

# PURWIL HPC Cables Cooled UL

221\_UL

Robust and flexible polyurethane charging cable with control wires and optimized outer diameter

**Application**

For the connection of the electric car to the charging outlet.

**Construction**

Control wires:

- Cu conductor AWG 18, bare (IEC 60228)
- Core insulation made of EPR
- Core color: white, numbered

Power cores:

- Cu-conductor AWG, bare (IEC 60228)
- Supported cooling channel
- Core insulation made of cross-linked HEPR, reinforced
- Core colors black, red, green-yellow

Cable:

- Power cores with the control cores, coolant hoses as well as fillers are twisted and banded together in optimum lay length
- Jacket material made of flame retardant polyurethane (PUR-FRNC)

**Jacket colour**

Black similar to RAL 9005

**Description**

- Sheath with improved flexibility
- high mechanical strength
- good cold flexibility
- good oil and fuel resistance
- UV, ozone and weather resistant

- min. bending radius 10 x D dynamic (D = cable Ø)
- halogen-free
- flame retardant

**Electrical data**

Signal wires:

- Nominal voltage: U<sub>o</sub>/U 600 / 1.000 V
- Test voltage: 3.500 V / 50 Hz

Power cores:

- Nominal voltage: U<sub>o</sub>/U 600 / 1.000 V
- Test voltage: 3.500 V / 50 Hz

**Temperature range**

- -40°C ... +90°C
- in case of a short circuit up to 160°C for 5s

**Standards**

UL Recognized E530622  
 EN 60754-1 Halogen free  
 EN 60754-2 No corrosive gases



**Technical data**

Cross-section AWG	Part no.	Conductor code	Ø D mm	Copper index kg/km	Weight kg/km
2X2+1G2+[12X18C]	522310	2LPE+12Lnum	38.0 ± 0.4	1110.0	1770

