

Flexible halogen free cable for AC charging stations.

ACCORDING TO: IEC 62893 / EN 50620



APPLICATION

This halogen free flexible cable has been specially designed for AC charging stations.

The cable complies with the new EVC standard EN 50620. It is suitable for both indoor and outdoor use.

Excellent resistance to the effects of oil, grasses, dust, and water.
Excellent resistance to heavy mechanical stress.
Very good resistance to cold and other weather influences.
Compatible with all major connectors.

- EVC (Electric Vehicle Charging).

CONSTRUCTION

Conductor

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

Insulation

Cross-linked halogen free compound type EVI-2 according to EN 50620.

The standard identification of insulated conductors according to HD 308 is the following:

3G + 1x Blue + Brown + Yellow/Green + Red (control conductor).
5G + 1x Blue + Brown + Black + Grey + Yellow/Green + Red (control conductor).
5G + 2x Blue + Brown + Black + Grey + Yellow/Green + Red and White (control conductor).

Outer sheath

Polyurethane elastomer compound outer sheath type EVM-1 according to EN 50620.

Black colour.







Other outer sheath colours (green, orange, grey, blue, and more) available upon request.

COMPATIBILITY


Cable compatible with all major connectors: AC type 1 and type 2.




CHARACTERISTICS

-  **Electrical performance**
Nominal voltage: 450/750 V.
-  **Thermal performance**
Maximum conductor temperature: 90 °C.
Minimum installation and handling temperature: -35 °C.
Maximum short-circuit temperature: 250 °C (maximum 5 s).
-  **Fire performance**
No flame propagation according to EN 60332-1 / IEC 60332-1.
-  **Mechanical performance**
Minimum bending radius: 5x cable diameter.
Impact resistance: AG2 Medium severity.
-  **Environmental performance**
Chemical & Oil resistance: Acceptable.
UV Resistant according to EN 50618.
Water resistance: AD8 (submersion).
-  **Installation conditions**
Open Air.
Indoor.

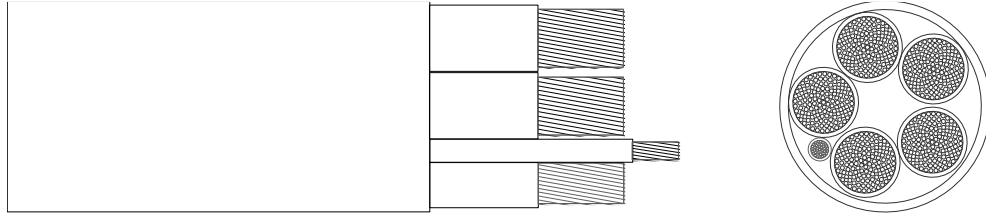
STANDARDS / COMPLIANCE

 According to
IEC 62893 / EN 50620

 Standards and approvals
AENOR / HAR / RoHS / CE



DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-section (mm ²)	Diameter (mm)	Weight (kg/km)	One-phase (A) ¹	Three-phases (A) ¹
3G2,5 + 1x0,5	9,2	140	25	20
3G4 + 1x0,5	10,6	195	35	30
3G6 + 1x0,5	12,0	260	44	38
3G16+ 1x0,5	16,8	595	82	71
5G2,5 + 1x0,5	11,4	220	25	20
5G2,5 + 2x0,5	12,8	250	25	20
5G4 + 1x0,5	13,1	310	35	30
5G6 + 1x0,5	14,8	425	44	38
5G16 + 1x1	20,7	975	82	71
5G25 + 1x1	26,1	1.520	109	94

The tolerances on the nominal outer diameters are:

Cables with outer diameter $d \leq 7$ mm. --> -0,1 / +0,2 mm

Cables with outer diameter $7 < d < 10$ mm. --> -0,1 / +0,3 mm

Cables with outer diameter $d \geq 10$ mm. --> -0,2 / +0,4 mm

Cable dimensions can be adapted to the customer's needs on request.

Other cable configurations available.

¹Current-carrying capacities are calculated according to EN 50620, one vertical cable with adequate ventilation in open air at 30°C ambient temperature. For conditions other than this, please apply the adequate correction factors.

CORRECTION FACTOR

Air Temp (°C)	30	35	40	45	50	55
Factor	1	0,91	0,82	0,71	0,58	0,41