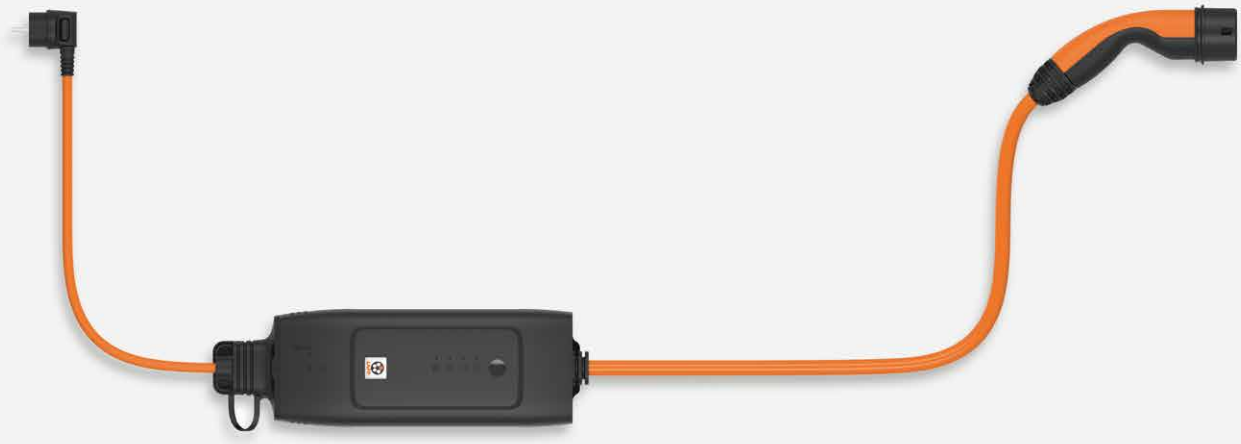
Tailored Innovations

Mode 2 charging cable



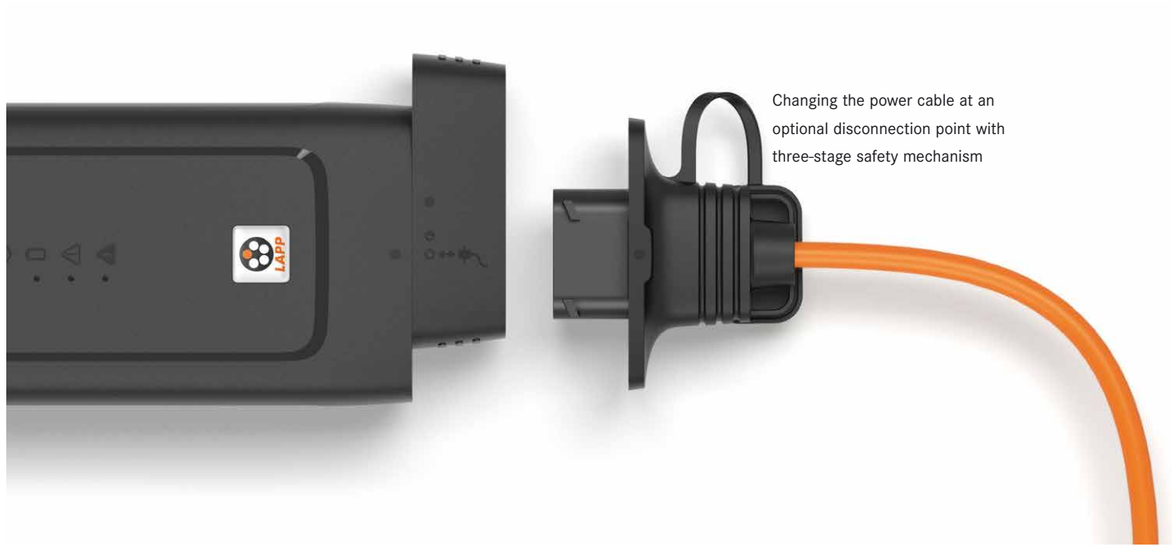
LAPP

MODE 2 CHARGING CABLE

CERTIFIED WORLDWIDE

Wallbox light and portable charging station – the new Mode 2 charging cable from LAPP is both. With a wall holder for the garage wall, it replaces an expensive wallbox and is always on hand as a mobile charging station in your boot – anywhere in the world.

GERMAN INNOVATION AWARD '18 GOLD



Changing the power cable at an optional disconnection point with three-stage safety mechanism

WORLDWIDE FLEXIBILITY

- Charging at any household socket around the world possible:
  The power cable can be disconnected at an optional disconnection point on the control box (IC-CPD) and replaced with country-specific variants.
- With a 32 A power cable (e.g. CEE connector), quick charging with alternating current is possible up to 11 kW.
- On the vehicle side, the control box is equipped with either a type 1, 2 or GB coupling (32 A 1-phase or 16 A 3-phase).

POWERFUL

- Charging possible with 32 A single-phase and 16 A three-phase (powers up to 11 kW)

SAFE

- Certified worldwide (UL/IEC/CQC)
- One of the first Mode 2 charging cables on the market to fulfil IEC standard 62752
- Maximum safety through integrated differential current sensor for AC and DC
- Temperature sensors in power connector and control box: Detection of impermissible heat build-up, reduction of charging current and interruption of the charging procedure if the permissible temperature is exceeded.
- A three-stage safety mechanism prevents the disconnection point from being opened under load
- Water-tight (IP 67 when closed)
- Rollover safe

USER-FRIENDLY

- 100% user-friendly:
  Simply plug in. Current does not need to be adjusted.
- Automatic detection of the maximum charging current through coding in the power cable.
- The charging procedure is fully automatic and is ended as soon as the battery is charged.

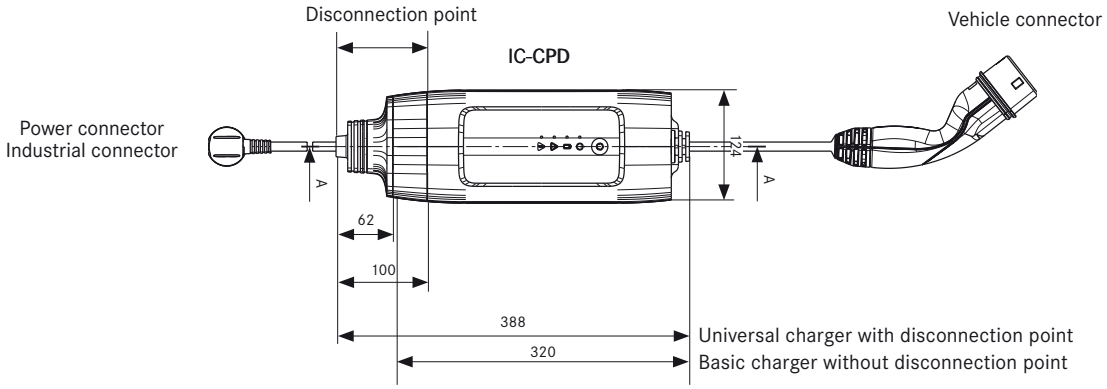
SMART

- Functions such as monitoring of charge status and electricity costs in future via smartphone app

ELEGANT

- Nominated for the German Design Award 2018
- Unique design: Variable colour of cable and connector

LAPP CHARGE · MODE 2 CHARGING CABLE



Variants

Basic charger	Without disconnection point – vehicle cable and power cable hard-wired with IC-CPD
Universal charger	With disconnection point – exchangeable power cable
Vehicle connector	Type 1 (SAEJ1772) Type 2 (IEC 62196) Type GB (GB/T 20234)
Power connector 8A - 10A	Types EF, G, H, J, K, L, M, N, B (US), I (China), I (AUS/NZ)
Industrial connector 16A - 32A	CEE 230V 16A, CEE 400V 16A, CEE 230V 32A, NEMA 14-50, YP-41 (Japan)

Properties

Operating temperature	IEC -25°C to +45°C, UL -30°C to +40°C
Protection class	IP 67 and 3R
Dimensions	
IC-CPD Basic	320 x 124 x 84 mm
IC-CPD Universal	388 x 124 x 84 mm
Weight	
IC-CPD Basic	approx. 1.3 kg
IC-CPD Universal	approx. 1.5 kg

Electrical data

Charging power	1-phase 16 A ➔ 3.6 kW 1-phase 32 A ➔ 7.3 kW 3-phase 16 A ➔ 11 kW
Nominal voltage	110 – 240 V
Mains frequency	50 – 60 Hz
Residual current circuit breaker (RCD)	Type A ≤ 30 mA AC, ≤ 6 mA DC
Safety functions	• Self-test • Monitoring of CP communication • Monitoring of protective conductor • Relay monitoring • Detection of overcurrent, undervoltage, overvoltage • Temperature monitoring IC-CPD • Temperature monitoring Power connector

EU Directives, Standards

2014/35/EU	Low Voltage Directive
2014/30/EU	Electromagnetic Compatibility Directive
2011/65/EU	RoHS
IEC 61851	Electric vehicle conductive charging system
IEC 62752	In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)
UL 2594	Electric Vehicle Supply Equipment
GBT 18487	Electric Vehicle Conductive Charging System

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