

ÖLFLEX® CHARGE AC CHARGING CABLES

AC CHARGING CABLES FOR ASSEMBLERS AND WALLBOX MANUFACTURERS

LAPP KABEL STUTTGART ÖLFLEX® CHARGE 7BZ5F123 EVC <VDE> H07BZ5-F AZ G/XQ 450/750 V



ÖLFLEX® CHARGE LAPP AC CHARGING CABLES are halogen-free cables for flexible applications under severe condition for the power supply between the electricity supply point or the charging station and the vehicle.

The EV charging cables are intended to supply power and if needed communication to an electric vehicle. They are designed for nominal voltages up to and including 450 / 750 V.

They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed.

The cables have proven as original equipment for automobile manufacturers in Mode 3 and Mode 2 assembly. Now also available by the meter for assembly manufacturers!

These cables are VDE-tested and according to this marked with VDE .

These cables are tested acc. to IEC and according to this additionally marked with 62893 IEC 123.

BENEFITS AT A GLANCE

- LAPP quality, developed and manufactured in Europe
- Availability
- Meets all relevant IEC and EN product requirements
- Wide range of colors
- Suitable for charging cables for Mode 1, Mode 2 and Mode 3

APPLICATION RANGE

- For public charging station and wall charger manufacturers
- For all type 2 electric cars
- Made in Europe

VARIANTS

Variant	* Sheath wall thickness nominal (mm)	* Core wall thickness nominal (mm)	* Power core diameter nominal (mm)	Outer diameter (mm)	Weight (kg/m)
5G6+1x0.5	1.4	0.7	4.6	16.1 +/-0.4	0.458
5G2.5+1x0.5	1.2	0.7	3.5	12.8 +/-0.4	0.243
3G6+1x0.5	1.2	0.7	4.6	12.8 +/-0.4	0.295
3G2.5+1x0.5	1.0	0.7	3.5	10.2 +/-0.4	0.161

* Reference value for power cores only

- Pilot-core with 0.75 mm² cross-section also available
- Other variants such as colors and number of control cores available upon request

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DESIGN

Design	acc. to EN 50620 and acc. to IEC 62893-3
Certification	H07BZ5-F acc. to EN 50620 and 62893 IEC 123 acc. to IEC 62893-3
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, class 5
Insulation	halogen free compound EVI-2 acc. to EN 50620 and EVI-2 acc. to IEC 62893-1
Core identification code	power cores: colored acc. To VDE 0293-308 resp. HD 308 S2 control cores: red cores with black or white numbers acc. to EN 50334, acc. to VDE 0293-1, with or without GN/YE ground conductor
Outer sheath	polyurethane-compound TMPU, EVM-1 acc. to EN 50620 and EVM-1 acc. to IEC 62893-1
Available colors	yellow, similar RAL 1016; orange, similar RAL 2003; r ed, similar RAL 3000; light blue, similar RAL 5012; blue, similar RAL 5010; grey, similar RAL 7001; basalt grey, similar RAL 7012; black, similar RAL 9005

ELECTRICAL PROPERTIES AT 20°C

Specific volume resistance (insulation)	>20 G Ω x cm
Nominal voltage	U0/U: 450/750 V
Test voltage	Wire/wire: 2500 V AV

MECHANICAL AND THERMAL PROPERTIES

Minimum bending radius	Flexing: 10 x outer diameter
Temperature range	Flexing: -40°C bis +80°C (max. temperature at the cable surface) max. conductor temperature: 90°C
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
Halogen free	acc. to EN 50620 acc. to IEC 62893-1, clause 8.8.5
UV resistance	acc. to EN 50620 acc. to IEC 62893-2, clause 5.2 acc. to EN ISO 4892-2-2013, method A
Ozone resistance	acc. to EN 50396, clause 8.1.3, method B acc. to IEC 62893-1
Chemical resistance	acc. to EN 50620, appendix D acc. to IEC 62893-3, Annex A
N-oxalic acid resistance	acc. to EN 50620, acc. to IEC 62893-3, Annex A
N-sodium hydroxide resistance	acc. to EN 50620, acc. to IEC 62893-3, Annex A
Tests	acc. to IEC 60811 resp. EN 60811 and IEC 62893-3
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS)

Please scan or click
for more information.

