

## 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	2.5mm <sup>2</sup> /14AWG
Stranding	47/0.25
Diameter	2.0mm
Inner Layer	XLPO
Minimum Average Thickness	1.14mm
Color	White (RAL9003)
Outer Layer	XLPO
Minimum Average Thickness	0.8mm
Color	Black (RAL9005)
Diameter	5.94±0.1mm

## ELECTRICAL CHARACTERISTICS (at +20°C)

Voltage Rating	
UL 4703	AC 1000V, 2000V
EN 50618	AC:1000V; DC:Max.1500V
IEC 62930	AC:1000V; DC:Max.1500V
Working Temperature	105°C Dry, 90°C Wet
Insulation Resistance	≥ 1000 MΩ.km
Voltage Withstand	6500 VAC
Conductor DC Resistance	≤ 8.21Ω/km

## OTHER CHARACTERISTICS

Bending Radius	
Dynamic	≥ 5 X OD
Static	≥ 4 X OD
Flammability	VW, IEC 60332-1-2
Cable Light Transmittance	≥ 60%

## PRINT LEGEND

H1Z2Z2-K 1X2.5mm<sup>2</sup> PV WIRE BYSON ELECTRONICS 62930 IEC 131 2.5mm<sup>2</sup> HALOGEN FREE LOW SMOKE BYSON ELECTRONICS E331483 (UL) 14AWG PV WIRE 105°C DRY 90°C WET 1000V OR 2000V SUN RES -40°C DIR BUR

—— H1Z2Z2-K 1X2.5mm<sup>2</sup> PV WIRE BYSON ELECTRONICS —— 62930 IEC 131 2.5mm<sup>2</sup> HALOGEN FREE LOW SMOKE BYSON ELECTRONICS —— E331483 (UL) 14AWG PV WIRE 105°C DRY 90°C WET 1000V OR 2000V SUN RES -40°C DIR BUR

Notes: With or without solid line on whole length above will be required.

Both marking will be required according to the purchase order.

## HISTORY

Jun 11, 2015	First issue	Draft
Oct 21, 2016	Changing marking, withdrawn TUV 1169 according to EN standard requirement	V0
Jan 10, 2018	Update file	V1
Apr 17, 2018	Add IEC marking according to IEC 62930 standard requirement	V2