

# COPPER PV WIRE DUAL LAYER RPVU90 CUL 2KV



1 – 1<sup>st</sup> insulation:  
halogen free special copolymer

2 – 2<sup>nd</sup> insulation:  
halogen free special copolymer

3 – Conductor:  
Bare copper

1 and 2 INSULATION COLOR



## MARKING :

c(UL) RPVU \*AWG 90 C Dry and Wet 1000/2000V Sun Res -40 C FT1 Direct Burial FRCABLE meter

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				FT1