

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	12AWG
Stranding	47/0.30mm (0.012inches)
Diameter	2.3mm (0.091inches)
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	6.27±0.2mm (0.247±0.008inches)

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	≤ 5.76Ω/km (1.76Ω/kft)

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
Apr 26, 2018	Add "inch" unit	V2