



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:

- Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- 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 | Strand | Insul. Thickness | 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 |
| 6 | 7 | 80 | 0.337 | 114 | 1.3 | 209 | 0.411 | 0.495 | 0.051 | 75 |

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





Table 2 – Weights and Measurements (Metric)

| Cond. Size | Strand | Insul. Thickness | 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 |
| 6 | 7 | 2.03 | 8.56 | 170 | 33.02 | 930 | 1.35 | 1.62 | 0.1673 | 75 |

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 |

