SOUTH CABLE

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 Uo/U (Um)
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

South 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

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SOUTH CABLE High-tech Zone, Zhengzhou City, Henan Province, China

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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	Ampacities in air*	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

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* 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)

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