



ÖLFLEX® CHARGE

VDE EVC charging cable that can be spiralled to charge electrically powered vehicles

LAPP KABEL STUTTGART ÖLFLEX® CHARGE EVC 3G6+0,5 450/750 VAC VDE-Reg. 8727 RoHS



Info

- VDE EVC type certification
- Halogen-free and flame-retardant
- Suitable for spiralling

Benefits

- Standard 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 in the charging process
- Low toxicity of smoke in the event of fire
- Permanent connection as flexible charging cable to charging station or for permanent on-board carriage inside vehicles
- Suitable for spiralling, except for 5G6+1X0.5

Product features

- Flame-retardant according to IEC 60332-1-2 as well as halogen-free according to 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 according to EN ISO 4892-2, 2.4.20, as well as ozone-resistant according to EN 50396, 8.1.3, for outdoor use
- Flexible at low temperatures as well as water-resistant according to AD6 of HD 516 / VDE 0298-300 and VDE-AR-E 2283-5, appendix I

- Resistance to acids and alkali according to EN 60811/ VDE 0473-811
- High resistance to usual vehicle chemicals according to VDE-AR-E 2283-5, appendix G

Norm references / approvals

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

Design

- Fine-wire, bare copper conductor of IEC braided conductor class 5 according to IEC 60228 / VDE 0295
- Core insulations of power cores made of special, halogen-free, cross-linked elastomer EVI-2 according to VDE-AR-E 2283-5
- Core insulation control/pilot core(s): Halogen-free, special thermoplastic EVI-1 according to VDE-AR-E 2283-5
- Halogen-free, PUR outer sheath in compliance with the compound EVM-1 according to VDE-AR-E 2283-5
- Outer sheath colour: Orange similar to RAL 2003, further sheath colours on request

Technical data



Classification

ETIM 5.0 Class-ID: EC002884
ETIM 5.0 Class-Description: Anti-theft nut



Core identification code

Power cores: Coloured according to HD 308/ VDE 0293-308
Control/pilot core: Red



Conductor design

Fine-wired according to IEC 60228 / VDE 0295, braided conductor class 5
Bare copper



Minimum bending radius

10 x outer diameter



Nominal voltage

U₀/U = 450/750 V AC



Test voltage

At the core: 2.5 kV AC
At the complete cable: 3 kV AC



Protective conductor

Always with protective conductor (PE), hence "G" as part of the dimension information



Temperature range

-25°C to +80°C
Maximum permissible conductor temperature: +90 °C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® CHARGE				
74880550	3G2,5+1X0,5	10.1	76.8	155
74880558	3G6+1X0,5	13.2	178.0	330

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
74880574	5G2,5+1X0,5	12.8	125.0	260
74880582	5G6+1X0,5	16	293.0	460

Unless otherwise specified, the product values shown are nominal values. You can receive further values, such as tolerances, upon request if they available and have been released for publication.

Copper price basis: EUR 150/100 kg; see catalogue appendix T17 for the application and definition of "Metal price basis" and "Metal index"

Photographs are not to scale and do not represent detailed images of the respective products.