



# SIMPull® RWU90 Copper 1000 Volt

Single Copper Conductors, XLPE Insulation, 1000V / -40°C MIN, 90°C 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:

- Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
- 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/<br>Kcmil |              | No.    | mil              |                  | inch       | lb/<br>1000ft  | inch               | lb               | Ω/1000ft             | Ω/1000ft             | Ω/1000ft                   | Amp                                 |
| 556979       | 12            | 1            | 7      | 60               | BK               | 0.217      | 34             | 0.800              | 52               | 1.662                | 2.002                | 0.054                      | 30                                  |

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 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                                |
| 556979       | 12         | 1            | 7      | 1.52             | BK               | 5.51       | 51             | 20.32              | 231              | 5.45                 | 6.57                 | 0.1772                     | 30                                 |

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.





## Stock Code Colors

| Size (Strand) | Color | Stock Number |
|---------------|-------|--------------|
| 14 (7)        | GN    | 578364       |
| 14 (7)        | WE    | 563253       |
| 14 (7)        | RD    | 646740       |
| 14 (7)        | BE    | 647607       |
| 14 (7)        | YW    | 566577       |
| 14 (7)        | BK    | 556978       |
| 12 (7)        | BK    | 556979       |
| 12 (7)        | BE    | 556600       |
| 12 (7)        | BN    | 556602       |
| 12 (7)        | GN    | 556980       |
| 12 (7)        | GY    | 556603       |
| 12 (7)        | OE    | 556601       |
| 12 (7)        | PE    | 556604       |
| 12 (7)        | RD    | 556981       |
| 12 (7)        | WE    | 556982       |
| 10 (Solid)    | WE    | 557932       |
| 10 (7)        | BK    | 556983       |
| 10 (7)        | BE    | 556987       |
| 10 (7)        | GN    | 556598       |
| 10 (7)        | RD    | 556986       |
| 10 (7)        | WE    | 556984       |
| 10 (7)        | YW    | 579338       |
| 8 (7)         | WE    | 556989       |
| 8 (7)         | GN    | 556991       |
| 8 (7)         | BK    | 556988       |
| 8 (7)         | RD    | 556990       |
| 8 (7)         | BE    | 556992       |
| 6 (7)         | BK    | 616682       |
| 6 (7)         | GN    | 604517       |
| 6 (7)         | RD    | 587595       |
| 6 (7)         | WE    | 604516       |
| 6 (7)         | WE    | 556995       |
| 6 (7)         | BK    | 556994       |
| 6 (7)         | BE    | 556998       |
| 6 (7)         | YW    | 643550       |
| 6 (7)         | RD    | 556996       |
| 6 (7)         | GN    | 556997       |
| 4 (7)         | BE    | 557003       |
| 4 (7)         | WE    | 557000       |
| 4 (7)         | RD    | 557001       |
| 4 (7)         | GN    | 557002       |
| 4 (7)         | BK    | 556999       |
| 3 (7)         | GN    | 137969       |
| 3 (7)         | BK    | 557004       |
| 3 (7)         | WE    | 641557       |





| Size (Strand) | Color | Stock Number |
|---------------|-------|--------------|
| 2 (7)         | BK    | 606619       |
| 2 (7)         | WE    | 557006       |
| 2 (7)         | GN    | 571898       |
| 2 (7)         | BK    | 557005       |
| 2 (7)         | RD    | 557007       |
| 2 (7)         | BE    | 556596       |
| 1 (19)        | BK    | 556378       |
| 1 (19)        | BK    | 137926       |
| 1/0 (19)      | BK    | 556379       |
| 1/0 (19)      | WE    | 557008       |
| 1/0 (19)      | BE    | 666074       |
| 1/0 (19)      | RD    | 666075       |
| 1/0 (19)      | BK    | 590651       |
| 1/0 (19)      | WE    | 669505       |
| 1/0 (19)      | GN    | 664805       |
| 2/0 (19)      | BK    | 556380       |
| 2/0 (19)      | GN    | 578090       |
| 2/0 (19)      | RD    | 668801       |
| 2/0 (19)      | WE    | 668800       |
| 2/0 (19)      | BK    | 590652       |
| 2/0 (19)      | GN    | 138905       |
| 2/0 (19)      | BE    | 668802       |
| 3/0 (19)      | BK    | 556382       |
| 3/0 (19)      | BE    | 593060       |
| 3/0 (19)      | WE    | 593058       |
| 3/0 (19)      | RD    | 593059       |
| 3/0 (19)      | BK    | 590653       |
| 4/0 (19)      | BK    | 556383       |
| 4/0 (19)      | GN    | 583440       |
| 4/0 (19)      | WE    | 557012       |
| 4/0 (19)      | RD    | 668805       |
| 4/0 (19)      | BE    | 668806       |
| 4/0 (19)      | WE    | 678382       |
| 4/0 (19)      | BK    | 590654       |
| 250 (37)      | BK    | 578307       |
| 250 (37)      | BK    | 590655       |
| 350 (37)      | BK    | 575227       |
| 350 (37)      | WE    | 590659       |
| 350 (37)      | BK    | 590656       |
| 350 (37)      | RD    | 590658       |
| 350 (37)      | BE    | 590657       |
| 500 (37)      | BK    | 577680       |
| 500 (37)      | RD    | 590662       |
| 500 (37)      | BK    | 590660       |
| 500 (37)      | WE    | 590663       |
| 500 (37)      | BE    | 590661       |
| 600 (61)      | BK    | 577681       |





| Size (Strand) | Color | Stock Number |
|---------------|-------|--------------|
| 600 (61)      | BK    | 592347       |
| 600 (61)      | BE    | 592350       |
| 600 (61)      | RD    | 592348       |
| 600 (61)      | WE    | 592349       |
| 750 (61)      | BK    | 577682       |
| 750 (61)      | BK    | 590664       |
| 1000 (61)     | BK    | 577683       |
| 1000 (61)     | BK    | 671492       |

