



**ELECTROCAR**

## ELECTRIC VEHICLE CHARGING CABLE “MOBILE CONNECTOR”

### User manual

#### **1. Purpose**

Mobile cable, further „cable“, needs to charge electric car (further EV) from conventional 230V home network. It fully meets technical requirements of IEC 62196 European MODE2 standard: electric protection, earthing control and charging current setting, which are actualized inside the cable.

#### **2. Technical figures**

Charging mode 2 plug TYPE2

Voltage 230V AC

Maximal current 13 or 16A AC (UK only 13A available)

Meets safety requirements IP44

Length 5 meter

From -30 to +50 (Celsius) temperature to use

#### **3. Control, indication, connectors**

Cable has equipped with SCHUKO 250V single phase 16A standard connector with earthing safety junctions. UK version has 13A network fused plug.

The cable has IEC61196 TYPE2 single-phase male connector to safely connect EV female socket.

Cable communication and safety control unit has 4 indications:

1. „Power“ red indicator „on“ – cable connected to 230V network
2. „Connected“ green indicator „on“ – cable is plugged to electric vehicle
3. „Charging“ blue indicator „on“ – charging process is on the way
4. „Fault“ yellow indicator „on“ – charging process stopped, some faults occurred.

In the table below there are indication combinations all meanings.

#### **4. Electric vehicle charging**

Please check EV charging settings for first. A lot of EV equipped by timer (you can set time, day of the week etc.) – please set timer correctly.

Please connect cable to 230V network – indication „Power“ will become „on“. Then connect cable to EV charging socket – indication „Connected“ becomes „on“. Soon (after cable’s safety and communication unit „will agree“ with EV electronic system) begins EV charging – indication „Charging“ will go „on“.

After charging, CABLE DISCONNECTING GOES VICE VERSA – for first you should disconnect cable from EV socket, then disconnect cable from high voltage network. **Only this way is safe!**

### **5. Safety information**

Such as all outdoor equipment, charging cable can be connected only through RCD protection (sewage relay), which assures high voltage disconnection if difference in current is over 30mA.

Please protect cable communication and safety unit from moisture and direct rain. Do not connect cable by wet hands, equip high voltage socket in dry place (in the garage or in electric box under the roof). The cable should be safely hang up or mounted near high voltage socket, using the communication modules's loop. Thanks to this high voltage socket will be not damaged because of communication module's weight. Also You should constantly check high voltage socket contacts and , if cable socket overheats, immediately stop charging process and change high voltage socket.

**Remember – 230V voltage is dangerous!**

**You are risking life, if You do not meet the safety requirements.**

Don't let Your children or person , which didn't read this instruction, to use charging cable.

### **6. It is FORBIDDEN:**

**To use damaged cable or cable with irregular insulation**

**To charge broken car**

**To use broken or damaged high voltage socket, or socket with no earthing**

**To connect cable in broken electric network or to use the extender**

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