

Copper Conductor XLPO Composite Insulation Nylon Jacket Photovoltaic Wire



APPLICATION

Cables applied for use in Photovoltaic Systems, in particular for installation of connecting solar panels at Direct Current section.

CHARACTERISTICS

Voltage Rating U_0/U (U_m)

1000/2000V

Max. Conductor Operating Temperature

90° C

Min. Bending Radius during Installation

12xD

Min. Bending Radius Fix Installed

10xD (D is diameter of cable)

STANDARDS

UL4703

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

Copper conductor, Class B

Insulation

XLPO/XLPO composite insulation

Jacket

Nylon (Anti-rodent)

Inner Insulation Colors

Black

*other colours available on request

Outer Insulation Colors

Black Red

*other colours available on request

Nylon Colors

Natural

Range and Dimensions

Size	Construction of conductor	Inner Insulation Thickness	Outer Insulation Thickness	Nylon Thickness	Approximate O.D.	Approximate Weight
AWG	mm	mm	mm	mm	mm	kg/km
10	7/0.98	1.14	0.76	0.2	7.3	90
8	7/1.23	1.39	0.76	0.2	8.6	135

Electrical Characteristics

Size	Minimum bend radius	Conductor resistance at temperature 20°C	Conductor resistance at temperature 90°C	Maximum pull	Allowable ampacities in air*	Allowable ampacities of multiple cables**
AWG	mm	Ω/km	Ω/km	N	A	A
10	88	3.41	4.35	362	55	40
8	103	2.14	2.73	577	80	55

* Allowable Ampacities of Single-Insulated Conductors Rated Up to and Including 2000 Volts in Free Air, Based on Ambient Temperature of 30° C (86° F)

**Allowable Ampacities of Insulated Conductors Rated Up to and Including 2000 Volts, Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried), Based on Ambient Temperature of 30° C (86° F)