



## DESCRIPTION

Non-Halogen Cable for 1500V Photovoltaic Power System Class 5 TC Stranding Low Smoke Density 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%

## 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>  
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  
H1Z2Z2-K 4mm<sup>2</sup> R 50385976 —— AKATSUKI 62930 IEC 131 4mm<sup>2</sup> HALOGEN FREE LOW SMOKE R 50406787 ——

Notes: With or without line on whole length above will be required.  
Both marking will be required according to the purchase order.

## HISTORY

Jan 17, 2018	First issue	Draft
May 8, 2018	Add IEC marking according to IEC 62930 standard requirement	V0