

CCS Type-2 Gen2 – Charging Cable



Specification	CCS Type-2 Gen2 – Charging Connector + Charging Cable
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Product Definition

Charging standard	Combined Charging System Type-2
Standards / regulations	IEC 62196-1 IEC 62196-3
Approval	On request
Country approval	On request
Confection line end	220mm stripped, further length on request
Billing in compliance with calibration law	Four-wire measurement

Dimensions Charging Connector

Width	74 mm
Height	179 mm
Depth	309 mm
Conductor length	On request

Ambient Conditions

Ambient temperature (operation)	-30°C ... +50°C
Ambient temperature (storage/transport)	-40°C ... +80°C
Max. altitude	5.000 m (above sea level)
Degree of protection	IP69 (Housing)



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Electrical Properties

Rated voltage for power contacts	1000V DC
Rated current for power contacts	300 A at 40** / 350 A at 25° outer ambient temperature
Maximum charging power	300 kW* / 350 kW
Number of power contacts	3 (DC+ / DC- / PE)
Rated voltage for signal contacts	30 V AC
Rated current for signal contacts	2 A
Number of signal contacts	2 (CP, PP)
Note on the connection method	Cannot be disconnected (welding-/ , crimp termination)
Resistor coding (between PE and PP)	1500 Ω
Temperature monitoring	2x Pt 1000

Mechanical Properties

Mating cycles	> 30.000
Insertion force	< 100 N
Withdrawal	< 100 N

Design

Color housing / handle area	black
Color mating face	grey
Housing with customer logo	On request

Material

Material housing / handle area	Plastic
Material mating face	Plastic
Flammability rating	V0
Material contacts	Cu-Alloy
Material surface of contacts	Ag

*Information based on normative standards IEC 62-196-1 / IEC 62196-3



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Cable

Cable structure	4 x 50 mm ² + 25 mm ² + 4 x 2 x 0,75 mm ²
Cable diameter	35,8 ± 0,5 mm
Cable resistance at 20°C (50 mm ²)	≤ 0,386 Ω/km
Cable resistance at 20°C (25 mm ²)	≤ 0,780 Ω/km
Cable resistance at 20°C (0,75 mm ²)	≤ 26,0 Ω/km
Wiring standard	DIN EN 50620
Type of conductor	Straight
Outer sheath, material	TPE-U
Outer sheath, color	On request
Minimum bending radius	10 x cable diameter with 200 A (15 x with 60 A)

Temperature Sensors

Type of sensor	Pt 1000
Standards / regulations	DIN EN 60751
Recommended measuring current	0,1 - 0,3 mA
Sensor tolerance with recommended measuring current	acc. to DIN EN 60751
Temperature range	-40°C ... 180°C
Temperatur coefficient (TCR)	acc. to DIN EN 60751
Long-term stability (max. R0-Drift)	within temperature range no drift expected (>20 years)
Shutdown temperature	90°C, equivalent to a Pt 1000-value of 1347,07 Ω

Environmental Product Compliance

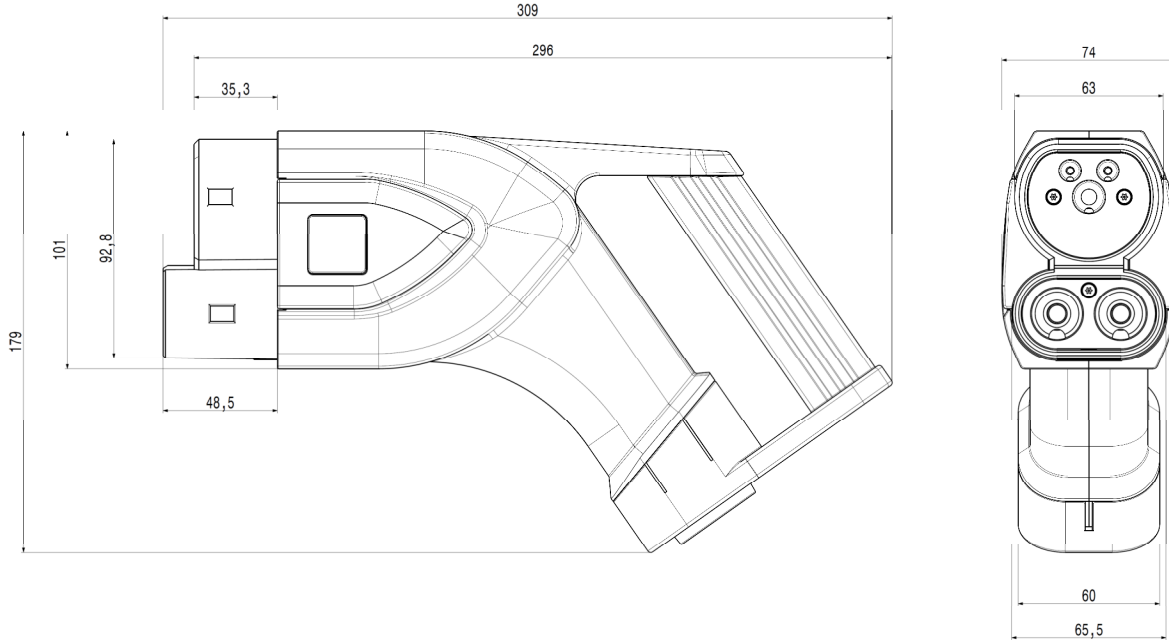
REACH SVHC	Lead CAS 7439-92-1
China RoHS	Environmentally friendly use period: 50 years



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Drawings

Dimensional drawing



Pin assignment of the vehicle connector

