



SOLAR DC Cables “SOLOX”™

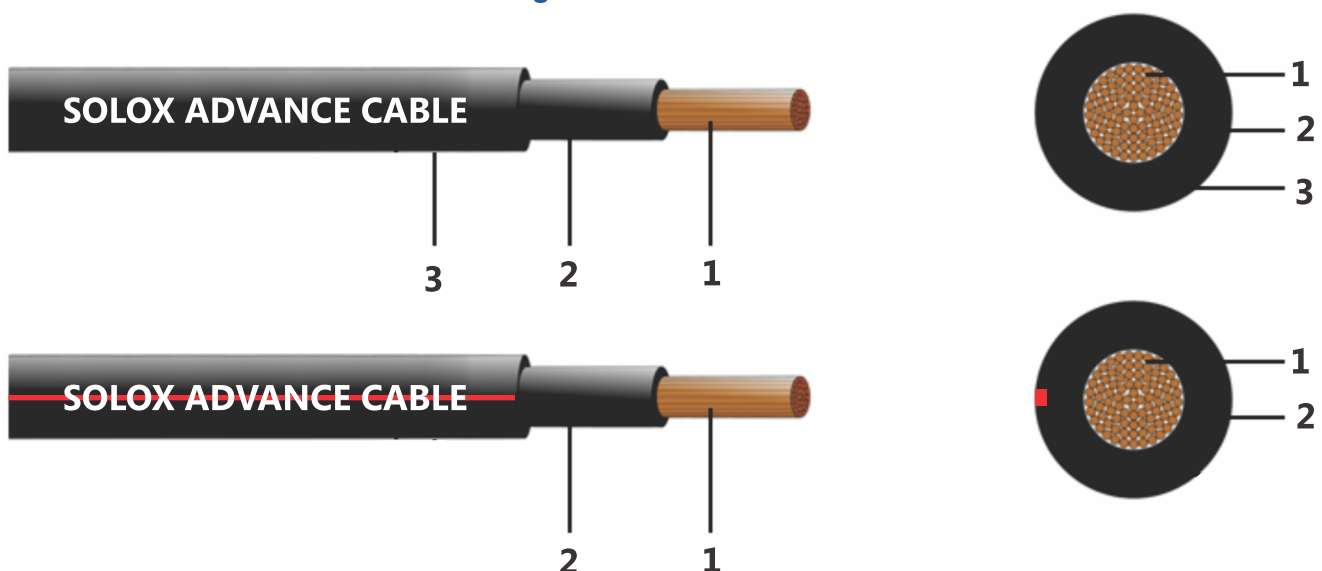
ADVANCE CABLE SOLAR “SOLOX” cables are flexible single core cables specially designed for DC wiring of solar KW & MW plants.

“**SOLOX**” cables are extremely robust and resistant to High Temperature, UV, Damp heat, Ozone and have excellent weather –proofing characteristics. They provide a long service life in tough conditions. “**SOLOX**” cables have achieved these outstanding properties with reduced cable diameters.

General Features :

- Temperature range for applications - 40° to + 90°C (120°C Peak).
Max. Temperature at conductor -125°C
- Short Circuit resistance up to 250°C for 5 Secs
- High Resistance against UV, ozone and hydrolysis
- Very High mechanical robustness and resistance against Moisture and chemicals.
- Compact and flexible
- Certified by TUV for Solar (Certificate No. R 60134458).
- Certified for 20000 Hrs usage @ 120°C & 25 Years usage @ 90°C

Single Core Solar Cable



Application :

Specifically designed for connecting photovoltaic system components inside and outside of buildings and equipment with high mechanical requirements and extreme weather conditions.

Specification : BS EN 50618



Technical data for “SOLOX” – Solar DC Cables :

- 1) Conductor : Annealed Tinned Copper as per IEC 60228 Class 5
- 2) Insulation : Cross Linked Special Halogen Free Flame Retardant compound (with CBXL™ Technology).
- 3) Outer sheath : Cross Linked Special Halogen Free Flame Retardant compound (with CBXL™ Technology).

Area of Cross Section (Sq.mm)	Conductor Strand Size (Max.)	Max. Conductor DC resistance as per IEC 60228 @ 20°C (Ω/Km)	Outer diameter (mm) (Approx.)	Current Carrying Capacity	
				Air	Ground
1.5	0.26	13.7	4.5 ± 0.3	30	29
2.5	0.26	8.21	5.0 ± 0.3	41	39
4	0.31	5.09	5.5 ± 0.4	55	52
6	0.31	3.39	6.0 ± 0.5	70	67
10	0.41	1.95	7.0 ± 0.5	98	93
16	0.41	1.24	9.0 ± 0.6	132	125
25	0.41	0.795	11.5 ± 0.8	176	167
35	0.41	0.565	12.5 ± 1.0	218	207
50	0.41	0.393	13.5 ± 1.5	276	262
70	0.51	0.277	15.5 ± 1.5	347	330
95	0.51	0.21	17 ± 1.5	416	395
120	0.51	0.164	18.5 ± 2.0	488	464
150	0.51	0.132	21.1 ± 2.0	566	538
185	0.51	0.108	23.5 ± 2.5	644	612
240	0.51	0.0817	26 ± 3.0	775	736

- ❖ Voltage Grade : 1000V (AC) / 1800 V (DC)
- ❖ Packing : In lengths of 100/250/500/1000/2000 mtrs. ±10%
- ❖ Weather -/UV Resistant : Complies with HD 605/A1
- ❖ Flame Retardant : Complies with IEC 60332-1-2
- ❖ Halogen Free : Complies with IEC 60754-1
- ❖ Ozone Resistant : Complies with EN 50396
- ❖ Acid-/Brine Resistant : Complies with EN 60811-2-1
- ❖ Bending Radius : 5 x Cable outer diameter
- ❖ Printing on Outer Sheath : ADVANCE CABLE SOLOX H1Z2Z2-K Sq.mm.
DC 1.5 KV -40 to 90°,
120°C Peak BS EN 50618 SOLAR CABLE.

Zertifikat	Certificate	TÜV Rheinland	
Zertifikat Nr. Certificate No. R 60134458	Blatt Sheet 0001		
Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Anstellungsdatum	Date of Issue
	0001-19600320 001	21.11.2018	(days/yr)
Genehmigungsinhaber License Holder ADVANCE CABLE TECHNOLOGIES PVT.LTD. G-1, SUNRISE SERENITY, NO.1, 40FT. ROAD W.R. GARDEN, GEDDALAHALLI, BANGALORE 560094 India		Fertigungsstätte Manufacturing Plant ADVANCE CABLE TECHNOLOGIES (P) LTD. PLOT NO.10 & 14, SURVEY NO.95, KIADB INDUSTRIAL AREA, DODDABALLAPUR BANGALORE RURAL DIST 561203 India	
Prüfzeichen Test Mark	Geprüft nach Tested acc. to		
	EN 50618:2014		
Zertifiziertes Produkt (Certificate Identification)	Lizenzentgelte - Einheit License Fee - Unit		
Cable (Electric cables for Photovoltaic Systems)			
Code designation: H1Z2Z2-K	25		
Cross section: from 1.5mm² to 240mm² acc. to IEC 60228:2004 Table 3			
Trademark: Advance Cable SOLOX			
Max. conductor temp.: 120°C			
Rated voltage: AC 1.0/1.0 kV; DC 1.5 kV			
Ambient temperature: -40°C to +90°C			
Material of insulation: Halogen free cross-linked compound			
Material of sheath: Halogen free Cross-linked compound			
Color of insulation: Black			
Color of sheath: Black			
Replace Certificate R 60078251 0001.			
<p>Dem Zertifikat liegt unsere Prüf- und Zertifizierungsvorschrift zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfverfahren. Ähnliche Anforderungen an Leistung, an denen das Produkt in Verkehr gebracht werden soll, werden zusätzlich zu berücksichtigen sein. Die Herstellung des zertifizierten Produktes ist zu überwachen.</p> <p>This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.</p> <p>TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg Tel.: +49 221 896-1371 e-mail: con-validity@tuev.com Fax: +49 221 896-3935 http://www.tuv.com/safety</p>			

Standard Packing length will be 50 / 100 / 250 / 500 / 1000 / 2000 ± 10 % Metres in drums or as per request.

Variants on request :

Cables with Armouring as per BS EN 50618.

Multi Core Cables as per BS EN 50618.