



## BUILDING WIRE SPECIFICATIONS SIMpull® RW90

- SINGLE COPPER CONDUCTORS
- XLPE INSULATION

### APPLICATIONS

Southwire's SIMpull® RW90 is designed for use in open wiring exposed to the weather such as direct sunlight, wet or dry locations. Can be installed in raceways (except cabletroughs and ventilated flexible cableways). Approved for use on ceiling fixtures.

The minimum recommended installation temperature is -40°C (with suitable handling procedures). Maximum conductor temperature is 90°C.

SIMpull® RW90 conductors feature SIM Technology jackets which reduces the coefficient of friction, allowing cables to be installed without external lubricants, resulting in reduced labour and materials costs.

### CODES / STANDARDS

Southwire's SIMpull® RW90 cables meet or exceed the following requirements:

- CSA Standard C22.2 No. 38 File Listing: LL90458
- CSA FT4 flame test rating on 350 kcmil and larger
- Sunlight resistant in all colours No. 8 AWG and larger
- Lead Free and RoHS compliant

- 600 VOLTS / -40°C MIN, 90°C MAX
- SUNLIGHT RESISTANT

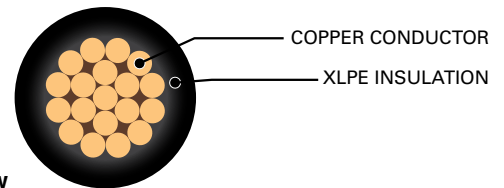
### SIMpull® RW90 CONSTRUCTION

Single copper conductor with low temperature, moisture resistant XLPE. Rated at 600 volts. No. 14, 12 and 10 AWG available in SIMpull® CoilPAKs or SIMpull WireBARRELS only. Standard sizes No. 8 AWG and larger are sunlight resistant and are marked "Sun Res" in all colours.

Standard colour is black. Select sizes may be available in white, red, blue, green, yellow, brown, orange or grey. Contact your Southwire sales representative for details on availability.



This product meets the current RoHS requirements and no lead is added or used in the manufacturing of this product.



End View

## SPECIFICATIONS

| Conductor         |                   | Insulation Thickness |      | Approximate Diameter |       | Approximate Weight |       | Allowable Ampacity Termination Equipment ** |      |         |                  |
|-------------------|-------------------|----------------------|------|----------------------|-------|--------------------|-------|---|------|---------|------------------|
| Size AWG or kcmil | Number of Strands | inches               | mm   | inches               | mm    | lb/1000ft          | kg/km | Open Air                                    |      | Conduit |                  |
|                   |                   |                      |      |                      |       |                    |       | 75°C  | 90°C | 75°C    | 90°C             |
| 14*               | 7                 | 0.030                | 0.76 | 0.131                | 3.33  | 17                 | 25    | 30  | 35   | 20      | 25               |
| 12*               | 7                 | 0.030                | 0.76 | 0.148                | 3.76  | 25                 | 37    | 35  | 40   | 25      | 30               |
| 10*               | 7                 | 0.030                | 0.76 | 0.173                | 4.39  | 38                 | 57    | 50  | 55   | 35      | 40               |
| 8                 | 7                 | 0.045                | 1.14 | 0.235                | 5.97  | 63                 | 94    | 70  | 80   | 50      | 55               |
| 6                 | 7                 | 0.045                | 1.14 | 0.271                | 6.88  | 96                 | 143   | 95  | 105  | 65      | 75               |
| 4                 | 7                 | 0.045                | 1.14 | 0.318                | 8.08  | 147                | 219   | 125   | 140  | 85      | 95               |
| 3                 | 7                 | 0.045                | 1.14 | 0.345                | 8.76  | 183                | 272   | 145   | 165  | 100     | 115              |
| 2                 | 7                 | 0.045                | 1.14 | 0.376                | 9.55  | 228                | 339   | 170   | 190  | 115     | 130              |
| 1                 | 19                | 0.055                | 1.40 | 0.435                | 11.05 | 288                | 429   | 195   | 220  | 130     | 145              |
| 1/0               | 19                | 0.055                | 1.40 | 0.475                | 12.07 | 359                | 534   | 230   | 260  | 150     | 170              |
| 2/0               | 19                | 0.055                | 1.40 | 0.518                | 13.16 | 447                | 665   | 265   | 300  | 175     | 195 <sup>†</sup> |
| 3/0               | 19                | 0.055                | 1.40 | 0.567                | 14.40 | 558                | 830   | 310   | 350  | 200     | 225              |
| 4/0               | 19                | 0.055                | 1.40 | 0.623                | 15.82 | 698                | 1039  | 360   | 405  | 230     | 260              |
| 250               | 37                | 0.065                | 1.65 | 0.691                | 17.55 | 827                | 1231  | 405   | 455  | 255     | 290              |
| 300               | 37                | 0.065                | 1.65 | 0.744                | 18.90 | 986                | 1467  | 445   | 500  | 285     | 320              |
| 350               | 37                | 0.065                | 1.65 | 0.794                | 20.17 | 1145               | 1704  | 505   | 570  | 310     | 350              |
| 400               | 37                | 0.065                | 1.65 | 0.839                | 21.31 | 1303               | 1939  | 545   | 615  | 335     | 380              |
| 500               | 37                | 0.065                | 1.65 | 0.923                | 23.44 | 1621               | 2412  | 620   | 700  | 380     | 430              |
| 600               | 61                | 0.080                | 2.03 | 1.029                | 26.14 | 1950               | 2901  | 690   | 780  | 420     | 475              |
| 750               | 61                | 0.080                | 2.03 | 1.131                | 28.73 | 2424               | 3607  | 785   | 885  | 475     | 535              |
| 1000              | 61                | 0.080                | 2.03 | 1.280                | 35.51 | 3211               | 4778  | 935   | 1055 | 545     | 615              |

\*See Rule 14-104 in the 2012 Canadian Electrical Code / \*\*Ampacities derived from the 2012 Canadian Electrical Code, Table 1 - For Open Air, Table 2 - for Cable in Conduit. Not more than 3 aluminum conductors in a raceway. Based on an ambient temperature of 30 °C and equipment termination temperature ratings of 75 °C and 90 °C / † For 3-wire 120V/240V and 120V/208V service conductors in single dwellings, see notes under CEC Table 2.- Allowable ampacity shall not be greater than 200 amps