

**DESCRIPTION**

Non-Halogen Cable for 1500V Photovoltaic Power System Class 5 TC Stranding Low Smoke Density, Termite Resisting and Direct Burial Applied.

**STANDARDS**

IEC 60228, IEC 60332-1-2, IEC 60754, IEC 60811, IEC 61034, IEC 62930  
 UL 44, UL 854, UL 1581, UL 2556, UL 4703  
 EN 50618  
 ROHS 2011/65/EU

**CABLE CONSTRUCTION**

|                           |                         |
|---------------------------|-------------------------|
| Conductor                 | Stranded tinned copper  |
| Size                      | 4mm <sup>2</sup> /12AWG |
| Stranding                 | 52/0.30                 |
| Diameter                  | 2.4mm                   |
| Inner Layer               | XLPO                    |
| Minimum Average Thickness | 1.14mm                  |
| Color                     | White                   |
| Outer Layer               | XLPO                    |
| Minimum Average Thickness | 0.8mm                   |
| Color                     | Black                   |
| Diameter                  | 6.35±0.2mm              |

**ELECTRICAL CHARACTERISTICS (at +20°C)**

|                         |                          |
|-------------------------|--------------------------|
| Voltage Rating          |                          |
| UL 4703                 | AC 1000V, 2000V          |
| EN 50618                | AC: 1000V; DC: Max.1500V |
| IEC62930                | AC: 1000V; DC: Max.1500V |
| Insulation Resistance   | ≥ 1000 MΩ.km             |
| Voltage Withstand       | 6500 VAC                 |
| Conductor DC Resistance | ≤ 5.09 Ω/km              |

**OTHER CHARACTERISTICS**

|                           |                     |
|---------------------------|---------------------|
| Bending Radius            |                     |
| Dynamic                   | ≥ 5 X OD            |
| Static                    | ≥ 4 X OD            |
| Flammability              | VW, IEC 60332-1-2   |
| Working Temperature       | 105°C Dry, 90°C Wet |
| Cable Light Transmittance | ≥ 60%               |
| Termite Test              | Termite Resisting   |

**PRINT LEGEND**

AKATSUKI E497908 (UL) 12AWG PV WIRE 105°C DRY 90°C WET 1000V SUN RES -40°C DIR BUR AKATSUKI H1Z2Z2-K 4mm<sup>2</sup>  
 TRPV R 50385976 AKATSUKI 62930 IEC 131 4mm<sup>2</sup> HALOGEN FREE LOW SMOKE R 50406787  
 ——— AKATSUKI E497908 (UL) 12AWG PV WIRE 105°C DRY 90°C WET 1000V SUN RES -40°C DIR BUR ——— AKATSUKI  
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Notes: With or without line on whole length above will be required.  
 Both marking will be required according to the purchase order.

**HISTORY**

Feb 22, 2018 First issue  
 May 8, 2018 Add IEC marking according to IEC 62930 standard requirement

Draft  
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