


NPA

SKAWINA

modern aluminium products



Aluminium-based
lightning protection wire,
PVC or HFFR coated

Aluminium-based (AlMgSi) lightning protection wire, PVC or HFFR coated

NPA Skawina offers aluminium-based (AlMgSi) lightning protection wire , PVC or HFFR coated. Coated lightning wires become increasingly popular among companies specializing in lightning protection, and among customers demanding particular visual qualities from such installations.

The attractiveness of such solutions is due to a combination of the properties of aluminium wires (flexibility and ease of bending, which enable assembly without using a special tools and devices), and aesthetic aspects (surface protection against corrosion, and the ability to customize the colour of the coating, e.g. the colour of the façade of the building). In addition, the lighter weight of aluminium wires in comparison to steel ones makes them easier to transport in large quantities and assembly. Coated lightning wires can be assembled using typical hardware used for ordinary lighting wires.

NPA Skawina as a producer offers AlMgSi lightning wires in two versions of coating:

- **Halogen-free coating**

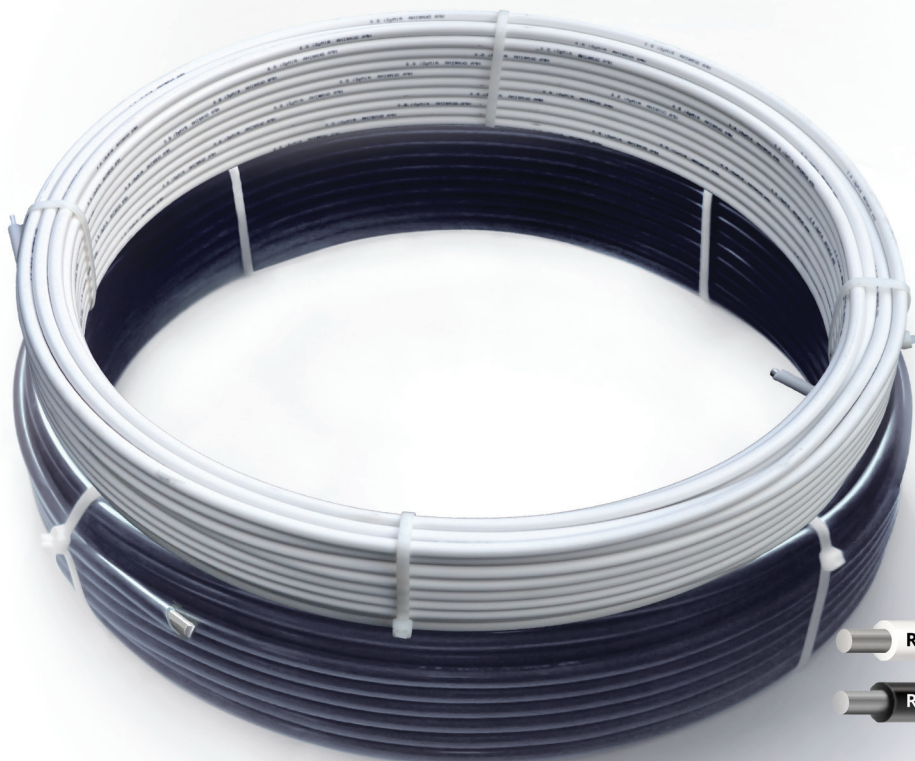
A halogen-free blend of thermoplastic with an added UV stabilizer ensures very good mechanical properties. The coating is designed to work at high and low temperatures (changing weather conditions).

- **PVC coating**

A blend of thermoplastic PVC with added UV stabilizer. The coating is designed to work at high and low temperatures (changing weather conditions).

Comparison criteria / wire type	Typical steel wire	AlMgSi lightning wire (producer: NPA Skawina)	PVC-coated AlMgSi lightning wire (producer: NPA Skawina)	HFFR-coated AlMgSi lightning wire (producer: NPA Skawina)
The diameter of the product [mm]	8	8	8 / 11	8 / 11
Weight of 100 meters [kg]	39,2	13,3	20,0	20,0
Electrical properties (maximum resistivity) [μΩm]	0,15	0,03	0,03	0,03
Fittings	Standard	Standard	Standard	Standard
Coating colour	None	None	Black or white, other colours on request	Black or white, other colours on request
Packing	According to the manufacturer	Coils of 20 kg	Coils of 10 kg	Coils of 10 kg

Selected technical parameters of various types of lightning wires.



 RAL 9010

 RAL 9005

 RAL 7000

 RAL 5015

 RAL 6018

 RAL 8003

 RAL 4005

 RAL 3000

NPA Skawina offers a variety of coating colour options for lighting wires:

- White and black – standard colours for coatings available without any restrictions
- Other colours, e.g. red, blue, grey, green, brown – available on demand, and the production time depends on the amount of ordered wire in the particular colour.



NPA Skawina is a manufacturer with more than 60 years of experience in processing aluminium. Our plants located in Skawina, near Kraków, in southern Poland, produce wire rod, cables and wires for various uses from aluminium and aluminium alloys.

NPA Skawina cooperates with universities and world leaders in aluminium processing. As a result, the products offered are of high quality, which is constantly raised as a result of research and development activities.

In response to market needs associated with the use of flexible aluminium conductors, NPA Skawina has extended its offer by introducing cables made of fine wires. The full scope of the offer includes:

- Aluminum and alloy wire rod
- Aluminum and alloy wires
- Overhead aluminium conductors
- Flexible conductors made from wires with a diameter between 0,3 mm – 0,7 mm

Our products are received by manufacturers and contractors operating in the energy, automotive, household appliances, food, and other industries.

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