

600V ROYAL® SOOW Cord Control with Black Jacket 90°C. Silicone-Free

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

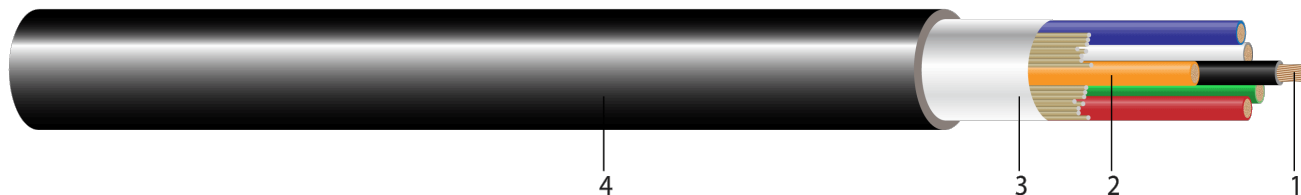


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class K stranded bare copper per ASTM B-174
- Insulation:** Heat, moisture and oil resistant EPDM
- Filler:** Waxed paper fillers, with a tissue-paper separator wrapped around the assembly
- 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-2 (European Directive 2011/65/EU)
- 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{R} ROYAL{R} CORD XX/C XX AWG ({mm²}) SOOW E46194 MASTER-DESIGN {UL} 600V -40{D}C TO 90{D}C -- {CSA} LL90458 SOOW 600V -40{D}C TO 90{D}C FT2 WATER RESISTANT {NOM}-ANCE -- {MSHA}

PACKAGING:

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



Southwire



Services

Table 1 – Weights and Measurements

| Stock Number | CCI Part # | Cond. Size | Cond. Number | Cond. Strands | Insul. Thickness | Approx. OD | Approx. Weight | Ampacity * | DC Resistance |
|--------------|------------|------------|--------------|---------------|------------------|------------|----------------|------------|---------------|
| | | AWG/Kcmil | Count | # x AWG | mil | inch | lb/1000ft | Amp | Ω/1000ft |
| 558235 | 830505 | 18 | 5 | 16/30 | 30 | 0.47 | 116 | 5.5 | 6.59 |
| 558236 | 830605 | 18 | 6 | 16/30 | 30 | 0.49 | 132 | 5.5 | 6.59 |
| 558237 | 830705 | 18 | 7 | 16/30 | 30 | 0.49 | 159 | 4.5 | 6.59 |
| 558238 | 830805 | 18 | 8 | 16/30 | 30 | 0.52 | 175 | 4.5 | 6.59 |
| 570034 | 831005 | 18 | 10 | 16/30 | 30 | 0.6 | 206 | 3.5 | 6.59 |
| 570037 | 831205 | 18 | 12 | 16/30 | 30 | 0.61 | 231 | 3.5 | 6.59 |
| 598302 | 831405 | 18 | 14 | 16/30 | 30 | 0.64 | 241 | 3.5 | 6.59 |
| 570039 | 831605 | 18 | 16 | 16/30 | 30 | 0.67 | 284 | 3.5 | 6.59 |
| 570042 | 832005 | 18 | 20 | 16/30 | 30 | 0.74 | 347 | 3.5 | 6.59 |
| 570043 | 832405 | 18 | 24 | 16/30 | 30 | 0.83 | 383 | 3 | 6.59 |
| 571692 | 833005 | 18 | 30 | 16/30 | 30 | 0.87 | 453 | 3 | 6.59 |
| TBA | 833705 | 18 | 37 | 16/30 | 30 | 0.98 | 570 | 2.5 | 6.59 |
| 558232 | 830606 | 16 | 6 | 26/30 | 30 | 0.49 | 171 | 8 | 4.05 |
| 558231 | 830506 | 16 | 5 | 26/30 | 30 | 0.5 | 143 | 8 | 4.05 |
| 558234 | 830806 | 16 | 8 | 26/30 | 30 | 0.51 | 201 | 7 | 4.05 |
| 558233 | 830706 | 16 | 7 | 26/30 | 30 | 0.56 | 180 | 7 | 4.05 |
| 560526 | 831006 | 16 | 10 | 26/30 | 30 | 0.65 | 251 | 5 | 4.05 |
| 560527 | 831206 | 16 | 12 | 26/30 | 30 | 0.7 | 299 | 5 | 4.05 |
| 598305 | 831406 | 16 | 14 | 26/30 | 30 | 0.73 | 342 | 5 | 4.05 |
| 560528 | 831606 | 16 | 16 | 26/30 | 30 | 0.76 | 367 | 5 | 4.05 |
| 570018 | 832006 | 16 | 20 | 26/30 | 30 | 0.78 | 414 | 5 | 4.05 |
| 570019 | 832406 | 16 | 24 | 26/30 | 30 | 0.92 | 490 | 4.5 | 4.05 |
| 570026 | 833006 | 16 | 30 | 26/30 | 30 | 0.98 | 613 | 4.5 | 4.05 |
| 598314 | 833706 | 16 | 37 | 26/30 | 30 | 1.05 | 719 | 4 | 4.05 |
| TBA | 834006 | 16 | 40 | 26/30 | 30 | 1.09 | 787 | 4 | 4.05 |
| 558147 | 830507 | 14 | 5 | 41/30 | 50 | 0.655 | 255 | 12 | 2.55 |
| 558149 | 830607 | 14 | 6 | 41/30 | 50 | 0.664 | 323 | 12 | 2.55 |
| 558150 | 830707 | 14 | 7 | 41/30 | 50 | 0.71 | 278 | 10 | 2.55 |
| 558230 | 830807 | 14 | 8 | 41/30 | 50 | 0.73 | 341 | 10 | 2.55 |
| 569994 | 831007 | 14 | 10 | 41/30 | 50 | 0.77 | 410 | 7 | 2.55 |
| 571270 | 831207 | 14 | 12 | 41/30 | 50 | 0.88 | 482 | 7 | 2.55 |
| 569995 | 831407 | 14 | 14 | 41/30 | 50 | 0.98 | 489 | 7 | 2.55 |
| 569997 | 831607 | 14 | 16 | 41/30 | 50 | 1 | 628 | 7 | 2.55 |
| 569998 | 832007 | 14 | 20 | 41/30 | 50 | 1.11 | 782 | 7 | 2.55 |
| 569999 | 832407 | 14 | 24 | 41/30 | 50 | 1.17 | 810 | 6 | 2.55 |
| 598306 | 833707 | 14 | 37 | 41/30 | 50 | 1.3 | 1203 | 6 | 2.55 |
| 570004 | 833007 | 14 | 30 | 41/30 | 50 | 1.34 | 997 | 6 | 2.55 |
| TBA | 834007 | 14 | 40 | 41/30 | 50 | 1.47 | 1675 | 6 | 2.55 |
| 558104 | 830508 | 12 | 5 | 65/30 | 50 | 0.71 | 338 | 16 | 1.61 |
| 558144 | 830608 | 12 | 6 | 65/30 | 50 | 0.74 | 351 | 16 | 1.61 |
| 558145 | 830708 | 12 | 7 | 65/30 | 50 | 0.75 | 372 | 14 | 1.61 |



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Services

| Stock Number | CCI Part # | Cond. Size AWG/Kcmil | Cond. Number Count | Cond. Strands # x AWG | Insul. Thickness mil | Approx. OD inch | Approx. Weight lb/1000ft | Ampacity * Amp | DC Resistance Ω/1000ft |
|--------------|------------|-------------------------|-----------------------|--------------------------|-------------------------|--------------------|-----------------------------|-------------------|---------------------------|
| 558146 | 830808 | 12 | 8 | 65/30 | 50 | 0.8 | 418 | 14 | 1.61 |
| 571397 | 830908 | 12 | 9 | 65/30 | 50 | 0.85 | 541 | 14 | 1.61 |
| 569981 | 831008 | 12 | 10 | 65/30 | 50 | 0.93 | 585 | 10 | 1.61 |
| 569982 | 831208 | 12 | 12 | 65/30 | 50 | 0.99 | 690 | 10 | 1.61 |
| 598307 | 831408 | 12 | 14 | 65/30 | 50 | 1.04 | 728 | 10 | 1.61 |
| 598308 | 831608 | 12 | 16 | 65/30 | 50 | 1.09 | 762 | 10 | 1.61 |
| 569983 | 832008 | 12 | 20 | 65/30 | 50 | 1.2 | 922 | 10 | 1.61 |
| 531718 | 832408 | 12 | 24 | 65/30 | 50 | 1.32 | 1133 | 9 | 1.61 |
| TBA | 833008 | 12 | 30 | 65/30 | 50 | 1.42 | 1326 | 9 | 1.61 |
| 569987 | 833708 | 12 | 37 | 65/30 | 50 | 1.51 | 1562 | 8 | 1.61 |
| 558103 | 830509 | 10 | 5 | 104/30 | 50 | 0.77 | 440 | 20 | 0.98 |
| 569979 | 830609 | 10 | 6 | 104/30 | 50 | 0.81 | 466 | 20 | 0.98 |
| 569980 | 830709 | 10 | 7 | 104/30 | 50 | 0.84 | 520 | 17 | 0.98 |
| TBA | 830809 | 10 | 8 | 104/30 | 50 | 0.87 | 536 | 17 | 0.98 |
| 595662 | 831009 | 10 | 10 | 104/30 | 50 | 1.03 | 735 | 12 | 0.98 |
| 570006 | 831209 | 10 | 12 | 104/30 | 50 | 1.07 | 801 | 12 | 0.98 |
| TBA | 831409 | 10 | 14 | 104/30 | 50 | 1.12 | 918 | 12 | 0.98 |
| TBA | 831609 | 10 | 16 | 104/30 | 50 | 1.18 | 1035 | 12 | 0.98 |
| TBA | 832009 | 10 | 20 | 104/30 | 50 | 1.33 | 1258 | 12 | 0.98 |
| TBA | 832409 | 10 | 24 | 104/30 | 50 | 1.48 | 1514 | 11 | 0.98 |
| TBA | 833009 | 10 | 30 | 104/30 | 50 | 1.56 | 1822 | 11 | 0.98 |
| TBA | 833709 | 10 | 37 | 104/30 | 50 | 1.68 | 2181 | 10 | 0.98 |

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) of the 2014 National Electrical Code and CEC Table 12.



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Services

Table 2 – Weights and Measurements (Metric)

| Stock Number | CCI Part # | Cond. Size | Cond. Number | Cond. Strands | Insul. Thickness | Approx. OD | Approx. Weight | Ampacity * | DC Resistance |
|--------------|------------|------------|--------------|---------------|------------------|------------|----------------|------------|---------------|
| | | AWG/Kcmil | Count | # x AWG | mm | mm | kg/km | Amp | Ω/km |
| 558235 | 830505 | 18 | 5 | 16/30 | 0.76 | 11.94 | 173 | 5.5 | 21.62 |
| 558236 | 830605 | 18 | 6 | 16/30 | 0.76 | 12.45 | 196 | 5.5 | 21.62 |
| 558237 | 830705 | 18 | 7 | 16/30 | 0.76 | 12.45 | 237 | 4.5 | 21.62 |
| 558238 | 830805 | 18 | 8 | 16/30 | 0.76 | 13.21 | 260 | 4.5 | 21.62 |
| 570034 | 831005 | 18 | 10 | 16/30 | 0.76 | 15.24 | 307 | 3.5 | 21.62 |
| 570037 | 831205 | 18 | 12 | 16/30 | 0.76 | 15.49 | 344 | 3.5 | 21.62 |
| 598302 | 831405 | 18 | 14 | 16/30 | 0.76 | 16.26 | 359 | 3.5 | 21.62 |
| 570039 | 831605 | 18 | 16 | 16/30 | 0.76 | 17.02 | 423 | 3.5 | 21.62 |
| 570042 | 832005 | 18 | 20 | 16/30 | 0.76 | 18.80 | 516 | 3.5 | 21.62 |
| 570043 | 832405 | 18 | 24 | 16/30 | 0.76 | 21.08 | 570 | 3 | 21.62 |
| 571692 | 833005 | 18 | 30 | 16/30 | 0.76 | 22.10 | 674 | 3 | 21.62 |
| TBA | 833705 | 18 | 37 | 16/30 | 0.76 | 24.89 | 848 | 2.5 | 21.62 |
| 558232 | 830606 | 16 | 6 | 26/30 | 0.76 | 12.45 | 254 | 8 | 13.29 |
| 558231 | 830506 | 16 | 5 | 26/30 | 0.76 | 12.70 | 213 | 8 | 13.29 |
| 558234 | 830806 | 16 | 8 | 26/30 | 0.76 | 12.95 | 299 | 7 | 13.29 |
| 558233 | 830706 | 16 | 7 | 26/30 | 0.76 | 14.22 | 268 | 7 | 13.29 |
| 560526 | 831006 | 16 | 10 | 26/30 | 0.76 | 16.51 | 374 | 5 | 13.29 |
| 560527 | 831206 | 16 | 12 | 26/30 | 0.76 | 17.78 | 445 | 5 | 13.29 |
| 598305 | 831406 | 16 | 14 | 26/30 | 0.76 | 18.54 | 509 | 5 | 13.29 |
| 560528 | 831606 | 16 | 16 | 26/30 | 0.76 | 19.30 | 546 | 5 | 13.29 |
| 570018 | 832006 | 16 | 20 | 26/30 | 0.76 | 19.81 | 616 | 5 | 13.29 |
| 570019 | 832406 | 16 | 24 | 26/30 | 0.76 | 23.37 | 729 | 4.5 | 13.29 |
| 570026 | 833006 | 16 | 30 | 26/30 | 0.76 | 24.89 | 912 | 4.5 | 13.29 |
| 598314 | 833706 | 16 | 37 | 26/30 | 0.76 | 26.67 | 1070 | 4 | 13.29 |
| TBA | 834006 | 16 | 40 | 26/30 | 0.76 | 27.69 | 1171 | 4 | 13.29 |
| 558147 | 830507 | 14 | 5 | 41/30 | 1.27 | 16.64 | 379 | 12 | 8.37 |
| 558149 | 830607 | 14 | 6 | 41/30 | 1.27 | 16.87 | 481 | 12 | 8.37 |
| 558150 | 830707 | 14 | 7 | 41/30 | 1.27 | 18.03 | 414 | 10 | 8.37 |
| 558230 | 830807 | 14 | 8 | 41/30 | 1.27 | 18.54 | 507 | 10 | 8.37 |
| 569994 | 831007 | 14 | 10 | 41/30 | 1.27 | 19.56 | 610 | 7 | 8.37 |
| 571270 | 831207 | 14 | 12 | 41/30 | 1.27 | 22.35 | 717 | 7 | 8.37 |
| 569995 | 831407 | 14 | 14 | 41/30 | 1.27 | 24.89 | 728 | 7 | 8.37 |
| 569997 | 831607 | 14 | 16 | 41/30 | 1.27 | 25.40 | 935 | 7 | 8.37 |
| 569998 | 832007 | 14 | 20 | 41/30 | 1.27 | 28.19 | 1164 | 7 | 8.37 |
| 569999 | 832407 | 14 | 24 | 41/30 | 1.27 | 29.72 | 1205 | 6 | 8.37 |
| 598306 | 833707 | 14 | 37 | 41/30 | 1.27 | 33.02 | 1790 | 6 | 8.37 |
| 570004 | 833007 | 14 | 30 | 41/30 | 1.27 | 34.04 | 1484 | 6 | 8.37 |
| TBA | 834007 | 14 | 40 | 41/30 | 1.27 | 37.34 | 2493 | 6 | 8.37 |
| 558104 | 830508 | 12 | 5 | 65/30 | 1.27 | 18.03 | 503 | 16 | 5.28 |
| 558144 | 830608 | 12 | 6 | 65/30 | 1.27 | 18.80 | 522 | 16 | 5.28 |
| 558145 | 830708 | 12 | 7 | 65/30 | 1.27 | 19.05 | 554 | 14 | 5.28 |



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Services

| Stock Number | CCI Part # | Cond. Size AWG/Kcmil | Cond. Number Count | Cond. Strands # x AWG | Insul. Thickness mm | Approx. OD mm | Approx. Weight kg/km | Ampacity * Amp | DC Resistance Ω/km |
|--------------|------------|-------------------------|-----------------------|--------------------------|------------------------|------------------|-------------------------|-------------------|-----------------------|
| 558146 | 830808 | 12 | 8 | 65/30 | 1.27 | 20.32 | 622 | 14 | 5.28 |
| 571397 | 830908 | 12 | 9 | 65/30 | 1.27 | 21.59 | 805 | 14 | 5.28 |
| 569981 | 831008 | 12 | 10 | 65/30 | 1.27 | 23.62 | 871 | 10 | 5.28 |
| 569982 | 831208 | 12 | 12 | 65/30 | 1.27 | 25.15 | 1027 | 10 | 5.28 |
| 598307 | 831408 | 12 | 14 | 65/30 | 1.27 | 26.42 | 1083 | 10 | 5.28 |
| 598308 | 831608 | 12 | 16 | 65/30 | 1.27 | 27.69 | 1134 | 10 | 5.28 |
| 569983 | 832008 | 12 | 20 | 65/30 | 1.27 | 30.48 | 1372 | 10 | 5.28 |
| 531718 | 832408 | 12 | 24 | 65/30 | 1.27 | 33.53 | 1686 | 9 | 5.28 |
| TBA | 833008 | 12 | 30 | 65/30 | 1.27 | 36.07 | 1973 | 9 | 5.28 |
| 569987 | 833708 | 12 | 37 | 65/30 | 1.27 | 38.35 | 2325 | 8 | 5.28 |
| 558103 | 830509 | 10 | 5 | 104/30 | 1.27 | 19.56 | 655 | 20 | 3.22 |
| 569979 | 830609 | 10 | 6 | 104/30 | 1.27 | 20.57 | 693 | 20 | 3.22 |
| 569980 | 830709 | 10 | 7 | 104/30 | 1.27 | 21.34 | 774 | 17 | 3.22 |
| TBA | 830809 | 10 | 8 | 104/30 | 1.27 | 22.10 | 798 | 17 | 3.22 |
| 595662 | 831009 | 10 | 10 | 104/30 | 1.27 | 26.16 | 1094 | 12 | 3.22 |
| 570006 | 831209 | 10 | 12 | 104/30 | 1.27 | 27.18 | 1192 | 12 | 3.22 |
| TBA | 831409 | 10 | 14 | 104/30 | 1.27 | 28.45 | 1366 | 12 | 3.22 |
| TBA | 831609 | 10 | 16 | 104/30 | 1.27 | 29.97 | 1540 | 12 | 3.22 |
| TBA | 832009 | 10 | 20 | 104/30 | 1.27 | 33.78 | 1872 | 12 | 3.22 |
| TBA | 832409 | 10 | 24 | 104/30 | 1.27 | 37.59 | 2253 | 11 | 3.22 |
| TBA | 833009 | 10 | 30 | 104/30 | 1.27 | 39.62 | 2711 | 11 | 3.22 |
| TBA | 833709 | 10 | 37 | 104/30 | 1.27 | 42.67 | 3246 | 10 | 3.22 |



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Services

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 |



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Services