

COPPER PV WIRE UL4703 1000/2000V



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

1 and 2 INSULATION COLOR



1 – 1st insulation:
halogen free special copolymer

2 – 2nd insulation:
halogen free special copolymer

3 – Conductor:
Bare copper

MARKING :

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Description 19stranded

1. Rated Voltage: 1000/2000V
2. Ambient Temperature: -40 °C –90 °C Max. Temperature at Conductor 90 °C
3. Conductor: Bare copper
4. Insulation: 90 °C XLPE
5. Jacket: 90 °C XLPE
6. Color: Insulation: Black Jacket: Black, Red, White

Construction

Conductor		Insulation	Jacket		Conductor Resistance
Gauge	No.	Nom.Thickness	Nom.Thickness	OD.	
AWG	N/mm	mm	mm	mm	max Ω/km
6	19/0.94	1.39	1.14	9.82±0.1	1.403
8	19/0.75	1.39	0.76	8.05±0.1	2.23
10	19/0.59	1.14	0.76	6.82±0.1	3.546
12	19/0.48	1.14	0.76	6.20±0.1	5.64

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 °C X168h	≥70%	≥ 70%
	Elongation			
Conductor Corrosion		Unaged and aging	Pass	
Deformation Test		131±2 °C X1h	≤ 30%	
Cold Shock		-40±1 °C X16h	No crack	
Flaming test				VW-1