

GECA SOLAR A2XY 1/1 kV

SUNCONNECT CPR Eca

Model Product: - 20250404



Aluminium rigid compact conductor, class 2.
XLPE Crosslinked polyethylene insulation
Special Outer sheath PVC.

STANDARDS

EN 60228 IEC 60502-1 pqa HD 603, EN IEC 60332-1-2
EN 50575:2014 + EN 50575/A1:2016

According to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Power cables for fixed external or internal electrical installations laid in the ground, in the open air, in concrete or in cable ducts, where no mechanical protection is required during installation and operation and where the external PVC sheath is not attacked by corrosive agents. Suitable for AC and DC networks, Photovoltaic fields between Inverter and Transformer, industrial installations, switching equipment, local ducts or wind turbines.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 15 D
Maximum pulling stress: 60 N/mm²

PACKING

Drums to agree.

Cables for connections between Inverter and Transformer in Photovoltaic Systems

Nominal voltage U0: 1000VAC 1500VCC

Nominal voltage U: 1000V AC 1500V CC

Test voltage: 4000 V

Maximun voltage Um: 1200V AC 1800V CC

Maximun operating temperature: 90 °C

Maximun short circuit temperature: 250 °C

Minimum installation and laying temperature: -5°C max +50°C

Min. operating temperature (without mechanical shocks): -20°C

CORE COLOURS

Single core: BLACK

SHEATH COLOUR

BLACK

INK MARKING

GECA SOLAR A2XY 1/1 kV [form.] [year] [traceability data] [metric]

NOTE

Special features:UV resistant ,Silicon free ,Lead free

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Conductor Number x section	Approx conductor diameter	Insulating thickness	Indicative external diameter	Approx cable weight	Minimum radius bending	Conductor Resistance at 20°C	Current carrying capacity in DC single cable in air	CURRENT CARRYING CAPACITY IN DC IN GRAUND
(N°xmmq)	(mm)	(mm)	(mm)	(kg/km)	(mm)	(ohm/km)	(A)	(A)
Single core								
1x50	8.2	1.0	14.0	250	210	0.641	161	117
1x70	9.8	1.1	16.0	340	240	0.443	209	144
1x95	11.5	1.1	18.0	440	270	0.320	256	170
1x120	13.1	1.2	19.8	505	297	0.253	299	196
1x150	14.3	1.4	21.8	625	327	0.206	346	224
1x185	16.1	1.6	24.0	753	360	0.164	398	252
1x240	18.5	1.7	26.9	977	404	0.125	473	296
1x300	20.7	1.8	30.0	1200	450	0.100	548	335
1x400	23.5	2.0	33.5	1488	503	0.0778	642	390

*) The flow rates refer to the following conditions: Thermal resistivity of the ground: 1 K m/W; Room temperature 20°C; installation depth: 0.8 m