

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	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
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	≤ 5.09 Ω/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 1X4mm² PV WIRE BYSON ELECTRONICS 62930 IEC 131 4mm² HALOGEN FREE LOW SMOKE BYSON ELECTRONICS
 E331483 (UL) 12AWG PV WIRE 105°C DRY 90°C WET 1000V OR 2000V SUN RES -40°C DIR BUR

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Notes: With or without solid line on whole length above will be required .
 Both marking will be required according to the purchase order.

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Oct 21, 2016	Changing marking, withdrawn TUV 1169 according to EN standard requirement	V1
Jan 10, 2018	Update file	V2
Apr 17, 2018	Add IEC marking according to IEC 62930 standard requirement	V3