

## DESCRIPTION

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

## STANDARDS

UL 44, UL 854, UL 1581, UL 2556, UL 4703  
ROHS 2011/65/EU

## CABLE CONSTRUCTION



Conductor	Stranded tinned copper
Size	12AWG
Stranding	47/0.30
Diameter	2.31 mm
Inner Layer	XLPO
Minimum Average Thickness	1.14mm
Color	White (RAL9003)
Outer Layer	XLPO
Minimum Average Thickness	0.76mm
Color	Black (RAL9005)
Diameter	6.27±0.2mm

## ELECTRICAL CHARACTERISTICS (at +20°C)

Voltage Rating	
AC	1000V, 2000V
Working Temperature	105°C Dry, 90°C Wet
Insulation Resistance	≥ 1000 MΩ.km
Spark Test	10000 VAC
Voltage Withstand	6000 VAC
Conductor DC Resistance	≤ 5.76 Ω/km

## OTHER CHARACTERISTICS

Bending Radius	
Dynamic	≥ 5 X OD
Static	≥ 4 X OD
Flammability	VW

## PRINT LEGEND

BYSON ELECTRONICS 12AWG E331483 (UL) PV WIRE 105°C DRY 90°C WET 1000V OR 2000V SUN RES -40°C DIR BUR

## HISTORY

May 18, 2015	First issue	Draft
Jun 22, 2015	Optimized file	V0
Dec 9, 2016	Optimized file, add "1000V" in marking	V1