# CU XLPE Type RPVU90 2000V

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

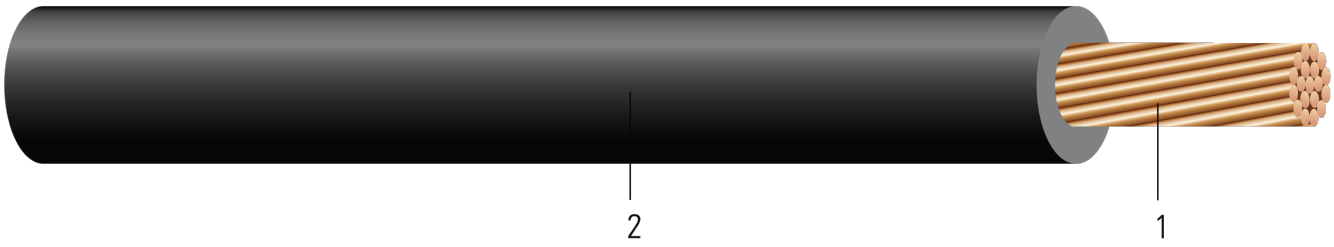



Image not to scale. See Table 1 for dimensions.

## 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, Halogen 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

^ Combination Unilay per ASTM B787

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.



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## 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
◊ 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)
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## Stock Code and Color (other than Black)

| Stock Code | Size AWG | Color |
|---|---|---|
| 583671 | 10 | Red |


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