



## CU 1000V SOLONONplus™ RWU90

Single Copper Conductors, LSZH Insulation, Sunlight Resistant, 1000V, 90°C MAX, -40°C MIN, Gasoline & Oil Resistant

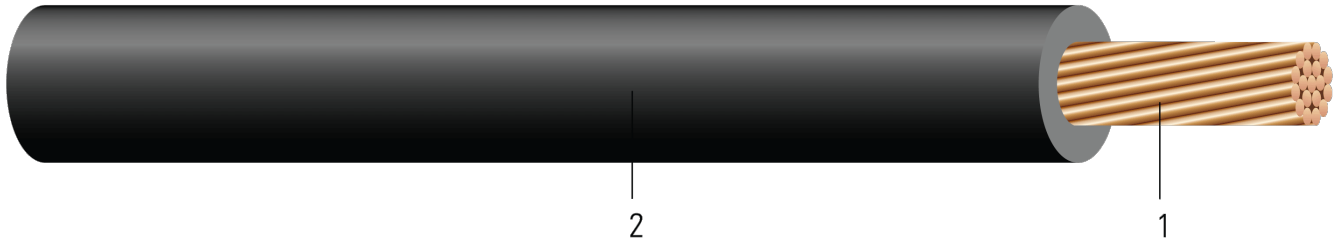


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Low Smoke Zero Halogen (LSZH), SOLONONplus™

### 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.

### 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 C22.2 No.230 Tray Cables - Rated TC
- CSA SUN RES - for Sunlight Resistant rating
- CSA ST1 Smoke Test - Marked FT4-ST1 (2 AWG and Larger)
- NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems (500kcmil & Larger)
- NFPA 502 Standard for Road Tunnels, Bridges, and Other Limited Access Highways (non-emergency circuits only)

### SAMPLE PRINT LEGEND:

SOUTHWIRE SOLONONplus{TM} LSZH 156205 {CSA} XXX KCMIL (XXX{mm2}) CU RWU90 1000V VW-1 HAL-FREE TC PRI  
PRII GRI GRII -40°C SR FT4 ST-1




**Table 1 – Weights and Measurements**

| Stock Number | 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                                 |
| TBA          | 14         | 7      | 60               | 0.190      | 25             | 0.7                | 33               | 2.631                | 3.170                | 0.058                      | 25                                  |
| TBA          | 12         | 7      | 60               | 0.217      | 34             | 0.8                | 52               | 1.662                | 2.002                | 0.054                      | 30                                  |
| TBA          | 10         | 7      | 60               | 0.239      | 48             | 0.9                | 83               | 1.040                | 1.253                | 0.050                      | 40                                  |
| TBA          | 6          | 7      | 80               | 0.346      | 110            | 1.3                | 210              | 0.411                | 1.253                | 0.051                      | 75                                  |
| TBA          | 2          | 7      | 80               | 0.451      | 247            | 1.8                | 531              | 0.162                | 0.195                | 0.045                      | 130                                 |
| TBA          | 1          | 19     | 95               | 0.522      | 313            | 2.0                | 670              | 0.128                | 0.154                | 0.046                      | 145                                 |
| TBA          | 1/0        | 19     | 95               | 0.552      | 383            | 2.2                | 845              | 0.102                | 0.122                | 0.044                      | 170                                 |
| TBA          | 2/0        | 19     | 95               | 0.596      | 480            | 2.3                | 1065             | 0.081                | 0.097                | 0.043                      | 195                                 |
| TBA          | 3/0        | 19     | 95               | 0.654      | 591            | 2.6                | 1342             | 0.064                | 0.078                | 0.042                      | 225                                 |
| TBA          | 4/0        | 19     | 95               | 0.710      | 744            | 2.8                | 1693             | 0.051                | 0.062                | 0.041                      | 260                                 |
| TBA          | 250        | 37     | 110              | 0.778      | 867            | 3.1                | 2000             | 0.043                | 0.053                | 0.041                      | 290                                 |
| TBA          | 350        | 37     | 110              | 0.881      | 1191           | 3.5                | 2800             | 0.031                | 0.039                | 0.040                      | 350                                 |
| TBA          | 500        | 37     | 110              | 1.009      | 1673           | 5.0                | 4000             | 0.022                | 0.029                | 0.039                      | 430                                 |
| TBA          | 600        | 62     | 125              | 1.130      | 2019           | 5.6                | 4800             | 0.018                | 0.025                | 0.039                      | 475                                 |
| TBA          | 750        | 61     | 125              | 1.218      | 2489           | 6.0                | 6000             | 0.014                | 0.022                | 0.038                      | 535                                 |
| TBA          | 1000       | 62     | 125              | 1.367      | 3285           | 6.8                | 8000             | 0.011                | 0.019                | 0.037                      | 615                                 |

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 | 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                                |
| TBA          | 14         | 7      | 1.52             | 4.83       | 37             | 17.78              | 147              | 8.63                 | 10.40                | 0.1903                     | 25                                 |
| TBA          | 12         | 7      | 1.52             | 5.51       | 51             | 20.32              | 231              | 5.45                 | 6.57                 | 0.1772                     | 30                                 |
| TBA          | 10         | 7      | 1.52             | 6.07       | 71             | 22.86              | 369              | 3.41                 | 4.11                 | 0.1640                     | 40                                 |
| TBA          | 6          | 7      | 2.03             | 8.79       | 164            | 33.02              | 935              | 1.35                 | 4.11                 | 0.1673                     | 75                                 |
| TBA          | 2          | 7      | 2.03             | 11.46      | 368            | 45.72              | 2363             | 0.53                 | 0.64                 | 0.1476                     | 130                                |
| TBA          | 1          | 19     | 2.41             | 13.26      | 466            | 50.80              | 2982             | 0.42                 | 0.51                 | 0.1509                     | 145                                |
| TBA          | 1/0        | 19     | 2.41             | 14.02      | 570            | 55.88              | 3760             | 0.33                 | 0.40                 | 0.1444                     | 170                                |
| TBA          | 2/0        | 19     | 2.41             | 15.14      | 714            | 58.42              | 4739             | 0.27                 | 0.32                 | 0.1411                     | 195                                |
| TBA          | 3/0        | 19     | 2.41             | 16.61      | 880            | 66.04              | 5972             | 0.21                 | 0.26                 | 0.1378                     | 225                                |
| TBA          | 4/0        | 19     | 2.41             | 18.03      | 1107           | 71.12              | 7534             | 0.17                 | 0.20                 | 0.1345                     | 260                                |
| TBA          | 250        | 37     | 2.79             | 19.76      | 1290           | 78.74              | 8900             | 0.14                 | 0.17                 | 0.1345                     | 290                                |
| TBA          | 350        | 37     | 2.79             | 22.38      | 1772           | 88.90              | 12460            | 0.10                 | 0.13                 | 0.1312                     | 350                                |
| TBA          | 500        | 37     | 2.79             | 25.63      | 2490           | 127.00             | 17800            | 0.07                 | 0.10                 | 0.1280                     | 430                                |
| TBA          | 600        | 62     | 3.18             | 28.70      | 3005           | 142.24             | 21360            | 0.06                 | 0.08                 | 0.1280                     | 475                                |
| TBA          | 750        | 61     | 3.18             | 30.94      | 3704           | 152.40             | 26700            | 0.05                 | 0.07                 | 0.1247                     | 535                                |
| TBA          | 1000       | 62     | 3.18             | 34.72      | 4889           | 172.72             | 35600            | 0.04                 | 0.06                 | 0.1214                     | 615                                |

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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)

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