

ÖLFLEX® SOLAR XLS-R

Electron beam cross-linked solar cables with reduced outer diameters

ÖLFLEX® SOLAR XLS-R - halogen free electron beam cross-linked solar cable for durable and weather proof use in photovoltaic systems

Info

Optimised cable design -
thin, light and robust



Solar Energy



Suitable for outdoor use



Halogen-free



Cold-resistant



UV-resistant

Benefits

Reduced outer diameters enable space and weight saving installation

Robust against mechanical impacts

Reduction of flame propagation and of toxic combustion gases in the event of fire

Extruded colour stripe serves as reverse polarity protection during installation.

Exact quantity control during installation by meter marking on the cable sheath

Application range

For the cabling between the solar modules and as extension cable between the module strings and the DC/AC inverter

Last Update (23.04.2024)

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Product Management www.lappkabel.de

You can find the current technical data in the corresponding data sheet.

PN 0456 / 02_03.16

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Flexible or building-integrated PV systems

Underground use inside protection conduits/ ducts for burial in combined case of (1) secure dissipation of water(logging) from outer cable surface, as well as (2) laying of conduit/ duct in professionally built cable trench with at least 50 cm of back-fill soil (70 cm underneath roads), above indicating tape, above covering plastic slab, above at least 10 cm of covering sand layer, above the conduit/ duct laid on at least 10 cm high sand bed layer (cf.: VDE 0891-6, Section 4.2)

Not suitable for direct burial, Installation according to IEC 60364-5-52, respectively HD 60364-5-52

Long-term permanent storage/ operation in water not permitted

Product features

Weather/UV-resistant acc. to HD 605/A1

Ozone-resistant according to EN 50396

Halogen-free and flame-retardant

Good notch and abrasion resistance

XLS-R = X-Linked Standard - Reduced

Proven electron beam cross-linked quality

Product Make-up

Fine-wire, tinned-copper conductor

Core insulation made of electron beam cross-linked copolymer

Colour of core insulation: white

Outer sheath made of electron beam cross-linked copolymer

Outer sheath colour: black respectively black with red or blue stripe

Technical Data

Classification ETIM 5:

ETIM 5.0 Class-ID: EC001578

ETIM 5.0 Class-Description: Flexible cable

Conductor stranding:

Fine wire according to VDE 0295,
class 5/IEC 60228 class 5

Minimum bending radius:

Fixed installation: 4 x outer diameter

Nominal voltage:

AC U0/U : 600/1000 V

DC U0/U : 900/1500 V

Max. permissible operating voltage:

DC 1,8 kV (Conductor-conductor, non earthed system)

Test voltage:

AC 6500 V

Temperature range:

Fixed installation: -40°C to +100°C max. conductor temperature

Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil 100 m; Drum (500; 1000) m

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

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Article number	Conductor cross-section (mm ²)	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
Core insulation: white / Outer sheath: black				
0023136	2.5	4.8	24	46
Core insulation: white / Outer sheath: black				
0023137	4	5.2	38.4	63
0023138	6	5.8	57.6	86
0023104	10	7	96	132
Core insulation: white / Outer sheath: black with red stripe				
0023390	2.5	4.8	24	46
0023391	4	5.2	38.4	63
0023392	6	5.8	57.6	86
0023393	10	7	96	132
0023394	16	8.3	153.6	197
Core insulation: white / Outer sheath: black with blue stripe				
0023395	2.5	4.8	24	46
0023396	4	5.2	38.4	63
0023397	6	5.8	57.6	86
0023398	10	7	96	132
0023399	16	8.3	153.6	197