

UL PV WIRE

UL E332231 Type PV Wire **AWG 90 °C Dry and Wet 1000/2000V Sun Res -40 °C VW-1



Advantages

- ◆ E-beam cross-linked compounds
- ◆ High resistance against UV, ozone and hydrolyzation
- ◆ High temperature resistance, materials will not melt or flow
- ◆ Flexibility under cold conditions
- ◆ Long usable life, expected usable life over 25 years
- ◆ Applicable to all common connectors

Application

In a solar power system of rated voltage 1000/2000V, PV cables are used to connect between solar panels and inverters.

Construction

- ◆ Conductor : Soft tinned annealed copper according to IEC 60228, class 5
- ◆ Insulation : XLPO, flame retardant, halogen free, E-Beam cross-linked compounds
- ◆ Jacket: XLPO, flame retardant, halogen free, E-Beam cross-linked compounds, UV and ozone resistant, black / white marking
- ◆ Jacket color : Black/Red.

Thermal performance

- ◆ Operation temperature : -40°C ~ +120°C
- ◆ Ambient temperature : -40°C ~ +90°C
- ◆ Maximum short circuit temperature : 250°C

Electrical performance

- ◆ Rated Voltage : 1000/2000V
- ◆ Test Voltage : 6000V AC 5min

Bending radius

- ◆ Fixed setting : $\geq 4 \times \varnothing$
- ◆ Moves on occasion : $\geq 5 \times \varnothing$

Material characteristics / standard

- ◆ Fireproof performance : IEC60332-1; IEC60332-3-24
- ◆ Smoke emission : IEC61034; EN61034-2
- ◆ Low fire load : DIN51900
- ◆ Approval : UL 4703
- ◆ Applied standard : UL 4703

Type	Color	Conductor Construction	Insulation Thickness	Jacket Thickness	Outer Dia.	Conductor Resistance
Awg	Color	mm	mm	mm	mm	max. mΩ/m
6	Black/Red	106/0.40	1.39	1.14	9.82±0.1	1.403
8	Black/Red	66/0.40	1.39	0.76	8.05±0.1	2.23
10	Black/Red	76/0.30	1.14	0.76	6.82±0.1	3.546
12	Black/Red	48/0.30	1.14	0.76	6.2±0.1	564
14	Black/Red	43/0.25	1.14	0.76	5.69±0.1	8.96