

# PURWIL HPC Cables IEC

210\_IEC

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 Kl.5 bare (EN 60228)
- Core insulation made of EPR
- Core color: white, numbered

#### Power cores:

- Cu-conductor Kl.6 bare (EN 60228)
- Core insulation made of cross-linked HEPR
- Core colors black, red, green-yellow

#### Cable:

- Power cores stranded with the control wires and fillers
- 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>0</sub>/U 600 / 1.000 V
- Test voltage: 3.500 V / 50 Hz

#### Power cores:

- Nominal voltage: U<sub>0</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

IEC 62893-4-1:2020  
 Approval VDE Reg.No. 8798  
 IEC 60754-1 Halogen free  
 IEC 60754-2 No corrosive gases



### Technical data

Cross-section	Part no.	Conductor code	Acceptable current load freely in air 30°C and surface temperature of max. +50°C	Ø D	Copper index	Weight
mm <sup>2</sup>			A	mm	kg/km	kg/km
2X50 + 1G25 + [8X0.75C]	522273	2LPE + 8L	100	28.4 ± 0.4	1243.2	1525
2X70 + 1G35 + [8X0.75C]	522300	2LPE + 8L	200	34.0 ± 0.4	1753.0	2150
2x[2X50] + 1G50 + [8x0.75C]	522301	2LPE + 8L	300	38.2 ± 0.4	2473.0	2795
2x[2X55] + 1G55 + [8x0.75C]	522313	2LPE + 8L	375	42.2 ± 0.4	2713.0	3488

