

# SPECIFICATION FOR APPROVAL

## DESCRIPTION

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

## STANDARDS

EN 50618

ROHS 2011/65/EU

## CABLE CONSTRUCTION



Conductor	Stranded tinned copper
Size	35mm <sup>2</sup>
Stranding	276/0.40
Diameter	8.30mm
Inner Layer	XLPE
Minimum Average Thickness	0.90
Color	White
Outer Layer	XLPE
Minimum Average Thickness	1.10
Color	Black
Diameter	12.60 ± 0.25

## ELECTRICAL PROPERTIES (at+20°C)

Rated Voltage	DC 1500V; AC 1.0/1.0kV
Insulation Resistance	≥ 290M Ω .km
Spark Test	10000 VAC
Voltage Withstand	6500VAC/5min
Conductor DC Resistance	≤ 0.565 Ω /km
Max. current AT60°C	218A

## Physical PROPERTIES

	Inner Layer	Outer Layer
Elongation	≥ 125%	≥ 125%
Strength	≥ 8Mpa	≥ 8Mpa
Ambient Temperature	- 40°C up to +90°C	
Thermal Endurance Properties	> 25years	
Bending Radius	≥ 4 × Cable OD	
Max.Conductor Temperature	120°C	
Smoke Emission Test	≥ 60%	
Flame Test	EN 60332-1-2	

## Marking

 TÜV EN 50618 H1Z2Z2-K 1 × 35.0mm<sup>2</sup> WUXI XINHONGYE WIRE & CABLE CO., LTD R50311889