3 panel-mount base
• Straight version
• Housing: thermoplastic grey

Article number | Pieces/PU
---|---
H-A 3 Ag | 1

Article numbers for single components

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EPIC KIT H-A 4 BS AGS

• EPIC® H-A 4 screw-termination female insert
• EPIC® H-A 3 panel-mount base
• Angled version
• Housing: thermoplastic grey

Article number | Pieces/PU
---|---
H-A 3 Ags | 1

Article numbers for single components

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EPIC KIT H-A 4 BS AGS M20

• EPIC® H-A 4 screw-termination female insert
• EPIC® H-A 3 panel-mount base
• Angled version
• Housing: thermoplastic grey

Article number | Pieces/PU
---|---
H-A 3 Agsv M20 | 1

Article numbers for single components

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EPIC KIT H-A 4 BS TGB M20

• EPIC® H-A 4 screw-termination female insert
• EPIC® H-A 3 cable coupler hood
• Straight cable entry
• Housing: thermoplastic grey

Article number | Pieces/PU
---|---
H-A 3 Tgvb M20 | 1

Article numbers for single components

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EPIC® Industrial connectors

EPIC® H-A 4 Kits Metal

Benefits
• Pre-packed kits with compatible components
• Uncomplicated ordering
• No misplaced orders

Similar products
• EPIC® H-A 4 Kits Thermoplastic

Technical data

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EPIC KIT H-A 4 SS MTG M20

• EPIC® H-A 4 screw-termination male insert
• EPIC® H-A 3 hood
• Straight cable entry
• Housing: zinc die-casting, grey

EPIC KIT H-A 4 SS MTS M20

• EPIC® H-A 4 screw-termination male insert
• EPIC® H-A 3 hood
• Side cable entry
• Housing: zinc die-casting, grey

EPIC KIT H-A 4 BS MAG

• EPIC® H-A 4 screw-termination female insert
• EPIC® H-A 3 panel-mount base
• Straight version
• Housing: zinc die-casting, grey

EPIC KIT H-A 4 BS MABS

• EPIC® H-A 4 screw-termination female insert
• EPIC® H-A 3 panel-mount base
• Angled version
• Housing: zinc die-casting, grey

EPIC KIT H-A 4 BS MABS M20

• EPIC® H-A 4 screw-termination female insert
• EPIC® H-A 3 panel-mount base
• Angled version
• Housing: zinc die-casting, grey

EPIC KIT H-A 4 BS TGB M20

• EPIC® H-A 4 screw-termination female insert
• EPIC® H-A 3 cable coupler hood
• Straight cable entry
• Housing: zinc die-casting, grey

Article number | Pieces/PU |
--- | --- |
EPIC® H-A 4 Kits Metal | 75009614 | 1 |

Article numbers for single components
• H-A 4 SS 10431000
• H-A 3 MTgv M20 19512100

EPIC KIT H-A 4 SS MTS M20

• H-A 3 MTgv M20 | 75009616 | 1 |

Article numbers for single components
• H-A 4 SS 10431000
• H-A 3 Ts M20 19512300

EPIC KIT H-A 4 BS MAG

• H-A 3 Ts M20 | 75009618 | 1 |

Article numbers for single components
• H-A 4 BS 10432000
• H-A 3 Mag 10422500

EPIC KIT H-A 4 BS MABS

• H-A 3 Mag | 75009620 | 1 |

Article numbers for single components
• H-A 4 BS 10432000
• H-A 3 Mags 10423500

EPIC KIT H-A 4 BS MABS M20

• H-A 3 Mags | 75009622 | 1 |

Article numbers for single components
• H-A 4 BS 10432000
• H-A 3 MAgsv M20 19512700

EPIC KIT H-A 4 BS TGB M20

• H-A 3 MAgsv M20 | 75009624 | 1 |

Article numbers for single components
• H-A 4 BS 10432000
• H-A 3 MTgvb M20 19512900

Info
• Complete connectors – easy to order starting from 1 piece

For current information see: www.lappgroup.com
EPIC® Industrial connectors

Rectangular connectors • EPIC® Rectangular Kits

EPIC® H-A 10 Kits

Benefits
- Pre-packed kits with compatible components
- Uncomplicated ordering
- No misplaced orders

Technical data

- **Rated voltage (V):**
  - IEC: 250 V
  - UL: 600 V
  - CSA: 600 V
- **Rated current (A):**
  - IEC: 16 A
  - UL: 14 A
  - CSA: 16 A
- **Number of contacts:** 10 + PE

Info

- Complete connectors - easy to order starting from 1 piece

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<th>Article number</th>
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<td>H-A 10 BS TBF-LB M20</td>
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Article numbers for single components

- **H-A 10 SS 10440100**
- **H-A 10 TG M20 19446000**
- **H-A 10 TS M20 19445000**
- **H-A 10 BS 10441100**
- **H-A 10 AG-LB 10442000**
- **H-A 10 BS 10441100**
- **H-A 10 SGR-LB M20 19448100**
- **H-A 10 BS 10441100**
- **H-A 10 TBF-LB M20 19439000**

EPIC KIT H-A 10 SS TG M20

- EPIC® H-A 10 screw-termination male insert
- With wire protection
- EPIC® H-A 10 hood

EPIC KIT H-A 10 SS TS M20

- EPIC® H-A 10 screw-termination male insert
- With wire protection
- EPIC® H-A 10 hood

EPIC KIT H-A 10 BS AG

- EPIC® H-A 10 screw-termination female insert
- With wire protection
- EPIC® H-A 10 panel-mount base

EPIC KIT H-A 10 BS SGR-LB M20

- EPIC® H-A 10 screw-termination female insert
- With wire protection
- EPIC® H-A 10 surface-mount base

EPIC KIT H-A 10 BS TBF-LB M20

- EPIC® H-A 10 screw-termination female insert
- With wire protection
- EPIC® H-A 10 cable coupler hood
EPIC® Industrial connectors

Rectangular connectors • EPIC® Rectangular Kits

EPIC® H-A 16 Kits

Benefits
• Pre-packed kits with compatible components
• Uncomplicated ordering
• No misplaced orders

Technical data
Rated voltage (V)
- IEC: 250 V
- UL: 600 V
- CSA: 600 V

Rated current (A)
- IEC: 16 A
- UL: 14 A
- CSA: 16 A

Number of contacts
16 + PE

Info
• Complete connectors – easy to order starting from 1 piece

EPIC KIT H-A 16 SS TG M20

• EPIC® H-A 16 screw-termination male insert
• With wire protection
• EPIC® H-A 16 hood

Article number Pieces/PU
EPIC® H-A 16 Kits
75009630 1

Article numbers for single components
• H-A 16 SS 10530000
• H-A 16 TG M20 19565000

EPIC KIT H-A 16 SS TS M20

• EPIC® H-A 16 screw-termination male insert
• With wire protection
• EPIC® H-A 16 hood

Article number Pieces/PU
H-A 16 TG M20
75009631 1

Article numbers for single components
• H-A 16 SS 10530000
• H-A 16 TS M20 19564000

EPIC KIT H-A 16 BS AG

• EPIC® H-A 16 screw termination female insert
• With wire protection
• EPIC® H-A 16 panel-mount base

Article number Pieces/PU
H-A 16 TS M20
75009632 1

Article numbers for single components
• H-A 16 BS 10531000
• H-A 16 AG-LB 10462000

EPIC KIT H-A 16 BS SGR-LB M20

• EPIC® H-A 16 screw termination female insert
• With wire protection
• EPIC® H-A 16 surface-mount base

Article number Pieces/PU
H-A 16 AG-LB
75009633 1

Article numbers for single components
• H-A 16 BS 10531000
• H-A 16 SGR-LB M20 19567100

EPIC KIT H-A 16 BS TBF-LB M20

• EPIC® H-A 16 screw termination female insert
• With wire protection
• EPIC® H-A 16 cable coupler hood

Article number Pieces/PU
H-A 16 SGR-LB M20
75009634 1

Article numbers for single components
• H-A 16 BS 10531000
• H-A 16 TBF-LB M20 19563000

For current information see: www.lappgroup.com
### EPIC® H-BE 6 Kits

**Benefits**
- Pre-packed kits with compatible components
- Uncomplicated ordering
- No misplaced orders

**Technical data**
- **Rated voltage (V)**
  - IEC: 500 V
  - UL: 600 V
  - CSA: 600 V
- **Rated current (A)**
  - IEC: 16 A
  - UL: 16 A
  - CSA: 16 A
- **Number of contacts**
  - 6 + PE

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**Article numbers for single components**
- EPIC® H-BE 6 SS 10190000
- H-B 6 TG M20 19011000

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**Article numbers for single components**
- EPIC® H-BE 6 SS 10190000
- H-B 6 TS M20 19012000

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**Article numbers for single components**
- EPIC® H-BE 6 BS 10191000
- H-B 6 AG-LB 10003000

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**Article numbers for single components**
- EPIC® H-BE 6 BS 10191000
- H-B 6 SGR M20 19005000

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**Article numbers for single components**
- EPIC® H-BE 6 BS 10191000
- H-B 6 TBF M20 19014000

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**EPIC® KIT H-BE 6 SS TG M20**
- EPIC® H-BE 6 screw-termination male insert
- With wire protection
- EPIC® H-B 6 hood

**EPIC® KIT H-BE 6 SS TS M20**
- EPIC® H-BE 6 screw-termination male insert
- With wire protection
- EPIC® H-B 6 hood

**EPIC® KIT H-BE 6 BS AG-LB**
- EPIC® H-BE 6 screw-termination female insert
- With wire protection
- EPIC® H-B 6 panel-mount base

**EPIC® KIT H-BE 6 BS SGR-LB M20**
- EPIC® H-BE 6 screw-termination female insert
- With wire protection
- EPIC® H-B 6 surface-mount base

**EPIC® KIT H-BE 6 BS TBF-LB M20**
- EPIC® H-BE 6 screw-termination female insert
- With wire protection
- EPIC® H-B 6 cable coupler hood
EPIC® Industrial connectors
Rectangular connectors • EPIC® Rectangular Kits

**Benefits**
- Pre-packed kits with compatible components
- Uncomplicated ordering
- No misplaced orders

**Technical data**

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**Info**
- Complete connectors – easy to order starting from 1 piece
  
  + = Complete connection

### EPIC® KIT H-BE 10 SS TG M25
- EPIC® H-BE 10 screw-termination male insert
- With wire protection
- EPIC® H-B 10 hood

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**Article numbers for single components**
- EPIC® H-BE 10 SS 10192000
- H-B 10 TG M25 19040100

### EPIC® KIT H-BE 10 SS TS M25
- EPIC® H-BE 10 screw-termination male insert
- With wire protection
- EPIC® H-B 10 hood

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**Article numbers for single components**
- EPIC® H-BE 10 SS 10192000
- H-B 10 TS M25 19042100

### EPIC® KIT H-BE 10 BS AG
- EPIC® H-BE 10 screw-termination female insert
- With wire protection
- EPIC® H-B 10 panel-mount base

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**Article numbers for single components**
- EPIC® H-BE 10 BS 10193000
- H-B 10 AG 10032000

### EPIC® KIT H-BE 10 BS SGR M25
- EPIC® H-BE 10 screw-termination female insert
- With wire protection
- EPIC® H-B 10 surface-mount base

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**Article numbers for single components**
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- H-B 10 SGR M25 19034100

### EPIC® KIT H-BE 10 BS TBF M25
- EPIC® H-BE 10 screw-termination female insert
- With wire protection
- EPIC® H-B 10 cable coupler hood

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**Article numbers for single components**
- EPIC® H-BE 10 BS 10193000
- H-B 10 TBF M25 79040200

For current information see: www.lappgroup.com
EPIC® Industrial connectors

Rectangular connectors • EPIC® Rectangular Kits

EPIC® H-BE 16 Kits

Benefits
- Pre-packed kits with compatible components
- Uncomplicated ordering
- No misplaced orders

Technical data
- **Rated voltage (V)**
  - IEC: 500 V
  - UL: 600 V
  - CSA: 600 V
- **Rated current (A)**
  - IEC: 16 A
  - UL: 16 A
  - CSA: 16 A
- **Number of contacts**
  - 16 + PE

Info
- Complete connectors - easy to order starting from 1 piece

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**Article numbers for single components**
- EPIC® H-BE 16 SS 10194000
- H-B 16 TG M25 19080000

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<th>Pieces/PU</th>
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**Article numbers for single components**
- EPIC® H-BE 16 SS 10194000
- H-B 16 TS M25 19082000

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**Article numbers for single components**
- EPIC® H-BE 16 SS 10195000
- H-B 16 AG 10072000

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**Article numbers for single components**
- EPIC® H-BE 16 BS 10195000
- H-B 16 SGR M25 19074000

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**Article numbers for single components**
- EPIC® H-BE 16 BS 10195000
- H-B 16 TBF M25 19086000

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<td>H-B 16 TBF M25</td>
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</table>

**Article numbers for single components**
- EPIC® H-BE 16 BS 10195000
- H-B 16 surface mount hood

<table>
<thead>
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<th>Pieces/PU</th>
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<tr>
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**Article numbers for single components**
- EPIC® H-BE 16 BS 10195000
- H-B 16 TBF M25 19086000

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</table>

**Article numbers for single components**
- EPIC® H-BE 16 BS 10195000
- H-B 16 TBF M25 19086000

For current information see: www.lappgroup.com
Benefits
• Pre-packed kits with compatible components
• Uncomplicated ordering
• No misplaced orders

Technical data

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage (V)</td>
<td>IEC: 500 V UL: 600 V CSA: 600 V</td>
</tr>
<tr>
<td>Rated current (A)</td>
<td>IEC: 16 A UL: 16 A CSA: 16 A</td>
</tr>
<tr>
<td>Number of contacts</td>
<td>24 + PE</td>
</tr>
</tbody>
</table>

Info
• Complete connectors – easy to order starting from 1 piece

EPIC® H-BE 24 Kits

EPIC® KIT H-BE 24 SS TG M25

• EPIC® H-BE 24 screw-termination male insert
• With wire protection
• EPIC® H-B 24 hood

<table>
<thead>
<tr>
<th>Article number</th>
<th>Pieces/PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPIC® H-B 24 Kits</td>
<td>75009650 1</td>
</tr>
</tbody>
</table>

Article numbers for single components
• EPIC® H-BE 24 SS 10196000
• H-B 24 TG M25 19121000

EPIC® KIT H-BE 24 SS TS M25

• EPIC® H-BE 24 screw-termination male insert
• With wire protection
• EPIC® H-B 24 hood

<table>
<thead>
<tr>
<th>Article number</th>
<th>Pieces/PU</th>
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</thead>
<tbody>
<tr>
<td>H-B 24 TG M25</td>
<td>75009651 1</td>
</tr>
</tbody>
</table>

Article numbers for single components
• EPIC® H-BE 24 SS 10196000
• H-B 24 TS M25 19113000

EPIC® KIT H-BE 24 BS AG

• EPIC® H-BE 24 screw-termination female insert
• With wire protection
• EPIC® H-B 24 panel-mount base

<table>
<thead>
<tr>
<th>Article number</th>
<th>Pieces/PU</th>
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<tbody>
<tr>
<td>H-B 24 TS M25</td>
<td>75009652 1</td>
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</table>

Article numbers for single components
• EPIC® H-BE 24 BS 10197000
• H-B 24 AG 10102000

EPIC® KIT H-BE 24 BS SGR M25

• EPIC® H-BE 24 screw-termination female insert
• With wire protection
• EPIC® H-B 24 surface-mount base

<table>
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<th>Article number</th>
<th>Pieces/PU</th>
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<tbody>
<tr>
<td>H-B 24 AG</td>
<td>75009653 1</td>
</tr>
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</table>

Article numbers for single components
• EPIC® H-BE 24 BS 10197000
• H-B 24 SGR M25 19104000

EPIC® KIT H-BE 24 BS TBF M25

• EPIC® H-BE 24 screw-termination female insert
• With wire protection
• EPIC® H-B 24 cable coupler hood

<table>
<thead>
<tr>
<th>Article number</th>
<th>Pieces/PU</th>
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<tbody>
<tr>
<td>H-B 24 SGR M25</td>
<td>75009654 1</td>
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</table>

Article numbers for single components
• EPIC® H-BE 24 BS 10197000
• H-B 24 TBF M25 19127000

For current information see: www.lappgroup.com
EPIC® Industrial connectors
Circular connectors • EPIC® SIGNAL M23 Kits

EPIC® SIGNAL M23 Kits 12pole

Benefits
- Uncomplicated ordering
- No misplaced orders
- Pre-packed kits with compatible components

Technical data
- Rated voltage (V)
  100 V (1 mm contacts)
- Rated current (A)
  7 A (1 mm contacts)
- Number of contacts
  12

Info
- Complete connectors - easy to order starting from 1 piece

Article number | Pieces/PU
--- | ---
EPIC® SIGNAL M23 Kits 12pole 75009710 | 1

Article numbers for single components
- E-Part 73002722
- M23 D6 44420037

EPIC® KIT M23 D6 12-POL FEMALE
- EPIC® M23 12-pin solder termination female insert
- Max. cross-section 1.0 mm²
- E-Part, rotation to the right, clockwise
- D6 cable connector, clamping range 7.0 – 13.5 mm

Article number | Pieces/PU
--- | ---
M23 A1 75009711 | 1

Article numbers for single components
- P-part 73002714
- M23 A1 72004000

EPIC® KIT M23 A1 12-POL MALE
- EPIC® M23 12-pin solder-termination male insert
- Max. cross-section 1.0 mm²
- P-part, rotation to the left, anticlockwise
- A1 panel-mount box, front wall mounting

Article number | Pieces/PU
--- | ---
M23 A3 75009712 | 1

Article numbers for single components
- P-part 73002714
- M23 A3 24420055

EPIC® KIT M23 A3 12-POL MALE
- EPIC® M23 12-pin solder-termination male insert
- Max. cross-section 1.0 mm²
- P-part, rotation to the left, anticlockwise
- A3 panel-mount box, angled and rotatable, front wall mounting

Article number | Pieces/PU
--- | ---
M23 F6 75009713 | 1

Article numbers for single components
- P-part 73002714
- M23 F6 44420040

EPIC® KIT M23 F6 12-POL MALE
- EPIC® M23 12-pin solder-termination male insert
- Max. cross-section 1.0 mm²
- P-part, rotation to the left, anticlockwise
- F6 cable coupler, clamping range 7.0 – 13.5 mm

For current information see: www.lappgroup.com
EPIC® SIGNAL M23 Kits 12pole

Benefits
- Uncomplicated ordering
- No misplaced orders
- Pre-packed kits with compatible components

Technical data

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage (V)</td>
<td>100 V (1 mm contacts)</td>
</tr>
<tr>
<td>Rated current (A)</td>
<td>7 A (1 mm contacts)</td>
</tr>
<tr>
<td>Number of contacts</td>
<td>12</td>
</tr>
</tbody>
</table>

Info
- Complete connectors – easy to order starting from 1 piece

Article numbers for single components

EPIC® KIT M23 D6 12-POL FEMALE

- EPIC® M23 12-pin solder-termination female insert
- Max. cross-section 1.0 mm²
- P-part, rotation to the left, anticlockwise
- D6 cable connector, clamping range 7.0 – 13.5 mm

Article number     Pieces/PU
M23 D6             75009702 1

EPIC® KIT M23 A1 12-POL MALE

- EPIC® M23 12-pin solder-termination male insert
- Max. cross-section 1.0 mm²
- E-Part, rotation to the right, clockwise
- A1 panel-mount box, front wall mounting

Article number     Pieces/PU
M23 A1             75009703 1

EPIC® KIT M23 A3 12-POL MALE

- EPIC® M23 12-pin solder-termination male insert
- Max. cross-section 1.0 mm²
- E-Part, rotation to the right, clockwise
- A3 panel-mount box, angled and rotatable, front wall mounting

Article number     Pieces/PU
M23 A3             75009704 1

EPIC® KIT M23 F6 12-POL MALE

- EPIC® M23 12-pin solder-termination male insert
- Max. cross-section 1.0 mm²
- E-Part, rotation to the right, clockwise
- F6 cable coupler, clamping range 7.0 – 13.5 mm

Article number     Pieces/PU
M23 F6             75009705 1

For current information see: www.lappgroup.com
EPIC® SIGNAL M23 Kits 17pole

Benefits
• Uncomplicated ordering
• No misplaced orders
• Pre-packed kits with compatible components

Technical data

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated voltage (V)</strong></td>
<td>50 V (1 mm contacts)</td>
</tr>
<tr>
<td><strong>Rated current (A)</strong></td>
<td>7 A (1 mm contacts)</td>
</tr>
<tr>
<td><strong>Number of contacts</strong></td>
<td>17</td>
</tr>
</tbody>
</table>

Info
• Complete connectors - easy to order starting from 1 piece

EPIC KIT M23 D6 17-POL FEMALE

• EPIC® M23 17-pin solder termination female insert
• Max. cross-section 1.0 mm²
• P-part, rotation to the left, anticlockwise
• D6 cable connector, clamping range 7.0 – 13.5 mm

EPIC KIT M23 A1 17-POL MALE

• EPIC® M23 17-pin solder-termination male insert
• Max. cross-section 1.0 mm²
• E-Part, rotation to the right, clockwise
• A1 panel-mount box, front wall mounting

EPIC KIT M23 A3 17-POL MALE

• EPIC® M23 17-pin solder-termination male insert
• Max. cross-section 1.0 mm²
• E-Part, rotation to the right, clockwise
• A3 panel-mount box, angled and rotatable, front wall mounting

EPIC KIT M23 F6 17-POL MALE

• EPIC® M23 17-pin solder-termination male insert
• Max. cross-section 1.0 mm²
• E-Part, rotation to the right, clockwise
• F6 cable coupler, clamping range 7.0 – 13.5 mm

Article numbers for single components

<table>
<thead>
<tr>
<th>Article number</th>
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<td>1</td>
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</table>

For current information see: www.lappgroup.com
EPIC® Industrial connectors
Circular connectors • EPIC® POWER LS1 Kits

Benefits
• Pre-packed kits with compatible components
• Uncomplicated ordering
• No misplaced orders

Technical data

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tr>
<td>![flash icon]</td>
<td>Rated voltage (V)</td>
</tr>
<tr>
<td>![amp icon]</td>
<td>Rated current (A)</td>
</tr>
<tr>
<td>![contacts icon]</td>
<td>Number of contacts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![flash icon]</td>
<td>630 V (2 mm contacts)</td>
</tr>
<tr>
<td>![amp icon]</td>
<td>26 A/3 + PE + 4, 25 A/5 + PE (2 mm contacts)</td>
</tr>
<tr>
<td>![contacts icon]</td>
<td>5 + PE</td>
</tr>
</tbody>
</table>

Info
• Complete connectors – easy to order starting from 1 piece

EPIC KIT LS1 D6 6-POL FEMALE

- Pin configuration 5+PE, for female contacts 2 mm Ø
- Machined crimp contacts 0.5 – 2.5 mm² are included
- D6 cable connector, clamping range 7.5 – 15.5 mm

Article number | Pieces/PU
---|---
EPIC® LS1 Kits 6pole | 75009690 | 1

Article numbers for single components
• LS1 D6 76123000

EPIC KIT LS1 A1 6-POL MALE

- Pin configuration 5+PE, for male contacts 2 mm Ø
- Machined crimp contacts 0.5 – 2.5 mm² are included
- A1 panel-mount box, front wall mounting

Article number | Pieces/PU
---|---
LS1 D6 | 75009691 | 1

Article numbers for single components
• LS1 A1 76003000

EPIC KIT LS1 A3 6-POL MALE

- Pin configuration 5+PE, for male contacts 2 mm Ø
- Machined crimp contacts 0.5 – 2.5 mm² are included
- A3 panel-mount box, angled and rotatable, front wall mounting

Article number | Pieces/PU
---|---
LS1 A1 | 75009692 | 1

Article numbers for single components
• LS1 A3 24420058

EPIC KIT LS1 F6 6-POL MALE

- Pin configuration 5+PE, for male contacts 2 mm Ø
- Machined crimp contacts 0.5 – 2.5 mm² are included
- F6 cable coupler, clamping range 7.5 – 15.5 mm

Article number | Pieces/PU
---|---
LS1 A3 | 75009693 | 1

Article numbers for single components
• LS1 F6 76133000

For current information see: www.lappgroup.com
EPIC® Industrial connectors

Circular connectors • EPIC® POWER LS1 Kits

EPIC® LS1 Kits 8pole

Benefits
• Uncomplicated ordering
• No misplaced orders
• Pre-packed kits with compatible components

Technical data

- Rated voltage (V)
  - 630 V (2 mm contacts)
  - 290 V (1 mm contacts)
- Rated current (A)
  - 26 A/3 + PE + 4, 25 A/5 + PE (2 mm contacts)
  - 7 A (1 mm contacts)
- Number of contacts
  - 3 + PE + 4

Info

- Complete connectors – easy to order starting from 1 piece

EPIC KIT LS1 D6 8-POL FEMALE

- Pin configuration 3 + PE + 4,
  - for female contacts 2 mm ∅ + 1 mm ∅
- Machined crimp contacts 0.5 – 2.5 mm² and 0.14 – 1.0 mm² are included
- D6 cable connector, clamping range 7.5 – 15.5 mm

EPIC KIT LS1 A1 8-POL MALE

- Pin configuration 3 + PE + 4,
  - for male contacts 2 mm ∅ + 1 mm ∅
- Machined crimp contacts 0.5 – 2.5 mm² and 0.14 – 1.0 mm² are included
- A1 panel-mount box, front wall mounting

EPIC KIT LS1 A3 8-POL MALE

- Pin configuration 3 + PE + 4,
  - for male contacts 2 mm ∅ + 1 mm ∅
- Machined crimp contacts 0.5 – 2.5 mm² and 0.14 – 1.0 mm² are included
- A3 panel-mount box, angled and rotatable, front wall mounting

EPIC KIT LS1 F6 8-POL MALE

- Pin configuration 3 + PE + 4,
  - for male contacts 2 mm ∅ + 1 mm ∅
- Machined crimp contacts 0.5 – 2.5 mm² and 0.14 – 1.0 mm² are included
- F6 cable coupler, clamping range 7.5 – 15.5 mm

Article number | Pieces/PU | Article numbers for single components
--- | --- | ---
EPIC® LS1 Kits 8pole |  | • LS1 D6 76124000

Article number | Pieces/PU | Article numbers for single components
--- | --- | ---
LS1 D6 | 1 | • LS1 D6 76124000

Article number | Pieces/PU | Article numbers for single components
--- | --- | ---
LS1 A1 | 1 | • LS1 A1 76004000

Article number | Pieces/PU | Article numbers for single components
--- | --- | ---
LS1 A3 | 1 | • LS1 A3 24420056

Article number | Pieces/PU | Article numbers for single components
--- | --- | ---
LS1 F6 | 1 | • LS1 F6 76134000
EPIC® SOLAR 4 M

- 4 mm connector system with double hook
- Field-mountable solar connector

EPIC® SOLAR 4 F

- 4 mm connector system with double hook
- Field-mountable solar connector

Benefits
- Low contact-resistance for efficient power transmission
- Crimp connection for field mounting
- Suitable for various ÖLFLEX® SOLAR cables

Application range
- Photovoltaic plants
- Crystalline and thin-film constructions
- Solartracker

Product features
- 4 mm connector system with double hook
- TÜV Rheinland certified
- Inclusive contacts

Suitable cables
- ÖLFLEX® SOLAR XLR-R
- ÖLFLEX® SOLAR XLR WP
- ÖLFLEX® SOLAR XLS-R
- ÖLFLEX® SOLAR XLR 1,5kV
- ÖLFLEX® SOLAR XLR 1,5kV WP
- ÖLFLEX® SOLAR XLc

Suitable tools
- EPIC® SOLAR TOOL
- For easier assembly of the plastic parts, use EPIC® SOLAR 4 Assembly Tool Set (2 pieces). Holder for insulation body, spanner for cap nut and pins for unlocking

Suitable connectors
EPIC® SOLAR 4 F
- EPIC® SOLAR 4 THIN
- EPIC® SOLAR 4 M
- EPIC® SOLAR 4Plus F

Technical data
- ETIM 5.0 Class-ID: EC002641
- ETIM 5.0 Class-Description: Modular connector (industrial connector)
- Rated voltage (V)
  - 1000 V AC/DC
- Rated impulse voltage
  - 8 kV
- Degree of soiling
  - 3
- Contact resistance
  - < 0.5 mOhm
- Protection rating
  - IP 67
- Protection class
  - II
- Temperature range
  - -40°C ... +105°C

<table>
<thead>
<tr>
<th>Article number</th>
<th>Article designation</th>
<th>Cross-section (mm²)</th>
<th>Clamping range in mm</th>
<th>Rated current (A)</th>
<th>PU</th>
</tr>
</thead>
<tbody>
<tr>
<td>M44282000</td>
<td>EPIC® SOLAR 4 M 2.5 mm²</td>
<td>2.5</td>
<td>4.8 – 6.0</td>
<td>22</td>
<td>1</td>
</tr>
<tr>
<td>M4428201</td>
<td>EPIC® SOLAR 4 M 4 mm²</td>
<td>4 – 6</td>
<td>5.2 – 7.1</td>
<td>30</td>
<td>1</td>
</tr>
<tr>
<td>M4428203</td>
<td>EPIC® SOLAR 4 F 2.5 mm²</td>
<td>2.5</td>
<td>5.2 – 6.5</td>
<td>22</td>
<td>1</td>
</tr>
<tr>
<td>M4428204</td>
<td>EPIC® SOLAR 4 F 4 mm²</td>
<td>4 – 6</td>
<td>6.0 – 7.2</td>
<td>30</td>
<td>1</td>
</tr>
<tr>
<td>M44428224</td>
<td>EPIC® SOLAR 4 Assembly Tool Set</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

For current information see: www.lappgroup.com
Please pay attention on the EPIC® Selection table A10, this table is a great guide in helping you to find the right insert and suitable housings. It is particularly convenient using the connector finder in the internet (www.lappgroup.com/connectorfinder) and the connector housing configurator for customized solutions (www.lappgroup.com/connector-housing). You will also find configured connector kits in our webcatalogue.

High variety of applications with EPIC® rectangular connectors:
- Number of pins from 1 up to 216
- Currents up to 220A
- Voltage up to 1.000V
- Modular system with inserts for power supply, signal and data transmission, fiber optics, coax connection and compressed air
- Termination technologies: Screw, crimp, cage clamp, solder, Push-In
- Housings for cable connection and for the assembly on devices
- Degree of protection (depends on the type of housing and the cable gland. Therefore we recommend to use a brass gland with integrated sealing ring for example SKINTOP® MS-M.)
- EMC protection (For applications with EMC requirements, we recommend the EPIC® ULTRA in combination with the SKINTOP® BRUSH.)

TIP: Only use tools recommended and approved by LAPP. This ensures the safe and long-term operation of the connector. An assurance of the technical characteristics, as well as the validity of the certificates can only be given if all components are used exclusively by LAPP.

WARNING: EPIC® industrial connectors may not be connected or disconnected under load.

### Table 31-2: EPIC® housings and inserts

#### Hood (fig. 1):
It may have a top or angle (side) entry of different PG sizes to accommodate a wide range of cable diameters. The hood can be mated with either a surface or panel mounting base, or a cable coupler hood (for cable to cable connection).

#### Panel mount base (fig. 2):
It is wired from below though a hole cut in a panel. The panel base is attached to the surface of a control panel for connection of control or power cables.

#### Surface mount base (fig. 3):
The surface base is a complete enclosure only offering cable entry through a cable gland mounted either on one or both sides of the base.

#### Cable Coupler (fig. 4):
The cable connector hood mates with a top entry hood to offer cable to cable connection. This is frequently used to extend cables.

### Table 31-1: EPIC® rectangular connectors

<table>
<thead>
<tr>
<th>1. Cable Gland:</th>
<th>The Cable Gland provides a seal between the cable and the connector housing. It may also be used to offer additional functions like strain relief and braid continuity for EMC protection.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Upper housing:</td>
<td>Hood</td>
</tr>
<tr>
<td>3. Male insert:</td>
<td>Types of contact termination</td>
</tr>
<tr>
<td></td>
<td>• Screw</td>
</tr>
<tr>
<td></td>
<td>• Crimp*</td>
</tr>
<tr>
<td></td>
<td>• Cage clamp</td>
</tr>
<tr>
<td></td>
<td>• Push-In</td>
</tr>
<tr>
<td>4. Female insert:</td>
<td>Types of contact termination</td>
</tr>
<tr>
<td></td>
<td>• Screw</td>
</tr>
<tr>
<td></td>
<td>• Crimp*</td>
</tr>
<tr>
<td></td>
<td>• Cage clamp</td>
</tr>
<tr>
<td></td>
<td>• Push-In</td>
</tr>
<tr>
<td>5. Lower housing:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Panel mounting (cable entry though cut out in panel)</td>
</tr>
<tr>
<td></td>
<td>• Surface mounting (cable entry through a gland into the side of the connector base)</td>
</tr>
<tr>
<td></td>
<td>• Cable Connector Hood, cable to cable connection</td>
</tr>
</tbody>
</table>

* contacts must be ordered separately

Please pay attention on the EPIC® Selection table A10, this table is a great guide in helping you to find the right insert and suitable housings. It is particularly convenient using the connector finder in the internet (www.lappgroup.com/connectorfinder) and the connector housing configurator for customized solutions (www.lappgroup.com/connector-housing). You will also find configured connector kits in our webcatalogue.

High variety of applications with EPIC® rectangular connectors:
- Number of pins from 1 up to 216
- Currents up to 220A
- Voltage up to 1.000V
- Modular system with inserts for power supply, signal and data transmission, fiber optics, coax connection and compressed air
- Termination technologies: Screw, crimp, cage clamp, solder, Push-In
- Housings for cable connection and for the assembly on devices
- Degree of protection (depends on the type of housing and the cable gland. Therefore we recommend to use a brass gland with integrated sealing ring for example SKINTOP® MS-M.)
- EMC protection (For applications with EMC requirements, we recommend the EPIC® ULTRA in combination with the SKINTOP® BRUSH.)

TIP: Only use tools recommended and approved by LAPP. This ensures the safe and long-term operation of the connector. An assurance of the technical characteristics, as well as the validity of the certificates can only be given if all components are used exclusively by LAPP.

WARNING: EPIC® industrial connectors may not be connected or disconnected under load.

### Table 31-2: EPIC® housings and inserts

#### Hood (fig. 1):
It may have a top or angle (side) entry of different PG sizes to accommodate a wide range of cable diameters. The hood can be mated with either a surface or panel mounting base, or a cable coupler hood (for cable to cable connection).

#### Panel mount base (fig. 2):
It is wired from below though a hole cut in a panel. The panel base is attached to the surface of a control panel for connection of control or power cables.

#### Surface mount base (fig. 3):
The surface base is a complete enclosure only offering cable entry through a cable gland mounted either on one or both sides of the base.

#### Cable Coupler (fig. 4):
The cable connector hood mates with a top entry hood to offer cable to cable connection. This is frequently used to extend cables.

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<table>
<thead>
<tr>
<th>Panel cut out for panel mount base (mm)</th>
<th>Panel mount base</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-A 3</td>
<td>30</td>
<td>21</td>
<td>21</td>
<td>3.3</td>
<td></td>
<td></td>
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<tr>
<td>H-A 10</td>
<td>70</td>
<td>57.5</td>
<td>24</td>
<td>3.6</td>
<td></td>
<td></td>
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<tr>
<td>H-A 16</td>
<td>86</td>
<td>73.7</td>
<td>24</td>
<td>3.6</td>
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<td>H-A 32</td>
<td>92</td>
<td>74.2</td>
<td>48.4</td>
<td>4.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H-A 48</td>
<td>110</td>
<td>85.5</td>
<td>71</td>
<td>5.5</td>
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<td></td>
</tr>
<tr>
<td>H-B 6</td>
<td>70</td>
<td>52.2</td>
<td>35</td>
<td>4.3</td>
<td></td>
<td></td>
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<tr>
<td>H-B 10</td>
<td>83</td>
<td>65.2</td>
<td>35</td>
<td>4.3</td>
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<tr>
<td>H-B 16</td>
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<td>H-B 48</td>
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### Screw connection technology (as DIN EN 60999)

<table>
<thead>
<tr>
<th>Screw thread</th>
<th>M3</th>
<th>M4</th>
<th>M5</th>
<th>M6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting torque Nm</td>
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<td>1.2</td>
<td>2.0</td>
<td>2.5</td>
</tr>
<tr>
<td>Clamping screw: H-A, H-BE, H-BVE</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clamping screw: H-BS</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grounding screw: H-A, H-BE, H-BVE</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grounding screw: H-BS</td>
<td>●</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clamping screw: Module High-Current</td>
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<td></td>
</tr>
<tr>
<td>Fixing screw: Inserts and Module frames</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

All EPIC® connectors refer to IEC 61984.
The following applies for the use of our products

The conformity of our products to the relevant European directives and compliance with the provisions contained therein shall be indicated by the CE marking.

The safety of our products is closely associated with how they are used. A knowledge of and adherence to the respective international/national standards of use (e.g. DIN VDE 0100; 0298) are mandatory. There are particular risks if installed improperly. This applies to all our products/items: Processing is only to be done by an authorised electrician! Otherwise, there is the risk of an electric shock or a fire ignited by electric current!

Safety

Without exception, our products are tested for application safety in accordance with defined standards and our own regulations, which complement the standards. Relevant legal requirements and safety regulations are also observed. Provided due care and attention is paid, the possibility of product-specific danger to the user may thus reasonably be excluded. Where products are used carelessly or incorrectly, however, considerable danger to persons and the environment may arise. For this reason, our cables must only be processed and/or used responsibly by trained electricians or specialists. This catalogue contains general information for the application of each product. Independent of such information, the application standards DIN VDE 0298 and DIN VDE 0891 for cables will apply. Excerpts from these standards, as well as complementary selection and application tables, design and installation guidelines, are contained in the tables in the appendix to this catalogue. Our machines and installation tools are -- where necessary -- designed in accordance with the machine guidelines and display the CE identification mark. It must be noted, however, that our machines and installation tools must only be used by trained specialist personnel and for the purpose for which they were designed.

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