VDE EVC cable to charge electrically powered vehicles and for spiralization

Normative compliance of the charging process with IEC 61851-1; VDE EVC certified according to VDE-AR-E 2283-5/ EVC cable type as third-party approved component involved in charging; Low toxicity of flue in the event of fire; Permanent connection as flexible charging cable to charging station or for permanent on-board carriage inside vehicles; Suitable for spiralization, except for 5G6mm²+1X0.5mm²

- VDE EVC type certified
- Halogen-free and flame-retardant
- Spiralizable

Product description

Benefits

- Normative compliance of the charging process with IEC 61851-1
- VDE EVC certified according to VDE-AR-E 2283-5/ EVC cable type as third-party approved component involved in charging
- Low toxicity of flue in the event of fire
- Permanent connection as flexible charging cable to charging station or for permanent on-board carriage inside vehicles
- Suitable for spiralization, except for 5G6mm²+1X0.5mm²

Product Make-up

- Finely stranded, bare copper conductors of IEC conductor class 5 acc. IEC 60228
- Core insulations of power cores made of special, halogen-free, cross-linked elastomer EVI-2 acc. VDE-AR-E 2283-5
- Core insulation control/ pilot core(s): Halogen-free, thermoplastic, special compound EVI-1 acc. VDE-AR-E 2283-5
- Halogen-free, outer sheath made of PUR in compliance with the normative compound EVM-1 acc. VDE-AR-E 2283-5
- Colour of the outer sheath: Orange similar to RAL 2003, further sheath colours on request

Norm references / Approvals

- EVC cable type registration issued by the VDE according to the VDE application rule VDE-AR-E 2283-5

Product features

- Flame-retardant acc. IEC 60332-1-2 as well as Halogen-free acc. VDE-AR-E 2283-5/ appendices B+C, EN 50267-2-1, EN 50267-2-2, EN 50525-1/ appendix C, EN 60684-2
- UV-resistant acc. EN ISO 4892-2, 2.4.20, as well as ozone-resistant acc. EN 50396, 8.1.3, for outdoor use
- Cold-flexible as well as water-resistant according to AD6 of HD 516 and VDE-AR-E 2283-5, appendix I
- Resistance to acids and solutions according to EN 60811
- High resistance to usual vehicle chemicals according to VDE-AR-E 2283-5, appendix G

Technical Data

Core identification code	Power cores: colour-coded according to HD 308/VDE 0293-308 Control/ Pilot core: Red
Conductor stranding	Fine-wired/ Finely stranded according to IEC 60228, conductor class 5 Bare copper
Minimum bending radius	10 x outer diameter
Nominal voltage	U_0/U = 450/750 V AC
Test voltage	At the core: 2.5 kV AC At the finished cable: 3 kV AC
Protective conductor	Always with protective conductor (PE), hence uppercase "G" as part of the dimension abbreviation
Temperature range	-25°C to +80°C Maximum permissible conductor temperature: +90 °C