

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 -2-1, IEC 61034, IEC 61215
 UL 44, UL 854, UL 1581, UL 2556, UL 4703
 EN 50618
 ROHS 2011/65/EU

CABLE CONSTRUCTION



Conductor	Stranded tinned copper
Size	4mm ² /12AWG
Stranding	52/0.30
Diameter	2.4mm
Inner Layer	XLPO
Minimum Average Thickness	1.14mm
Color	White (RAL9003)
Outer Layer	XLPO
Minimum Average Thickness	0.8mm
Color	Black (RAL9005)
Diameter	6.35±0.2mm

ELECTRICAL CHARACTERISTICS (at +20°C)

Voltage Rating	
UL 4703	AC 1000V, 2000V
EN 50618	AC: 1000V; DC: Max.1500V
Working Temperature	105°C Dry, 90°C Wet
Insulation Resistance	≥ 1000 MΩ.km
Spark Test	10000 VAC
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-1, IEC 60332-1-2
Cable Light Transmittance	≥ 60%

PRINT LEGEND

H1Z2Z2-K 1X4mm² PV WIRE BYSON ELECTRONICS E331483 (UL) 12AWG PV WIRE 105°C DRY 90°C WET 1000V OR 2000V
 SUN RES -40°C DIR BUR

HISTORY

Mar 20, 2015	First issue	Draft
May 21, 2015	Adjust marking 1000V/2000V to 1000V OR 2000V	V0
Oct 21, 2016	Changing marking, withdrawn TUV 1169 according to EN standard requirement	V1