

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	0.76mm
Color	White (RAL9003)
Outer Layer	XLPO
Minimum Average Thickness	0.8mm
Color	Black (RAL9005)
Diameter	5.6±0.1mm

ELECTRICAL CHARACTERISTICS (at +20°C)

Voltage Rating	AC 600V
UL 4703	Max. DC 1500V
EN 50618	105°C DRY, 90°C WET
Working Temperature	≥ 1000 MΩ.km
Insulation Resistance	10000 VAC
Spark Test	6500 VAC
Voltage Withstand	≤ 5.09 Ω/km
Conductor DC Resistance	

OTHER CHARACTERISTICS

Dynamic	≥ 5 X OD
Static	≥ 4 X OD
Flammability	VW-1, IEC 60332-1-2

PRINT LEGEND

H12222-K 1X4mm² PV WIRE BYSON ELECTRONICS E331483 (UL) 12AWG PV WIRE 105°C DRY 90°C WET 600V SUN RES
 -40°C DIR BUR

HISTORY

Mar22, 2015	First issue	Draft
Feb 4, 2017	Changing marking, withdrawn TUV 1169 according to EN standard requirement	V0