# SIMpull® RWU90 Copper 1000 Volt

Single Copper Conductors, XLPE Insulation, 1000V / -40ºC MIN, 90ºC MAX, Sunlight Resistant. SIMpull® technology on sizes #8 and larger. Cable can be installed in conduit without the aid of lubrication. For Direct Burial

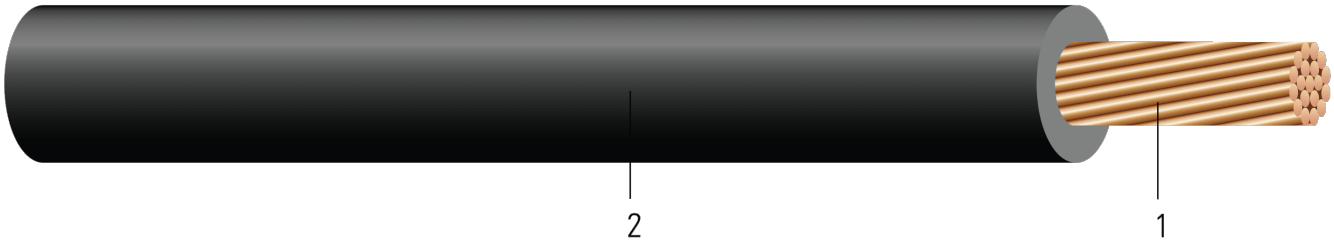


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

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

## APPLICATIONS AND FEATURES:

Southwire's RWU90 is designed for direct earth burial (with protection as required by the inspecting authority). For service entrance above or below ground. The minimum recommended installation temperature is minus 40°C (with suitable handling procedures). Maximum conductor temperature is 90°C. Note: Standard black is sunlight resistant and marked "SR". Standard coloured insulation is not sunlight resistant. SIMpull® technology on sizes #8 and larger. Cable can be installed in conduit without the aid of lubrication.

## 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
- CSA SUN RES - for Sunlight Resistant rating
- CSA AWM I A/B FT1

## SAMPLE PRINT LEGEND:

SOUTHWIRE{R} XX AWG {NOLUBE}{R} {SIMPULL} RWU90{TM} LL90458 {CSA} (33.6{MM2}) CU RWU90 XLPE 1000 VOLTS -40{D}C SR - PAT www.patentSW.com - RWU90 XXX AWG

### Table 1 – Weights and Measurements

| Stock Number | 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 |
| 590659◊ | 350 | 1 | 37 | 110 | WE | 0.893 | 1211 | 3.600 | 2800 | 0.031 | 0.039 | 0.040 | 350 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item


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* Ampacities derived from the 2021 Canadian Electrical Code Table 1 for not more than three insulated copper conductors, rated not more than 5000 V and unshielded, in raceway or cable (based on an ambient temperature of 30 °C)
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.

## Table 2 – Weights and Measurements (Metric)

| Stock Number | 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 |
| 590659◊ | 350 | 1 | 37 | 2.79 | WE | 22.68 | 1802 | 91.44 | 12460 | 0.10 | 0.13 | 0.1312 | 350 |

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Ampacities derived from the 2021 Canadian Electrical Code Table 1 for not more than three insulated copper conductors, rated not more than 5000 V and unshielded, in raceway or cable (based on an ambient temperature of 30 °C)
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.

## Table 3 – Colors

| Cond. Size | Stranding | Color | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AWG or kcmil | num | Black | Green | White | Red | Blue | Yellow | Orange | Purple | Brown | Gray |
| 14 | 7 | 556978 | 578364 | 563253 | 646740 | 647607 | 566577 | | | | |
| 12 | 7 | 556979 | 556980 | 556982 | 556981 | 556600 | | 556601 | 556604 | 556602 | 556603 |
| 10 | 1 (solid) | | | 557932 | | | | | | | |
| 10 | 7 | 556983 | 556598 | 556984 | 556986 | 556987 | 579338 | | | | |
| 8 | 7 | 556991 | 556991 | 556989 | 556990 | 556992 | | | | | |
| 6 | 7 | 556994 | 556997 | 556995 | 556996 | 556998 | 643550 | | | | |
| 4 | 7 | 556999 | 557002 | 557000 | 557001 | 557003 | | | | | |
| 3 | 7 | 557004 | 137969 | 641557 | | | | | | | |
| 2 | 7 | 557005 | 571898 | 557006 | 557007 | 556596 | | | | | |
| 1 | 19 | 137926 | | | | | | | | | |
| 1/0 | 19 | 590651 | 664805 | 669505 | 666075 | 666074 | | | | | |
| 2/0 | 19 | 590652 | 138905 | 668800 | 668801 | 668802 | | | | | |
| 3/0 | 19 | 590653 | | 593058 | 593059 | 593060 | | | | | |
| 4/0 | 19 | 590654 | 583440 | 678382 | 668805 | 668806 | | | | | |
| 250 | 37 | 590655 | | | | | | | | | |
| 350 | 37 | 590656 | | 590659 | 590658 | 590657 | | | | | |
| 500 | 37 | 590660 | | 590663 | 590662 | 590661 | | | | | |
| 600 | 61 | 592347 | | 592349 | 592348 | 592350 | | | | | |
| 750 | 61 | 590664 | | | | | | | | | |
| 1000 | 61 | 671492 | | | | | | | | | |


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