# **CU XLPE Type RPVU90 2000V**

Single Copper Conductors, 1000V/2000V, 90°C MAX - 40°C MIN, Sunlight Resistant

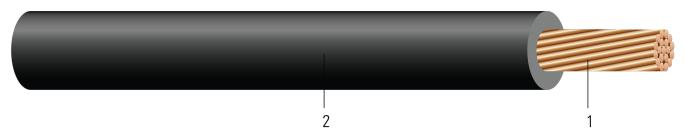


Image not to scale. See Table 1 for dimensions.

#### **CONSTRUCTION:**

- 1. Conductor: Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- 2. Insulation: Cross Linked Polyethylene (XLPE)

#### **APPLICATIONS AND FEATURES:**

Single copper conductor with low temperature, moisture resisting XLPE (cross linked polyethylene) insulation. Sunlight Resistant. This product meets the current RoHS requirements. No lead is added or used in manufacturing.

#### **SPECIFICATIONS:**

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA C22.2 No. 38 Thermoset-insulated wires and cables
- RoHS Compliant Lead-Free, Silicone-Free
- CSA Standard C22.2 No. 271 Photovoltaic Cables

### **SAMPLE PRINT LEGEND:**

SOUTHWIRE LL90458 {CSA} AWG XX (XX.X{mm2}) CU XLPE RPVU90 1000V/2000V -40°C SR DIRECT BURIAL --- {MM/DD/YYYY} --- RoHS {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

# **Table 1 – Weights and Measurements**

Cond. Size	Cond. Number	Strand	Insul. Thickness	Insulation Color	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C†
AWG/ Kcmil		No.	mil		inch	lb/1000ft	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
8	1	7	80	BK	0.301	78	1.2	132	0.653	0.786	0.052	55

All dimensions are nominal and subject to normal manufacturing tolerances

♦ Cable marked with this symbol is a standard stock item

Ampacities based on 2017 NEC Table 310.15(B)(16): Allowable Ampacities of Insulated Conductors Rated Up to and Including 2000 Volts, 60°C Through 90°C (140°F Through 194°F), Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried), Based on Ambient Temperature of 30°C (86°F)

! Bunch unilay 19 strand tinned copper

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.



<sup>^</sup> Combination Unilay per ASTM B787



## **Table 2 – Weights and Measurements (Metric)**

Cond. Size	Cond. Number	Strand	Insul. Thickness	Insulation Color	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C
AWG/ Kcmil		No.	mm		mm	kg/km	mm	newton	Ω/km	Ω/km	Ω/km	Amp
8	1	7	2.03	BK	7.65	116	30.48	587	2.14	2.58	0.1706	55

All dimensions are nominal and subject to normal manufacturing tolerances

Ampacities based on 2017 NEC Table 310.15(B)(16): Allowable Ampacities of Insulated Conductors Rated Up to and Including 2000 Volts, 60°C Through 90°C (140°F Through 194°F), Not More Than Three Current-Carrying Conductors in Raceway, Cable, or Earth (Directly Buried), Based on Ambient Temperature of 30°C (86°F)

## Stock Code and Color (other than Black)

Stock Code	Size AWG	Color
583671	10	Red



<sup>♦</sup> Cable marked with this symbol is a standard stock item

<sup>!</sup> Bunch unilay 19 strand tinned copper

<sup>^</sup> Combination Unilay per ASTM B787

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