

## SPECIFICATION FOR APPROVAL

### DESCRIPTION

Non-Halogen Cable for Photovoltaic Power System Class 5 TC Stranding Low Smoke Density.

### STANDARDS

- EN 50618
- UL 4703
- ROHS 2011/65/EU

### CABLE CONSTRUCTION



Conductor	Stranded tinned copper
Size	10mm <sup>2</sup> /8AWG
Stranding	84/0.40
Diameter	4.60mm
Inner Layer	XLPE
Minimum Average Thickness	1.14
Color	White
Outer Layer	XLPE
Minimum Average Thickness	0.80
Color	Black
Diameter	9.20 ± 0.20

### ELECTRICAL PROPERTIES

Rated Voltage	EN1500DC;UL1000 OR 2000V
Spark Test	10000 VAC
Voltage Withstand	6500VAC/5min
Conductor DC Resistance	≤ 1.95 Ω /km

### Physical PROPERTIES

	Inner Layer	Outer Layer
Elongation	≥ 150%	≥ 150%
Strength	≥ 10.3Mpa	≥ 10.3Mpa
Ambient Temperature	- 40°C up to +90°C	
Bending Radius	≥ 4 × Cable OD	
Max.Conductor Temperature	120°C	
Smoke Emission Test	≥ 60%	
Flame Test	VW-1	

### Marking

(UL) E332548 PV WIRE 8AWG 90 °C WET OR DRY 1000 OR 2000V SUN RES -40 °C TÜV EN 50618  
H1Z2Z2-K 1 × 10.0mm<sup>2</sup> WUXI XINHONGYE WIRE & CABLE CO., LTD R50311889