

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	4mm ²
Stranding	52/0.30
Diameter	2.35mm
Inner Layer	XLPE
Minimum Average Thickness	0.70
Color	White
Outer Layer	XLPE
Minimum Average Thickness	0.80
Color	Black
Diameter	5.60 ± 0.10

ELECTRICAL PROPERTIES

Rated Voltage	DC 1500V; AC 1.0/1.0kV
Insulation Resistance AT20°C	≥ 580M Ω .km
Spark Test	10000 VAC
Voltage Withstand	6500VAC/5min
Conductor DC Resistance	≤ 5.09 Ω /km
Max. current AT60°C	55A

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 × 4.0mm² WUXI XINHONGYE WIRE & CABLE CO., LTD R50311889