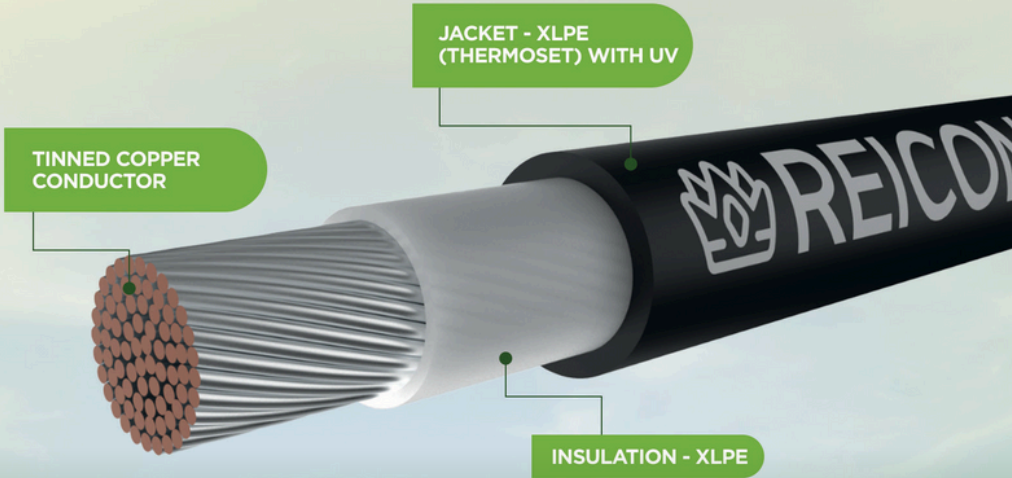


# Main Features



REISOLAR Photovoltaic Cable 0.6/1 kV AC - 1.8 kV DC



**Resistant to weather conditions, UV solar radiation, ozone, acids, and alkalis**, ensuring high durability in outdoor environments.

**Can withstand ambient temperatures between  $-40^{\circ}\text{C}$  and  $90^{\circ}\text{C}$** , allowing use in various climatic conditions.

**Can withstand internal conductor temperatures of up to  $120^{\circ}\text{C}$**  for up to 20,000 hours in continuous operation.

**Contains flame-retardant components**, preventing the spread of fire.

## Main Features



**Emits low smoke and is halogen-free, preventing the release of toxic gases when exposed to extreme temperatures.**

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**Offers excellent mechanical resistance, withstanding oscillatory movements caused by wind.**

**Highly flexible, facilitating installation.**

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**Operates in direct current with a maximum electrical voltage of 1.8 kV or in alternating current with a voltage of 0.6/1 kV.**

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**Our cables are available in black, red, and green. We also offer customized packaging with reels, spools, and coils in various sizes, tailored to your needs.**

# Application



## REISOLAR CABLES

REISOLAR cables are designed for use in installations between photovoltaic modules and the DC terminals of the inverter. They meet national and international standards and follow the strictest quality controls.



## CONDUCTORS

The conductors are made of electrolytic copper wires with 99.9% purity, tinned, and with class 5 stranding.

These characteristics guarantee a 25-year warranty when installed and operated according to the standards.

# Standards Used



Insulated cable conductors



Electrical installations for photovoltaic arrays



Power cables for photovoltaic systems



Insulated cable conductors



Low-voltage electrical installations



Electrical cables for photovoltaic systems

# Technical Data



## Dimensional Data

Section (mm <sup>2</sup> )	Conductor diameter (mm)	Insulation thickness (mm)	Jacket thickness (mm)	Maximum outer diameter (mm)	Nominal cable weight (kg/km)
1x4 mm <sup>2</sup>	2,37	0,7	0,8	6,6	58
1x6 mm <sup>2</sup>	2,91	0,7	0,8	7,4	77
1x10 mm <sup>2</sup>	3,88	0,7	0,8	8,8	115

## Electrical Data

Section (mm <sup>2</sup> )	Max DC conductor resistance at 20°C	Voltage drop in DC at the max op. temp. of 120°C	Current carrying capacity (A)			
mm <sup>2</sup>	Ω /km	V/A,KM	(1)	(2)	(3)	(4)
1x4 mm <sup>2</sup>	5,09	14,8	41	35	28	39
1x6 mm <sup>2</sup>	3,39	9,445	51	44	36	49
1x10 mm <sup>2</sup>	1,95	5,433	71	61	49	68

(1) Reference: ABNT NBR 16612:2020 - Annex C - Table C.2 - Outdoor installation exposed to sunlight - installation method 1 (2) Reference: ABNT NBR 16612:2020 - Annex C - Table C.3 - Outdoor installation exposed to sunlight - installation method 1 (3) Reference: ABNT NBR 16612:2020 - Annex C - Table C.4 - Outdoor installation exposed to sunlight - installation method 1 (4) Reference: ABNT NBR 16612:2020 - Annex C - Table C.5 - Outdoor installation exposed to sunlight - installation method 1

## Current Carrying Capacity

Section (mm <sup>2</sup> )	Ambient Temp. 20° C	Ambient Temp. 30° C	Ambient Temp. 40° C
mm <sup>2</sup>	A	A	A
1x4 mm <sup>2</sup>	37	34	31
1x6 mm <sup>2</sup>	46	42	39
1x10 mm <sup>2</sup>	62	58	53

Values according to ABNT NBR 16612:2020 Table C.9 (refer to the standard for other conditions).