

ÖLFLEX[®] SOLAR XLR-E

DB 1023650 valid from: 13.07.2016

PP KABE

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1. Application

ÖLFLEX[®] SOLAR XLR-E cables are weather-, abrasion- and UV-resistant photovoltaic cables. These cross-linked, halogen free and double insulated solar cables are suitable for permanent outdoor use and especially for the interconnection of grounded and ungrounded photovoltaic power systems. They are applicable for the connection of solar panels among themselves and as extension cable between the individual module strings or the DC/AC inverter.

According to EN 50618 applies:

The expected period of use under normal usage conditions as specified in EN 50618 is at least 25 years.

2. Cable design

 Design
 according to EN 50618

 Certification
 Code designation H1Z2Z2-K, certified according to EN 50618 TÜV Rheinland certificate No. R50345247

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 Image: Code designation H1Z2Z2-K, certified according to EN 50618

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 Image: Code designation H1Z2Z2-K, certified according to ED 60228, Class 5

 1
 Electron beam cross-linked polyolefin co-polymer

 2
 Core insulation:
 Electron beam cross-linked polyolefin co-polymer

 3
 Outer sheath:
 Electron beam cross-linked polyolefin co-polymer

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 Uter sheath color: black or black with red colored stripe

3. Electrical properties

Rated voltage U_0/U acc. IEC	AC 1000/1000 V DC 1500/1500 V
Max. permissible operating voltage	DC 1800 V (according to EN 50618)
Test voltage	AC 6,5 kV
Current carrying capacity	according to EN 50618, Table A.3 & A.4

4. Mechanical and thermal properties

Temperature range, conducto	r temperature	e fixed installation: -40°C up to +120°C conductor (according to IEC 60216-2)	temperature
Temperature range, ambient t	emperature	fixed installation: -40°C up to +90°C ambient ter (according to EN 50618)	nperature
Minimum temperature for inst	allation	-25°C (according to EN 50618)	
Minimum bending radius		occasional flexing: 15 x cable diameter fixed installation: 5 x cable diameter	
Weathering/UV-resistance		according to EN 50618 Annex E	
Ozone resistance	_	according to EN 50396	
Originator: ALTE / PCM approved: HAPF / PDC	Document:	DB1023650EN	page 1 of 2

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Halogen free		according to IEC 60754-1, IEC 60754-2
Smoke density		according to IEC 61034-2, EN 61034-2
Flame retardant		according to IEC 60332-1-2
Acid and alkaline resistand	ce a	according to EN 60811-404 (Oxal-acid and Sodium hydroxide)
EU directives	This cable is confo	orm to the EU directive 2014/35/EU (Low Voltage Directive)

5. Installation

H1Z2Z2-K cables are not suitable for the installation underground.

The cable should be installed according to VDE 0100, part 520, IEC 60364-5-52, EN 50174-1 or comparable standards. Long-term, permanent storage or constant use of the cables in or underwater is not permitted.

According to EN 50618 applies:

Intended for use in PV installations e.g. acc. to HD 60364-7-712.

They are intended for permanent use outdoor and indoor, for free movable, free hanging and fixed installation. Installation also in conduits and trunkings on, in or under plaster as well as in appliances. Suitable for the application in/at equipment with protective insulation (protection class II).

They are inherently short-circuit and earth fault proof acc. to HD 60364-5-52.

6. Versions

Part. No.	Color insulation	Color outer sheath	Conductor cross section [mm ²]	Outer diameter approx. [mm]
1023651	white	black	1 x 2,5	5.0
1023652	white	black	1 x 4	5.4
1023653	white	black	1 x 6	6.0
1023654	white	black	1 x 10	7.2
1023655	white	black	1 x 16	8.7
1023656	white	black	1 x 25	10.6
1023657	white	black	1 x 35	12.2
1023658	white	black	1 x 50	14.4
1023659	white	black	1 x 70	16.4
1023660	white	black	1 x 95	18.4
1023661	white	black	1 x 120	20.2
1023662	white	black	1 x 150	22.4
1023663	white	black	1 x 185	25.2
1023664	white	black	1 x 240	28.6
1023665	white	black	1 x 300	32.0
1023666	white	black with red stripe	1 x 2,5	5.0
1023667	white	black with red stripe	1 x 4	5.4
1023668	white	black with red stripe	1 x 6	6.0
1023669	white	black with red stripe	1 x 10	7.2
1023670	white	black with red stripe	1 x 16	8.7
on request	white	black with red stripe	1 x 25	10.6
on request	white	black with red stripe	1 x 35	12.2
on request	white	black with red stripe	1 x 50	14.4
on request	white	black with red stripe	1 x 70	16.4
on request	white	black with red stripe	1 x 95	18.4
on request	white	black with red stripe	1 x 120	20.2
on request	white	black with red stripe	1 x 150	22.4
on request	white	black with red stripe	1 x 185	25.2
on request	white	black with red stripe	1 x 240	28.6
on request	white	black with red stripe	1 x 300 2,5mm ² up to 70mm ² are certified acc	32.0

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