



Solar Safety Photovoltaic Cable



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**10
YEARS
LIMITED
PRODUCT
WARRANTY**

**25
YEARS
SERVICE
LIFE**

PV2K-TCA Series

SOLAR DC CABLE

Model: PV2000DC (TCA)

Rated Voltage: 2000V DC

Range of cross sectional area: 1X4mm² ~ 1X35 mm²

Standard: TÜV SÜD PPP58209A



SOLAR DC CABLE

Cable design	
Conductor	Tinned copper alloy wires (TCA)
Insulation	125°C Low-Smoke Halogen-Free Flame Retardant Polyolefins
Sheath	125°C Low-Smoke Halogen-Free Flame Retardant Polyolefins
Special technology	Electron Beam Radiation Cross-linking

Electrical characteristics	
Rated voltage U ₀ /U	DC 20000V
Temperature range	-40°C up to +90°C
Max. temperature at conductor	120°C
Min. bending radius	6 x cable diameter
Industry Standards	PPP58209A
Tensile strength and elongation	EN 60811-1-2
Halogen free	50525-1 Annex B
Ozone resistance	EN 50396
UV resistance	EN50289-4-17
Cold impact test	EN60068-2-78

Current Carrying Capacity for PV2000DC-TCA

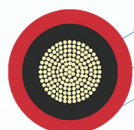
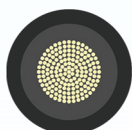
Ambient temperature: 30°C

Max. temperature at conductor: 90 °C

The current-carrying capacity of a cable depends on a variety of factors, including the insulating material, the number of conductors in the cable, the design (sheath), the installation method, the agglomeration, and the ambient temperature.

The data in the following table is for reference only.

Product selection table				
Conductor (mm ²)	In air	Underground	Safe Current A I	Safe Current A II
1x4	42	59	34	27
1x6	57	80	46	36
1x10	72	106	58	46
1x16	98	139	78	63
1x25	132	178	106	84
1x35	183	213	146	117
* For groups reduction factors according to IEC 60364-5-52, Table A.52-17 shall apply.				
* In general applications, we recommend that the maximum allowable current refer to Safe Current A I.				



Conductor: TCA, tin plated

Insulation: 125°C XLPO, Cross-Linked

Sheath: 125°C XLPO, Cross-Linked

ZIMMER SAFETY SOLAR CABLE TÜV SÜD PPP58209A PV2000DC (TCA) 1X6mm² 2000V UV. Res. HALOGEN FREE LOW SMOKE

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Standard: TUV SUD PPP58209A

Application

Halogen free cross-linked polyolefin double layers solar cables for use at the photovoltaic power systems. This cable can match with all kinds of solar connectors which have a rated voltage of 1000V up to 2000V DC.

Cable surface marking

ZIMMER SAFETY SOLAR CABLE TÜV SÜD PPP58209A PV2000DC (TCA) 1X6mm²
2000V UV. Res HALOGEN FREE LOW SMOKE

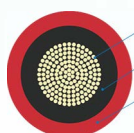
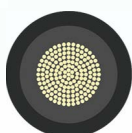
Certificate

PPP58209A

B1204960002

Product selection table

Part No.	Conductor cross section mm ²	Strand design Number x Ø mm	Outer-Ømm	Sheath Color
PV2K-TCA-40B	1X4,0	56/0.285	5.6±0.1mm	Black
PV2K-TCA-40R	1X4.0	56/0.285	5.6±0.1mm	Red
PV2K-TCA-60B	1X6,0	84/0.285	6.1±0.1mm	Black
PV2K-TCA-60R	1X6.0	84/0.285	6.1±0.1mm	Red
PV2K-TCA-100B	1X10	77/0.4	7.2±0.1mm	Black
PV2K-TCA-100R	1X10	77/0.4	7.2±0.1mm	Red
PV2K-TCA-160B	1X16	126/0.4	8.5±0.1mm	Black
PV2K-TCA-160R	1X16	126/0.4	8.5±0.1mm	Red
PV2K-TCA-250B	1X25	192/0.4	11±0.1mm	Black
PV2K-TCA-250R	1X25	192/0.4	11±0.1mm	Red
PV2K-TCA-350B	1X35	273/0.4	12.6±0.1mm	Black
PV2K-TCA-350R	1X35	273/0.4	12.6±0.1mm	Red



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