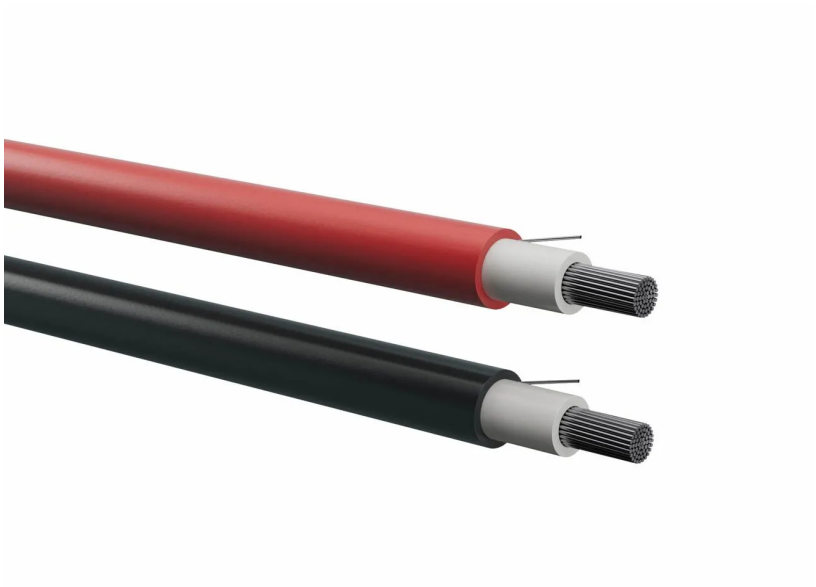
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Feichun Cable Solar DC Cable Technical Specification



Technical Specifications

Cable Design

Conductor: Tinned Copper Alloy (TCA)

Insulation: 125℃ Low-Smoke Halogen-Free Flame Retardant Polyolefins

Sheath: 125℃ Low-Smoke Halogen-Free Flame Retardant Polyolefins

Special Technology: Electron Beam Radiation Cross-Linking

Electrical Characteristics

Rated Voltage (U0/U): DC 2000V

Temperature Range: -40℃ to +90℃

Maximum Temperature at Conductor: 120℃

Minimum Bending Radius: 6 × Cable Diameter

Industry Standards & Compliance

Industry Standards: PPP58209A

Tensile Strength and Elongation: EN 60811-1-2

Halogen-Free Compliance: 50525-1 Annex B

Ozone Resistance: EN 50396

UV Resistance: EN 50289-4-17

Cold Impact Test: EN 60068-2-78

Current Carrying Capacity for PV2000DC-TCA

Operating Conditions

Ambient Temperature: 30℃

Maximum Temperature at Conductor: 90℃

The current-carrying capacity of the cable depends on multiple factors, including insulation material, the number of conductors, design, installation method, and ambient temperature.

Product Selection Table

Conductor (mm²)	In Air (A)	Underground (A)	Safe Current A I (A)	Safe Current A II (A)
1×4	42	59	34	27
1×6	57	80	46	36
1×10	72	106	58	46
1×16	98	139	78	63
1×25	132	178	106	84
1×35	183	213	146	117

Note:

For groups, reduction factors apply according to IEC 60364-5-52, Table A.52-17.

In general applications, we recommend using theSafe Current A Ivalue as the maximum allowable current.

Cable Structure

Conductor:Tinned Copper Alloy (TCA)

Insulation:125℃ XLPO, Cross-Linked

Sheath:125℃ XLPO, Cross-Linked

For further details or customized specifications, please contact Feichun Cable.