

ÖLFLEX Solar Cable XLR

APPROVED TO THE LATEST SOLAR STANDARDS EN50618, DESIGNED FOR USE IN HARSH OUTDOOR CONDITIONS



LAPP KABEL STÜTTGART ÖLFLEX® SOLAR XLR-E



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CAUTION: DC CABLE - DO NOT DISCONNECT UNDERLOAD



Application Range

- » PV systems rated 1500VDC
- » Cabling between solar modules and as extension cable between module strings and DC/AC inverters
- » Gable and flat roof PV systems
- » PV parks and power plants
- » Not suitable for direct burial, Installation according to IEC 60364-5-52, respectively HD 60364-5-52

Construction

- » 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 stripe

Special Features

- » Halogen-free and flame-retardant
- » Weather /UV-resistant acc. to EN 50618
- » Ozone-resistant according to EN 50396
- » XLR-E = X-Linked Radiated-EN Standard Proven electron beam cross-linked quality

Temperature Rating

- » -40°C to 120°C

Test Voltage

- » AC 6500 V

Norm references / Approvals

- » H1Z2Z2-K (type according to EN 50618)

SKU	Cores	Conductor	Conductor Colours	OD	Drum Size
Single Core					
1023652S	1	4mm	White	5.2mm	100m
1023652	1	4mm	White	5.2mm	500m
1023653	1	6mm	White	5.8mm	500m
1023654	1	10mm	White	7.2mm	500m
Twin Core					
1023712S	2	4mm	Red / Blue	12mm x 5.2mm	100m
1023713	2	6mm	Red / Blue	12mm x 5.8mm	500m

ÖLFLEX Solar Cable XLWP

X LINKED WATER-PROOF, ROBUST, HALOGEN-FREE SUITABLE FOR SUBMERSION



LAPP KABEL STÜTTGART ÖLFLEX® SOLAR XLWP



Application Range

- » For floating PV/ canal top installations where cables are in contact with water or exposed to high humidity (see data sheet for more details)
- » For underground installation, for example in conduits which water, heat, and moisture may accumulate in
- » Suitable for direct burial: see data sheet
- » In September 2018 and based on AD8 water-tightness, this product was recommended by Solartechnik Bayern for installation in ground typically realized via underground circuits for PV applications, whereas underground sand beds are not required to channel off water anymore, thanks to this cable's AD8 grade

Benefits

- » The alternative for long-term storage in water, e.g. as it can occur in case after flooding or in buried conduits
- » Reduction of flame propagation and of toxic combustion gases in the event of fire
- » Robust against mechanical impacts
- » Extruded colour stripe serves as reverse polarity protection during installation.
- » Exact quantity control during installation by meter marking on the cable sheath

Special Features

- » Weather/UV-resistant acc. to EN 50618, appendix E
- » Ozone-resistant according to EN 50396
- » Halogen-free and flame-retardant
- » Good notch and abrasion resistance
- » XLWP = X-Linked + Water-Proof (Permanent water contact AD8 acc. to IEC 60364-5-51), Proven electron beam cross-linked quality

Temperature Rating

- » -40°C to 120°C

Test Voltage

- » AC 6500 V

Norm references / Approvals

- » H1Z2Z2-K (type according to EN 50618)
- » Items with other cross-sections on request

SKU	Cores	Conductor	Conductor Colours	OD	Drum Size
Single Core					
1023601	1	4mm	White/Black	5.8mm	100m
1023603	1	6mm	White/Black	6.8mm	100m

ÖLFLEX Solar Cable XLS Earth

EARTH CABLE WITH AN EXTRA UV RESISTANT SHEATH FOR EXPOSED APPLICATIONS



LAPP KABEL STÜTTGART ÖLFLEX® SOLAR GN/YE



Construction

Flexible Class 5 fine wire stranding, copolymer insulation, tinned copper conductor. This Solar Cable is a variation on our standard Solar range, a traditional fine stranded earth cable wrapped in a special black solar sheath. This is the only truly UV resistant earth cable on the market.

Temperature Rating

- » -40°C to 120°C

Minimum Bending Radius

- » Fixed installation: 4 x outer diameter

Test Voltage

- » AC 6,500V

Special Features

- » Designed for long outdoor lifespan
- » Small Cable OD
- » Excellent weather and UV resistance
- » Metre marked on sheath

SKU	Cores	Conductor	Conductor Colours	OD	Drum Size
Single Core					
0025814S	1	4mm	Earth	6mm	100m
0025823S	1	6mm	Earth	7.1mm	100m

Regulations For Solar Cable

AS/NZS 5033:2014 - 4.3.6.2

According to previous standards, Solar Cables should meet PV1-F requirements, however, on 27th October 2017 the PV1-F standard was abolished. The new internationally recognised standard for Solar Cable is now EN 50618 which is a higher level and more difficult test requirement. LAPP ÖLFLEX SOLAR XLR-E / XLWP have been independently tested by TUV to ensure they conform to this latest standard.

