PHOENIX CONTACT E-Mobility

Type code for e-mobility products
Charging cables and sockets
## Charging cables

### Type code for e-mobility products

#### Charging mode
- **EV - T2 M4 CC - DC 125A - 5,0M 50 E S BK 0 0 P**

#### Electric vehicle (EV)
- Electric vehicle

#### Charging standard
- **Type 1**
- **Type 2**
- **GB/T**
- **Type 1 & Type 2**
- **Type 2 & GB/T**
- **GB/T & Type 2**
- **Type 1 & GB/T**

#### Heads of the cable
- **Plug**
- **Connector**
- **Key connector**
- **Key plug**
- **Plug & connector PC**
- **Plug & key connector PK**
- **Key plug & Key connector JK**
- **CCS connector CC**

#### Type of current
- **AC 1-phase**
- **AC 2-phase**
- **DC**

#### Charging mode (new design)
- **Mode 3**
- **Mode 4**
- **Level 2**
- **HPC (High Power Charging)**

#### Cross section
- **2,5 mm²**
- **6,0 mm²**
- **16 mm²**
- **25 mm²**
- **35 mm²**
- **50 mm²**
- **70 mm²**
- **14 AWG**
- **12 AWG**
- **10 AWG**
- **8 AWG**
- **6 AWG**
- **4 AWG**
- **1 AWG**

#### Performance
- **Power**
  - **16 Ampere**
  - **20 Ampere**
  - **32 Ampere**
  - **40 Ampere**
  - **50 Ampere**
  - **60 Ampere**
  - **80 Ampere**
  - **100 Ampere**
  - **125 Ampere**
  - **150 Ampere**
  - **180 Ampere**
  - **200 Ampere**
  - **250 Ampere**
  - **400 Ampere**
  - **500 Ampere**

#### Charging mode (handlebar design)
- **Mode 3 PL**
- **Mode 4 SM**
- **Level 2 LS**

#### Cable color
- **Black BK**
- **Orange OG**
- **Red RD**
- **Yellow YE**
- **Blue BU**

#### Optional Specific
- **AC connector with temperature sensor**
- **Unprotected (without dust cap)**
- **With parking position**
- **With straight HPC panel feed-through**
- **With left inclined HPC panel feed-through**
- **With right inclined HPC panel feed-through**

#### Measurement unit for cable
- **AWG (America)**
- **Metric (Europe)**
- **Metric (Japan), conform to PSE**
- **Metric (China), conform to CQC**

#### Cable style
- **Helix H**
- **Straight S**
- **Cooled C**

#### Cable length
- **4,0 Meter**
- **4,5 Meter**
- **5,0 Meter**
- **10,0 Meter**
- **18,0 feet**
- **25,0 feet**

#### Wire
- **Ergonomics**
- **Capacitance**
- **Impedance**
- **Insulation resistivity**
- **VDE (Germany)**
- **EN (Europe)**
- **ISO (International)**
- **IEC (International)**
- **NEMA (USA)**

#### Specific
- **2nd part component color & label**
  - **Grey + label area**
  - **Black + label area**
  - **Grey + without label area**
  - **Black + without label area**

#### Making face color
- **Grey 0**
- **Black 1**

---

1) DC connectors always contain temperature sensors.
2) Standard articles of CCS 2 connectors in handlebar design are with black mating face.
## Infrastructure charging sockets

### Type code for e-mobility products

#### EV - T2 M3 SE12 - 3AC 32A - 0,7M 6,0 E 1 0 T

<table>
<thead>
<tr>
<th>Product</th>
<th>Performance</th>
<th>Wire</th>
<th>Specific</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric vehicle</td>
<td>Type of product</td>
<td>Charging standard</td>
<td>Charging mode</td>
</tr>
<tr>
<td>Socket outlet without e-lock</td>
<td>S</td>
<td>Type 2</td>
<td>T2</td>
</tr>
<tr>
<td>Socket outlet with 4 pole 12 V e-lock</td>
<td>SE12</td>
<td>GB/T</td>
<td>GB</td>
</tr>
<tr>
<td>Socket outlet with 4 pole 24 V e-lock</td>
<td>SE24</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Socket outlet with 3 pole 12 V e-lock</td>
<td>SL12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of current</th>
<th>Performance</th>
<th>Cable length</th>
<th>Cross section</th>
<th>Measurement unit for cable</th>
<th>Cross section</th>
<th>Measurement unit for cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC 1-phase</td>
<td>20 Ampere</td>
<td>0,3 Meter</td>
<td>2,5 mm²</td>
<td>E</td>
<td>2,5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC 3-phase</td>
<td>32 Ampere</td>
<td>0,5 Meter</td>
<td>6,0 mm²</td>
<td></td>
<td>6,0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>32A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0,7 Meter</td>
<td>0,75</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,0 Meter</td>
<td>1,0M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1,5 Meter</td>
<td>1,5M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,0 Meter</td>
<td>2,0M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2,5 Meter</td>
<td>2,5M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,5 Meter</td>
<td>3,5M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5,5 Meter</td>
<td>5,5M</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>X Meter</td>
<td>X XM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>No-cable</td>
<td>N</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cross section</th>
<th>Specific</th>
<th>Optional Specific</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric (Europe)</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>With temperature sensor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No specific</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rear cover mounting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rear splash-water protected</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Front cover mounting (easy mount)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rear cover mounting &amp; optimized insertion and withdrawal forces (easy mount)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rear cover mounting &amp; optimized insertion and withdrawal forces</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Actuator mounted</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not mounted</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0° mounted (top)</td>
</tr>
</tbody>
</table>

---

Standard articles are including drain hole
### Vehicle charging inlets

<table>
<thead>
<tr>
<th>Product</th>
<th>Performance</th>
<th>Wire</th>
<th>Specific</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EV - T2 GB IE12 - 1ACDC 20A 125A - 2,0M1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Type code for e-mobility products

<table>
<thead>
<tr>
<th>Electric vehicle</th>
<th>EV</th>
<th>Charging standard</th>
<th>Type code</th>
<th>Type of current</th>
<th>Type of vehicle inlet</th>
<th>Vehicle inlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode 1</td>
<td>T1</td>
<td>Type 1</td>
<td>T1</td>
<td>AC 1-phase</td>
<td>AC 1-phase + DC</td>
<td>I</td>
</tr>
<tr>
<td>Mode 2</td>
<td>T2</td>
<td>Type 2</td>
<td>T2</td>
<td>AC 3-phase</td>
<td>AC 3-phase + DC</td>
<td>IE12</td>
</tr>
<tr>
<td><strong>GB/T GB</strong></td>
<td></td>
<td></td>
<td></td>
<td>DC</td>
<td>DC</td>
<td>IE24</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Performance AC</th>
<th>Performance DC</th>
<th>Cable length</th>
<th>Actuator mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 A</td>
<td>20 A</td>
<td>2.0 M</td>
<td>Not mounted</td>
</tr>
<tr>
<td>32 A</td>
<td>32 A</td>
<td>3.0 M</td>
<td>0° mounted (top)</td>
</tr>
<tr>
<td>80 A</td>
<td>80 A</td>
<td>5.0 M</td>
<td>90° mounted (right)</td>
</tr>
<tr>
<td>125 A</td>
<td>125 A</td>
<td>2.0 M</td>
<td>270° mounted (left)</td>
</tr>
</tbody>
</table>

#### Charging modes

- **Charging mode Gen 1**
  - Mode 4
  - All Modes
  - Level 3
- **Charging mode Gen 2**
  - Mode 4
  - All Modes
  - Level 2
## Accessories

### EV - T2 CCS-PARK - E12 - SW - D6,5MM - R

<table>
<thead>
<tr>
<th>Product</th>
<th>Functions</th>
<th>Mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric vehicle EV</td>
<td>Type of accessories</td>
<td>E-lock actuator</td>
</tr>
<tr>
<td>Type 1</td>
<td>AC parking position / holder</td>
<td>With 12 V e-lock E12</td>
</tr>
<tr>
<td>Type 2</td>
<td>DC parking position / holder</td>
<td>With 24 V e-lock E24</td>
</tr>
<tr>
<td>GB/T</td>
<td>CCS parking position / holder</td>
<td>Without</td>
</tr>
<tr>
<td></td>
<td>Socklet outlet mounting frame SC</td>
<td>With integrated switch SW</td>
</tr>
<tr>
<td></td>
<td>Socklet outlet self-closing hinged cover SC-EM</td>
<td>Without</td>
</tr>
<tr>
<td></td>
<td>Socklet outlet self-opening hinged cover SC-EMF</td>
<td>Without</td>
</tr>
<tr>
<td></td>
<td>Mating face for a repair kit CCS-MF</td>
<td>Without</td>
</tr>
<tr>
<td></td>
<td>Separate grip for more easy cable handling GRIP</td>
<td>Without</td>
</tr>
<tr>
<td></td>
<td>Separate fan for cooling down the HPC panel feed through HPC-FAN</td>
<td>Without</td>
</tr>
<tr>
<td></td>
<td>Emergency release tool UNLOCK-TOOL</td>
<td>Without</td>
</tr>
<tr>
<td></td>
<td>Detection of mated vehicle connector</td>
<td>With bit BIT</td>
</tr>
<tr>
<td></td>
<td>Screws for repair kit</td>
<td>With bit and contacts including temperature sensors BIT-CTS</td>
</tr>
<tr>
<td></td>
<td>Content for repair kit</td>
<td>Without</td>
</tr>
<tr>
<td></td>
<td>Mounting whole diameter</td>
<td>D6,5MM</td>
</tr>
<tr>
<td></td>
<td>Mounting whole form</td>
<td>Whole for hexagon head screw (6.5 mm diameter) R</td>
</tr>
<tr>
<td></td>
<td>Standard whole of the article</td>
<td>D3X 7MM</td>
</tr>
</tbody>
</table>

## Type code for e-mobility products

**Accessories**

**Charging standard**

- Type 1: T1
- Type 2: T2
- GB/T: GB

**Detection of mated vehicle connector**

- With integrated switch SW
- Without

**Mounting whole diameter**

- D6,5MM

**Mounting whole form**

- Whole for hexagon head screw (6.5 mm diameter) R
- Standard whole of the article D3X 7MM

### Type 1 T1

**Type of accessories**

- AC parking position / holder
- DC parking position / holder
- CCS parking position / holder

**Mounting whole form**

- Whole for hexagon head screw (6.5 mm diameter) R

### Type 2 T2

**Type of accessories**

- AC parking position / holder
- DC parking position / holder
- CCS parking position / holder

**Mounting whole form**

- Whole for hexagon head screw (6.5 mm diameter) R
Charge controllers
Charge controllers EVCC Basic

**Product**
- Electric vehicle: EV
- Charge control: CC
- Type of current: AC1
- Charging mode: AC 1 charging point: AC1
- Charging case: Case B, CBC
- Interfase: Serial: SER
- Variant: Printed circuit board: PCB
- Packaging unit: 25 pieces: 25X

**Specific**
- Electric vehicle: EV
- Charge control: CC
- Type of current: AC1
- Charging mode: AC 1 charging point: AC1
- Charging case: Case B, CBC
- Interfase: Serial: SER
- Variant: Printed circuit board: PCB
- Packaging unit: 25 pieces: 25X
Type code for e-mobility products

Charge controllers EVCC Advanced

EM - CP - PP - ETH
Charge controllers EVCC Advanced Plus

Type code for e-mobility products

EV - CC - AC1 - M3 - CBC - RCM - ETH - 3G

- Electric vehicle: EV
- Charge control: CC
- Type of current: AC1
- Charging mode: Mode 3, M3
- Charging case: Case B, C, CBC
- Residual current monitoring: RCM
- Communication: Ethernet (ETH), Mobile communication (3G)

Product
Type code for e-mobility products

Charge controllers EVCC Professional

Product

EV - PLCC - AC1 - DC1

- Electronic vehicle: EV
- Programmable logic charge controller: PLCC
- AC charging, numbers: 1 AC charging point AC1
- DC charging, numbers: 1 DC charging point DC1
Residual current monitoring

Type code for e-mobility products

EV - RCM - C1 - AC30 - DC6
Charging management software
Type code for e-mobility products

Charging management software

**EV - CC - S - SUITE - CP10**

<table>
<thead>
<tr>
<th>Product</th>
<th>Specific</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric vehicle</td>
<td>EV</td>
</tr>
<tr>
<td>Charge control</td>
<td>CC</td>
</tr>
<tr>
<td>Software</td>
<td>S</td>
</tr>
<tr>
<td>Software name</td>
<td>Charging Suite SUITE</td>
</tr>
<tr>
<td>Charging points</td>
<td></td>
</tr>
<tr>
<td>10 charging points</td>
<td>CP10</td>
</tr>
<tr>
<td>30 charging points</td>
<td>CP30</td>
</tr>
<tr>
<td>50 charging points</td>
<td>CP50</td>
</tr>
<tr>
<td>Upgrade from 10 to 30 charging points</td>
<td>UPG10-30</td>
</tr>
<tr>
<td>Upgrade from 30 to 50 charging points</td>
<td>UPG30-50</td>
</tr>
</tbody>
</table>
Starter kits
### Type code for e-mobility products

#### Starter kits

<table>
<thead>
<tr>
<th>Product</th>
<th>Functions and Power</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EV - SET - T2AC - BAS - RCM1 - 20A C5MES</strong></td>
<td></td>
</tr>
</tbody>
</table>

- **Product**
  - Electric vehicle: EV
  - Charging standard: Type 2 AC, T2AC

- **Application form**
  - "Basic" for home applications (AC): BAS
  - "Advanced" for semi-public applications (AC): ADV

- **Monitoring**
  - With 1 RCM module: RCM1
  - With 2 RCM modules: RCM2

- **Power**
  - 20 Ampere (20A)
  - 32 Ampere (32A)

- **Type of connection**
  - Socket outlet including 12 V e-lock: SET12
  - Connector with 5 m cable length: C5MES