



APPLICATION

1000V TUV PV1-F Solar Cable 4mm is specialized components used in Solar power system to connect solar panel and Inverter or controller box. They're UV resistance and can be working outdoor in extreme environments, Ozone, Hydrolysis resistant for 25 years.

Advantage of 1000V PV1-F Single Core Solar Cable

- Double layers of XLPE insulation. Electron irradiation cross-linked.
- Excellent resistance to UV, oil, greases, oxygen and ozone
- Excellent resistance to abrasion
- Halogen free, flame retardant, low toxicity, ROHS
- Excellent flexibility and stripping performance
- High Voltage and Current carrying capacity
- TUV, CE, ROHS, ISO approved
- Free Sample is available

CONSTRUCTION

Conductor: 99.99% Strand Copper, Tin plated (According to VDE0295/IEC60228)

Insulation: Polyolefin copolymer electron-beam cross-linked (XLPE/XLPO)

Jacket: Polyolefin copolymer electron-beam cross-linked (XLPE/XLPO)

Test Voltage: 6500V, 50Hz, 5Min

Technical Data

Rated Voltage: 1000/1800VDC

Character: UV Resistance, Halogen-free

Ambient Temperature: -40°C ~ 120°C, More Than 25 Years (TUV)

Color: Black, Red

Standard

TUV 2PFG 1169 PV1-F

Fire Performance IEC 60332-1

Smoke Emission IEC 61034, EN 50268-2

Size of Solar PV Cable 4mm 6mm 10mm

Size	Conductor Construction	Conductor OD	Cable OD	Resistance Max.	Rated Voltage	60°C Ampacity
mm ²	n x mm	mm	mm	Ω/Km	V	A
1×1.5	30×0.25	1.58	4.9	13.7	1000/1800	30
1×2.5	48×0.25	2.02	5.45	8.21	1000/1800	41
1×4.0	56×0.3	2.35	6.10	5.09	1000/1800	55
1×6.0	84×0.3	3.20	7.20	3.39	1000/1800	70
1×10	142×0.3	4.60	9.00	1.95	1000/1800	98
1×16	228×0.3	5.60	10.20	1.24	1000/1800	132
1×25	361×0.3	6.95	12.00	0.795	1000/1800	176
1×35	494×0.3	8.3	13.80	0.565	1000/1800	218