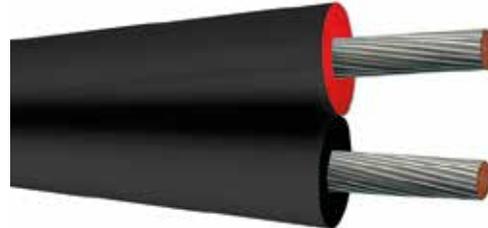


CONSTRUCTION | SOLAR CABLES

SINGLE CORE / TWIN 4 MM / TWIN 6 MM



Prysmian H1Z2Z2-K flexible PV cables have it covered

- Conductor – Fine wire tinned copper class 5 in accordance with IEC 60228 for better durability and better conductivity over the life of the PV unit.
- Cross-Linked Material (Two-layer-Insulation) – makes it both flexible and resistant to UV, no safety risk when needing to remove the PV panels for maintenance, due to old brittle cables. (Cables installed at rear of panels are still deemed to be exposed to UV due to reflection).
- Fire retardant to IEC 60332-1-2, Halogen-free per IEC 60754-1 & Low Smoke Emission per IEC 61034 – safety first, no toxic PVC gases in the event of a fire.
- Robust against mechanical impact.
- Reduction of flame propagation and of toxic combustion gases.
- Suitable for outdoor applications.
- Environmentally Friendly – complies with RoHS directives 2002/95/EG.
- Ambient Temperature from -40°C to +120°C for fixed flexible installation – can be used in Australia and New Zealand's harshest environments.
- Ozone Resistant per DIN EN 50396.
- UV-Resistant to ISO 4892-2 Standard – will last the life of the UV panel. Note even where the cable is not directly exposed to Sunlight is still must comply with AS/NZS 5033:2012 if connected to the PV panel.
- Acid and Alkaline Resistant (N-Oxalic Acid, N-Sodium Hydroxide) per EN 60811-2-1.
- Abrasion Resistant – Meets DIN EN 53516 – it's tough and unlikely to be damaged during installation or during maintenance of the panel.
- Easier installation due to extraordinary flexibility and smaller outer diameter.
- Easy Strip – Prysmian Cable Engineers have specially designed the solar cable to strip easily. Easy stripping improves speed of installation and safety.
- Improved sizing – Fits two 4 mm² solar cables into a 25 mm conduit.

EN 50618:2014 standard

The EN 50618:2014 standard requires cables used on PV Installations to be:

- Flexible (multi-stranded).
- For LV string cables be qualified to EN 50618:2014 requirements.
- Recommends tinned copper to reduce degradation of the cables over time.
- TPS cables complying with AS/NZ 5000 series are not suitable for this application.

For rated voltage

DC 1.5 kV

AC 1.0/1.0 kV

Application

- Photovoltaic systems with rated voltage 1500v DC.
- Cabling between solar modules as an extension cable between the module string and the DC/AC inverter.
- Cable and flat roof photovoltaic systems.
- Solar farms.

Product codes:

- 4 mm² single 20004374
- 4 mm² twin 20038503
- 6 mm² single 20004382
- 6 mm² twin 20038259

Other sizes made to order. Colours available on request in either SDI or twin: Red, blue.

Drum and length

- Drum: Black PVC drum
- Length: 100 metres per drum

Other sizes made to order. Colours available on request in either SDI or Twin: Red, blue.

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.



Construction

4 mm ² Solar Cable		
	Item	Specification
Conductor	Cross-section area (mm ²)	4 mm ²
	Material	Stranded tinned copper
	Size (mm)	52/(0.30±0.008)
	Strand OD (mm)	2.45±0.05
Insulation	Material	Electron-beam cross-linked materials
	Nominal OD (mm)	3.65±0.15
	Colour	Red, Black, Blue
Sheath	Material	Electron-beam cross-linked materials
	Nominal OD (mm)	4.85±0.20 x 10.0±0.40
	Colour	Black
6 mm ² Solar Cable		
	Item	Specification
Conductor	Cross-section area (mm ²)	6 mm ²
	Material	Stranded tinned copper
	Size (mm)	78/(0.30±0.008)
	Strand OD (mm)	3.0±0.05
Insulation	Material	Electron-beam cross-linked materials
	Nominal OD (mm)	4.30±0.15
	Colour	Red, Black, Blue
Sheath	Material	Electron-beam cross-linked materials
	Nominal OD (mm)	5.55±0.20 x 11.6±0.50
	Colour	Black

Technical data

	Nominal voltage	Test voltage	Temperature rating	Ambient temperature	
4 mm² Solar Cable	U ⁰ /U=1000/1000V AC, 1500V DC	6500 V, 50 Hz, 5 min	-40°C up to +125°C	(-40°C up to +120°C): >25 years	
6 mm² Solar Cable	U ⁰ /U=1000/1000V AC, 1500V DC	6500 V, 50 Hz, 5 min	-40°C up to +125°C	(-40°C up to +120°C): >25 years	
	Max. conductor temperature	Bending radius	Conductor resistance	Insulation resistance	UV resistant
4 mm² Solar Cable	+120°C	≥ 6 x cable OD	≤ 5.09 Ω /km at 20°C	≥ 1014 Ω .cm at 20°C	>720h
6 mm² Solar Cable	+120°C	≥ 4 x cable OD	≤ 3.39 Ω /km at 20°C	≥ 1014 Ω .cm at 20°C	>720h

Fire performance: IEC60332-1

Smoke density: IEC61034, EN50268-2

Halogen acid gas emission: IEC60754-1, EN50267-2-1

Certificate: TUV

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