

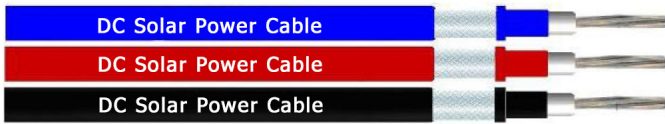


# HALLEY CABLES

# Armoured Solar Cable

## DC power cable

Single core flexible cable, anti rodent armour and steel wire braid



### Construction:

- Conductor : tinned copper, class 5.
- Insulation : HEPR (special rubber compound, G21 type).
- Inner sheath : atoxic crosslinked elastomer.
- Armour : galvanized steel braid.
- Outer sheath : atoxic crosslinked elastomer.
- Sheath colour : black, blue, red.

### Technical data and tests:

- Test voltage : 4 kV.
- Max. voltage : 1800 Vcc (on shore).
- Current used : only DC (continuous current).
- Max. operating temperature : +90° C +120° C - on the conductor.
- Max. short circuit temperature : +250° C.
- Min. operating temperature : -55° C.
- Min. installation and use temp. : -40°C.
- Min. bending radius : 14 x diameter.
- Max. pulling stress : 15 N/mm<sup>2</sup>
- Core colours : for single core is light grey.

### Standards:

- Insulation, Outer sheath : CEI 20-91 pqa.
- Test for vertical flame propagation / Low gases emissions : CEI 20-35 / 20-37 P2.
- Test for vertical flame propagation for a single insulated wire or cable : EN 60332-1-2.
- Tests for cables under fire conditions : EN 50267-1-2, EN 50267-2-2.
- Electrical insulating materials, Thermal endurance properties : EN 60216.

### Applications:

This reinforced cable for photovoltaic systems make it especially suitable for installation directly underground and is resistant to attacks from rodents. The cable suitable for the interconnection of various elements of photovoltaic systems; it is also suitable for fixed installations outside and inside, in unprotected pipes within sight or cashed out, or similar closed system. It is ozone-resistant according to EN 50396. UV-resistant according to HD 605/A1. Furthermore, the cable is tested for durability according to EN 60216.





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## DIMENSIONS

Cores number N°	Nominal Section mm	Insulation medium thickness mm	Maximum external diameter mm	Approx cable weight kg/km	Electric resistance at 20°C ohm/km
Single core					
1x	1.5	0.7	10.33	143	13.7
1x	2.5	0.7	10.84	158	8.21
1x	4	0.7	11.65	187	5.09
1x	6	0.7	12.25	214	3.39
1x	10	0.7	13.95	291	1.95
1x	16	0.7	14.9	361	1.24
1x	25	0.9	16.88	479	0.795
1x	35	0.9	17.99	593	0.565
1x	50	1	20.05	769	0.393
1x	70	1.1	22.45	1006	0.277
1x	95	1.1	23.9	1239	0.21
1x	120	1.2	26.05	1499	0.164

\*Other constructions available upon request.

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