

## 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                      | 16mm <sup>2</sup>      |
| Stranding                 | 128/0.40               |
| Diameter                  | 5.60mm                 |
| Inner Layer               | XLPE                   |
| Minimum Average Thickness | 0.70                   |
| Color                     | White                  |
| Outer Layer               | XLPE                   |
| Minimum Average Thickness | 0.90                   |
| Color                     | Black                  |
| Diameter                  | 9.20 ± 0.20            |

## ELECTRICAL PROPERTIES (at+20°C)

|                         |                        |
|-------------------------|------------------------|
| Rated Voltage           | DC 1500V; AC 1.0/1.0kV |
| Insulation Resistance   | ≥340M Ω .km            |
| Spark Test              | 10000 VAC              |
| Voltage Withstand       | 6500VAC/5min           |
| Conductor DC Resistance | ≤1.24 Ω /km            |
| Max. current AT60°C     | 132A                   |

## 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 × 16.0mm<sup>2</sup> WUXI XINHONGYE WIRE & CABLE CO., LTD R50311889