

Flexible halogen free cable for DC charging stations.

BASED ON: IEC 62893-4-1



APPLICATION

Flexible cable for mobile service. This type of cable is intended for the charging of electric vehicles, connecting the electricity supply point or charging station and the electric vehicle.

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.

- 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 IEC 62893-1.

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

2 x +1G + 3x2 Black + Red + Yellow/Green + Blue-Orange, Grey-Brown and White-Violet (control conductors, with non-woven tape longitudinally applied over the pairs).

Separator







Non-woven tape helically applied over the grouping.

Outer sheath


Polyurethane elastomer compound, type EVM-1 according to IEC 62893-1.


Black colour.

CHARACTERISTICS

-  **Electrical performance**
Nominal voltage: 1500 V DC.
-  **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.

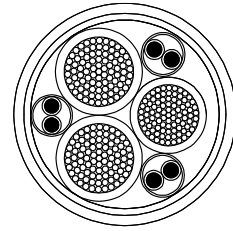
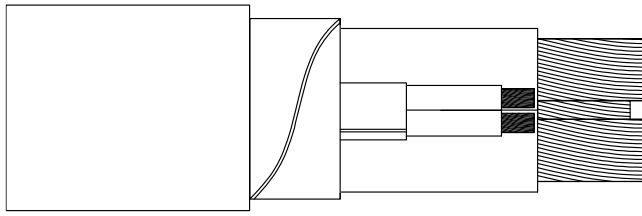
STANDARDS / COMPLIANCE

 **Based on**
IEC 62893-4-1

 **Standards and approvals**
RoHS / CE



DIMENSIONS & ADMISSIBLE INTENSITIES



Cross-section (mm ²)	Diameter (mm)	Weight (kg/km)
2x50 + 1G25 + 3x2x0,75	28,5	1.485
2x70 + 1G35 + 3x2x0,75	32,6	2.100

The tolerances on the nominal outer diameters are:
Cables with outer diameter $d \geq 10$ mm. --> -0,2 / +0,5 mm