



DESCRIPTION

Non-Halogen Cable for 1000V/2000V Photovoltaic Power System Bare Copper 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 Bare Copper
Size	12AWG
Stranding	19/0.47mm (0.019inches)
Diameter	2.4mm (0.095inches)
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±0.15mm (0.247±0.006inches)

ELECTRICAL CHARACTERISTICS (at +20°C)

Voltage Rating	
UL 4703	1000V, 2000V
Insulation Resistance	≥ 1000 MΩ.km (3280GΩ.ft)
Voltage Withstand	6000 VAC
Conductor DC Resistance	≤ 5.43 Ω/km (1.66Ω/kft)

OTHER CHARACTERISTICS

Bending Radius	
Dynamic	≥ 10 X OD
Static	≥ 8 X OD
Flammability	VW
Working Temperature	105°C Dry, 90°C Wet

PRINT LEGEND

AKATSUKI E497908 (UL) 12AWG BC PV WIRE 105°C DRY 90°C WET 1000V OR 2000V SUN RES -40°C DIR BUR
—— AKATSUKI E497908 (UL) 12AWG BC PV WIRE 105°C DRY 90°C WET 1000V OR 2000V SUN RES -40°C DIR BUR ——

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

HISTORY

Oct 27, 2020 First issue

Draft