

DESCRIPTION

Non-Halogen Cable for 1000V/2000V 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	14AWG
Stranding	42/0.25mm (0.010inches)
Diameter	1.8mm (0.071inches)
Inner Layer	XLPO
Minimum Average Thickness	1.14mm (0.045inches)
Color	White
Outer Layer	XLPO
Minimum Average Thickness	0.76mm (0.030inches)
Color	Black
Diameter	5.72±0.1mm (0.225±0.004inches)

ELECTRICAL CHARACTERISTICS (at +20°C)

Voltage Rating	
AC	1000V, 2000V
Working Temperature	105°C Dry, 90°C Wet
Insulation Resistance	≥ 1000 MΩ.km (3280GΩ.ft)
Voltage Withstand	6000 VAC
Conductor DC Resistance	≤ 9.24Ω/km (2.82Ω/kft)

OTHER CHARACTERISTICS

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

PRINT LEGEND

BYSON ELECTRONICS 14AWG E331483 (UL) PV WIRE 105°C DRY 90°C WET 1000V OR 2000V SUN RES -40°C DIR BUR

HISTORY

Jun 23, 2015	First issue	Draft
Nov 6, 2015	Adjust conductor from 41/0.25 to 42/0.25	V0
Dec 9, 2016	Optimized file, add "1000V" in marking	V1
Apr 26, 2018	Add "inch" unit	V2