

UL4703 1000V/2000V

FLEXIBLE SINGLE CORE CABLE HALOGEN FREE FOR PHOTOVOLTAIC SYSTEMS

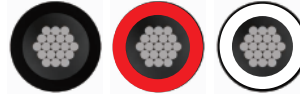


1 – 1st insulation:
halogen free special copolymer

2 – 2nd insulation:
halogen free special copolymer

3 – Conductor:
Bare copper

1st and 2nd INSULATION COLOR



MARKING :

(UL) E332231 Type PV Wire 12AWG 90 °C Dry and Wet 1000/2000V Sun Res -40 °C VW-1 Direct Burial PV ACCESSORIES

Description 19stranded

- 1. Rated Voltage: 1000/2000V
- 2. Ambient Temperature: -40 °C –90 °C Max. Temperature at Conductor 120 °C
- 3. Conductor: Bare copper
- 4. Insulation: 125 °C XLPE
- 5. Jacket: 125 °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 mΩ/m
12	19/0.48	1.14	0.76	6.2 ± 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