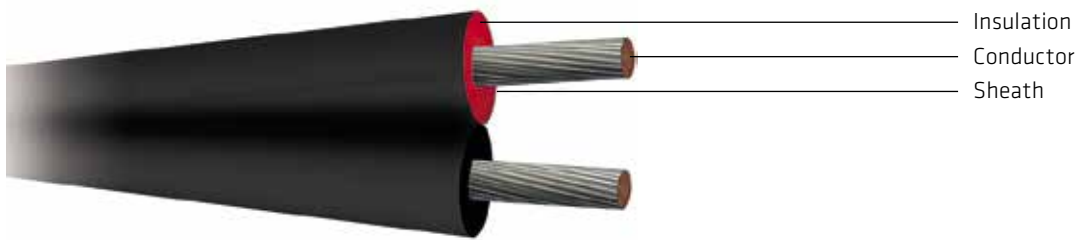


TWIN FLEXIBLE PV SOLAR CABLES
SLIM SOLAR TWIN PV

Cable description

Twin power cables - 600V/1000V AC - 900V/1800V DC
PV1-F cable to 2 PFG 1169/08.07

Application

Domestic PV system wiring

Approvals

2 PFG 1169/08.07

Behaviour in flame and fire

Fire Performance: IEC60332-1
Smoke Density: IEC 61034, EN 50268-2
Content of halogen acid gas: IEC 670754-1, EN 50267-2-1

Temperature range

Maximum operating temperature: +125 °C
Minimum operating temperature: -40 °C

Flexibility

Flexible Class 5

Resistance to

Chemical exposure: Excellent
Mechanical Impact: Light
Water exposure: Good
Solar radiation and weather exposure: Excellent

Cable design

Conductor:
Stranded Tinned copper conductor to IEC60228-2

Insulation:
XLPO
Colours: Red, Black

Sheath:
XLPO
Colour: Black

Markings:
Standard cable print on top of the sheath

Sizes & pack lengths available:
4 mm² & 6 mm² in 100 m plastic reels

Installation conditions

In free air
In conduit
External building with protection

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Physical & electrical characteristics

4 mm ² Twin 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
Sheath	Material	Electron-beam cross-linked materials
	Nominal OD (mm)	4.85±0.20 x 10.0±0.40
	Colour	Black
6 mm ² Twin 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
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 Twin Solar Cable	U ⁰ /U=600/1000V AC, 900/1800V DC	6500 V, 50 Hz, 5 min	-40°C up to +125°C	(-40°C up to +120°C): >25 years	
6 mm² Twin Solar Cable	U ⁰ /U=600/1000V AC, 900/1800V 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 Twin Solar Cable	+120°C	≥ 6 x cable OD	≤ 5.09 Ω /km at 20°C	≥ 10 ¹⁴ Ω .cm at 20°C	>720h
6 mm² Twin Solar Cable	+120°C	≥ 4 x cable OD	≤ 3.39 Ω /km at 20°C	≥ 10 ¹⁴ 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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