

eWall EVC Power Bus® **LSHF 0,6/1kV** Flat LSHF flexible cable for Electric Vehicle Charging infrastructure.



BASED TO: IEC 60502-1



R₂_{ca}

APPLICATION

Flat LSHF flexible cable for EVC infrastructure in parkings. For residential or corporate electric vehicle charging installations. The flat cable system allows you a hassle-free Installation & easy expansion, all along the installed length of the cable. The electrician simply connects the new charging stations to the existing infrastructure.

• EVC (Electric Vehicle Charging).

CONSTRUCTION

Conductor

Electrolytic annealed copper, class 5 (flexible) according to EN 60228 and IFC 60228.

Insulation

Cross-linked polyethylene insulation, type XLPE according to IEC 60502-1.

Assembly of cores

The cores are parallel in only one layer, forming a flat cable.

Colours and position are the following:

brown + blue + green/yellow + black + grey.

Outer sheath

Low Smoke halogen free (LSHF) polyolefin outer sheath non toxic and fire retardant, type ST8 according to IEC 60502-1. Grey colour.

COMPATIBILITY

Cable compatible with all major flat connection modules.



STANDARDS / COMPLIANCE



CHARACTERISTICS

TOP CABLE eWALL® EVC Power Bus LSHF 0.6/1kV

Electrical performance Nominal voltage: 0,6/1 kV.

Thermal performance

Maximum conductor temperature: 90 °C. Minimum service temperature: -40°C (fixed and protected installations). Maximum short-circuit temperature: 250 °C (maximum 5 s.).

Fire performance

Flame non-propagation according to IEC 60332-1 / EN 60332-1. Fire non-propagation according to EN 60332-3-24 / IEC 60332-3-24/ EN 50399.

Reaction to fire CPR: B2_{ca}-s1a,d1,a1 according to EN 50575. Low Smoke Halogen Free according to EN 60754-1 / IEC 60754-1. Low smoke emission according to EN 61034 / IEC 61034:

Light transmittance > 80%.

Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.

Mechanical performance

Minimum bending radius: 5 x smaller dimension. Impact resistance: AG2 Medium severity.

Environmental performance

Chemical & Oil resistance: Acceptable. UV Resistant: according to EN 50618. Water resistance: AD5 Jets.



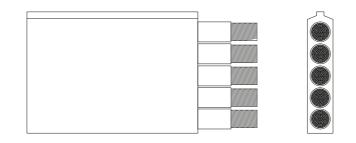
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DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-Section (mm²)	Dimensions (mm)	Weight (kg/km)	Open Air (A) ¹	Voltage drop (V/A km) ²		
5G16	48,0 x 11,5	1.250	110	2,67		
5G25	48,0 x 11,5	1.555	141	1,72		

¹ Reference method F (one vertical cable) according to IEC60364-5-52 in open air at 30°C ambient temperature.

 $^2\mbox{At}$ maximum service temperature and $\mbox{cos}\phi\mbox{=}1.$

In all cases it is supposed three-phase circuit.

SHORT-CIRCUIT CURRENT-CARRYING CAPACITIES

Time (s)	0,1	0,2	0,3	0,5	1	1,5	2	2,5	3
A/mm ²	452	320	261	202	143	117	101	90	83

CORRECTION FACTORS FOR TEMPERATURE

Air Temp (°C)	20	25	30	35	40	45	50	55	60
Factor	1,08	1,04	1	0,96	0,91	0,87	0,82	0,76	0,71