PURWIL HPC Cables Cooled IEC

220_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)
- 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: Uo/U 600 / 1.000 V
- Test voltage: 3.500 V / 50 Hz

Power cores:
- Nominal voltage: Uo/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

Based on IEC 62893-4 EV cables
IEC 60754-1 Halogen free
IEC 60754-2 No corrosive gases

Technical data

Cross-section mm²	Part no.	Conductor code	Ø D mm	Copper index kg/km	Weight kg/km
2X35+1G35+[12-X0.75C]	522287	2LPE+12Lnum	38.0 ± 0.4	1110.0	1760
2X50+1G50+[12-X0.75C]	522288	2LPE+12Lnum	41.8 ± 0.4	1542.0	2430
2X120+1G120+[18-X0.75C]	522289	2LPE+18Lnum	56.2 ± 0.5	3558.0	4935

20230929/100266

BRUGG eConnect

BRUGG eConnect AG
Phone +41 (0)56 460 3300 • info.econnect@brugg.com