

ALUMINUM PV WIRE UL4703 1000/2000V



1 – 1st insulation:
halogen free special copolymer

2 – 2nd insulation:
halogen free special copolymer

3 – Conductor:
8000 series Aluminum

1 and 2 INSULATION COLOR



MARKING :

(UL) E332231 Type PV Wire AL*AWG 90 °C Dry and Wet 1000/2000V Sun Res -40 °C VW-1 Direct Burial FRCABLE

Description	19stranded
1.Rated Voltage:	1000/2000V
2.Ambient Temperature:	-40 °C--90 °C Max. Temperature at Conductor 120 °C
3.Conductor:	8000 series Aluminum
4.Insulation:	90 °C XLPE
5.Jacket:	90 °C XLPE
6.Color:	Insulation: Black Jacket: Black, Red, White

Construction

Conductor			Insulation	Jacket		Conductor Resistance (20 °C)
Gauge	No.	OD.	Nom.Thickness	Nom.Thickness	OD.	
AWG	N/mm	mm	mm	mm	mm	max Ω/km
2	19/1.50	7.5	1.39	1.14	12.56±0.2	0.8574
4	19/1.19	5.95	1.39	1.14	11.01±0.2	1.363
6	19/0.94	4.75	1.39	1.14	9.76±0.2	2.168

Electrical Properties

Item	Unit	Values
Withstand voltage (2-8AWG)	V/5min	AC7500
Withstand voltage (8-18AWG)	V/5min	AC6000

Electrical Properties

Item		Unit	Insulation	Jacket
Unaged	Tensile strength		≥10.3Mpa	≥10.3Mpa
	Elongation		≥150%	≥150%
Aging	Tensile strength	121±2 °CX168h	≥70%	≥ 70%
	Elongation			
Conductor Corrosion		Unaged and aging	Pass	
Deformation Test		131±2 °CX1h	≤ 30%	
Cold Shock		-40±1 °CX16h	No crack	
Flaming test				VW-1