

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	4mm ² /12AWG
Stranding	52/0.30
Diameter	2.35mm
Inner Layer	XLPE
Minimum Average Thickness	1.14
Color	White
Outer Layer	XLPE
Minimum Average Thickness	0.80
Color	Black
Diameter	6.40 ± 0.10


ELECTRICAL PROPERTIES

Rated Voltage	EN1500DC;UL1000 OR 2000V
Spark Test	10000 VAC
Voltage Withstand	6500VAC/5min
Conductor DC Resistance	≤ 5.09 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 12AWG 90 °C WET OR DRY 1000 OR 2000V SUN RES -40 °C  TÜV EN 50618
H1Z2Z2-K 1 × 4.0mm² WUXI XINHONGYE WIRE & CABLE CO., LTD R50311889