

RADOX® High Power Charging System, HPC200 CCS Type-2, C35, Standard

Description

Continuous High Power Charging at 200 kW
 Robust, safe ergonomic design
 Easy to handle, thin and light flexible Cable
 Short assembly time, maintenance free, easy replaceable
 Shutdown in case of overheating
 Temperature sensors for overheating protection
 Ready for metering system



The RADOX® High Power Charging cable technology can handle continuous current up to 200 Ampère / 1000V (peaks up to 300 Ampère). The ergonomic connector can be easily operated with small or large hands and allows to use the system in a convenient, safe way.

Technical data

Electrical specification

Description	Value
Rated current	200 A
Peak current	300 A
Nominal voltage	1000 V DC
Test voltage cable	7000 V DC
Test voltage system	3000 V DC

Mechanical data

Characteristics	Value [approx.]		
Weight of outer cable	1.9 kg/m		
Weight of Connector	1.3 kg		
Number of mating cycles	> 10'000		
Plug mating force	< 100 N		
Bending radius	Fixed: 190 mm	Free movement: 252 mm	

Environmental data

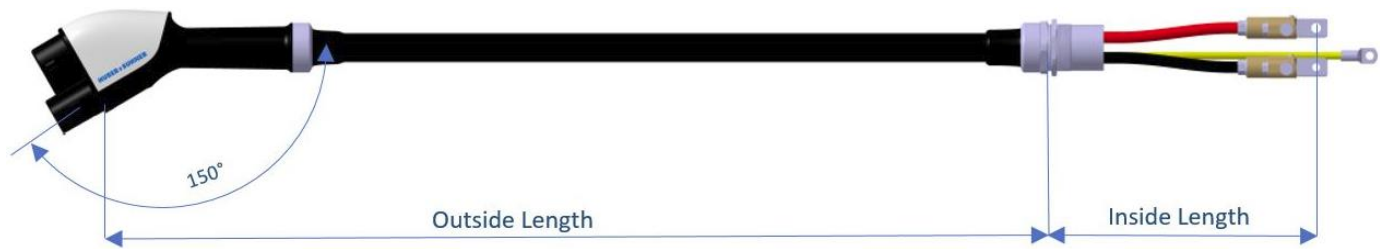
Characteristics	Conditions	Tested acc. to	Values
Temperature range	Operational temperature	IEC 62196	-35°C up to +50°C
Fire resistant		IEC 60332-1-2	
RoHS compliant			
IP-Code			IP44 (plugged in) IP67 (housing)

Additional properties

Metering Connection Signal Wire	Connected to		
0.5mm ² Pink (PK)	DC+		
0.5mm ² Turquoise (TQ)	DC-		
Contacts	Execution		
Exchangeable Body Contacts	DC+ / DC-		
Temperature sensors	Position at the hottest point		

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Technical drawing



Ordering information

Description	Weight nom. [kg]	Outside Length [m]	Inside Length	nom. [m]	Item number
HPC200 CCS2 3.50/1.00 C35	14.5	3.5	Power DC+ Power DC- Earth Signal/Metering wires	1.0	85142491
HPC200 CCS2 4.50/1.00 C35	16.6	4.5		1.0	85146564
HPC200 CCS2 5.50/1.00 C35	18.7	5.5		1.5	85146565
HPC200 CCS2 6.50/1.00 C35	20.8	6.5		1.5	85146567

Normative references

IEC 62893-1	Charging cables for electric vehicles
IEC 62893-4-2 WD ¹⁾	Cables for DC charging according to mode 4 of IEC 61851-1
IEC 62196-3	Plugs socket-outlets, vehicle connectors and vehicle inlets
IEC TS 62196-3-1	DC Charging vehicle coupler and cable assembly with thermal management system
IEC 61851-23	Electric vehicle conductive charging system -DC electric vehicle charging station



¹⁾ under consideration of the newest draft

Change notes

Chapter	Description