



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/ Kcmil | | No. | mil | | inch | lb/ 1000ft | inch | lb | Ω/1000ft | Ω/1000ft | Ω/1000ft | Amp |
| 590662◇ | 500 | 1 | 37 | 110 | RD | 0.998 | 1680 | 4.000 | 4000 | 0.022 | 0.029 | 0.039 | 430 |

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 |
| 590662◇ | 500 | 1 | 37 | 2.79 | RD | 25.35 | 2500 | 101.60 | 17800 | 0.07 | 0.10 | 0.1280 | 430 |

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 |

