

Assembled charging connector

PURWIL HPC CCS1 800 LCC

DC High-Power Charging cable with CCS1 connector for fast charging of electric vehicles using direct current (DC). The robust CCS1 charging connector, combined with the durable PUR (polyurethane) DC cable, provides an ideal solution for long-lasting and efficient performance under demanding outdoor conditions. Patented cooled cable construction and connection technology (US Patent 12,183, 487 B2)
Rated current (at 40 °C / 104 °F) : 800 A
Rated voltage : 1'000 V DC

2422_800



CCS1 Connector

- Charging standard : CCS Type 1
- IP Rating : 3S
- Aluminium locking system
- Proximity pilot resistant : 150 Ω (lever nicht actuated) / 480 Ω (lever actuated)
- Ambient temperature (operation) : -30 °C to +40 °C (-22 °F to +104 °F) (Higher ambient temperature possible with current reduction required, observe temperature limit at DC contacts of 90 °C / 194 °F)
- Temperature monitoring : 6x PT1000
- Insertion / withdrawal cycles : >10'000
- Contacts : replaceable
- Front face : replaceable

DC charging cable PURWIL HPC 800 LCC

- Possible cable length : Up to 10 m (32 ft 9.7 in)
- Execution : one end assembled with CCS1 charging plug
- Second end assembly : possible on request
- Cross-section : 2x 2 AWG + 1G2 AWG + [12x 18 AWG C]
- Cable weight : 1.80 kg/m (1.21 lb/ft)
- Outer diameter : 38.3 ± 0.4 mm (1.51 ± 0.02 in)
- Bending radius : 10 x D
- Temperature range : -40 °C to +90 °C (-40 °F to +194 °F)

Standards

UL 2251:2022 (E533817)
UL 2263:2022 (E530622)

Remarks

Current carrying capacity depends on the cooling unit, ambient conditions and cable length.
Restrictive temperature limits : max. 90 °C (DC contacts), max. 85 °C (cable insulation)
Max. current when using a 3.5 kW cooling unit

Charge Capacity (at 40 °C / 104 °F)

Cable length m	Cable length ft in	Current A
4	13 ft 1.48 in	1028
5	15 ft 4.8 in	954
6	19 ft 8.2 in	898
7	22 ft 11.6 in	853
8	26 ft 2.9 in	816
8.5	27 ft 10.6 in	800
10	32 ft 9.7 in	757

