



# 600V ROYAL® SOOW Cord Control with Black Jacket 90°C. MSHA Approved

600 Volt 90°C Flexible Cord. Heat, Moisture and Oil Resistant EPDM Rubber Insulation, Heat, Moisture and Oil Resistant Flexible CPE Jacket



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class K stranded bare copper per ASTM B-174
2. **Insulation:** Heat, moisture and oil resistant EPDM
3. **Filler:** Waxed paper fillers, with a tissue-paper separator wrapped around the assembly
4. **Jacket:** Black CPE (Other colors available upon request)

## APPLICATIONS AND FEATURES:

Southwire Type SOOW Flexible Cords UL/ CSA listed are permitted for use as specified by Article 400 and related articles of the 2014 National Electrical Code. The cable is rated -40°C to 90°C, water, oil, and weather resistant. Southwire Type SOOW Flexible Cords are designed for extra hard usage on industrial equipment, heavy tools, battery chargers, portable lights, welding leads, marine dockside power, power extensions and mining applications.

## SPECIFICATIONS:

- UL 62 Flexible Cords and Cables
- CSA C22.2 No. 49 Flexible Cords and Cables
- MSHA flame test - P07-KA070018-1MSHA
- Passes CSA FT2 Flame Test
- RoHS-3 Complies with European Directive 2015/863
- NEC Article 400 Flexible Cords, Cables and Fixture Wire
- NEC Article 501.140 Class I Division 2
- Federal Specification J-C-580B

## SAMPLE PRINT LEGEND:

SOUTHWIRE® ROYAL® CORD XX/C XX AWG ({mm<sup>2</sup>}) SOOW E46194 {UL} 600V -40°C TO 90°C -- {CSA} LL90458 SOOW 600V -40°C TO 90°C FT2 WATER RESISTANT {NOM}-ANCE -- {MSHA}

## PACKAGING:

Standard lengths: 250', 500' and 1,000' reels. Other lengths available upon request.





**Table 1 – Weights and Measurements**

| Stock Number | CCI Part # | Cond. Size    | Cond. Number | Cond. Strands | Insul. Thickness | Jacket Thickness | Approx. OD | Approx. Weight | Ampacity | Insul. Color                      | Jacket Color |
|--------------|------------|---------------|--------------|---------------|------------------|------------------|------------|----------------|----------|-----------------------------------|--------------|
|              |            | AWG/<br>Kcmil | No.          | No.           | mil              | mil              | inch       | lb/1000ft      | Amp      |                                   |              |
| 558236       | 830605     | 18            | 6            | 16            | 30               | 85               | 0.488      | 137            | 5        | BK,WE,RD,GN,OE,BE                 | BK           |
| 558237       | 830705     | 18            | 7            | 16            | 30               | 80               | 0.488      | 138            | 4        | BK,WE,RD,GN,OE,BE,WE/BK           | BK           |
| 558238       | 830805     | 18            | 8            | 16            | 30               | 85               | 0.521      | 162            | 4        | BK,BE,OE,GN,RD,WE,RD/<br>BK,WE/BK | BK           |
| 570034       | 831005     | 18            | 10           | 16            | 30               | 90               | 0.596      | 200            | 3        | See Table                         | BK           |
| 570037       | 831205     | 18            | 12           | 16            | 30               | 90               | 0.617      | 226            | 3        | See Table                         | BK           |
| 598302       | 831405     | 18            | 14           | 16            | 30               | 90               | 0.640      | 253            | 3        | See Table                         | BK           |
| 570039       | 831605     | 18            | 16           | 16            | 30               | 100              | 0.668      | 282            | 3        | See Table                         | BK           |
| 570042       | 832005     | 18            | 20           | 16            | 30               | 95               | 0.739      | 330            | 3        | See Table                         | BK           |
| 570043       | 832405     | 18            | 24           | 16            | 30               | 110              | 0.830      | 409            | 3        | See Table                         | BK           |
| 571692       | 833005     | 18            | 30           | 16            | 30               | 100              | 0.868      | 456            | 3        | See Table                         | BK           |
| 558232       | 830606     | 16            | 6            | 26            | 30               | 90               | 0.516      | 168            | 8        | BK,WE,RD,GN,OE,BE                 | BK           |
| 558233       | 830706     | 16            | 7            | 26            | 30               | 90               | 0.564      | 201            | 7        | BK,WE,RD,GN,OE,BE,WE/BK           | BK           |
| 558234       | 830806     | 16            | 8            | 26            | 30               | 90               | 0.566      | 207            | 7        | BK,WE,RD,GN,OE,BE,WE/<br>BK,RD/BK | BK           |
| 560526       | 831006     | 16            | 10           | 26            | 30               | 90               | 0.648      | 271            | 5        | See Table                         | BK           |
| 560527       | 831206     | 16            | 12           | 26            | 30               | 105              | 0.696      | 324            | 5        | See Table                         | BK           |
| 598305       | 831406     | 16            | 14           | 26            | 30               | 110              | 0.727      | 337            | 5        | See Table                         | BK           |
| 570018       | 832006     | 16            | 20           | 26            | 30               | 95               | 0.745      | 396            | 5        | See Table                         | BK           |
| 560528       | 831606     | 16            | 16           | 26            | 30               | 110              | 0.778      | 373            | 5        | See Table                         | BK           |
| 570019       | 832406     | 16            | 24           | 26            | 30               | 110              | 0.919      | 507            | 4        | See Table                         | BK           |
| 570026       | 833006     | 16            | 30           | 26            | 30               | 130              | 0.982      | 647            | 4        | See Table                         | BK           |
| 558149       | 830607     | 14            | 6            | 41            | 45               | 105              | 0.664      | 323            | 12       | BK,WE,RD,GN,OE,BE                 | BK           |
| 558150       | 830707     | 14            | 7            | 41            | 45               | 95               | 0.712      | 312            | 10       | BK,WE,RD,GN,OE,BE,WE/BK           | BK           |
| 558230       | 830807     | 14            | 8            | 41            | 45               | 115              | 0.730      | 346            | 10       | BK,WE,RD,GN,OE,BE,WE/<br>BK,RD/BK | BK           |
| 569994       | 831007     | 14            | 10           | 41            | 45               | 110              | 0.770      | 404            | 7        | See Table                         | BK           |
| 571270       | 831207     | 14            | 12           | 41            | 45               | 110              | 0.883      | 471            | 7        | See Table                         | BK           |
| 569995       | 831407     | 14            | 14           | 41            | 45               | 130              | 0.980      | 602            | 7        | See Table                         | BK           |
| 569997       | 831607     | 14            | 16           | 41            | 45               | 130              | 1.016      | 642            | 7        | See Table                         | BK           |
| 569999       | 832407     | 14            | 24           | 41            | 45               | 135              | 1.175      | 880            | 6        | See Table                         | BK           |
| 570004       | 833007     | 14            | 30           | 41            | 45               | 125              | 1.338      | 1047           | 6        | See Table                         | BK           |
| 558144       | 830608     | 12            | 6            | 65            | 45               | 110              | 0.740      | 379            | 16       | BK,WE,RD,GN,OE,BE                 | BK           |
| 558145       | 830708     | 12            | 7            | 65            | 45               | 95               | 0.740      | 353            | 14       | BK,WE/BK,BE,OE,GN,RD,WE           | BK           |
| 558146       | 830808     | 12            | 8            | 65            | 45               | 110              | 0.796      | 429            | 14       | BK,WE,RD,GN,OE,BE,WE/<br>BK,RD/BK | BK           |
| 571397       | 830908     | 12            | 9            | 65            | 45               | 110              | 0.852      | 483            | 14       | See Table                         | BK           |
| 569981       | 831008     | 12            | 10           | 65            | 45               | 100              | 0.894      | 500            | 10       | See Table                         | BK           |
| 569982       | 831208     | 12            | 12           | 65            | 45               | 130              | 1.029      | 639            | 10       | See Table                         | BK           |
| 598307       | 831408     | 12            | 14           | 65            | 45               | 130              | 1.035      | 704            | 10       | See Table                         | BK           |
| 569983       | 832008     | 12            | 20           | 65            | 45               | 115              | 1.200      | 939            | 10       | See Table                         | BK           |





| Stock Number | CCI Part # | Cond. Size    | Cond. Number | Cond. Strands | Insul. Thickness | Jacket Thickness | Approx. OD | Approx. Weight | Ampacity | Insul. Color            | Jacket Color |
|--------------|------------|---------------|--------------|---------------|------------------|------------------|------------|----------------|----------|-------------------------|--------------|
|              |            | AWG/<br>Kcmil | No.          | No.           | mil              | mil              | inch       | lb/1000ft      | Amp      |                         |              |
| 569987       | 833708     | 12            | 37           | 65            | 45               | 130              | 1.536      | 1560           | 8        | See Table               | BK           |
| 569979       | 830609     | 10            | 6            | 104           | 45               | 110              | 0.830      | 483            | 20       | BK,WE,RD,GN,OE,BE       | BK           |
| 569980       | 830709     | 10            | 7            | 104           | 45               | 115              | 0.840      | 516            | 17       | BK,WE/BK,BE,OE,GN,RD,WE | BK           |
| 595662       | 831009     | 10            | 10           | 104           | 45               | 130              | 1.029      | 735            | 12       | See Table               | BK           |
| 570006       | 831209     | 10            | 12           | 104           | 45               | 130              | 1.067      | 849            | 12       | See Table               | BK           |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

\* Ampacities are based on TABLE 400.5(A)(1) of the 2023 National Electrical Code and CEC Table 12.





**Table 2 – Weights and Measurements (Metric)**

| Stock Number | CCI Part # | Cond. Size    | Cond. Number | Cond. Strands | Insul. Thickness | Jacket Thickness | Approx. OD | Approx. Weight | Ampacity * | Insul. Color                      | Jacket Color |
|--------------|------------|---------------|--------------|---------------|------------------|------------------|------------|----------------|------------|-----------------------------------|--------------|
|              |            | AWG/<br>Kcmil | No.          | No.           | mm               | mm               | mm         | kg/km          | Amp        |                                   |              |
| 558236       | 830605     | 18            | 6            | 16            | 0.76             | 2.16             | 12.40      | 204            | 5          | BK,WE,RD,GN,OE,BE                 | BK           |
| 558237       | 830705     | 18            | 7            | 16            | 0.76             | 2.03             | 12.40      | 205            | 4          | BK,WE,RD,GN,OE,BE,WE/BK           | BK           |
| 558238       | 830805     | 18            | 8            | 16            | 0.76             | 2.16             | 13.23      | 241            | 4          | BK,BE,OE,GN,RD,WE,RD/<br>BK,WE/BK | BK           |
| 570034       | 831005     | 18            | 10           | 16            | 0.76             | 2.29             | 15.14      | 298            | 3          | See Table                         | BK           |
| 570037       | 831205     | 18            | 12           | 16            | 0.76             | 2.29             | 15.67      | 336            | 3          | See Table                         | BK           |
| 598302       | 831405     | 18            | 14           | 16            | 0.76             | 2.29             | 16.26      | 377            | 3          | See Table                         | BK           |
| 570039       | 831605     | 18            | 16           | 16            | 0.76             | 2.54             | 16.97      | 420            | 3          | See Table                         | BK           |
| 570042       | 832005     | 18            | 20           | 16            | 0.76             | 2.41             | 18.77      | 491            | 3          | See Table                         | BK           |
| 570043       | 832405     | 18            | 24           | 16            | 0.76             | 2.79             | 21.08      | 609            | 3          | See Table                         | BK           |
| 571692       | 833005     | 18            | 30           | 16            | 0.76             | 2.54             | 22.05      | 679            | 3          | See Table                         | BK           |
| 558232       | 830606     | 16            | 6            | 26            | 0.76             | 2.29             | 13.11      | 250            | 8          | BK,WE,RD,GN,OE,BE                 | BK           |
| 558233       | 830706     | 16            | 7            | 26            | 0.76             | 2.29             | 14.33      | 299            | 7          | BK,WE,RD,GN,OE,BE,WE/BK           | BK           |
| 558234       | 830806     | 16            | 8            | 26            | 0.76             | 2.29             | 14.38      | 308            | 7          | BK,WE,RD,GN,OE,BE,WE/<br>BK,RD/BK | BK           |
| 560526       | 831006     | 16            | 10           | 26            | 0.76             | 2.29             | 16.46      | 403            | 5          | See Table                         | BK           |
| 560527       | 831206     | 16            | 12           | 26            | 0.76             | 2.67             | 17.68      | 482            | 5          | See Table                         | BK           |
| 598305       | 831406     | 16            | 14           | 26            | 0.76             | 2.79             | 18.47      | 502            | 5          | See Table                         | BK           |
| 570018       | 832006     | 16            | 20           | 26            | 0.76             | 2.41             | 18.92      | 589            | 5          | See Table                         | BK           |
| 560528       | 831606     | 16            | 16           | 26            | 0.76             | 2.79             | 19.76      | 555            | 5          | See Table                         | BK           |
| 570019       | 832406     | 16            | 24           | 26            | 0.76             | 2.79             | 23.34      | 754            | 4          | See Table                         | BK           |
| 570026       | 833006     | 16            | 30           | 26            | 0.76             | 3.30             | 24.94      | 963            | 4          | See Table                         | BK           |
| 558149       | 830607     | 14            | 6            | 41            | 1.14             | 2.67             | 16.87      | 481            | 12         | BK,WE,RD,GN,OE,BE                 | BK           |
| 558150       | 830707     | 14            | 7            | 41            | 1.14             | 2.41             | 18.08      | 464            | 10         | BK,WE,RD,GN,OE,BE,WE/BK           | BK           |
| 558230       | 830807     | 14            | 8            | 41            | 1.14             | 2.92             | 18.54      | 515            | 10         | BK,WE,RD,GN,OE,BE,WE/<br>BK,RD/BK | BK           |
| 569994       | 831007     | 14            | 10           | 41            | 1.14             | 2.79             | 19.56      | 601            | 7          | See Table                         | BK           |
| 571270       | 831207     | 14            | 12           | 41            | 1.14             | 2.79             | 22.43      | 701            | 7          | See Table                         | BK           |
| 569995       | 831407     | 14            | 14           | 41            | 1.14             | 3.30             | 24.89      | 896            | 7          | See Table                         | BK           |
| 569997       | 831607     | 14            | 16           | 41            | 1.14             | 3.30             | 25.81      | 955            | 7          | See Table                         | BK           |
| 569999       | 832407     | 14            | 24           | 41            | 1.14             | 3.43             | 29.85      | 1310           | 6          | See Table                         | BK           |
| 570004       | 833007     | 14            | 30           | 41            | 1.14             | 3.18             | 33.99      | 1558           | 6          | See Table                         | BK           |
| 558144       | 830608     | 12            | 6            | 65            | 1.14             | 2.79             | 18.80      | 564            | 16         | BK,WE,RD,GN,OE,BE                 | BK           |
| 558145       | 830708     | 12            | 7            | 65            | 1.14             | 2.41             | 18.80      | 525            | 14         | BK,WE/BK,BE,OE,GN,RD,WE           | BK           |
| 558146       | 830808     | 12            | 8            | 65            | 1.14             | 2.79             | 20.22      | 638            | 14         | BK,WE,RD,GN,OE,BE,WE/<br>BK,RD/BK | BK           |
| 571397       | 830908     | 12            | 9            | 65            | 1.14             | 2.79             | 21.64      | 719            | 14         | See Table                         | BK           |
| 569981       | 831008     | 12            | 10           | 65            | 1.14             | 2.54             | 22.71      | 744            | 10         | See Table                         | BK           |
| 569982       | 831208     | 12            | 12           | 65            | 1.14             | 3.30             | 26.14      | 951            | 10         | See Table                         | BK           |
| 598307       | 831408     | 12            | 14           | 65            | 1.14             | 3.30             | 26.29      | 1048           | 10         | See Table                         | BK           |
| 569983       | 832008     | 12            | 20           | 65            | 1.14             | 2.92             | 30.48      | 1397           | 10         | See Table                         | BK           |





| Stock Number | CCI Part # | Cond. Size    | Cond. Number | Cond. Strands | Insul. Thickness | Jacket Thickness | Approx. OD | Approx. Weight | Ampacity * | Insul. Color            | Jacket Color |
|--------------|------------|---------------|--------------|---------------|------------------|------------------|------------|----------------|------------|-------------------------|--------------|
|              |            | AWG/<br>Kcmil | No.          | No.           | mm               | mm               | mm         | kg/km          | Amp        |                         |              |
| 569987       | 833708     | 12            | 37           | 65            | 1.14             | 3.30             | 39.01      | 2322           | 8          | See Table               | BK           |
| 569979       | 830609     | 10            | 6            | 104           | 1.14             | 2.79             | 21.08      | 719            | 20         | BK,WE,RD,GN,OE,BE       | BK           |
| 569980       | 830709     | 10            | 7            | 104           | 1.14             | 2.92             | 21.34      | 768            | 17         | BK,WE/BK,BE,OE,GN,RD,WE | BK           |
| 595662       | 831009     | 10            | 10           | 104           | 1.14             | 3.30             | 26.14      | 1094           | 12         | See Table               | BK           |
| 570006       | 831209     | 10            | 12           | 104           | 1.14             | 3.30             | 27.10      | 1263           | 12         | See Table               | BK           |

\* Ampacities are based on TABLE 400.5(A)(1) of the 2023 National Electrical Code and CEC Table 12.

**Color Code**

| # of Conductor | Color Sequence | Tracer | # of Conductor | Color Sequence | Tracer       |
|----------------|----------------|--------|----------------|----------------|--------------|
| 1              | Black          |        | 21             | Orange         | Green        |
| 2              | White          |        | 22             | Black          | White/Red    |
| 3              | Red            |        | 23             | White          | Black/Red    |
| 4              | Green          |        | 24             | Red            | Black/White  |
| 5              | Orange         |        | 25             | Green          | Black/White  |
| 6              | Blue           |        | 26             | Orange         | Black/White  |
| 7              | White          | Black  | 27             | Blue           | Black/White  |
| 8              | Red            | Black  | 28             | Black          | Red/Green    |
| 9              | Green          | Black  | 29             | White          | Red/Green    |
| 10             | Orange         | Black  | 30             | Red            | Black/Green  |
| 11             | Blue           | Black  | 31             | Green          | Black/Orange |
| 12             | Black          | White  | 32             | Orange         | Black/Green  |
| 13             | Red            | White  | 33             | Blue           | White/Orange |
| 14             | Green          | White  | 34             | Black          | White/Orange |
| 15             | Blue           | White  | 35             | White          | Red/Orange   |
| 16             | Black          | Red    | 36             | Orange         | White/Blue   |
| 17             | White          | Red    | 37             | White          | Red/Blue     |
| 18             | Orange         | Red    | 38             | Black          | White/Green  |
| 19             | Blue           | Red    | 39             | White          | Black/Green  |
| 20             | Red            | Green  | 40             | Red            | White/Green  |

